SHINWA

Work Together

# GENERAL CATALOG

## 2018.10～

Shinwa Rules Co., Ltd.

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SHINWA

# Work Together

The words above are very important to us.
They convey a crucial message: combine your strengths, come together, and perform as a single entity.
Our mission is to create measuring instruments and other products that are designed to help you and work together with you, on the job and in daily life.
The motto above serves as a constant reminder that we're here to listen to your ideas and work together with you.

## Quantity of Packing Unit

The quantity listed is the packing unit per box. For the items with a case unit, the packing unit per case is listed in the parenthesis below the quantity.

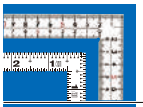
## The Difference Between Polish Finish and Hard Chrome Finish

Both are made of stainless steel, but the hard chrome finish model has a matte finish. This prevents the sun from causing glare on the scale, making it easier to read.

## Shaku Scale

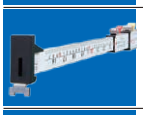
The shaku (尺) is a unit of length traditionally used in East Asian countries. 1shaku is equal to 10/33 meters (approximately 30.3 cm) in Japan.
The shaku system has smaller units as following: 1shaku (尺)=10 sun (寸) =1,000 bu (分)=10,000 rin (厘)


| | |
|---|---|
| P. 214 | 21. Parts List |
| P. 223 | 22. Japan Calibration Service System (JCSS) |
| P. 225 | 23. Etching |
| P. 226 | 24. Sheet Heaters |
| P. 227 | 25. Custom-Made Items |
| P. 228 | 26. Name Printing |
| P. 229 | 27. Index Item Code ➡ Description |
| P. 251 | 28. Index Description ➡ Item Code |

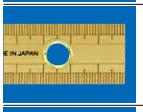




P. 7 — 1. Carpenter's Squares
Carpenter's Square, HC Square Rigid, Large Square, Large Caliper, Dressmaking Square, Rafter Square

P. 26 — 2. Stainless Steel Rules/Machine Scale
Stainless Steel Rule, 6-Folding Stainless Steel Rule, Molding Rule, Precision Stainless Steel Rule

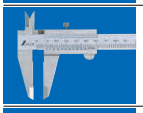




P. 37 — 3. Aluminum Rules
Aluminum Rule with Non-slip Pad, Aluminum Cutting Rule, Telescopic Measure, Shaku Measure


P. 44 — 4. Resin Folding Rules/Bamboo Rules
Folding Rule, Bamboo Rule

P. 46 — 5. Squares/Protractors
Japanese Try Square, Miter Gauge, Japanese Bevel, Try Square Aluminum Base

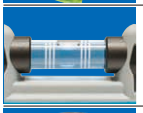




P. 53 — 6. Vernier Calipers/Micrometers
Vernier Caliper, Depth Gauge, Micrometer

P. 59 — 7. Tape Measures
Tape Measure, Flat Tape, Spring Tape Measure

P. 64 — 8. Surveying Products
Aluminum Leveling Rod, Construction Black Board

P. 80 — 9. Scales
Scale, Digital Scale, Spring Scale


P. 85 — 10. Levels
Level, Blue Slant, Water Level, Digital Level

P. 95 — 11. Lasers/Optical Equipment
Laser, Laser Range Finder, Auto Level

P. 114 — 12. Inklines/Chalklines/Plumbholders
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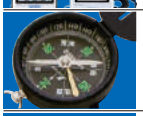
P. 131 — 13. Circular Saw Guides
Circular Saw Guide L Angle, Circular Saw Guide T-slide, Circular Saw Guide I Clamp, Circular Saw Guide Free Angle

P. 144 — 14. Construction Tools
Stud Finder, Measuring Instrument Set for Steel Fabrication, Log Scriber

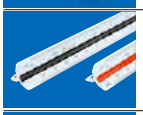
P. 151 — 15. Industrial Tools
Scribing Needle, Caliper, Gauge, Counter, Inspection Mirror, Chuck Wrench

P. 163 — 16. Thermometers/Hygrometers/Environment Measuring Instruments
Thermometer, Hygrometer, Soil pH Meter, Lux Meters, UV Light Meter, Noise Meter


P. 186 — 17. Outdoor Products
Dry Compass, Map Measure

P. 189 — 18. Magnifying Glasses
Reading Glass, Power Magnifier, Sheet Magnifier, Binocular


P. 195 — 19. Drawing Tools
Rule, Erasing Shield, Template, Triangle Scale, Drawing Compass

P. 204 — 20. Magnets
Color Magnet, Pick-up, with Handle, Magnetic Sheet Mat


## Key to the symbols

NEW New catalog items

- JIS — JIS mark
- cm/shaku — cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku)
- shaku/cm — shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric)
- With non-slip pad
- With red numbers
- With grid scale
- Vial with luminous sheet
- With magnet
- Thermometer/Hygrometer
- Thermometer
- Hygrometer
- With hanging hole
- Letters in English
- Letters in Japanese
- Japanese zodiac signs
- With stopper
- With direction arrow
- Oil
- With battery
- With edge
- Double-sided tape
- Glass lens
- Plastic lens

## Packaging

- S — Shrink package
- SP — Sleeve package
- C — Card
- B — Box
- B — Bag
- V — Vinyl package
- VH — Vinyl package + header card
- C — Clear package
- No package

# New Products

Laser Beam Level II 300 mm
with Magnet
[P. 93]

Tape Measure RIGHT GEAR
25-7.5 m/shaku
[P. 61]

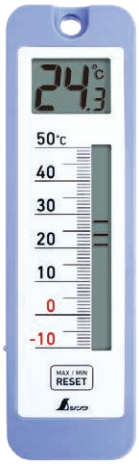
Round Shape Vial
ϕ16 Blue 2 pc-pack
[P. 91]

Mini Level Revo
Clear Cube Model
[P. 90]

Large Square Polish Finish
60 x 30 cm with 8 Scales
[P. 21]

Carpenter's Square Flat Corner
White 1 shaku 5 sun
[P. 12]

Inspection Scope B ϕ9
Wireless 3.5 Inch LCD
[P. 159]

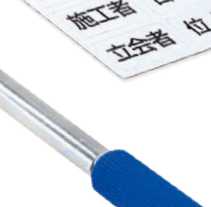



Maximum and Minimum
Digital Thermometer D-10
Waterproof
[P. 171]

Handy Ink Line Marker Pro Plus
Auto-rewind Sharp Line
Metal Blue
[P. 115]

Fiberglass Folding Rule
5-folding 1 m Black
[P. 45]

Construction White Board Mini
with Telescopic Arm
MCW 14 x 17 cm with Itemized
Magnetic Sheet
[P. 75]



Digital Thermo/Hygrometer
Home A with Clear Package
[P. 170]

Carpenter's Square Holder with Magnet
[P. 20]

Digital Moisture Meter for Wood with Maximum and Minimum Hold Function
[P. 146]

Vernier Caliper 450 mm
[P. 53]

Laser ROBO X line-E Green
[P. 97]

Laser ROBO X line-E Red
[P. 97]

Laser Range Finder
L-Measure30
Metric/Shaku
[P. 111]

Tripod with Handle B
[P. 113]

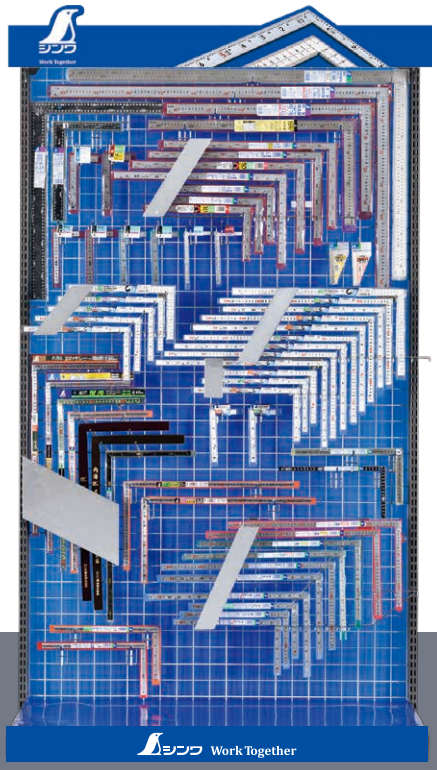
Tripod with Handle C
[P. 113]

Wireless Thermometer with Remote Twin Probe A Maximum and Minimum External Antenna Type
[P. 173]

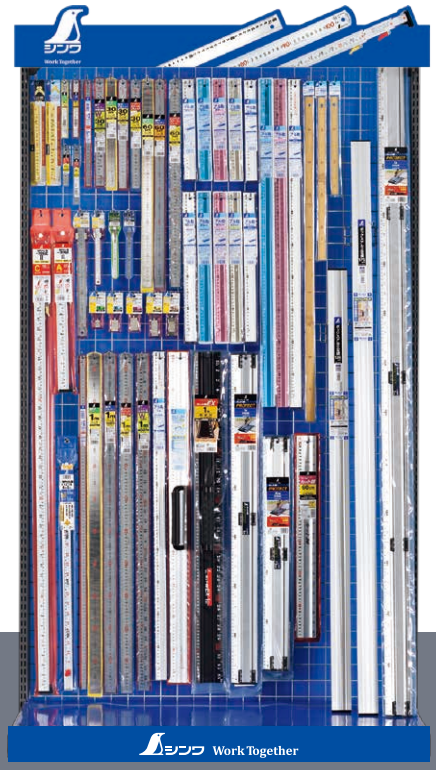
Circular Saw Guide L-Angle Plus Adjust 1 m/shaku
[P. 134]

Circular Saw Guide L-Angle Plus Shift with Gradient Scale Cutting Function 1 m/shaku
[P. 133]

## Carpenter's Squares (P. 7)



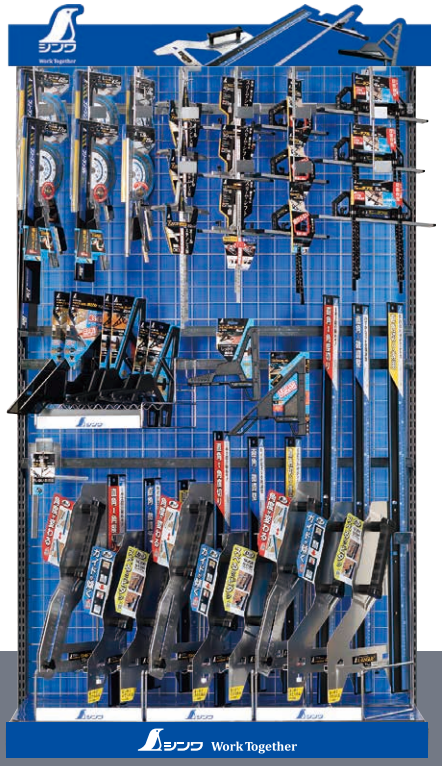

## Stainless Steel Rules/Machine Scale (P. 26)
## Aluminum Rules (P. 37)
## Resin, Bamboo Rules (P. 44)




## Square/Protractors (P. 46)
## Vernier Calipers/Micrometers (P. 53)
## Tape Measures (P. 59)

## Inklines/Chalklines/Plumbholders (P. 114)

## Circular Saw Guides (P. 131)

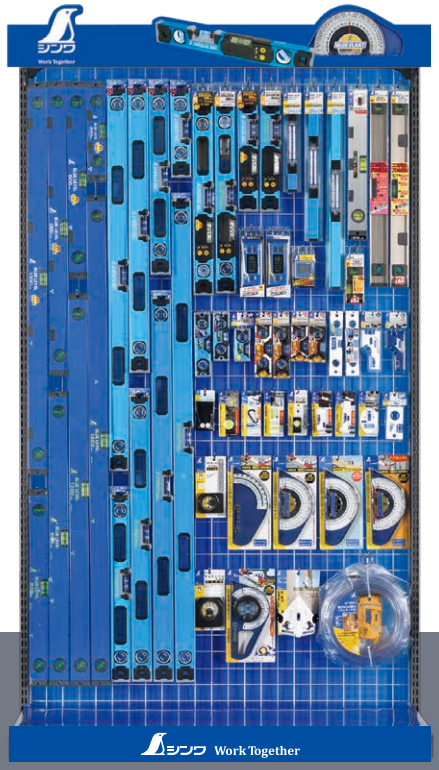



## Construction Tools (P. 144)
## Industrial Tools (P. 151)

*Not available in certain areas. Please contact us for details.

## Surveying Products (P. 64)
## Scales (P. 80)

## Levels (P. 85)



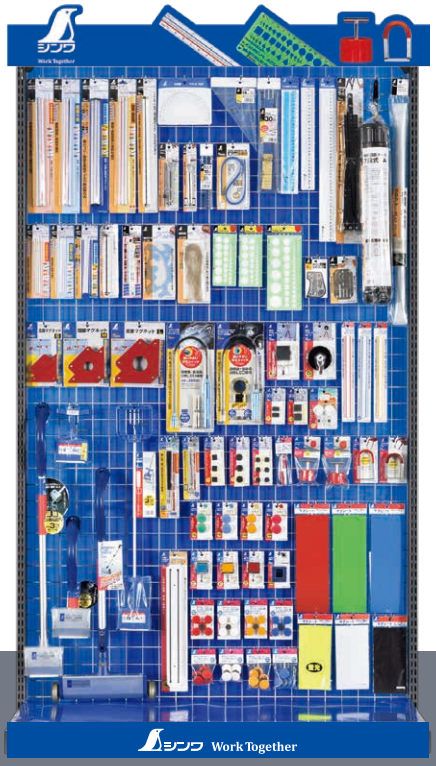

## Lasers/Optical Equipment (P. 95)

*Not available in certain areas. Please contact us for details.

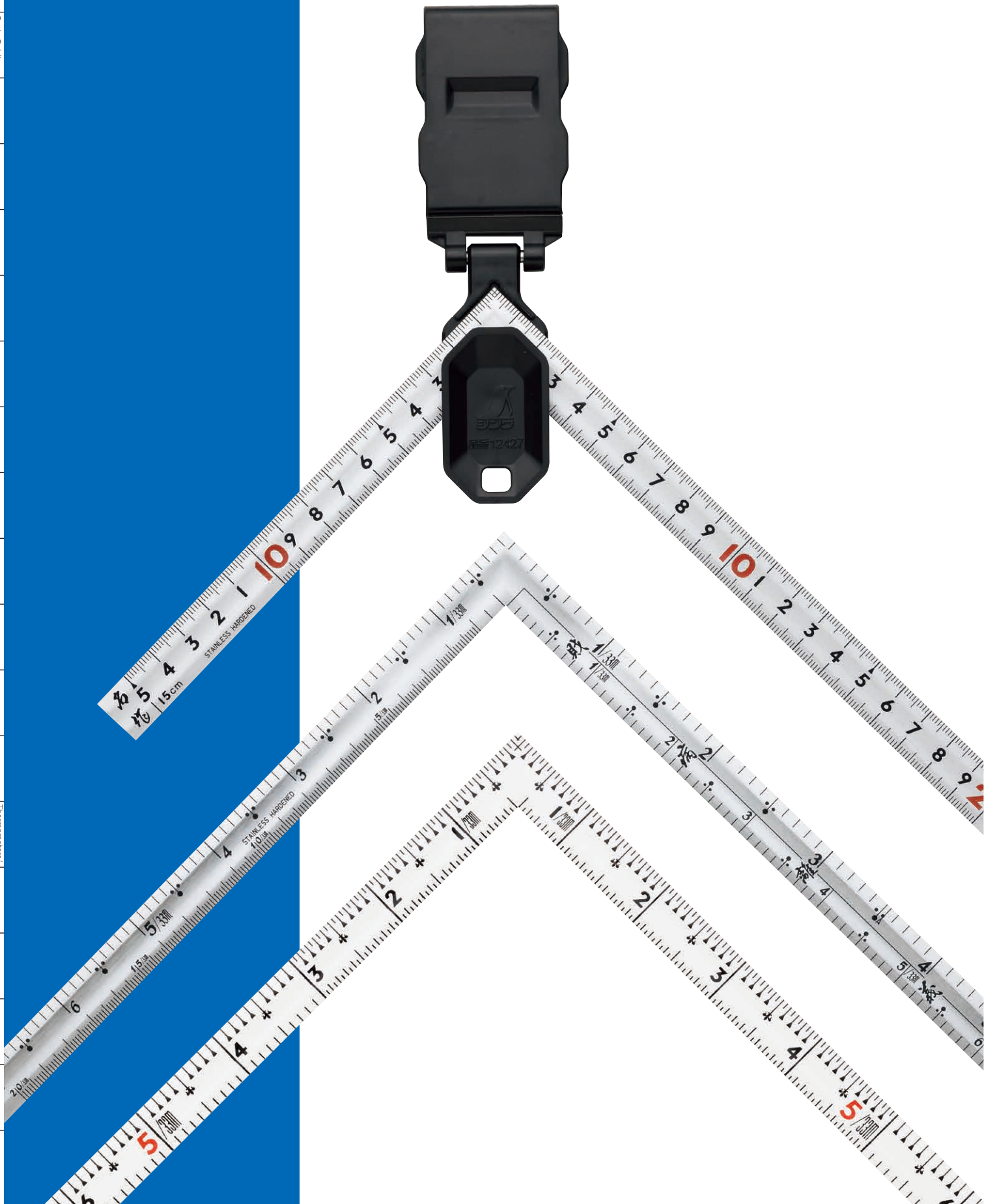
## Thermometers/Hygrometers/ Environment Measuring Instruments (P. 163)

## Outdoor Products (P. 186)
## Magnifying Glasses (P. 189)

## Drawing Tools (P. 195)
## Magnets (P. 204)



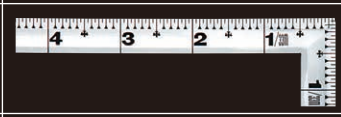
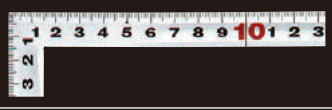
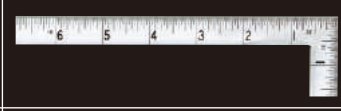
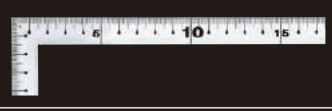
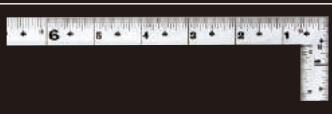
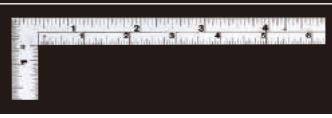
# 1. Carpenter's Squares



The difference between Polish Finish and Hard Chrome Finish

Surface finish differs. The polish finish is regular stainless steel while the hard chrome type has been given a matte finish to prevent glare and give the scale high readability.

# Carpenter's Square Thick Corner Hard Chrome Finish

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10030<br>10294 | | | |
| 10553<br>10561<br>10626 |  | | |
| 10014 | | | |
| 10286 | | | |
| 10011<br>10012<br>10027 | | | |
| 10555<br>10556<br>10028 | | |  |
| 34513 |  | |  |
| 34517 |  | |  |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 10030 | 50 cm JIS Red 12 | 520×15×1.4 (260) | 91 | 4 960910 100305 | 10 | V |
| 10294 | 30 cm JIS Red 12 | 320×15×1.4 (160) | 60 | 4 960910 102941 | | |
| 10553 | 1 shaku 5 sun Red 12 | 485×15×1.4 (242.5) | 86 | 4 960910 105539 | | |
| 10561 | 1 shaku 6 sun Red 12 | 520×15×1.4 (260) | 91 | 4 960910 105614 | | |
| 10626 | 1 shaku Red 12 | 320×15×1.4 (160) | 60 | 4 960910 106260 | | |
| 10014 | 50 cm with Square Scale JIS Red 12 | 520×15×1.4 (260) | 91 | 4 960910 100145 | | |
| 10286 | 30 cm with Square Scale JIS Red 12 | 320×15×1.4 (160) | 60 | 4 960910 102866 | | |
| 10588 | 1 shaku 5 sun with Square Scale Red 12 | 485×15×1.4 (242.5) | 86 | 4 960910 105881 | | |
| 10596 | 1 shaku 6 sun with Square Scale Red 12 | 520×15×1.4 (260) | 91 | 4 960910 105966 | | |
| 10618 | 1 shaku with Square Scale Red 12 | 323×15×1.4 (161.5) | 60 | 4 960910 106185 | | |
| 10011 | 50 cm/1 shaku 5 sun cm/shaku Red 12 | 520×15×1.4 (260) | 91 | 4 960910 100114 | | |
| 10012 | 50 cm/1 shaku 6 sun cm/shaku Red 12 | 520×15×1.4 (260) | 91 | 4 960910 100121 | | |
| 10027 | 30 cm/1 shaku cm/shaku Red 12 | 320×15×1.4 (160) | 60 | 4 960910 100275 | | |
| 10555 | 1 shaku 5 sun/50 cm shaku/cm Red 12 | 520×15×1.4 (260) | 91 | 4 960910 105553 | | |
| 10556 | 1 shaku 6 sun/50 cm shaku/cm Red 12 | 520×15×1.4 (260) | 91 | 4 960910 105560 | | |
| 10028 | 1 shaku/30 cm shaku/cm Red 12 | 320×15×1.4 (160) | 60 | 4 960910 100282 | | |
| 34513 | H-1475 20"/45 cm | 520×15×1.4 (260) | 91 | 4 960910 345133 | | |
| 34517 | H-1476 20" with Square Scale | 520×15×1.4 (260) | 60 | 4 960910 345171 | | |

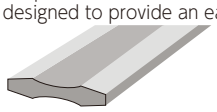
Refer to P. 2 about the shaku scale

## Features

- Hard chrome finish (matte processed) on graduation to prevent glare and make it easy to see

Matte processed

- Easy-to-read, large scale marks
- Angled face prevents ink from bleeding while shape is designed to provide an easy grip



- Includes graduations for both metric and shaku, so each can be used as necessary
- Strong due to hardening process yet also has flexibility

## Use

- For all types of inking, marking, and measuring right angles/length

## Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 10030 | 10294 | 10553 | 10561 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 30 cm | 1 shaku 5 sun | 1 shaku 6 sun |
| | | Inside | – | | | |
| | Short Branch | Outside | 25 cm | 15 cm | 7.5 sun | 8 sun |
| | | Inside | – | | | |
| Scale on Back Side | Long Branch | Outside | 50 cm | 30 cm | 1 shaku 5 sun | 1 shaku 6 sun |
| | | Inside | – | | | |
| | Short Branch | Outside | 25 cm | 15 cm | 7.5 sun | 8 sun |
| | | Inside | – | | | |
| Shape of Corner | | | Thick | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.2 mm | | | |
| Material | | | Stainless steel | | | |

| | | | 10626 | 10014 | 10286 | 10588 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 1shaku | 50 cm | 30 cm | 1 shaku 5 sun |
| | | Inside | – | | | |
| | Short Branch | Outside | 5 sun | 25 cm | 15 cm | 7.5 sun |
| | | Inside | – | | | |
| Scale on Back Side | Long Branch | Outside | 1shaku | SS | | |
| | | Inside | – | CS MS | CS | MS |
| | Short Branch | Outside | 5 sun | 25 cm | 15 cm | 7.5 sun |
| | | Inside | – | | | CS |
| Shape of Corner | | | Thick | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.2 mm | | | |
| Material | | | Stainless steel | | | |

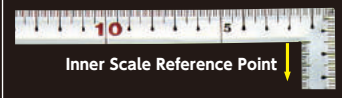
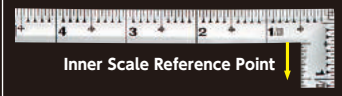
| | | | 10596 | 10618 | 10011 | 10012 | 10027 |
|---|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 1 shaku6 sun | 1 shaku | 50 cm | | 30 cm |
| | | Inside | – | | | | |
| | Short Branch | Outside | 8 sun | 5 sun | 25 cm | | 15 cm |
| | | Inside | – | | | | |
| Scale on Back Side | Long Branch | Outside | SS | | 1 shaku 5 sun | 1 shaku 6 sun | 1 shaku |
| | | Inside | MS | 1shaku | – | | |
| | Short Branch | Outside | 8 sun | 5 sun | 7.5 sun | 8 sun | 5 sun |
| | | Inside | CS | | – | | |
| Shape of Corner | | | Thick | | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | | |
| Length Tolerance | | | ±0.2 mm | | | | |
| Material | | | Stainless steel | | | | |

| | | | 10555 | 10556 | 10028 | 34513 | 34517 |
|---|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 1 shaku 5 sun | 1 shaku 6 sun | 1 shaku | 20" | |
| | | Inside | – | | | | |
| | Short Branch | Outside | 7.5 sun | 8 sun | 5 sun | 10" | |
| | | Inside | – | | | | 9" |
| Scale on Back Side | Long Branch | Outside | 50 cm | | 30 cm | 45 cm | SS |
| | | Inside | – | | | | 15" MS |
| | Short Branch | Outside | 25 cm | | 15 cm | 23 cm | 10" |
| | | Inside | – | | | | CS |
| Shape of Corner | | | Thick | | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | | |
| Length Tolerance | | | ±0.2 mm | | | | |
| Material | | | Stainless steel | | | | |

JIS JIS mark · Red With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge

12 Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale and Inside Scale

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10359 |  Inner Scale Reference Point | | |
| 10332<br>10340 |  Inner Scale Reference Point | | |

| Item Code | Description | | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 10359 | 50 cm | JIS Red 12 | 520×15×1.4 (260) | 91 | 4 960910 103597 | 10 | V |
| 10332 | 1 shaku 5 sun | Red 12 | 485×15×1.4 (242.5) | 86 | 4 960910 103320 | | |
| 10340 | 1 shaku 6 sun | Red 12 | 520×15×1.4 (260) | 91 | 4 960910 103405 | | |

Refer to P. 2 about the shaku scale

### Features

- Inner graduations based on the inner scale reference point are marked on short branch
- Hard chrome finish (matte processed) on graduation to prevent glare and make it easy to see

- Strong due to hardening process yet also has flexibility

### Use

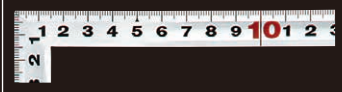
- For all types of inking, marking, and measuring right angles/length

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 10359 | 10332 | 10340 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 1 shaku 5 sun | 1 shaku 6 sun |
| | | Inside | – | | |
| | Short Branch | Outside | 25 cm | 7.5 sun | 8 sun |
| | | Inside | 23 cm | 7 sun | 7.5 sun |
| Scale on Back Side | Long Branch | Outside | SS | | |
| | | Inside | CS MS | MS | |
| | Short Branch | Outside | 25 cm | 7.5 sun | 8 sun |
| | | Inside | – | CS | |
| Shape of Corner | | | Thick | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | | ±0.2 mm | | |
| Material | | | Stainless steel | | |

## Carpenter's Square Thick Corner Hard Chrome Finish for Left-hander

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10677 |  | | |
| 10650<br>10669 | | | |

| Item Code | Description | | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 10677 | 50 cm with Square Scale | Red 12 | 520×15×1.4 (260) | 91 | 4 960910 106772 | 10 | V |
| 10650 | 1 shaku 5 sun with Square Scale | Red 12 | 485×15×1.4 (242.5) | 86 | 4 960910 106505 | | |
| 10669 | 1 shaku 6 sun with Square Scale | Red 12 | 520×15×1.4 (260) | 91 | 4 960910 106697 | | |

Refer to P. 2 about the shaku scale

### Features

- For left-handed users
- Hard chrome finish (matte processed) on graduation to prevent glare and make it easy to see

- Strong due to hardening process yet also has flexibility

### Use

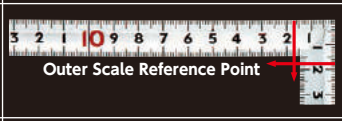
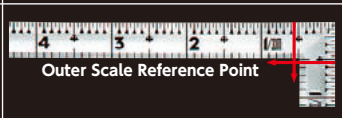
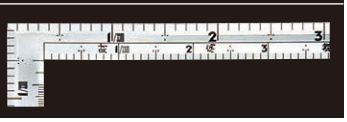
- For all types of inking, marking, and measuring right angles/length

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 10677 | 10650 | 10669 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 1 shaku 5 sun | 1 shaku 6 sun |
| | | Inside | – | | |
| | Short Branch | Outside | 25cm | 7.5sun | 8sun |
| | | Inside | – | | |
| Scale on Back Side | Long Branch | Outside | SS | | |
| | | Inside | CS MS | MS | |
| | Short Branch | Outside | 25 cm | 7.5 sun | 8 sun |
| | | Inside | – | CS | |
| Shape of Corner | | | Thick | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | | ±0.2 mm | | |
| Material | | | Stainless steel | | |

## Carpenter's Square Thick Corner Hard Chrome Finish with Inside Scales

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10370 |  Outer Scale Reference Point | | |
| 10373 | Outer Scale Reference Point | | |
| 10371<br>10372 |  Outer Scale Reference Point | |  |

| Item Code | Description | | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 10370 | 50 cm | JIS Red 12 | 520×15×1.4 (260) | 91 | 4 960910 103702 | 10 | V |
| 10373 | 50 cm with Square Scale | JIS Red 12 | 520×15×1.4 (260) | 91 | 4 960910 103733 | | |
| 10371 | 1 shaku 5 sun with Square Scale | Red 12 | 485×15×1.4 (242.5) | 86 | 4 960910 103719 | | |
| 10372 | 1 shaku 6 sun with Square Scale | Red 12 | 520×15×1.4 (260) | 91 | 4 960910 103726 | | |

Refer to P. 2 about the shaku scale

### Features

- Inner graduations based on the outer scale reference point are marked on front side
- Hard chrome finish (matte processed) on graduation to prevent glare and make it easy to see

- Strong due to hardening process yet also has flexibility

### Use

- For all types of inking, marking, and measuring right angles/length

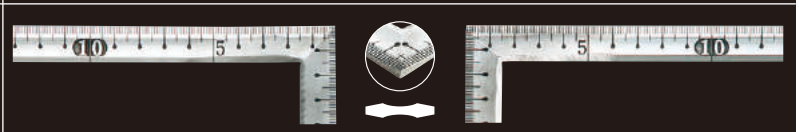
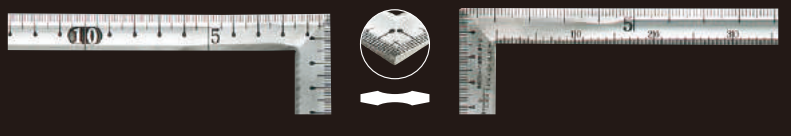
### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 10370 | 10373 | 10371 | 10372 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | | 1 shaku 5 sun | 1 shaku 6 sun |
| | | Inside | 45 cm | | 1 shaku | |
| | Short Branch | Outside | 25 cm | | 7.5 sun | 8 sun |
| | | Inside | 20 cm | | 7 sun | |
| Scale on Back Side | Long Branch | Outside | 50 cm | SS | | |
| | | Inside | MS | CS MS | MS | |
| | Short Branch | Outside | 25 cm | | 7.5 sun | 8 sun |
| | | Inside | – | | CS | |
| Shape of Corner | | | Thick | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.2 mm | | | |
| Material | | | Stainless steel | | | |

JIS JIS mark | Red With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | With luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge | Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

## Carpenter's Square Thick Corner Polish Finish

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 11010 |  | | |
| 11002 |  | | |

| Item Code | Description | | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 11010 | 50 cm | JIS 12 | 520×15×1.4 (260) | 91 | 4 960910 110106 | 10 | V |
| 11002 | 50 cm with Square Scale | JIS 12 | 520×15×1.4 (260) | 91 | 4 960910 110021 | | |

### Features

- Leverages the luster of stainless
- Strong due to hardening process yet also has flexibility

### Use

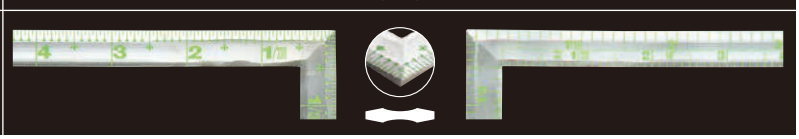
- For all types of inking, marking, and measuring right angles/length

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 11010 | 11002 |
|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | |
| | | Inside | – | |
| | Short Branch | Outside | 25 cm | |
| | | Inside | – | |
| Scale on Back Side | Long Branch | Outside | 50 cm | SS |
| | | Inside | – | CS MS |
| | Short Branch | Outside | 25 cm | |
| | | Inside | – | |
| Shape of Corner | | | Thick | |
| Squareness | | | Less than 0.1 mm per 100 mm | |
| Length Tolerance | | | ±0.2 mm | |
| Material | | | Stainless steel | |

## Carpenter's Square Thick Corner Polish Finish Fluorescent

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 11777 | | | |
| 11770 | | | |
| 11754 11762 |  | | |

| Item Code | Description | | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 11777 | 50 cm | JIS Red 12 | 520×15×1.4 (260) | 91 | 4 960910 117778 | 10 | V |
| 11770 | 50 cm with Square Scale | JIS Red 12 | 520×15×1.4 (260) | 91 | 4 960910 117709 | | |
| 11754 | 1 shaku 5 sun with Square Scale | Red 12 | 485×15×1.4 (242.5) | 86 | 4 960910 117549 | | |
| 11762 | 1 shaku 6 sun with Square Scale | Red 12 | 520×15×1.4 (260) | 91 | 4 960910 117624 | | |

Refer to P. 2 about the shaku scale

### Features

- Easy to read even in the dark
- Strong due to hardening process yet also has flexibility

### Use

- For all types of inking, marking, and measuring right angles/length

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 11777 | 11770 | 11754 | 11762 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | | 1 shaku 5 sun | 1 shaku 6 sun |
| | | Inside | – | | | |
| | Short Branch | Outside | 25 cm | | 7.5 sun | 8 sun |
| | | Inside | – | | | |
| Scale on Back Side | Long Branch | Outside | 50 cm | SS | | |
| | | Inside | – | CS MS | MS | |
| | Short Branch | Outside | 25 cm | | 7.5 sun | 8 sun |
| | | Inside | – | | CS | |
| Shape of Corner | | | Thick | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.2 mm | | | |
| Material | | | Stainless steel | | | |

## Carpenter's Square Thick Corner Black Color

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10871 | | | |
| 10758 | | | |

| Item Code | Description | | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 10871 | 50 cm with Square Scale | JIS 12 | 520×15×1.4 (260) | 87 | 4 960910 108714 | 10 | V |
| 10758 | 1 shaku 5 sun with Square Scale | 12 | 485×15×1.4 (242.5) | 83 | 4 960910 107588 | | |

Refer to P. 2 about the shaku scale

### Features

- Decorative gold graduation
- Luxury finish, great as a gift
- Strong due to hardening process yet also has flexibility

Luxurious black finish + Gold gilded graduation

### Use

- For all types of inking, marking, and measuring right angles/length

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 10871 | 10758 |
|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 1 shaku 5 sun |
| | | Inside | – | – |
| | Short Branch | Outside | 25 cm | 7.5 sun |
| | | Inside | – | – |
| Scale on Back Side | Long Branch | Outside | SS | |
| | | Inside | CS MS | MS |
| | Short Branch | Outside | 25 cm | 7.5 sun |
| | | Inside | – | CS |
| Shape of Corner | | | Thick | |
| Squareness | | | Less than 0.1 mm per 100 mm | |
| Length Tolerance | | | ±0.2 mm | |
| Material | | | Stainless steel | |

## Carpenter's Square Flat Corner Hard Chrome Finish

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10640<br>10647 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 10643<br>10646<br>10648 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 10653 | Outer Scale Reference Point | | |
| 10652 | Outer Scale Reference Point | | |
| 10654<br>10655 | Outer Scale Reference Point | | |
| 10657 | Outer Scale Reference Point | | |
| 10638<br>10639<br>10642 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 10644<br>10645<br>10649 | Outer Scale Reference Point | | Outer Scale Reference Point |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 10640 | 50 cm JIS Red 12 | 520×15×1.4 (260) | 88 | 4 960910 106406 | 10 | V |
| 10647 | 30 cm JIS Red 12 | 320×15×1.4 (160) | 56 | 4 960910 106475 | | |
| 10643 | 1 shaku 5 sun Red 12 | 485×15×1.4 (242.5) | 86 | 4 960910 106437 | | |
| 10646 | 1 shaku 6 sun Red 12 | 520×15×1.4 (260) | 88 | 4 960910 106468 | | |
| 10648 | 1 shaku Red 12 | 320×15×1.4 (160) | 56 | 4 960910 106482 | | |
| 10653 | 50 cm with Square Scale JIS Red 12 | 520×15×1.4 (260) | 88 | 4 960910 106536 | | |
| 10652 | 30 cm with Square Scale JIS Red 12 | 320×15×1.4 (160) | 56 | 4 960910 106529 | | |
| 10654 | 1 shaku 5 sun with Square Scale Red 12 | 485×15×1.4 (242.5) | 86 | 4 960910 106543 | | |
| 10655 | 1 shaku 6 sun with Square Scale Red 12 | 520×15×1.4 (260) | 88 | 4 960910 106550 | | |
| 10657 | 1 shaku with Square Scale Red 12 | 323×15×1.4 (161.5) | 56 | 4 960910 106574 | | |
| 10638 | 50 cm/1 shaku 5 sun cm/shaku Red 12 | 520×15×1.4 (260) | 88 | 4 960910 106383 | | |
| 10639 | 50 cm/1 shaku 6 sun cm/shaku Red 12 | 520×15×1.4 (260) | 88 | 4 960910 106390 | | |
| 10642 | 30 cm/1 shaku cm/shaku Red 12 | 320×15×1.4 (160) | 56 | 4 960910 106420 | | |
| 10644 | 1 shaku 5 sun/50 cm shaku/cm Red 12 | 520×15×1.4 (260) | 88 | 4 960910 106444 | | |
| 10645 | 1 shaku 6 sun/50 cm shaku/cm Red 12 | 520×15×1.4 (260) | 88 | 4 960910 106451 | | |
| 10649 | 1 shaku/30 cm shaku/cm Red 12 | 320×15×1.4 (160) | 56 | 4 960910 106499 | | |

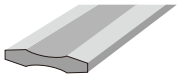
Refer to P. 2 about the shaku scale

JIS JIS mark · Red With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · 12 Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

### Features

- Corner has the same thickness as the branches
- With inner graduations based on the outer scale reference point
- Hard chrome finish on entire surface (matte processed)

- Angled face prevents ink from bleeding while shape is designed to provide an easy grip



- Includes graduations for both metric and shaku, so each can be used as necessary
- Strong due to hardening process yet also has flexibility

### Use

- For all types of inking, marking, and measuring right angles/length

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 10640 | 10647 | 10643 | 10646 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 30 cm | 1 shaku 5 sun | 1 shaku 6 sun |
| | | Inside | 45 cm | 25 cm | 1 shaku | |
| | Short Branch | Outside | 25 cm | 15 cm | 7.5 sun | 8 sun |
| | | Inside | 20 cm | 10 cm | 7 sun | |
| Scale on Back Side | Long Branch | Outside | 50 cm | 30 cm | 1 shaku 5 sun | 1 shaku 6 sun |
| | | Inside | 40 cm MS | 20 cm MS | 1 shaku MS | |
| | Short Branch | Outside | 25 cm | 15 cm | 7.5 sun | 8 sun |
| | | Inside | 20 cm | 10 cm | 7 sun | |
| Shape of Corner | | | Flat | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.2 mm | | | |
| Material | | | Stainless steel | | | |

| | | | 10648 | 10653 | 10652 | 10654 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 1 shaku | 50 cm | 30 cm | 1 shaku 5 sun |
| | | Inside | 7 sun | 45 cm | 25 cm | 1 shaku |
| | Short Branch | Outside | 5 sun | 25 cm | 15 cm | 7.5 sun |
| | | Inside | 3 sun | 20 cm | 10 cm | 7 sun |
| Scale on Back Side | Long Branch | Outside | 1 shaku | SS | | |
| | | Inside | 7 sun MS | CS MS | CS | MS |
| | Short Branch | Outside | 5 sun | 25 cm | 15 cm | 7.5 sun |
| | | Inside | 3 sun | – | | CS |
| Shape of Corner | | | Flat | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.2 mm | | | |
| Material | | | Stainless steel | | | |

| | | | 10655 | 10657 | 10638 | 10639 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 1 shaku 6 sun | 1 shaku | 50 cm | |
| | | Inside | 1 shaku | 7 sun | 45 cm | |
| | Short Branch | Outside | 8 sun | 5 sun | 25 cm | |
| | | Inside | 7 sun | 3 sun | 20 cm | |
| Scale on Back Side | Long Branch | Outside | SS | | 1 shaku 5 sun | 1 shaku 6 sun |
| | | Inside | MS | 1 shaku | 1 shaku MS | |
| | Short Branch | Outside | 8 sun | 5 sun | 7.5 sun | 8 sun |
| | | Inside | CS | | 7 sun | |
| Shape of Corner | | | Flat | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.2 mm | | | |
| Material | | | Stainless steel | | | |

| | | | 10642 | 10644 | 10645 | 10649 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 30 cm | 1 shaku 5 sun | 1 shaku 6 sun | 1 shaku |
| | | Inside | 25 cm | 1 shaku | | 7 sun |
| | Short Branch | Outside | 15 cm | 7.5 sun | 8 sun | 5 sun |
| | | Inside | 10 cm | 7 sun | | 3 sun |
| Scale on Back Side | Long Branch | Outside | 1 shaku | 50 cm | | 30 cm |
| | | Inside | 7 sun MS | 40 cm MS | | 20 cm MS |
| | Short Branch | Outside | 5 sun | 25 cm | | 15 cm |
| | | Inside | 3 sun | 20 cm | | 10 cm |
| Shape of Corner | | | Flat | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.2 mm | | | |
| Material | | | Stainless steel | | | |

## Carpenter's Square Flat Corner White

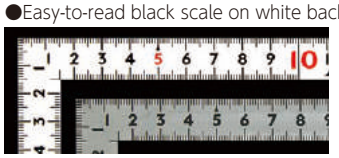
| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 11101<br>11100 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 11108<br>11103<br>11102 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 11109<br>11106<br>11104 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 11110<br>11107<br>11105 | Outer Scale Reference Point | | Outer Scale Reference Point |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 11101 | 50 cm Red | 520×15×1.4 (260) | 105 | 4 960910 111011 | 10 | V |
| 11100 | 30 cm Red | 320×15×1.4 (160) | 65 | 4 960910 111004 | | |
| 11108 | 1 shaku 5 sun NEW Red | 485×15×1.4 (242.5) | 100 | 4 960910 111080 | | |
| 11103 | 1 shaku 6 sun Red | 520×15×1.4 (260) | 105 | 4 960910 111035 | | |
| 11102 | 1 shaku Red | 320×15×1.4 (160) | 65 | 4 960910 111028 | | |
| 11109 | 50 cm/1 shaku 5 sun NEW cm/shaku Red | 520×15×1.4 (260) | 105 | 4 960910 111097 | | |
| 11106 | 50 cm/1 shaku 6 sun cm/shaku Red | 520×15×1.4 (260) | 105 | 4 960910 111066 | | |
| 11104 | 30 cm/1 shaku cm/shaku Red | 320×15×1.4 (160) | 65 | 4 960910 111042 | | |
| 11110 | 1 shaku 5 sun/50 cm NEW shaku/cm Red | 520×15×1.4 (260) | 105 | 4 960910 111103 | | |
| 11107 | 1 shaku 6 sun/50 cm shaku/cm Red | 520×15×1.4 (260) | 105 | 4 960910 111073 | | |
| 11105 | 1 shaku/30 cm shaku/cm Red | 320×15×1.4 (160) | 65 | 4 960910 111059 | | |

Refer to P. 2 about the shaku scale

### Features

- Easy-to-read black scale on white background




- Hard coating to prevent peeling

- Angled face prevents ink from bleeding while shape is designed to provide an easy grip
- Strong due to hardening process yet also has flexibility

### Use

- For all types of inking, marking, and measuring right angles/length

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | 11101 | 11100 | 11108 | 11103 |
|---|---|---|---|---|---|
| Scale on Front Side: Long Branch | Outside | 50 cm | 30 cm | 1 shaku 5 sun | 1 shaku 6 sun |
| | Inside | 45 cm | 30 cm | 1 shaku 3 sun | |
| Scale on Front Side: Short Branch | Outside | 25 cm | 15 cm | 7.5 sun | 8 sun |
| | Inside | 20 cm | 10 cm | 7 sun | |
| Scale on Back Side: Long Branch | Outside | 50 cm | 30 cm | 1 shaku 5 sun | 1 shaku 6 sun |
| | Inside | 40 cm MS | 20 cm MS | 1 shaku 2 sun MS | 1 shaku 3 sun MS |
| Scale on Back Side: Short Branch | Outside | 25 cm | 15 cm | 7.5 sun | 8 sun |
| | Inside | 20 cm | 10 cm | 7 sun | |
| Shape of Corner | | Flat | | | |
| Squareness | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | ±0.4 mm | ±0.3 mm | ±0.4 mm | |
| Material | | Stainless steel | | | |

| | | 11102 | 11109 | 11106 | 11104 |
|---|---|---|---|---|---|
| Scale on Front Side: Long Branch | Outside | 1 shaku | 50 cm | | 30 cm |
| | Inside | 7 sun | 45 cm | | 30 cm |
| Scale on Front Side: Short Branch | Outside | 5 sun | 25 cm | | 15 cm |
| | Inside | 4 sun | 20 cm | | 10 cm |
| Scale on Back Side: Long Branch | Outside | 1 shaku | 1 shaku 5 sun | 1 shaku 6 sun | 1 shaku |
| | Inside | 7 sun MS | 1 shaku 2 sun MS | 1 shaku 3 sun MS | 7 sun MS |
| Scale on Back Side: Short Branch | Outside | 5 sun | 7.5 sun | 8 sun | 5 sun |
| | Inside | 4 sun | 7 sun | | 4 sun |
| Shape of Corner | | Flat | | | |
| Squareness | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | ±0.3 mm | ±0.4 mm | | ±0.3 mm |
| Material | | Stainless steel | | | |

| | | 11110 | 11107 | 11105 |
|---|---|---|---|---|
| Scale on Front Side: Long Branch | Outside | 1 shaku 5 sun | 1 shaku 6 sun | 1 shaku |
| | Inside | 1 shaku 3 sun | | 7 sun |
| Scale on Front Side: Short Branch | Outside | 7.5 sun | 8 sun | 5 sun |
| | Inside | 7 sun | | 4 sun |
| Scale on Back Side: Long Branch | Outside | 50 cm | | 30 cm |
| | Inside | 40 cm MS | | 20 cm MS |
| Scale on Back Side: Short Branch | Outside | 25 cm | | 15 cm |
| | Inside | 20 cm | | 10 cm |
| Shape of Corner | | Flat | | |
| Squareness | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | ±0.4 mm | | ±0.3 mm |
| Material | | Stainless steel | | |

## Carpenter's Square High Quality Thick Corner Hard Chrome Finish

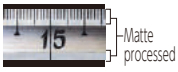
| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10839<br>10876 | | | |
| 10847<br>10877<br>10855<br>10878 | | | |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 10839 | 50 cm with Square Scale JIS Red 12 | 520×15×1.4 (260) | 84 | 4 960910 108394 | 10 | V |
| 10876 | 50 cm with Square Scale Flexible JIS Red 12 | 520×15×1.4 (260) | 73 | 4 960910 108769 | | |
| 10847 | 1 shaku 5 sun with Square Scale Red 12 | 485×15×1.4 (242.5) | 80 | 4 960910 108479 | | |
| 10877 | 1 shaku 5 sun with Square Scale Flexible Red 12 | 485×15×1.0 (242.5) | 67 | 4 960910 108776 | | |
| 10855 | 1 shaku 6 sun with Square Scale Red 12 | 520×15×1.0 (260) | 84 | 4 960910 108554 | | |
| 10878 | 1 shaku 6 sun with Square Scale Flexible Red 12 | 520×15×1.0 (260) | 73 | 4 960910 108783 | | |

Refer to P. 2 about the shaku scale

### Features

- High-precision squareness
- Hand polished by master craftmen
- Beautiful glossy finish on scale marks
- Packaged in high-quality raised fabric (10839/10847/10855)
- Thin and flexible(10876/10877/10878)
- Hard chrome finish (matte processed) on graduation to prevent glare and make it easy to see




- Angled face prevents ink from bleeding while shape is designed to provide an easy grip
- Strong due to hardening process yet also has flexibility

### Use

- For all types of inking, marking, and measuring right angles/length

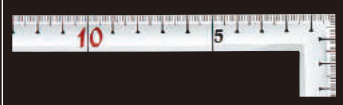
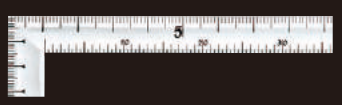
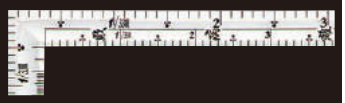
### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | 10839 | 10876 | 10847 | 10877 | 10855 | 10878 |
|---|---|---|---|---|---|---|---|
| Scale on Front Side: Long Branch | Outside | 50 cm | | 1 shaku 5 sun | | 1 shaku 6 sun | |
| | Inside | – | | | | | |
| Scale on Front Side: Short Branch | Outside | 25 cm | | 7.5 sun | | 8 sun | |
| | Inside | – | | | | | |
| Scale on Back Side: Long Branch | Outside | SS | | | | | |
| | Inside | CS MS | | MS | | | |
| Scale on Back Side: Short Branch | Outside | 25 cm | | 7.5 sun | | 8 sun | |
| | Inside | – | | CS | | | |
| Shape of Corner | | Thick | | | | | |
| Squareness | | Less than 0.06 mm per 100 mm | | | | | |
| Length Tolerance | | ±0.2 mm | | | | | |
| Material | | Stainless steel | | | | | |

JIS JIS mark · Red With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Carpenter's Square High Quality Thin Corner Hard Chrome Finish

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10837 |  | |  |
| 10845<br>10860 | | |  |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 10837 | 50 cm with Square Scale JIS Red 12 | 520×15×1.4 (260) | 80 | 4 960910 108370 | 10 | V |
| 10845 | 1 shaku 5 sun with Square Scale Red 12 | 485×15×1.4 (242.5) | 76 | 4 960910 108455 | | |
| 10860 | 1 shaku 6 sun with Square Scale Red 12 | 520×15×1.4 (260) | 80 | 4 960910 108608 | | |

Refer to P. 2 about the shaku scale.

### Features

- Finished squareness with high precision
- Individually hand polished by craftsmen
- Thin corner aids precision marking
- Glossy finish is beautifully applied on scale marks
- Packaged in high quality raised fabric
- Hard chrome finish on entire surface (matte processed) — Matte processed
- Angled face prevents ink from bleeding while shape is designed to provide an easy grip
- Strong due to hardening process yet also has flexibility

### Use

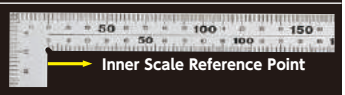
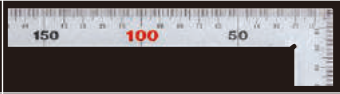
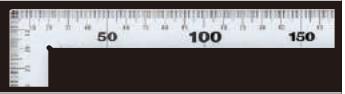
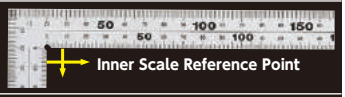
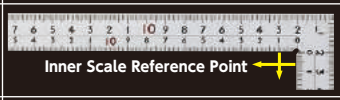
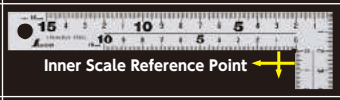
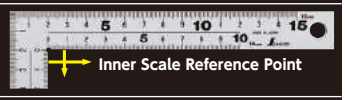
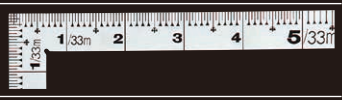
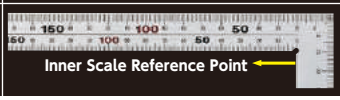
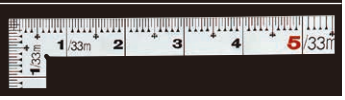
- For all types of inking, marking, and measuring right angles/length

### Specifications

—: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 10837 | 10845 | 10860 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 1 shaku 5 sun | 1 shaku 6 sun |
| | | Inside | — | | |
| | Short Branch | Outside | 25 cm | 7.5 sun | 8 sun |
| | | Inside | — | | |
| Scale on Back Side | Long Branch | Outside | SS | | |
| | | Inside | CS MS | MS | |
| | Short Branch | Outside | 25 cm | 7.5 sun | 8 sun |
| | | Inside | — | CS | |
| Shape of Corner | | | Thin | | |
| Squareness | | | Less than 0.06 mm per 100 mm | | |
| Length Tolerance | | | ±0.2 mm | | |
| Material | | | Stainless steel | | |

## Carpenter's Square Wide Hard Chrome Finish

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10405 | Inner Scale Reference Point | |  Inner Scale Reference Point |
| 11487 |  | |  |
| 11481<br>10421 | Inner Scale Reference Point | |  Inner Scale Reference Point |
| 10450<br>10451 |  Inner Scale Reference Point | | Inner Scale Reference Point |
| 10424 |  Inner Scale Reference Point | |  Inner Scale Reference Point |
| 10456<br>10464 | | |  |
| 10414 |  Inner Scale Reference Point | |  |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 10405 | 50 cm with 6 Scales JIS Red | 520×20×2.0 (260) | 240 | 4 960910 104051 | 10 | V |
| 11487 | 50 cm with 4 Scales JIS Red | 520×20×2.0 (260) | 240 | 4 960910 114876 | | |
| 11481 | 50 cm with 8 Scales JIS Red | 520×20×2.0 (260) | 240 | 4 960910 114814 | | |
| 10450 | 50 cm with 8 Scales cm Notation JIS Red | 520×20×2.0 (260) | 240 | 4 960910 104501 | | |
| 10421 | 30 cm with 8 Scales JIS Red | 320×20×2.0 (160) | 144 | 4 960910 104211 | | |
| 10451 | 30 cm with 8 Scales cm Notation JIS Red | 320×20×2.0 (160) | 144 | 4 960910 104518 | | |
| 10424 | 15 cm with 8 Scales cm Notation | 170×20×2.0 (85) | 72.5 | 4 960910 104242 | | |
| 10456 | 1 shaku 6 sun with 4 Scales | 520×20×2.0 (260) | 240 | 4 960910 104563 | | |
| 10464 | 1 shaku with 4 Scales | 320×20×2.0 (160) | 144 | 4 960910 104648 | | |
| 10414 | 50 cm/1 shaku 6 sun with 5 Scales cm/shaku Red | 520×20×2.0 (260) | 240 | 4 960910 104143 | | |

Refer to P. 2 about the shaku scale

### Features

- Heavy-duty
- Suitable for ironwork or engineering work
- Graduations marked on every edge (8-scale models)
- Strap hole on 10424, 10421, 10451
- Hard chrome finish on entire surface (matte processed) — Matte processed

### Use

- For all types of inking, marking, and measuring right angles/length

### Specifications

—: No scale SS: Square scale CS: Circle scale MS: Mortise scale

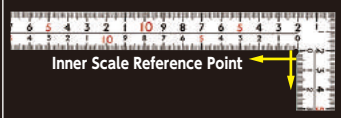
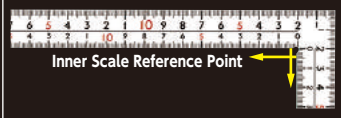
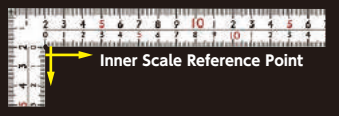
| | | | 10405 | 11487 | 11481 | 10450 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | | 50 cm | |
| | | Inside | 45 cm | — | 45 cm | |
| | Short Branch | Outside | 25 cm | | 25 cm | |
| | | Inside | — | | 20 cm | |
| Scale on Back Side | Long Branch | Outside | 50 cm | | 50 cm | |
| | | Inside | 45 cm | — | 45 cm | |
| | Short Branch | Outside | 25 cm | | 25 cm | |
| | | Inside | — | | 20 cm | |
| Shape of Corner | | | Flat | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.2 mm | | | |
| Material | | | Stainless steel | | | |

| | | | 10421 | 10451 | 10424 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 30 cm | | 15 cm |
| | | Inside | 25 cm | | 10 cm |
| | Short Branch | Outside | 15 cm | | 7.5 cm |
| | | Inside | 10 cm | | 5 cm |
| Scale on Back Side | Long Branch | Outside | 30 cm | | 15 cm |
| | | Inside | 25 cm | | 10 cm |
| | Short Branch | Outside | 15 cm | | 7.5 cm |
| | | Inside | 10 cm | | 5 cm |
| Shape of Corner | | | Flat | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | | ±0.2 mm | | |
| Material | | | Stainless steel | | |

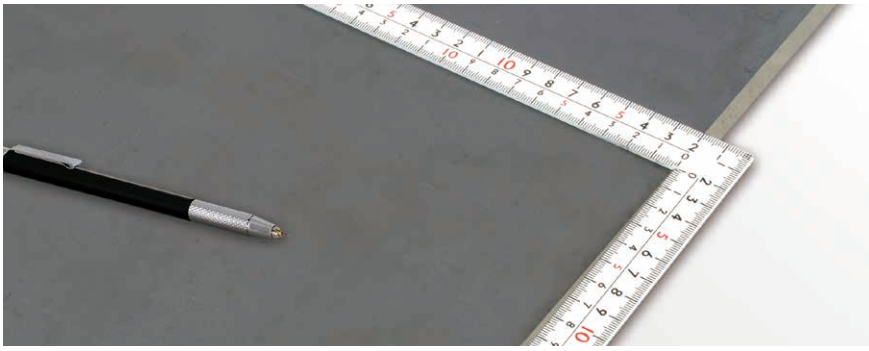
| | | | 10456 | 10464 | 10414 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 1 shaku 6 sun | 1 shaku | 50 cm |
| | | Inside | — | | 45 cm |
| | Short Branch | Outside | 8 sun | 5 sun | 25 cm |
| | | Inside | — | | |
| Scale on Back Side | Long Branch | Outside | 1 shaku 6 sun | 1 shaku | 1 shaku 6 sun |
| | | Inside | — | | |
| | Short Branch | Outside | 8 sun | 5 sun | 8 sun |
| | | Inside | — | | |
| Shape of Corner | | | Flat | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | | ±0.2 mm | | |
| Material | | | Stainless steel | | |

JIS JIS mark · Red With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Carpenter's Square Wide White

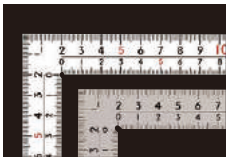
| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 11161 |   | | |
| 11160 |   | |   |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 11161 | 50 cm with 8 Scales (Red) | 520×20×2.0 (260) | 240 | 4 960910 111615 | 10 | V |
| 11160 | 30 cm with 8 Scales (Red) | 320×20×2.0 (160) | 145 | 4 960910 111608 | | |

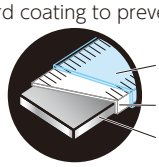


### Features

- Easy-to-read black scale on white background




- Hard coating to prevent peeling




- Heavy-duty
- Suitable for ironwork or engineering work
- Graduations marked on all 8 edges
- Strap hole on 11160

### Use

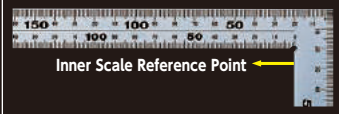
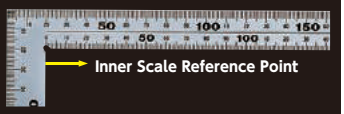
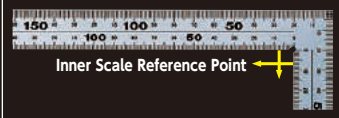
- For all types of inking, marking, and measuring right angles/length

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 11161 | 11160 |
|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 30 cm |
| | | Inside | 45 cm | 25 cm |
| | Short Branch | Outside | 25 cm | 15 cm |
| | | Inside | 20 cm | 10 cm |
| Scale on Back Side | Long Branch | Outside | 50 cm | 30 cm |
| | | Inside | 45 cm | 25 cm |
| | Short Branch | Outside | 25 cm | 15 cm |
| | | Inside | 20 cm | 10 cm |
| Shape of Corner | | | Flat | |
| Squareness | | | Less than 0.1 mm per 100 mm | |
| Length Tolerance | | | ±0.4 mm | |
| Material | | | Stainless steel | |

## Carpenter's Square Wide Polish Finish

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 11207 |   | |   |
| 11215 |   | | |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 11207 | 50 cm with 6 Scales JIS | 520×20×2.0 (260) | 240 | 4 960910 112070 | 10 | V |
| 11215 | 30 cm with 8 Scales JIS | 320×20×2.0 (160) | 144 | 4 960910 112155 | | |

### Features

- Heavy-duty
- Suitable for ironwork or engineering work
- Graduations marked on every edge (8-scale models)
- Strap hole on 11215

### Use

- For all types of inking, marking, and measuring right angles/length

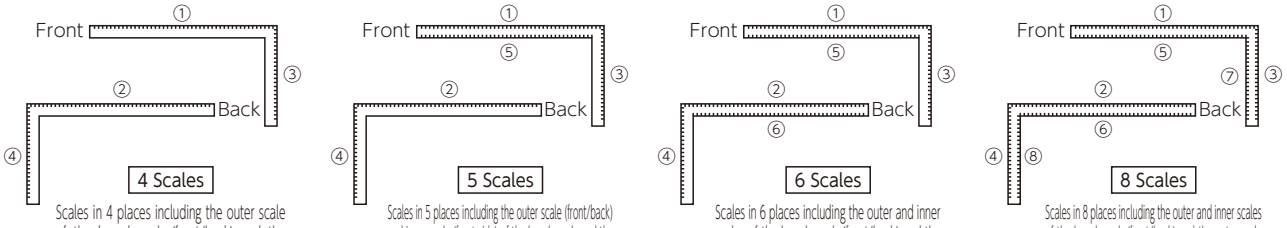
### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 11207 | 11215 |
|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 30 cm |
| | | Inside | 45 cm | 25 cm |
| | Short Branch | Outside | 25 cm | 15 cm |
| | | Inside | – | 10 cm |
| Scale on Back Side | Long Branch | Outside | 50 cm | 30 cm |
| | | Inside | 45 cm | 25 cm |
| | Short Branch | Outside | 25 cm | 15 cm |
| | | Inside | – | 10 cm |
| Shape of Corner | | | Flat | |
| Squareness | | | Less than 0.1 mm per 100 mm | |
| Length Tolerance | | | ±0.2 mm | |
| Material | | | Stainless steel | |

### ■Graduation rows on wide and large squares

- 4 types are available: 4-scale, 5-scale, 6-scale and 8-scale. Rows will differ due to the scale location on the long branch (long part) and the short branch (short part) of the carpenter's square.




**4 Scales**
Scales in 4 places including the outer scale of the long branch (front/back) and the outer scale of the short branch (front/back)

**5 Scales**
Scales in 5 places including the outer scale (front/back) and inner scale (front side) of the long branch, and the outer scale of the short branch (front/back)

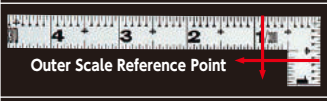
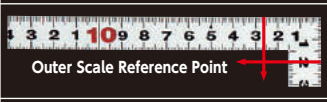
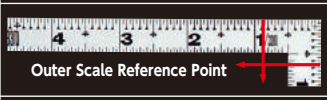
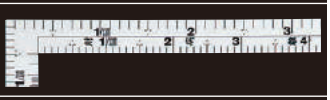
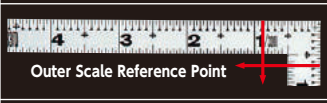
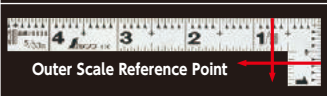
**6 Scales**
Scales in 6 places including the outer and inner scales of the long branch (front/back) and the outer scale of the short branch (front/back)

**8 Scales**
Scales in 8 places including the outer and inner scales of the long branch (front/back) and the outer scale and inner scales of the short branch (front/back)

- On squares with few scales the marks are larger for higher readability, while squares with many graduations for greater breadth of use.

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

# Carpenter's Square Flat Hard Chrome Finish

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10032<br>10297 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 10007 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 10592<br>10595<br>10620 |  Outer Scale Reference Point | | Outer Scale Reference Point |
| 10008 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 10016 |  Outer Scale Reference Point | | |
| 10590<br>10598 |  Outer Scale Reference Point | |  |
| 10044<br>10033<br>10047 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 10037 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 10045<br>10046<br>10048 |  Outer Scale Reference Point | | Outer Scale Reference Point |
| 10038 |  Outer Scale Reference Point | | Outer Scale Reference Point |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 10032 | 50 cm JIS Red 12 | 520×15×1.0 (260) | 87 | 4 960910 100329 | 10 | V |
| 10297 | 30 cm JIS Red 12 | 320×15×1.0 (160) | 55 | 4 960910 102972 | | |
| 10007 | 15 cm | 160×15×1.0 (80) | 26 | 4 960910 100077 | | |
| 10592 | 1 shaku 5 sun Red 12 | 485×15×1.0 (242.5) | 82 | 4 960910 105928 | | |
| 10595 | 1 shaku 6 sun Red 12 | 520×15×1.0 (260) | 87 | 4 960910 105959 | | |
| 10620 | 1 shaku Red 12 | 320×15×1.0 (160) | 55 | 4 960910 106208 | | |
| 10008 | 5 sun | 160×15×1.0 (80) | 26 | 4 960910 100084 | | |
| 10016 | 50 cm with Square Scale JIS Red 12 | 520×15×1.0 (260) | 87 | 4 960910 100169 | | |
| 10590 | 1 shaku 5 sun with Square Scale Red 12 | 485×15×1.0 (242.5) | 82 | 4 960910 105904 | | |
| 10598 | 1 shaku 6 sun with Square Scale Red 12 | 520×15×1.0 (260) | 87 | 4 960910 105980 | | |
| 10044 | 50 cm/1 shaku 5 sun cm/shaku Red 12 | 520×15×1.0 (260) | 87 | 4 960910 100442 | | |
| 10033 | 50 cm/1 shaku 6 sun cm/shaku Red 12 | 520×15×1.0 (260) | 87 | 4 960910 100336 | | |
| 10047 | 30 cm/1 shaku cm/shaku Red 12 | 320×15×1.0 (160) | 55 | 4 960910 100473 | | |
| 10037 | 15 cm/5 sun cm/shaku | 160×15×1.0 (80) | 26 | 4 960910 100374 | | |
| 10045 | 1 shaku 5 sun/50 cm shaku/cm Red 12 | 520×15×1.0 (260) | 87 | 4 960910 100459 | | |
| 10046 | 1 shaku 6 sun/50 cm shaku/cm Red 12 | 520×15×1.0 (260) | 87 | 4 960910 100466 | | |
| 10048 | 1 shaku/30 cm shaku/cm Red 12 | 320×15×1.0 (160) | 55 | 4 960910 100480 | | |
| 10038 | 5 sun/15 cm shaku/cm | 160×15×1.0 (80) | 26 | 4 960910 100381 | | |

Refer to P. 2 about the shaku scale

JIS JIS mark / Red With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / 12 Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Features

- Thin, flat surface makes it easy to use on smaller objects
- Includes inner graduations based on the outer scale reference point
- Hard chrome finish on entire surface (matte processed)

Matte finish

- Strong due to hardening process yet also has flexibility

## Use

- For all types of inking, marking, and measuring right angles/length

## Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | 10032 | 10297 | 10007 | 10592 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch Outside | 50 cm | 30 cm | 15 cm | 1 shaku 5 sun |
| | Long Branch Inside | 45 cm | 25 cm | 10 cm | 1 shaku |
| | Short Branch Outside | 25 cm | 15 cm | 7.5 cm | 7.5 sun |
| | Short Branch Inside | 20 cm | 10 cm | 7 cm | 7 sun |
| Scale on Back Side | Long Branch Outside | 50 cm | 30 cm | 15 cm | 1 shaku 5 sun |
| | Long Branch Inside | 40 cm | 25 cm | 10 cm | 1 shaku |
| | Short Branch Outside | 25 cm | 15 cm | 7.5 cm | 7.5 sun |
| | Short Branch Inside | 20 cm | 10 cm | 7 cm | 7 sun |
| Shape of Corner | | Flat | | | |
| Squareness | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | ±0.2 mm | | | |
| Material | | Stainless steel | | | |

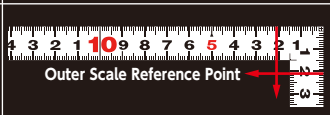
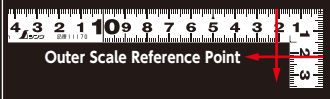
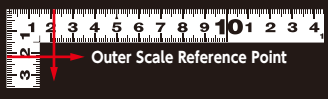
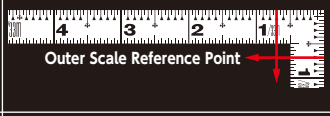
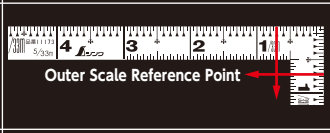
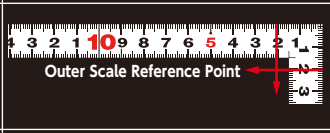
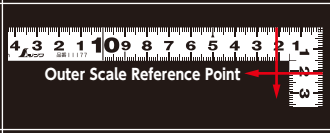
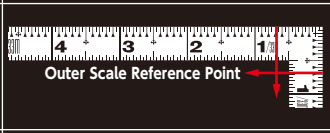
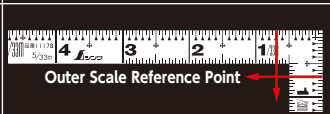
| | | 10595 | 10620 | 10008 | 10016 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch Outside | 1 shaku 6 sun | 1 shaku | 5 sun | 50 cm |
| | Long Branch Inside | 1 shaku | 7 sun | 3 sun | 45 cm |
| | Short Branch Outside | 8 sun | 5 sun | 2.5 sun | 25 cm |
| | Short Branch Inside | 7 sun | 3 sun | 2 sun | 20 cm |
| Scale on Back Side | Long Branch Outside | 1 shaku 6 sun | 1 shaku | 5 sun | SS |
| | Long Branch Inside | 1 shaku | 7 sun | 3 sun | CS MS |
| | Short Branch Outside | 8 sun | 5 sun | 2.5 sun | 25 cm |
| | Short Branch Inside | 7 sun | 3 sun | 2 sun | – |
| Shape of Corner | | Flat | | | |
| Squareness | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | ±0.2 mm | | | |
| Material | | Stainless steel | | | |

| | | 10590 | 10598 | 10044 | 10033 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch Outside | 1 shaku 5 sun | 1 shaku 6 sun | 50 cm | |
| | Long Branch Inside | 1 shaku | | 42 cm | |
| | Short Branch Outside | 7.5 sun | 8 sun | 25 cm | |
| | Short Branch Inside | 7 sun | | 20 cm | |
| Scale on Back Side | Long Branch Outside | SS | | 1 shaku 5 sun | 1 shaku 6 sun |
| | Long Branch Inside | MS | | 1 shaku | |
| | Short Branch Outside | 7.5 sun | 8 sun | 7.5 sun | 8 sun |
| | Short Branch Inside | CS | | 7 sun | |
| Shape of Corner | | Flat | | | |
| Squareness | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | ±0.2 mm | | | |
| Material | | Stainless steel | | | |

| | | 10047 | 10037 | 10045 |
|---|---|---|---|---|
| Scale on Front Side | Long Branch Outside | 30 cm | 15 cm | 1 shaku 5 sun |
| | Long Branch Inside | 25 cm | 10 cm | 1 shaku |
| | Short Branch Outside | 15 cm | 7.5 cm | 7.5 sun |
| | Short Branch Inside | 10 cm | 7 cm | 7 sun |
| Scale on Back Side | Long Branch Outside | 1 shaku | 5 sun | 50 cm |
| | Long Branch Inside | 7 sun | 3 sun | 42 cm |
| | Short Branch Outside | 5 sun | 2.5 sun | 25 cm |
| | Short Branch Inside | 3 sun | 2 sun | 20 cm |
| Shape of Corner | | Flat | | |
| Squareness | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | ±0.2 mm | | |
| Material | | Stainless steel | | |

| | | 10046 | 10048 | 10038 |
|---|---|---|---|---|
| Scale on Front Side | Long Branch Outside | 1 shaku 6 sun | 1 shaku | 5 sun |
| | Long Branch Inside | 1 shaku | 7 sun | 3 sun |
| | Short Branch Outside | 8 sun | 5 sun | 2.5 sun |
| | Short Branch Inside | 7 sun | 3 sun | 2 sun |
| Scale on Back Side | Long Branch Outside | 50 cm | 30 cm | 15 cm |
| | Long Branch Inside | 40 cm | 25 cm | 10 cm |
| | Short Branch Outside | 25 cm | 15 cm | 7.5 cm |
| | Short Branch Inside | 20 cm | 10 cm | 7 cm |
| Shape of Corner | | Flat | | |
| Squareness | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | ±0.2 mm | | |
| Material | | Stainless steel | | |

# Carpenter's Square Flat White

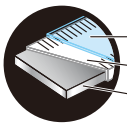
| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 11172<br>11171 |  Outer Scale Reference Point | | Outer Scale Reference Point |
| 11170 |  Outer Scale Reference Point | |  Outer Scale Reference Point |
| 11175<br>11176<br>11174 |  Outer Scale Reference Point | | Outer Scale Reference Point |
| 11173 |  Outer Scale Reference Point | | Outer Scale Reference Point |
| 11181<br>11183<br>11179 |  Outer Scale Reference Point | | Outer Scale Reference Point |
| 11177 |  Outer Scale Reference Point | | Outer Scale Reference Point |
| 11182<br>11184<br>11180 |  Outer Scale Reference Point | | Outer Scale Reference Point |
| 11178 |  Outer Scale Reference Point | | Outer Scale Reference Point |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 11172 | 50 cm (Red) | 520×15×1.0 (260) | 90 | 4 960910 111721 | 10 | V |
| 11171 | 30 cm (Red) | 320×15×1.0 (160) | 54 | 4 960910 111714 | | |
| 11170 | 15 cm | 160×15×1.0 (80) | 26 | 4 960910 111707 | | |
| 11175 | 1 shaku 5 sun (Red) | 485×15×1.0 (242.5) | 85 | 4 960910 111752 | | |
| 11176 | 1 shaku 6 sun (Red) | 520×15×1.0 (260) | 90 | 4 960910 111769 | | |
| 11174 | 1 shaku (Red) | 320×15×1.0 (160) | 54 | 4 960910 111745 | | |
| 11173 | 5 sun | 160×15×1.0 (80) | 26 | 4 960910 111738 | | |
| 11181 | 50 cm/1 shaku 5 sun cm/shaku (Red) | 520×15×1.0 (260) | 90 | 4 960910 111813 | | |
| 11183 | 50 cm/1 shaku 6 sun cm/shaku (Red) | 520×15×1.0 (260) | 90 | 4 960910 111837 | | |
| 11179 | 30 cm/1 shaku cm/shaku (Red) | 320×15×1.0 (160) | 54 | 4 960910 111790 | | |
| 11177 | 15 cm/5 sun cm/shaku | 160×15×1.0 (80) | 26 | 4 960910 111776 | | |
| 11182 | 1 shaku 5 sun/50 cm shaku/cm (Red) | 520×15×1.0 (260) | 90 | 4 960910 111820 | | |
| 11184 | 1 shaku 6 sun/50 cm shaku/cm (Red) | 520×15×1.0 (260) | 90 | 4 960910 111844 | | |
| 11180 | 1 shaku/30 cm shaku/cm (Red) | 320×15×1.0 (160) | 54 | 4 960910 111806 | | |
| 11178 | 5 sun/15 cm shaku/cm | 160×15×1.0 (80) | 26 | 4 960910 111783 | | |

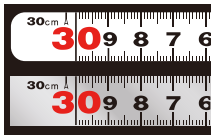
Refer to P. 2 about the shaku scale

## Features

- Easy-to-read black scale on white background
- Hard coating to prevent peeling




- Thin, flat surface makes it easy to use on smaller objects
- With inner graduations based on the outer scale reference point
- Rounded corners to protect clothing and pockets from damage




- Has flexibility due to heat treatment

## Use

- For all types of inking, marking, and measuring right angles/length

## Specifications

—: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 11172 | 11171 | 11170 | 11175 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 30 cm | 15 cm | 1 shaku 5 sun |
| | | Inside | 45 cm | 30 cm | 10 cm | 1 shaku 3 sun |
| | Short Branch | Outside | 25 cm | 15 cm | 7.5 cm | 7.5 sun |
| | | Inside | 20 cm | 10 cm | 7 cm | 7 sun |
| Scale on Back Side | Long Branch | Outside | 50 cm | 30 cm | 15 cm | 1 shaku 5 sun |
| | | Inside | 45 cm | 30 cm | 10 cm | 1 shaku 3 sun |
| | Short Branch | Outside | 25 cm | 15 cm | 7.5 cm | 7.5 sun |
| | | Inside | 20 cm | 10 cm | 7 cm | 7 sun |
| Shape of Corner | | | Flat | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.4 mm | ±0.3 mm | | ±0.4 mm |
| Material | | | Stainless steel | | | |

| | | | 11176 | 11174 | 11173 | 11181 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 1 shaku 6 sun | 1 shaku | 5 sun | 50 cm |
| | | Inside | 1 shaku 3 sun | 7 sun | 3 sun | 45 cm |
| | Short Branch | Outside | 8 sun | 5 sun | 2.5 sun | 25 cm |
| | | Inside | 7 sun | 4 sun | 2 sun | 20 cm |
| Scale on Back Side | Long Branch | Outside | 1 shaku 6 sun | 1 shaku | 5 sun | 1 shaku 5 sun |
| | | Inside | 1 shaku 3 sun | 7 sun | 3 sun | 1 shaku 3 sun |
| | Short Branch | Outside | 8 sun | 5 sun | 2.5 sun | 7.5 sun |
| | | Inside | 7 sun | 4 sun | 2 sun | 7 sun |
| Shape of Corner | | | Flat | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.4 mm | ±0.3 mm | | ±0.4 mm |
| Material | | | Stainless steel | | | |

| | | | 11183 | 11179 | 11177 | 11182 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 30 cm | 15 cm | 1 shaku 5 sun |
| | | Inside | 45 cm | 30 cm | 10 cm | 1 shaku 3 sun |
| | Short Branch | Outside | 25 cm | 15 cm | 7.5 cm | 7.5 sun |
| | | Inside | 20 cm | 10 cm | 7 cm | 7 sun |
| Scale on Back Side | Long Branch | Outside | 1 shaku 6 sun | 1 shaku | 5 sun | 50 cm |
| | | Inside | 1 shaku 3 sun | 7 sun | 3 sun | 45 cm |
| | Short Branch | Outside | 8 sun | 5 sun | 2.5 sun | 25 cm |
| | | Inside | 7 sun | 4 sun | 2 sun | 20 cm |
| Shape of Corner | | | Flat | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.4 mm | ±0.3 mm | | ±0.4 mm |
| Material | | | Stainless steel | | | |

| | | | 11184 | 11180 | 11178 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 1 shaku 6 sun | 1 shaku | 5 sun |
| | | Inside | 1 shaku 3 sun | 7 sun | 3 sun |
| | Short Branch | Outside | 8 sun | 5 sun | 2.5 sun |
| | | Inside | 7 sun | 4 sun | 2 sun |
| Scale on Back Side | Long Branch | Outside | 50 cm | 30 cm | 15 cm |
| | | Inside | 45 cm | 30 cm | 10 cm |
| | Short Branch | Outside | 25 cm | 15 cm | 7.5 cm |
| | | Inside | 20 cm | 10 cm | 7 cm |
| Shape of Corner | | | Flat | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | | ±0.4 mm | ±0.3 mm | |
| Material | | | Stainless steel | | |

Carpenter's Squares
Stainless Steel Rules/ Machine Scale
Aluminum Rules
Resin Folding Rules/ Bamboo Rules
Squares/ Protractors
Vernier Calipers/ Micrometers
Tape Measures
Surveying Products
Scales
Levels
Lasers/ Optical Equipment
Inklines/ Chalklines/ Plumbholders
Circular Saw Guides
Construction Tools
Industrial Tools
Thermometers/ Hygrometers/ Environment Measuring Instruments
Outdoor Products
Magnifying Glasses
Drawing Tools
Magnets

## Carpenter's Square Wide and Flexible Hard Chrome Finish

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10034 | End Face Reference Point | | End Face Reference Point |
| 10600 | End Face Reference Point | | End Face Reference Point |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 10034 | 50 cm JIS Red | 520×20×1.0 (260) | 115 | 4 960910 100343 | 10 | V |
| 10600 | 1 shaku 6 sun Red | 515×20×1.0 (258) | 113 | 4 960910 106000 | | |

Refer to P. 2 about the shaku scale

### Features

- 1 mm-thickness, wide type
- Graduations starting from end face reference point lets you measure from both directions and even depth
- Thin, flat surface fits in tight places and makes it easy to mark
- Hard chrome finish on entire surface (matte processed)
- Strong due to hardening process yet also has flexibility

### Use

- For all types of inking, marking, and measuring right angles/length

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | 10034 | 10600 |
|---|---|---|---|
| Scale on Front Side: Long Branch | Outside | 50 cm | 1 shaku 6 sun |
| | Inside | 49 cm | 1 shaku 6 sun |
| Scale on Front Side: Short Branch | Outside | 25 cm | 8 sun |
| | Inside | 23 cm | 7.5 sun |
| Scale on Back Side: Long Branch | Outside | 50 cm | 1 shaku 6 sun |
| | Inside | 49 cm | 1 shaku 6 sun |
| Scale on Back Side: Short Branch | Outside | 25 cm | 8 sun |
| | Inside | 23 cm | 7.5 sun |
| Shape of Corner | | Flat | |
| Squareness | | Less than 0.1 mm per 100 mm | |
| Length Tolerance | | ±0.2 mm | |
| Material | | Stainless steel | |

## Carpenter's Square for Two-by-Four Hard Chrome Finish

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10055 | | | |
| 10056 | | | |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 10055 | 50 cm Red 12 | 520×19×1.0 (260) | 115 | 4 960910 100558 | 10 | V |
| 10056 | 1 shaku 5 sun Red 12 | 520×19×1.0 (260) | 115 | 4 960910 100565 | | |

Refer to P. 2 about the shaku scale

### Features

- 19 mm width is suitable for two-by-four applications
- Incline graduation helps to find incline easily
  A regular graduation is on the back (10055: 50 cm,10056: 1 shaku 5 sun)
- Large and clear graduation letters
- Hard chrome finish on entire surface (matte processed)
- Strong due to hardening process yet also has flexibility

### Use

- For all types of inking and measuring in two-by-four building

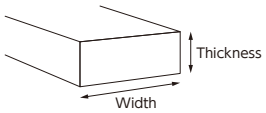
### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | 10055 | 10056 |
|---|---|---|---|
| Scale on Front Side: Long Branch | Outside | 2×4 | |
| | Inside | – | |
| Scale on Front Side: Short Branch | Outside | 25 cm incline | |
| | Inside | – | |
| Scale on Back Side: Long Branch | Outside | 50 cm | 1 shaku 5 sun |
| | Inside | MS | |
| Scale on Back Side: Short Branch | Outside | 25 cm | 7.5 sun |
| | Inside | – | |
| Shape of Corner | | Flat | |
| Squareness | | Less than 0.1 mm per 100 mm | |
| Length Tolerance | | ±0.2 mm | |
| Material | | Stainless steel | |

## About 2x4 Graductions

2x4 graduations refer to the numbers often used when using 2x lumber, and the graduations can be used to quickly measure lumber of this size.

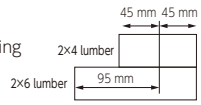



### 2× Lumber Dimensions (mm)

| | 2 × 4 | 2 × 6 | 2 × 8 | 2 × 10 | 2 × 12 |
|---|---|---|---|---|---|
| Width | 90 | 140 | 184 | 235 | 286 |
| Width to Center | 45 | 70 | 92 | 117.5 | 143 |
| Thickness | 38 | | | | |
| Thickness to Center | 19 | | | | |

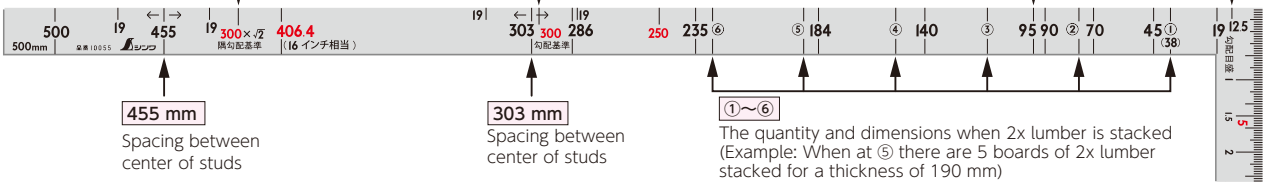
**300×√2**
Reference when producing a corner gradient

**300 mm**
Reference when producing a gradient




**95 mm**
When 2×6 lumber and 2×4 lumber are stacked, this is the width to the center in the 2×4 lumber as seen from the 2×6 lumber.

**12.5 mm**
Thickness of the plaster board and plywood




**455 mm**
Spacing between center of studs

**303 mm**
Spacing between center of studs

**①~⑥**
The quantity and dimensions when 2x lumber is stacked (Example: When at ⑤ there are 5 boards of 2x lumber stacked for a thickness of 190 mm)

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Carpenter's Square Hard Chrome Finish with Magnet

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10175 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 10181 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 10445 | Inner Scale Reference Point | | Inner Scale Reference Point |
| 10425 | Inner Scale Reference Point | | Inner Scale Reference Point |
| 10435 | Inner Scale Reference Point | | Inner Scale Reference Point |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 10175 | Flat Corner 50 cm JIS Red 12 | 520×15×1.4 (260) | 98 | 4 960910 101753 | 10 | V |
| 10181 | Flat Corner 1 shaku 6 sun Red 12 | 520×15×1.4 (260) | 98 | 4 960910 101814 | | |
| 10445 | Wide 50 cm with 6 Scales JIS Red | 520×20×2.0 (260) | 238 | 4 960910 104457 | | |
| 10425 | Wide 30 cm with 8 Scales JIS Red | 320×20×2.0 (160) | 144 | 4 960910 104259 | | |
| 10435 | Wide 15 cm with 8 Scales cm Notation | 170×20×2.0 (85) | 72.5 | 4 960910 104358 | | |

Refer to P. 2 about the shaku scale

### Features

- Magnets prevent loss by sticking to the scaffolding
- Strap hole on 10425 and 10435
- Hard chrome finish on entire surface (matte processed)
- Strong due to hardening process yet also has flexibility (10175/10181)

Matte finish

### Use

- For all types of inking, marking, and measuring right angles/length

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 10175 | 10181 |
|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 1 shaku 6 sun |
| | | Inside | 45 cm | 1 shaku |
| | Short Branch | Outside | 25 cm | 8 sun |
| | | Inside | 20 cm | 7 sun |
| Scale on Back Side | Long Branch | Outside | 50 cm | 1 shaku 6 sun |
| | | Inside | 40 cm MS | 1 shaku MS |
| | Short Branch | Outside | 25 cm | 8 sun |
| | | Inside | 20 cm | 7 sun |
| Shape of Corner | | | Flat | |
| Squareness | | | Less than 0.1 mm per 100 mm | |
| Length Tolerance | | | ±0.2 mm | |
| Material | | | Stainless steel | |

| | | | 10445 | 10425 | 10435 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 50 cm | 30 cm | 15 cm |
| | | Inside | 45 cm | 25 cm | 10 cm |
| | Short Branch | Outside | 25 cm | 15 cm | 7.5 cm |
| | | Inside | – | 10 cm | 5 cm |
| Scale on Back Side | Long Branch | Outside | 50 cm | 30 cm | 15 cm |
| | | Inside | 45 cm | 25 cm | 10 cm |
| | Short Branch | Outside | 25 cm | 15 cm | 7.5 cm |
| | | Inside | – | 10 cm | 5 cm |
| Shape of Corner | | | Flat | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | | ±0.2 mm | | |
| Material | | | Stainless steel | | |

## Carpenter's Square Rigid Hard Chrome Finish

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 10634 | | Long Branch / Short Branch | |
| 10545 | | Long Branch / Short Branch | |
| 10510 | | Long Branch / Short Branch | |
| 10529 | | Long Branch / Short Branch | |
| 10511 | | Long Branch / Short Branch | |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 10634 | 30 cm JIS Red 12 | 320×15×2.6 (160) | 116 | 4 960910 106345 | 10 | V |
| 10545 | 1 shaku Red 12 | 320×15×2.6 (160) | 116 | 4 960910 105454 | | |
| 10510 | 30 cm with Square Scale JIS Red 12 | 320×15×2.6 (160) | 116 | 4 960910 105102 | | |
| 10529 | 1 shaku with Square Scale Red 12 | 320×15×2.6 (160) | 116 | 4 960910 105294 | | |
| 10511 | 30 cm/1 shaku cm/shaku Red 12 | 320×15×2.6 (160) | 116 | 4 960910 105119 | | |

Refer to P. 2 about the shaku scale

### Features

- Thick and tough
- Small, handy mobile size
- Useful for finding right angles
- Hard chrome finish (matte processed) on graduation to prevent glare and make it easy to see
- Strong due to hardening process yet also has flexibility

Matte finish

### Use

- For all types of inking, marking, and measuring right angles/length
- For production of fittings

### Specifications

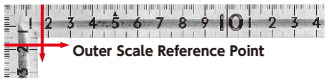
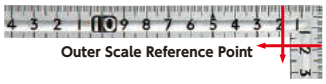
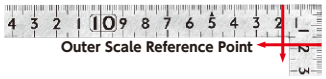
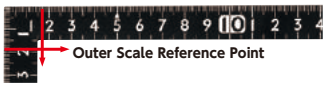
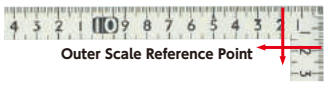
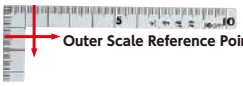
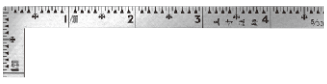
–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 10634 | 10545 |
|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 30 cm | 1 shaku |
| | | Inside | – | |
| | Short Branch | Outside | 15 cm | 5 sun |
| | | Inside | – | |
| Scale on Back Side | Long Branch | Outside | 30 cm | 1 shaku |
| | | Inside | – | |
| | Short Branch | Outside | 15 cm | 5 sun |
| | | Inside | – | |
| Shape of Corner | | | Flat | |
| Squareness | | | Less than 0.1 mm per 100 mm | |
| Length Tolerance | | | ±0.2 mm | |
| Material | | | Stainless steel | |

| | | | 10510 | 10529 | 10511 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 30 cm | 1 shaku | 30 cm |
| | | Inside | – | | |
| | Short Branch | Outside | 15 cm | 5 sun | 15 cm |
| | | Inside | – | | |
| Scale on Back Side | Long Branch | Outside | SS | | 1 shaku |
| | | Inside | CS | – | |
| | Short Branch | Outside | 15 cm | 5 sun | |
| | | Inside | – | | |
| Shape of Corner | | | Flat | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | | ±0.2 mm | | |
| Material | | | Stainless steel | | |

JIS JIS mark, Red With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, 12 Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

## Small Square

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 12130 | Outer Scale Reference Point | |  Outer Scale Reference Point |
| 12017 |  Outer Scale Reference Point | | |
| 12325 |  Outer Scale Reference Point | | Outer Scale Reference Point |
| 12114 | Outer Scale Reference Point | | |
| 12435 | Outer Scale Reference Point | |  Outer Scale Reference Point |
| 12416 | Outer Scale Reference Point | | |
| 12476 |  Outer Scale Reference Point | | |
| 12101 | | |  Outer Scale Reference Point |
| 12102 | | | |
| 12103 | Outer Scale Reference Point | | Outer Scale Reference Point |
| 12104 | | |  |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 12130 | Grooved Polish Finish 30 x 15 cm | 330×15×1.1 (165) | 57 | 4 960910 121300 | 10 | V |
| 12017 | Grooved Polish Finish 30 x 15 cm with Square Scale | 330×15×1.1 (165) | 57 | 4 960910 120174 | | |
| 12325 | Flat Polish Finish 30 x 15 cm | 330×15×1.1 (163) | 60 | 4 960910 123250 | | |
| 12114 | Flat Polish Finish 30 x 15 cm with Square Scale | 330×15×1.1 (163) | 60 | 4 960910 121140 | | |
| 12435 | Black 30 x 15 cm | 330×15×1.3 (163) | 67 | 4 960910 124356 | | |
| 12416 | Black 30 x 15 cm with Square Scale | 330×15×1.3 (163) | 67 | 4 960910 124165 | | |
| 12476 | White 30 x 15 cm with Square Scale | 330×15×1.3 (163) | 67 | 4 960910 124769 | | |
| 12101 | Polish Finish 10 x 5 cm | 105×10×1.2 (55) | 14 | 4 960910 121010 | 10 (100) | B |
| 12102 | Polish Finish 3 x 1.5 sun | 105×10×1.2 (55) | 14 | 4 960910 121027 | | |
| 12103 | Polish Finish 15 x 7.5 cm | 160×10×1.2 (80) | 20 | 4 960910 121034 | 10 (60) | |
| 12104 | Polish Finish 5 x 2.5 sun | 160×10×1.2 (80) | 20 | 4 960910 121041 | | |

Refer to P. 2 about the shaku scale

JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

### Features

【12130, 12017, 12325, 12114】
- Small, handy mobile size
- Stainless steel construction makes it strong and rust-resistant
- Etching + black chrome coating on graduations help them last long

Polish finish grooved

Polish finish

【12435, 12416, 12476】
- Small, handy mobile size
- Flat shape makes it easy to use on smaller objects
- White scale on black background, or black scale on white background makes scale and numbers easy to see

Black coating

White coating

【12101, 12102, 12103, 12104】
- Small, handy mobile size
- Stainless steel construction makes it strong and rust-resistant
- Convenient for simple marking and also as a rule

Polish finish
12101, 12102

Polish finish
12103, 12104

### Use

- For all types of inking, marking, and measuring right angles/length

### Specifications

–: No scale SS: Square scale CS: Circle scale
MS: Mortise scale

| | | | 12130 | 12017 | 12325 | 12114 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 30 cm | | | |
| | | Inside | 5 mm pitch 30 cm | | | |
| | Short Branch | Outside | 15 cm | | | |
| | | Inside | 5 mm pitch 15 cm | | | |
| Scale on Back Side | Long Branch | Outside | 30 cm | | | |
| | | Inside | 5 mm pitch 30 cm | SS | 5 mm pitch 30 cm | SS |
| | Short Branch | Outside | 15 cm | | | |
| | | Inside | 5 mm pitch 15 cm | CS | 5 mm pitch 15 cm | CS |
| Shape of Corner | | | Flat | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.2 mm | | | |
| Material | | | Stainless steel | | | |

| | | | 12435 | 12416 | 12476 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 30 cm | | |
| | | Inside | 5 mm pitch 30 cm | | |
| | Short Branch | Outside | 15 cm | | |
| | | Inside | 5 mm pitch 15 cm | | |
| Scale on Back Side | Long Branch | Outside | 30 cm | | |
| | | Inside | 5 mm pitch 30 cm | SS | |
| | Short Branch | Outside | 15 cm | | |
| | | Inside | 5 mm pitch 15 cm | CS | |
| Shape of Corner | | | Flat | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | | ±0.3 mm | | |
| Material | | | Iron | | |

| | | | 12101 | 12102 | 12103 | 12104 |
|---|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 10 cm | 3 sun | 15 cm | 5 sun |
| | | Inside | – | | 1 cm pitch 15 cm | – |
| | Short Branch | Outside | 5 cm | 1.5 sun | 7.5 cm | 2.5 sun |
| | | Inside | – | | 1 cm pitch 7 cm | – |
| Scale on Back Side | Long Branch | Outside | 10 cm | 3 sun | 15 cm | 5 sun |
| | | Inside | 1 cm pitch 10 cm | – | 1 cm pitch 15 cm | – |
| | Short Branch | Outside | 5 cm | 1.5 sun | 7.5 cm | 2.5 sun |
| | | Inside | 1 cm pitch 5 cm | – | 1 cm pitch 7 cm | – |
| Shape of Corner | | | Flat | | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | | |
| Length Tolerance | | | ±0.2 mm | | | |
| Material | | | Stainless steel | | | |

## Holder NEW

12427

Fastens with a click
Doesn't come off easily

Easily attaches and
detaches while working

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 12427 | Carpenter's Square Holder with Magnet | 140×43×19 | 30 | 4 960910 124271 | 6 | C |

### Features

- Easily attach and detach the square while working without shifting hands
- Uses a strong neodymium magnet so that the square fastens with a click and will not come off easily even crouching
- Features a belt holder that can be attached while wearing the belt
- With a hook hole for a safety cord. Square can be fitted into a holder with the safety cord attached (only for a square with a hole).
- Plate position can be changed according to square width

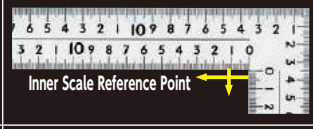
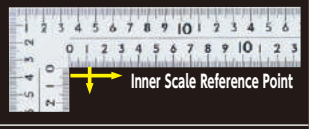
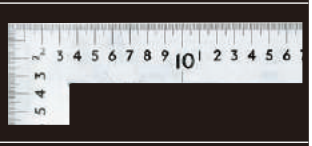
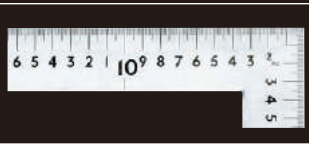
### Use

- For carrying a square

### Specifications

| | |
|---|---|
| Attachable Belt Size | Width: Less than 50 mm<br>Thickness: Less than 2.5 - 5 mm |
| Supported Square Size | Width: 10 mm, 15 mm, 20 mm<br>Thickness: Less than 2 mm |
| Material | Body: ABS resin<br>Magnet: Neodymium |

## Large Square

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 63099 | | | |
| 63400 | | | |
| 63122 |  Inner Scale Reference Point | |  Inner Scale Reference Point |
| 63118 | | |  |
| 63128 | | | |
| 63094 |  | | |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 63099 | Rigid Polish Finish 1 m x 60 cm | 1,040×30×4.0 (630) | 1,516 | 4 960910 630994 | 5 | V |
| 63400 | Hard Chrome Finish 1 m x 60 cm Red | 1,040×35×2.5 (630) | 1,102 | 4 960910 634008 | | |
| 63122 | Polish Finish 1 m x 60 cm with 8 Scales | 1,040×35×2.5 (630) | 1,102 | 4 960910 631229 | | |
| 63118 | Polish Finish 1 m x 60 cm | 1,040×35×2.5 (630) | 1,102 | 4 960910 631182 | | |
| 63128 | Polish Finish 3 shaku 3 sun x 2 shaku | 1,040×35×2.5 (630) | 1,102 | 4 960910 631281 | | |
| 63094 | Polish Finish 1 m/3 shaku 3 sun cm/shaku | 1,040×35×2.5 (630) | 1,102 | 4 960910 630949 | | |

Refer to P. 2 about the shaku scale

### Features

- Useful to measure and mark large objects such as building stone, lumber, and metal plates
- 63400 Hard chrome finish on entire surface (matte processed)

### Use

- For all types of inking, marking, and measuring right angles/length

### Specifications

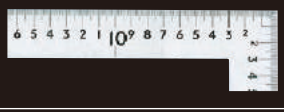
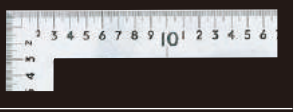
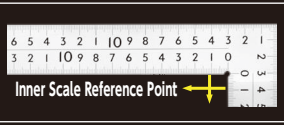
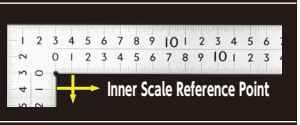
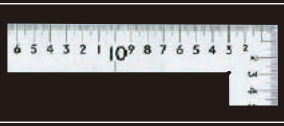
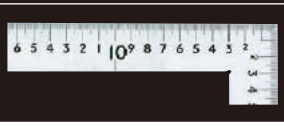
–: No scale SS: Square scale CS: Circle scale
MS: Mortise scale

| | | | 63099 | 63400 | 63122 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 1 m | | |
| | | Inside | – | | 1 m |
| | Short Branch | Outside | 60 cm | | |
| | | Inside | – | | 57 cm |
| Scale on Back Side | Long Branch | Outside | 1 m | | |
| | | Inside | – | | 1 m |
| | Short Branch | Outside | 60 cm | | |
| | | Inside | – | | 57 cm |
| Shape of Corner | | | Flat | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | | ±0.5 mm | | |
| Material | | | Stainless steel | | |

| | | | 63118 | 63128 | 63094 |
|---|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 1 m | 3 shaku 3 sun | 1 m |
| | | Inside | – | | |
| | Short Branch | Outside | 60 cm | 2 shaku | 60 cm |
| | | Inside | – | | |
| Scale on Back Side | Long Branch | Outside | 1 m | 3 shaku 3 sun | |
| | | Inside | – | | |
| | Short Branch | Outside | 60 cm | 2 shaku | |
| | | Inside | – | | |
| Shape of Corner | | | Flat | | |
| Squareness | | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | | ±0.5 mm | | |
| Material | | | Stainless steel | | |

JIS JIS mark, Red With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, T With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

## Large Square

| Item Code | Front | Corner/Cross Section | Back |
|---|---|---|---|
| 63053 |  | |  |
| 63402 | | | |
| 63413 |   | |   |
| 63410 |  | | |
| 63411 | | | |
| 63412 |  | | |

| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 63053 | Rigid Polish Finish 60 x 30 cm | 630×25×3.0 (330) | 543 | 4 960910 630536 | 5 | V |
| 63402 | Hard Chrome Finish 60 x 30 cm Red | 630×30×2.0 (330) | 432 | 4 960910 634022 | | |
| 63413 | Polish Finish 60 x 30 cm with 8 Scales NEW | 630×30×2.0 (330) | 430 | 4 960910 634138 | | |
| 63410 | Polish Finish 60 x 30 cm | 630×30×2.0 (330) | 430 | 4 960910 634107 | | |
| 63411 | Polish Finish 2 x 1 shaku | 638×30×2.0 (335) | 440 | 4 960910 634114 | | |
| 63412 | Polish Finish 60 cm/2 shaku cm/shaku | 638×30×2.0 (335) | 440 | 4 960910 634121 | | |

Refer to P. 2 about the shaku scale

### Features

- Useful to measure and mark large objects such as building stone, lumber, and metal plates
- 63402 Hard chrome finish on entire surface (matte processed)
- 63413 has graduations on all 8 sides

Matte finish

### Use

- For all types of inking, marking, and measuring right angles/length

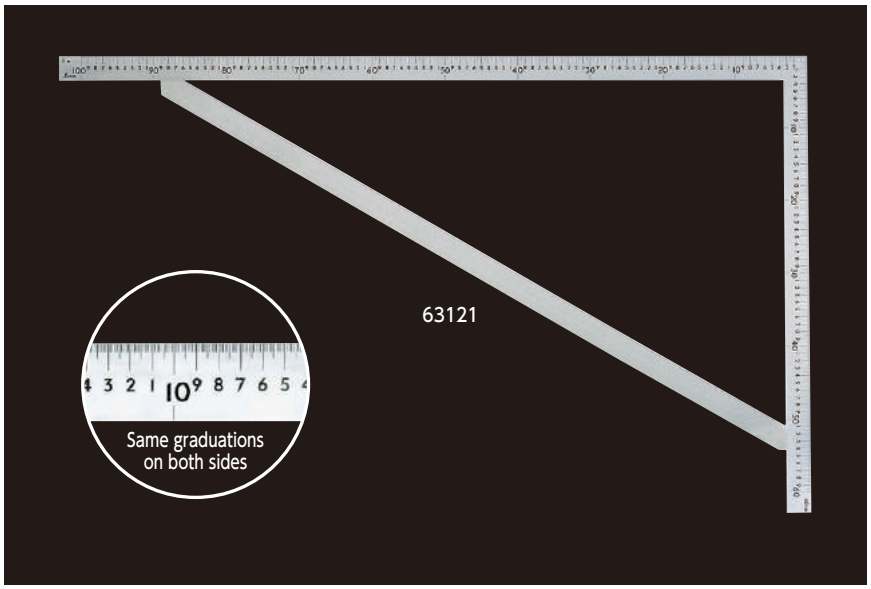
### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | 63053 | 63402 | 63413 |
|---|---|---|---|---|
| Scale on Front Side: Long Branch | Outside | 60 cm | | |
| | Inside | – | | 55 cm |
| Scale on Front Side: Short Branch | Outside | 30 cm | | |
| | Inside | – | | 25 cm |
| Scale on Back Side: Long Branch | Outside | 60 cm | | |
| | Inside | – | | 55 cm |
| Scale on Back Side: Short Branch | Outside | 30 cm | | |
| | Inside | – | | 25 cm |
| Shape of Corner | | Flat | | |
| Squareness | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | ±0.5 mm | | |
| Material | | Stainless steel | | |

| | | 63410 | 63411 | 63412 |
|---|---|---|---|---|
| Scale on Front Side: Long Branch | Outside | 60 cm | 2 shaku | 60 cm |
| | Inside | – | | |
| Scale on Front Side: Short Branch | Outside | 30 cm | 1 shaku | 30 cm |
| | Inside | – | | |
| Scale on Back Side: Long Branch | Outside | 60 cm | 2 shaku | |
| | Inside | – | | |
| Scale on Back Side: Short Branch | Outside | 30 cm | 1 shaku | |
| | Inside | – | | |
| Shape of Corner | | Flat | | |
| Squareness | | Less than 0.1 mm per 100 mm | | |
| Length Tolerance | | ±0.5 mm | | |
| Material | | Stainless steel | | |

## Large Square with Brace




| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 63121 | Polish Finish 1 m x 60 cm | 1,040×35×2.5 (630) | 1,710 | 4 960910 631212 | 1 | V |

### Features

- Useful to measure and mark large objects such as building stone, lumber, and metal plates

- With brace to protect vertical accuracy from shock when dropped or bumped

### Use

- For all types of inking, marking, and measuring right angles/length

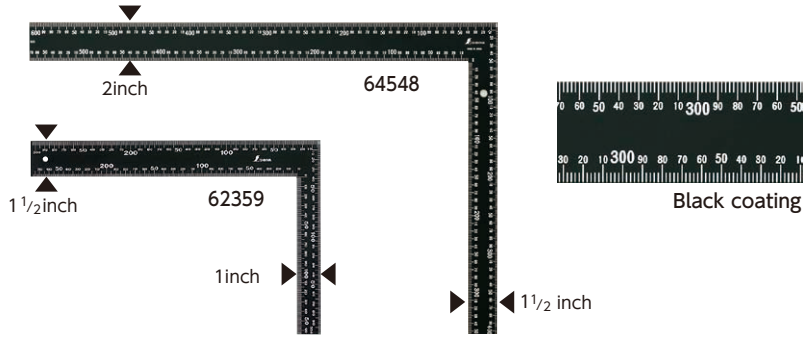
### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | |
|---|---|---|
| Scale on Front Side: Long Branch | Outside | 1 m |
| | Inside | – |
| Scale on Front Side: Short Branch | Outside | 60 cm |
| | Inside | – |
| Scale on Back Side: Long Branch | Outside | 1 m |
| | Inside | – |
| Scale on Back Side: Short Branch | Outside | 60 cm |
| | Inside | – |
| Shape of Corner | | Flat |
| Squareness | | Less than 0.1 mm per 100 mm |
| Length Tolerance | | ±0.5 mm |
| Material | | Stainless steel |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Rafter/Flat Square




| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 64548 | Rafter Square 60 x 40 cm | 610×51×2.3 (407) | 806 | 4 960910 645486 | 5 | B |
| 62359 | Flat Square 30 x 20 cm | 305×38×1.2 (204) | 150 | 4 960910 623590 | 10 | V |

### Features

- Comes in handy for two-by-four building as width measure is in inches
- White scale on black background makes graduations and numbers easy to see

### Use

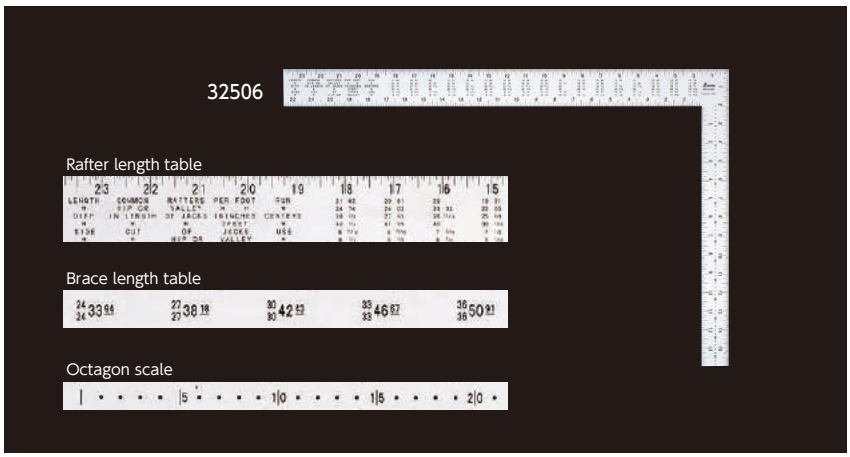
- For all types of marking and measuring length in two-by-four building

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | 64548 | 62359 |
|---|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 60 cm | 30 cm |
| | | Inside | 57 cm | 27 cm |
| | Short Branch | Outside | 40 cm | 20 cm |
| | | Inside | 35 cm | 16 cm |
| Scale on Back Side | Long Branch | Outside | 60 cm | 30 cm |
| | | Inside | 57 cm | 27 cm |
| | Short Branch | Outside | 40 cm | 20 cm |
| | | Inside | 35 cm | 16 cm |
| Shape of Corner | | | Flat | |
| Squareness | | | Less than 0.1 mm per 100 mm | |
| Length Tolerance | | | ±0.5 mm | ±0.2 mm |
| Material | | | Iron | |

## Stainless Steel Rafter Square Polish Finish




| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 32506 | S-1401 24" x 16" | 24×2×0.1 (16) | 740 | 4 960910 325067 | 1 | B |

*Made-to-order

### Features

- With rafter length table
- With brace length table
- With octagon scale

### Use

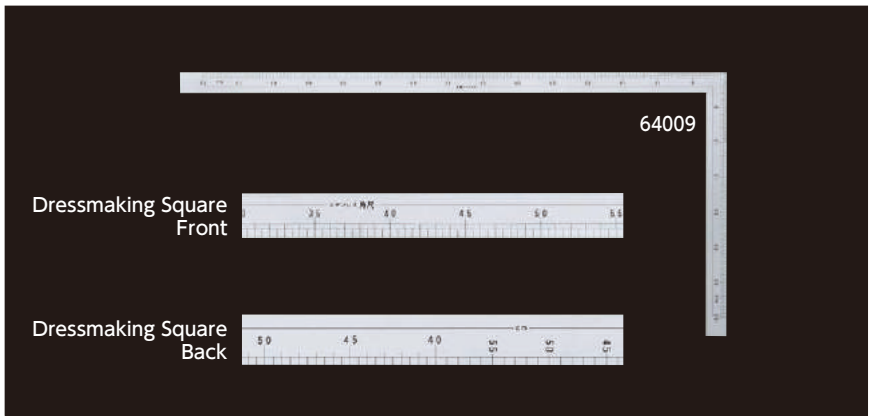
- Convenient for roof construction

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | |
|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 24" |
| | | Inside | 22.5" |
| | Short Branch | Outside | 16" |
| | | Inside | 14" |
| Scale on Back Side | Long Branch | Outside | 24" |
| | | Inside | 22.5" |
| | Short Branch | Outside | 16" |
| | | Inside | 14" |
| Shape of Corner | | | Flat |
| Squareness | | | Less than 0.1 mm per 100 mm |
| Length Tolerance | | | ±0.5 mm |
| Material | | | Stainless steel |

## Dressmaking Square




| Item Code | Description | Long Branch×Width×Thickness (Short Branch) (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 64009 | Hard Chrome Finish 75 x 35 cm | 785×30×1.5 (380) | 396 | 4 960910 640092 | 5 | B |

### Features

- Convenient for taking measurements of fabric for dressmaking

### Use

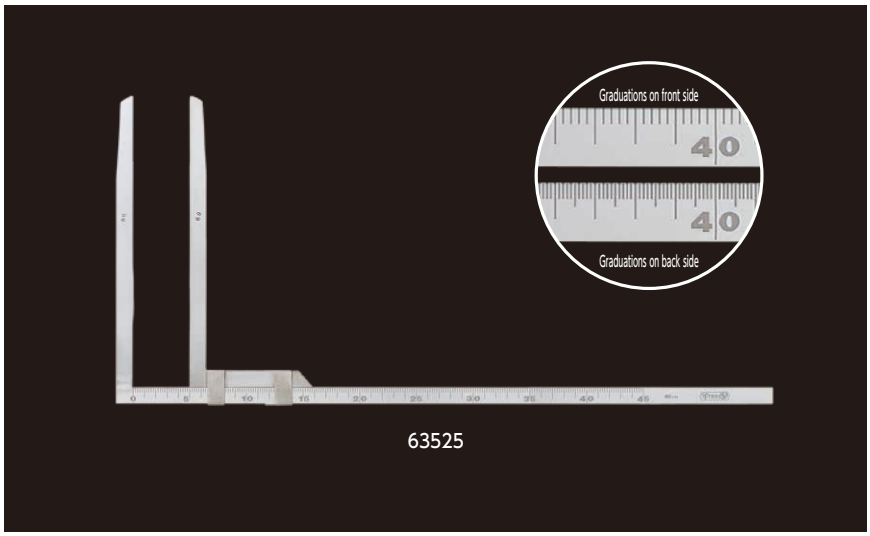
- For dressmaking

### Specifications

–: No scale SS: Square scale CS: Circle scale MS: Mortise scale

| | | | |
|---|---|---|---|
| Scale on Front Side | Long Branch | Outside | 75 cm |
| | | Inside | – |
| | Short Branch | Outside | 35 cm |
| | | Inside | – |
| Scale on Back Side | Long Branch | Outside | Dress making |
| | | Inside | – |
| | Short Branch | Outside | Dress making |
| | | Inside | – |
| Shape of Corner | | | Flat |
| Squareness | | | Less than 0.1 mm per 100 mm |
| Length Tolerance | | | ±0.5 mm |
| Material | | | Stainless steel |

## Large Caliper




| Item Code | Description | Caliper Length (mm) | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 63509 | 30 cm | 160 | 420×15×3.0 | 278 | 4 960910 635098 | 1 | V |
| 63517 | 35 cm | 200 | 480×15×3.0 | 326 | 4 960910 635173 | | |
| 63525 | 45 cm | 260 | 590×15×3.0 | 416 | 4 960910 635258 | | |
| 63541 | 60 cm | 330 | 770×17×3.0 | 597 | 4 960910 635418 | | |
| 63568 | 75 cm | 430 | 960×18.5×4.0 | 1,127 | 4 960910 635685 | | |
| 63592 | 1 m | 580 | 1,200×20×4.0 | 1,575 | 4 960910 635920 | | |

### Features

- Can easily measure diameter of trees and timber

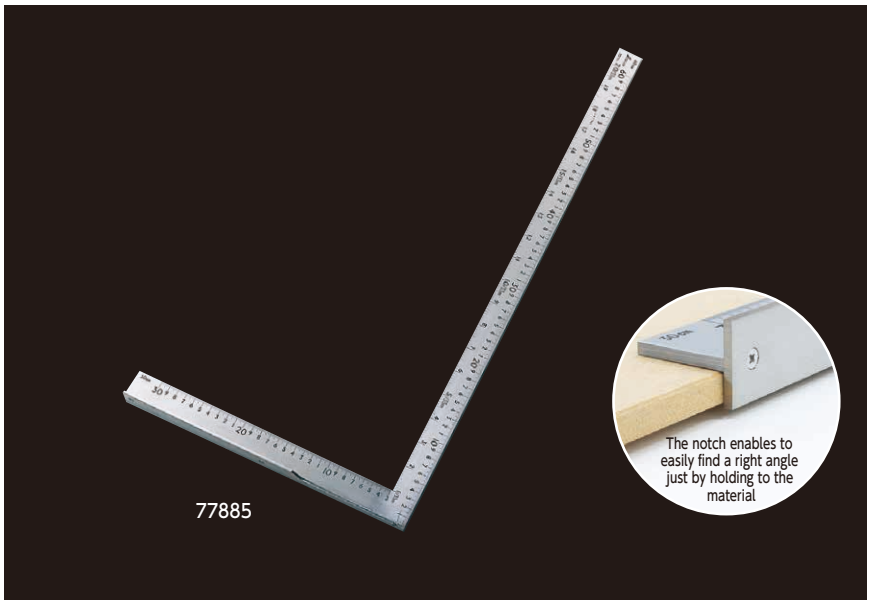
### Use

- To measure the diameter of timber
- To assort rounded objects by size like fruits

### Specifications

| | |
|---|---|
| Graduation Pitch | Front: 2 mm pitch Back: 1 mm pitch |
| Material | Stainless steel |

## Carpenter's Square with Fence




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77885 | 60 cm/shaku (cm/shaku) | 630(330)×30×4 (edge 330×25×3) | 1,000 | 4 960910 778856 | 2 | V |

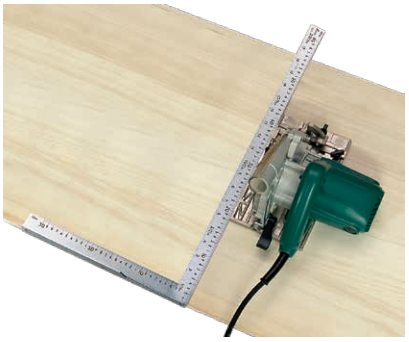
Refer to P. 2 about the shaku scale

### Features

- Edge holds to the material tightly and prevents sliding when cutting with an electric circular saw or marking
- All stainless steel made, heavy and tough
- Shaku graduation is marked inside of long branch

### Use

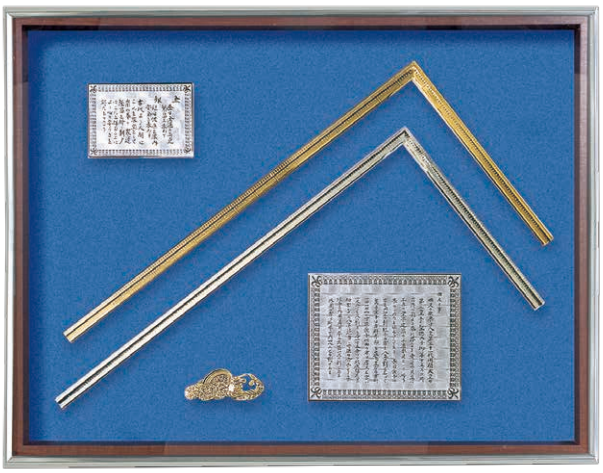
- Use as a guide rule for electric circular saws
- For all types of marking and measuring length



### Specifications

| | |
|---|---|
| Squareness | Less than 0.1 mm per 100 mm |
| Length Tolerance | ±0.5 mm |
| Material | Stainless steel |

# Ornamental Carpenter's Square



98760

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 98760 | Gold and Silver with Frame | 522×673×40 | 2,920 | 4 960910 987609 | 1 | B |

## Features

●History of the carpenter's square is engraved on metal plates, and the gold and silver color finish turns it into a beautiful, decorative framed piece

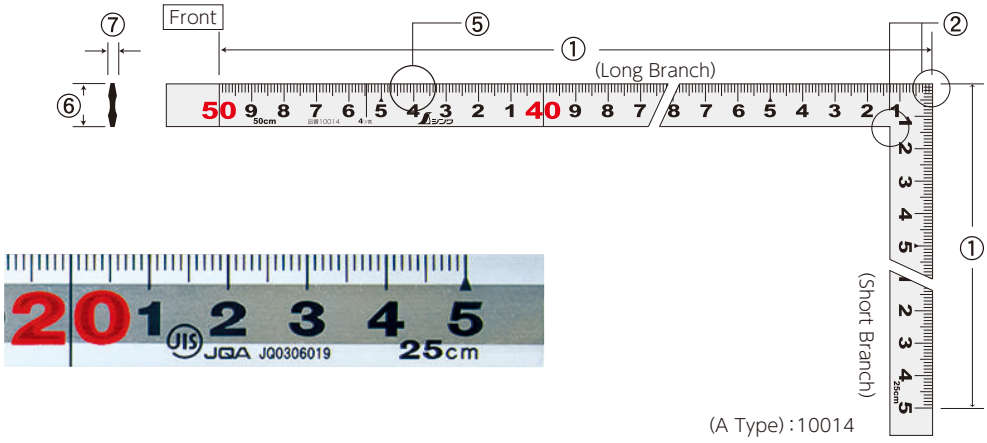
## Use

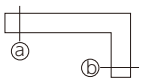
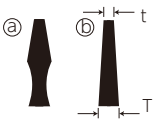
●For an anniversary gift or occasional gift

## Specifications

| | |
|---|---|
| Material | Square: Stainless steel<br>Frame: Aluminum, acrylic resin |

## JAPANESE INDUSTRIAL STANDARD Carpenter's Square Part of B7534-2005 (abstract) as of July 2018

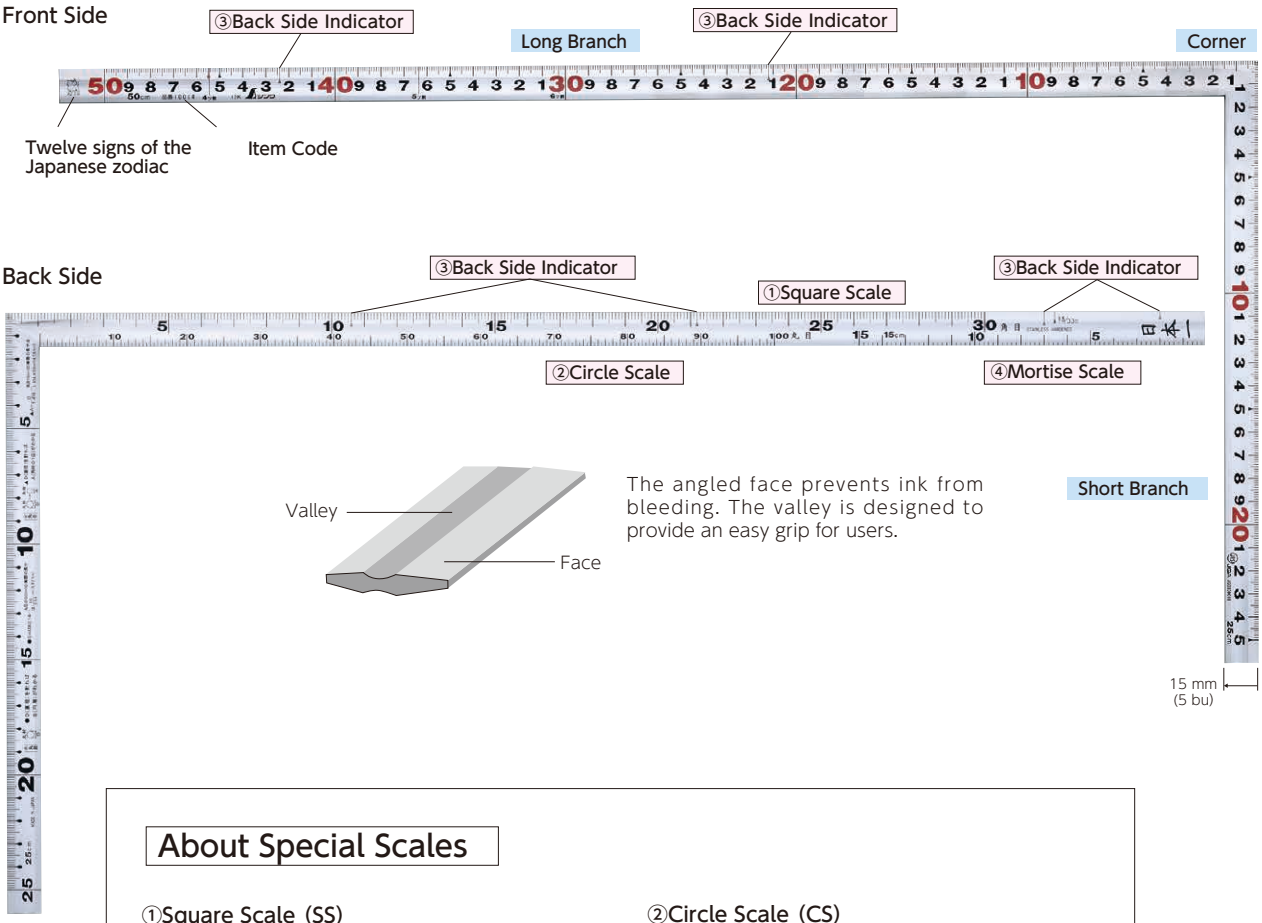



| Division | Item | Standard | | |
|---|---|---|---|---|
| Standard | JIS B7534—2005 | – | | |
| Material | Hardness | A type | B type | C type |
| | | Hv320 min | Hv210 min | Hv210 min |
| Performance, Shapes and Dimensions | ①Tolerances on Length | The tolerance on length of carpenter's squares shall be ±0.2㎜ for an arbitrary length from its outer or inner scale reference point and the length between arbitrary two graduation lines, taking the reference temperature at 20℃. | | |
| | ②Squareness of Scale Side Face | The squareness of the scale side face of the long branch in respect to that of the short branch shall not exceed 0.1 ㎜ per 100 ㎜. | | |
| | ③Straightness of Scale Side Face | The straightness in horizontal direction of the scale side of carpenter's square shall be less than (0.3+Overall length of long branch or short branch divided by 2,500) ㎜. | | |
| | ④Flatness of Scale Face | For a carpenter's square of Type A. When it is bent so that the distance between both ends of long branch becomes 3/4 the "outer scale length of long branch" and returned, the flatness of scale face of the long branch shall not exceed 1/100 the "outer scale length of long branch". | | |
| | ⑤Scale | The graduation lines shall reach the ridge of the scaled surface, as well as the squareness in respect to the ridge of scaled surface shall be less than 0.2 ㎜ per 5 ㎜.<br>The thickness of the graduation lines shall be 0.2 to 0.45 ㎜. For those of the same nominal thickness, the minimum value of the actual thickness shall be at least 55% of the maximum value. | | |
| | ⑥Width | A type・B type 15.0±0.3 mm/C type 20.0±0.3 mm・15.0±0.3 mm | | |
| | ⑦Thickness | A Type 1.4±0.4 mm B type T:2.6±0.3 mm t:2.0±0.3 mm C type 2.0±0.3 mm・1.0±0.3 mm | | |
| Shape | Cross Section  | A type | B type  | C type |

JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

# About the Carpenter's Square

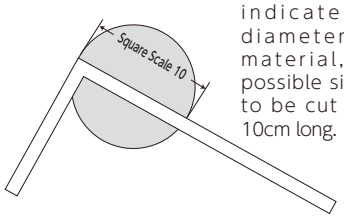
## Part names




## About Special Scales

### ①Square Scale (SS)

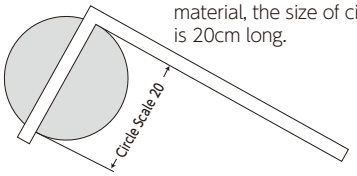
A scale graduated in $\sqrt{2}$ times the actual length scale for measuring the largest square possible to be cut out from a circular material.




When the Square Scale indicates 10 as the diameter of circular material, the largest possible size of a square to be cut out from it is 10cm long.

### ②Circle Scale (CS)

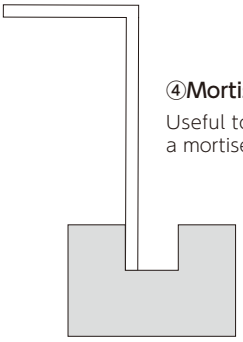
A scale graduated in $1/\pi$ times the actual length scale for measuring the circumference of a circular material.




When the Circle Scale indicates 20 as the diameter of circular material, the size of circumference is 20cm long.

### ③Back Side Indicator

On both the front and back sides of the square, there are icons indicating frequently used scale marks ( ). These icons allow users to know the value written on the back side without flipping the square.

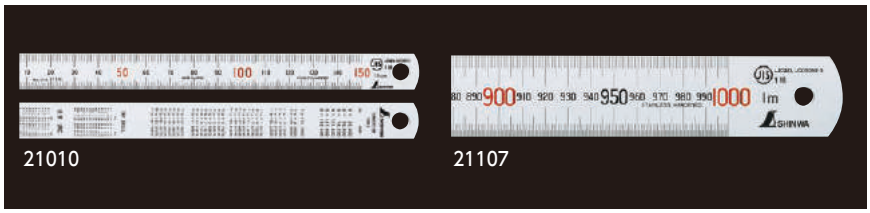


### ④Mortise Scale (MS)

Useful to measure the depth of a mortise.

# 2. Stainless Steel Rules/ Machine Scale

## Stainless Steel Rule Hard Chrome Finish [Metric]




| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 21010 | H-101A 15 cm JIS Red | 175×15×0.5 | 10 | 4 960910 210103 | 50 | V |
| 21085 | H-101C 30 cm JIS Red | 335×25×1.0 | 65 | 4 960910 210851 | | |
| 21028 | H-101E 60 cm JIS Red | 640×30×1.2 | 180 | 4 960910 210288 | 10 | |
| 21107 | H-101F 1 m JIS Red | 1,050×35×1.5 | 425 | 4 960910 211070 | | |
| 21589 | H-102G 1.5 m JIS Red | 1,565×40×2.0 | 950 | 4 960910 215894 | 5 | |
| 21607 | H-102H 2 m JIS Red | 2,065×40×2.0 | 1,250 | 4 960910 216075 | | |
| 21566 | H-102I 3 m | 3,065×40×3.0 | 2,865 | 4 960910 215665 | | |

### Features

- JIS Grade 1 (15 cm - 2 m)
- Hard chrome finish provides its surface with excellent durability and prevents glare on the scale for high readability
- Etching and plating finish maintains its performance even under harsh conditions
- English package
- Made in Japan

### Use

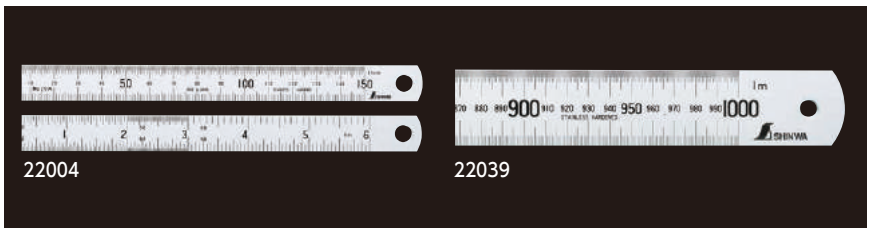
- For measuring length, drawing lines and marking

### Specifications

| | 21010 | 21085 | 21028 | 21107 |
|---|---|---|---|---|
| Upper Graduation | 1 mm pitch | | | |
| Lower Graduation | 0.5 mm pitch | | | |
| Material | Stainless steel | | | |

| | 21589 | 21607 | 21566 |
|---|---|---|---|
| Upper Graduation | 0.5 mm pitch for up to 10 cm 1mm pitch for the rest | | |
| Lower Graduation | 1 mm pitch | | |
| Material | Stainless steel | | |

## Stainless Steel Rule Hard Chrome Finish [Metric/Inch]




| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 22004 | H-201A 15 cm/6" | 175×15×0.5 | 10 | 4 960910 220041 | 50 | V |
| 22012 | H-201C 30 cm/12" | 335×25×1.0 | 65 | 4 960910 220126 | | |
| 22021 | H-201E 60 cm/24" | 640×30×1.2 | 180 | 4 960910 220218 | 10 | |
| 22039 | H-201F 1 m/36" | 1,050×35×1.5 | 425 | 4 960910 220393 | | |

### Features

- Metric scale on front side and inch scale on back side
- Hard chrome finish provides its surface with excellent durability and prevents glare on the scale for high readability
- Etching and plating finish maintains its performance even under harsh conditions
- English package
- Made in Japan

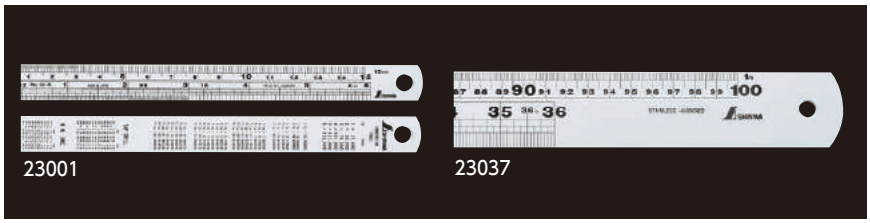
### Use

- For measuring length, drawing lines and marking

### Specifications

| | | 22004 | 22012 | 22021 | 22039 |
|---|---|---|---|---|---|
| Front Side | Upper | 0.5 mm pitch | | | |
| | Lower | 1 mm pitch | | | |
| Back Side | Upper | 1/10",1/20",1/50"pitch | | | |
| | Lower | 1/16",1/32",1/64"pitch | | | |
| Material | | Stainless steel | | | |

## Stainless Steel Rule Hard Chrome Finish [Metric/Inch]




| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 23001 | H-301A 15 cm/6" | 175×15×0.5 | 10 | 4 960910 230019 | 50 | V |
| 23021 | H-301C 30 cm/12" | 335×25×1.0 | 65 | 4 960910 230217 | | |
| 23029 | H-301E 60 cm/24" | 640×30×1.2 | 180 | 4 960910 230293 | 10 | |
| 23037 | H-301F 1 m/36" | 1,050×35×1.5 | 425 | 4 960910 230378 | | |
| 23159 | H-302G 1.5 m/60" | 1,565×40×2.0 | 950 | 4 960910 231597 | 5 | |
| 23167 | H-302H 2 m/78" | 2,065×40×2.0 | 1,250 | 4 960910 231672 | | |
| 23175 | H-302I 3 m/118" | 3,065×40×3.0 | 2,865 | 4 960910 231757 | | |

### Features

- Metric scale on upper side and inch scale on lower side
- Hard chrome finish provides its surface with excellent durability and prevents glare on the scale for high readability
- Etching and plating finish maintains its performance even under harsh conditions
- English package
- Made in Japan

### Use

- For measuring length, drawing lines and marking

### Specifications

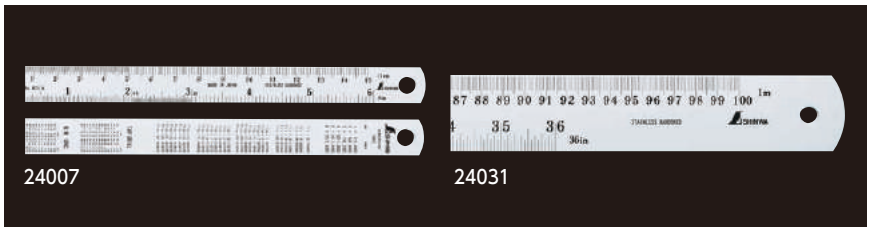
| | | 23001 | 23021 | 23029 | 23037 |
|---|---|---|---|---|---|
| Front Side | Upper | 0.5 mm,1 mm pitch | | | |
| | Lower | 1/16",1/32",1/64"pitch | | | |
| Back Side | | Conversion table | | | |
| Material | | Stainless steel | | | |

| | | 23159 | 23167 | 23175 |
|---|---|---|---|---|
| Front Side | Upper | 0.5 mm,1 mm pitch | | |
| | Lower | 1/16",1/32",1/64"pitch | | |
| Back Side | | Plain | | |
| Material | | Stainless steel | | |

The difference between Polish Finish and Hard Chrome Finish

Surface finish differs. The polish finish is regular stainless steel while the hard chrome type has been given a matte finish to prevent glare and give the scale high readability.

## Stainless Steel Rule Hard Chrome Finish [Metric/Inch]



24007 24031

| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 24007 | H-401A 15 cm/6" | 175×15×0.5 | 10 | 4 960910 240070 | 50 | V |
| 24015 | H-401C 30 cm/12" | 335×25×1.0 | 65 | 4 960910 240155 | | |
| 24023 | H-401E 60 cm/24" | 640×30×1.2 | 180 | 4 960910 240230 | 10 | |
| 24031 | H-401F 1 m/36" | 1,050×35×1.5 | 425 | 4 960910 240315 | | |
| 24252 | H-402G 1.5 m/60" | 1,565×40×2.0 | 950 | 4 960910 242524 | 5 | |
| 24260 | H-402H 2 m/78" | 2,065×40×2.0 | 1,250 | 4 960910 242609 | | |
| 49099 | H-402I 3 m/118" | 3,065×40×3.0 | 2,865 | 4 960910 490994 | | |

### Features

- Metric scale on upper side and inch scale on lower side
- Hard chrome finish provides its surface with excellent durability and prevents glare on the scale for high readability
- Etching and plating finish maintains its performance even under harsh conditions
- English package
- Made in Japan

### Use

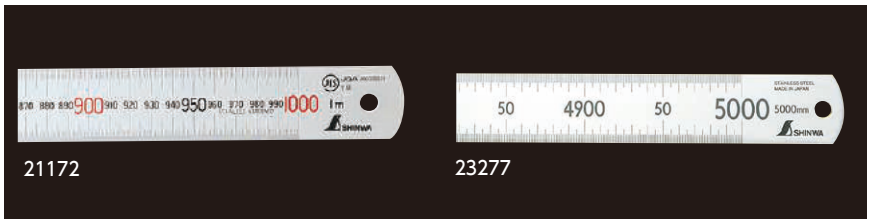
- For measuring length, drawing lines and marking

### Specifications

| | | 24007 | 24015 | 24023 | 24031 |
|---|---|---|---|---|---|
| Front Side | Upper | 0.5 mm, 1 mm pitch | | | |
| | Lower | 1/16",1/32",1/64" pitch | | | |
| Back Side | | Conversion table | | | |
| Material | | Stainless steel | | | |

| | | 24252 | 24260 | 49099 |
|---|---|---|---|---|
| Front Side | Upper | 0.5 mm, 1 mm pitch | | |
| | Lower | 1/16",1/32",1/64" pitch | | |
| Back Side | | Plain | | |
| Material | | Stainless steel | | |

## Stainless Steel Rule Polish Finish [Metric]



21172 23277

| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 21148 | S-101A 15 cm JIS Red | 175×15×0.5 | 10 | 4 960910 211483 | 50 | V |
| 21156 | S-101C 30 cm JIS Red | 335×25×1.0 | 65 | 4 960910 211568 | | |
| 21164 | S-101E 60 cm JIS Red | 640×30×1.2 | 180 | 4 960910 211643 | 10 | |
| 21172 | S-101F 1 m JIS Red | 1,050×35×1.5 | 425 | 4 960910 211728 | | |
| 21741 | S-102G 1.5 m JIS Red | 1,565×40×2.0 | 950 | 4 960910 217416 | 5 | |
| 21768 | S-102H 2 m JIS Red | 2,065×40×2.0 | 1,250 | 4 960910 217683 | | |
| 23275 | S-102I 3 m | 3,065×40×3.0 | 2,865 | 4 960910 232754 | | |
| 23276 | S-102J 4 m | 4,065×45×3.0 | 4,253 | 4 960910 232761 | 1 | |
| 23277 | S-102K 5 m | 5,065×45×3.0 | 5,299 | 4 960910 232778 | | |
| 23278 | S-102L 6 m | 6,065×45×3.0 | 6,345 | 4 960910 232785 | | |

### Features

- JIS Grade 1 (15 cm - 2 m)
- Polish finish offers both fine metallic luster and reasonable price
- English package
- Made in Japan

### Use

- For measuring length, drawing lines and marking

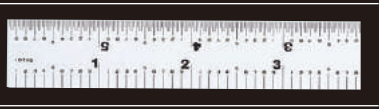
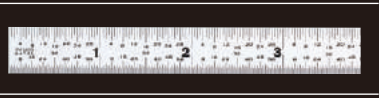
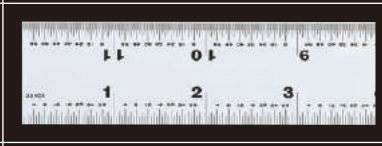
### Specifications

| | 21148 | 21156 | 21164 | 21172 |
|---|---|---|---|---|
| Upper Graduation | 1 mm pitch | | | |
| Lower Graduation | 0.5 mm pitch | | | |
| Material | Stainless steel | | | |

| | 21741 | 21768 | 23275 |
|---|---|---|---|
| Upper Graduation | 0.5 mm pitch for up to 10cm<br>1 mm pitch for the rest | | |
| Lower Graduation | 1 mm pitch | | |
| Material | Stainless steel | | |

| | 23276 | 23277 | 23278 |
|---|---|---|---|
| Upper Graduation | 1 mm pitch | | |
| Lower Graduation | 1 mm pitch | | |
| Material | Stainless steel | | |

# Stainless Steel Rule Hard Chrome Finish

| Item Code | Front | Back |
|---|---|---|
| 24777 | |  |
| 24540 | | |
| 30451 | | |
| 24737 | | |
| 24580 | | |
| 24621 | |  |
| 24785 | | |
| 24548 |  | |
| 30459 | | |
| 24742 | | |
| 24591 | | |
| 24629 | | |

## Features

- Hard chrome finish provides its surface with excellent durability and prevents glare on the scale for high readability
- Etching and plating finish maintains its performance even under harsh conditions
- English package
- Made in Japan

## Use

- For measuring length, drawing lines and marking

## Specifications

| 24777 | 24737 | 24785 | 24742 |
|---|---|---|---|
| 1/32", 1/64", 1/10", 1/50" | | | |

| 24540 | 24580 | 24548 | 24591 |
|---|---|---|---|
| 1/64", 1/32", 1/16", 1/8" | | | |

| 24621 | 24629 |
|---|---|
| 1/10", 1/100", 1/64", 1/32" | |

| 30451 | 30459 |
|---|---|
| 1/32", 1/64", 1.0 mm, 0.5 mm | |

| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 24777 | H-3302A 6"/6" Rigid 3R | 6×0.75×0.03 | 17 | 4 960910 247772 | 25 | V |
| 24540 | H-3001A 6"/6" Rigid 4R | 6×0.75×0.03 | 17 | 4 960910 245402 | | |
| 30451 | H-3412A 6"/15 cm Rigid EM | 6×0.75×0.03 | 17 | 4 960910 304512 | | |
| 24737 | H-3301A 6"/6" Flexible 3R | 6×0.5×0.02 | 7 | 4 960910 247376 | 50 | |
| 24580 | H-3101A 6"/6" Flexible 4R | 6×0.5×0.02 | 7 | 4 960910 245808 | | |
| 24621 | H-3102A 6"/6" Flexible 5R | 6×0.5×0.02 | 7 | 4 960910 246218 | | |
| 24785 | H-3302C 12"/12" Rigid 3R | 12×1.375×0.04 | 66 | 4 960910 247857 | 25 | |
| 24548 | H-3001C 12"/12" Rigid 4R | 12×1.375×0.04 | 66 | 4 960910 245488 | | |
| 30459 | H-3412C 12"/30 cm Rigid EM | 12×1.375×0.04 | 66 | 4 960910 304598 | | |
| 24742 | H-3301C 12"/12" Flexible 3R | 12×0.5×0.02 | 15 | 4 960910 247420 | 50 | |
| 24591 | H-3101C 12"/12" Flexible 4R | 12×0.5×0.02 | 15 | 4 960910 245914 | | |
| 24629 | H-3102C 12"/12" Flexible 5R | 12×0.5×0.02 | 15 | 4 960910 246294 | | |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Stainless Steel Rule Hard Chrome Finish

| Item Code | Description | | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 13005 | 15 cm | JIS Red | 175×15×0.5 | 10 | 4 960910 130050 | 50 | V |
| 13013 | 30 cm | JIS Red | 335×25×1.0 | 65 | 4 960910 130135 | | |
| 13021 | 60 cm | JIS Red | 640×30×1.2 | 180 | 4 960910 130210 | 10 | |
| 13048 | 1 m | JIS Red | 1,050×35×1.5 | 425 | 4 960910 130487 | | |
| 13056 | 1.5 m | JIS Red | 1,565×40×2.0 | 950 | 4 960910 130562 | 5 | |
| 13064 | 2 m | JIS Red | 2,065×40×2.0 | 1,250 | 4 960910 130647 | | |
| 13072 | 3 m | | 3,065×40×3.0 | 2,865 | 4 960910 130722 | | |

### Features

- JIS Grade 1 (15 cm - 2 m)
- Hard chrome finish (matte processed) to prevent glare and make graduation easy to see
- Etching and plating finish maintains its performance even under harsh conditions
- Inch conversion chart and tap drill size chart on back (15 cm - 1 m)

### Use

- For measuring length, drawing lines and marking

### Specifications

| | 13005 | 13013 | 13021 | 13048 |
|---|---|---|---|---|
| Upper Graduation | 1 mm pitch | | | |
| Lower Graduation | 0.5 mm pitch | | | |
| Material | Stainless steel | | | |

| | 13056 | 13064 | 13072 |
|---|---|---|---|
| Upper Graduation | 0.5 mm pitch for up to 10 cm<br>1 mm pitch for the rest | | |
| Lower Graduation | 1 mm pitch | | |
| Material | Stainless steel | | |

## Stainless Pickup Rule Hard Chrome Finish

| Item Code | Description | | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 13128 | 10 cm | | 120×15×0.5 | 7 | 4 960910 131286 | 50 | V |
| 13131 | 15 cm | JIS Red | 175×15×0.5 | 10 | 4 960910 131316 | | |
| 13134 | 30 cm | JIS Red | 335×25×1.0 | 65 | 4 960910 131347 | | |
| 13137 | 60 cm | JIS Red | 640×30×1.2 | 180 | 4 960910 131378 | 10 | |
| 13140 | 1 m | JIS Red | 1,050×35×1.5 | 425 | 4 960910 131408 | | |

### Features

- JIS Grade 1 (15 cm - 1 m)
- Bent end of the scale makes it easy to pick up

- Big numbers make it easy to read off
- Conversion chart on the back

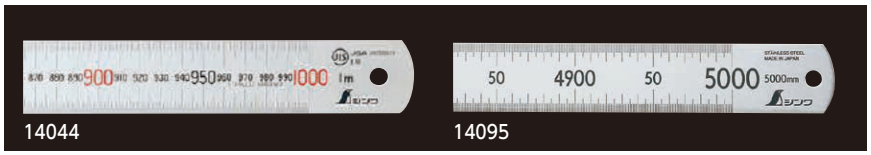
### Use

- For measuring length, drawing lines and marking

### Specifications

| | |
|---|---|
| Graduation | 1 mm pitch for both upper and lower |
| Material | Stainless steel |

## Stainless Steel Rule Polish Finish




| Item Code | Description | | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 14001 | 15 cm | JIS Red | 175×15×0.5 | 10 | 4 960910 140011 | 50 | V |
| 14028 | 30 cm | JIS Red | 335×25×1.0 | 65 | 4 960910 140288 | | |
| 14036 | 60 cm | JIS Red | 640×30×1.2 | 180 | 4 960910 140363 | 10 | |
| 14044 | 1 m | JIS Red | 1,050×35×1.5 | 425 | 4 960910 140448 | | |
| 14052 | 1.5 m | JIS Red | 1,565×40×2.0 | 950 | 4 960910 140523 | 5 | |
| 14060 | 2 m | JIS Red | 2,065×40×2.0 | 1,250 | 4 960910 140608 | | |
| 14079 | 3 m | | 3,065×40×3.0 | 2,865 | 4 960910 140790 | | |
| 14087 | 4 m | | 4,065×45×3.0 | 4,253 | 4 960910 140875 | 1 | |
| 14095 | 5 m | | 5,065×45×3.0 | 5,299 | 4 960910 140950 | | |
| 14109 | 6 m | | 6,065×45×3.0 | 6,345 | 4 960910 141094 | | |

### Features

- JIS Grade 1 (15 cm - 2 m)
- Polish finish offers both fine metallic luster and reasonable price
- Inch conversion chart and tap drill size chart on back (15 cm - 1 m)

### Use

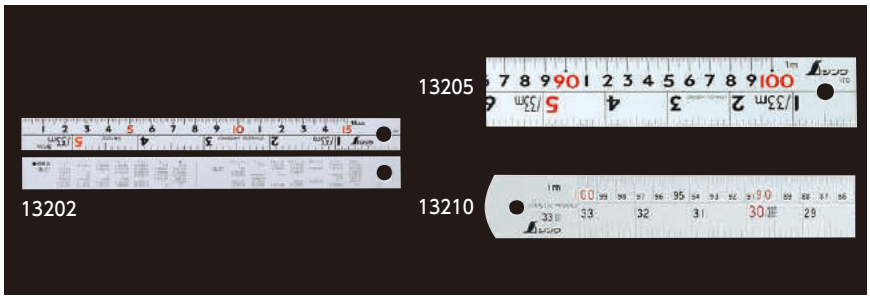
- For measuring length, drawing lines and marking

### Specifications

| | 14001 | 14028 | 14036 | 14044 |
|---|---|---|---|---|
| Upper Graduation | 1 mm pitch | | | |
| Lower Graduation | 0.5 mm pitch | | | |
| Material | Stainless steel | | | |

| | 14052 | 14060 | 14079 | 14087 | 14095 | 14109 |
|---|---|---|---|---|---|---|
| Upper Graduation | 0.5 mm pitch for up to 10 cm<br>1 mm pitch for the rest | | | 1 mm pitch | | |
| Lower Graduation | 1 mm pitch | | | | | |
| Material | Stainless steel | | | | | |

## Stainless Steel Rule Hard Chrome Finish Metric/Shaku




| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 13202 | 15 cm Double-left Reference Point cm/shaku Red | 175×15×0.5 | 10 | 4 960910 132023 | 10 | V |
| 13203 | 30 cm Double-left Reference Point cm/shaku Red | 330×25×1.0 | 64 | 4 960910 132030 | | |
| 13204 | 60 cm Double-left Reference Point cm/shaku Red | 635×30×1.2 | 175 | 4 960910 132047 | | |
| 13205 | 1 m Double-left Reference Point cm/shaku Red | 1,040×35×1.5 | 420 | 4 960910 132054 | | |
| 13210 | 1 m Right Reference Point cm/shaku Red | 1,050×35×1.5 | 425 | 4 960910 132108 | | |

Refer to P. 2 about the shaku scale

### Features

- Shaku graduation comes in handy for carpenters
- Double-left Reference Point model is such that when either the shaku or cm scale is on the upper level, that graduation's reference point reads from the left side edge. (13210, the reference point on both the upper and lower graduations reads from the right side edge.)
- Conversion chart on the back (13202/13203/13204/13205)
- Inch conversion chart and tap drill size chart on back (13210)

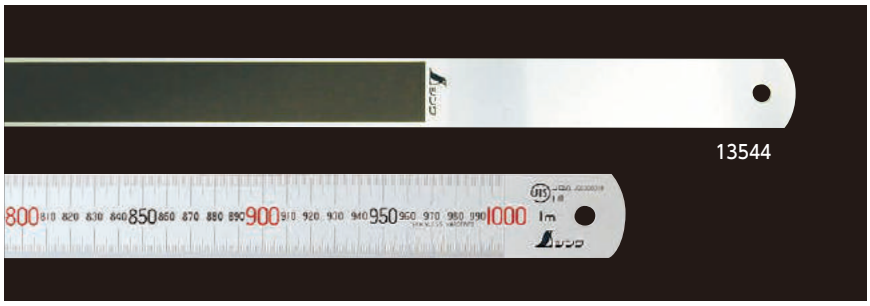
### Use

- For measuring length, drawing lines and marking

### Specifications

| | 13202 | 13203 | 13204 | 13205 | 13210 |
|---|---|---|---|---|---|
| Upper Graduation | 1 mm pitch | | | | |
| Lower Graduation | Shaku | | | | |
| Material | Stainless steel | | | | |

## Stainless Steel Rule Hard Chrome Finish with Magnet




| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 13501 | 15 cm JIS Red | 175×15×1.3 | 15 | 4 960910 135017 | 10 | V |
| 13528 | 30 cm JIS Red | 335×25×1.8 | 81 | 4 960910 135284 | | |
| 13536 | 60 cm JIS Red | 640×30×2.0 | 216 | 4 960910 135369 | | |
| 13544 | 1 m JIS Red | 1,050×35×2.3 | 487 | 4 960910 135444 | | |

### Features

- JIS Grade 1
- Magnetic sheet attached on the back

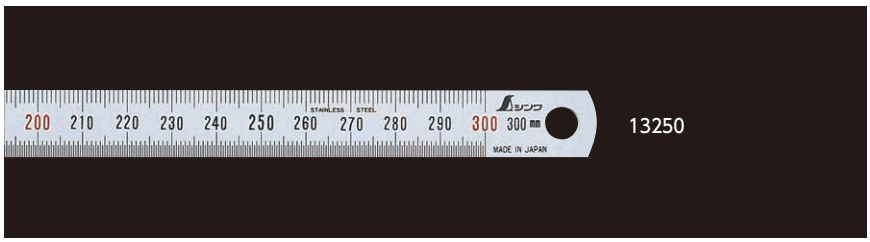
### Use

- For measuring length, drawing lines and marking

### Specifications

| | 13501 | 13528 | 13536 | 13544 |
|---|---|---|---|---|
| Upper Graduation | 1 mm pitch | | | |
| Lower Graduation | 0.5 mm pitch | | | |
| Material | Stainless steel | | | |

## Flexible Stainless Steel Rule Hard Chrome Finish




| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 13250 | 30 cm Red | 325×15×0.5 | 18 | 4 960910 132504 | 50 | |
| 13269 | 60 cm | 630×15×0.5 | 35 | 4 960910 132696 | 10 | V |
| 13277 | 1 m | 1,030×15×0.5 | 60 | 4 960910 132771 | | |
| 13285 | 1.5 m | 1,530×15×0.5 | 87 | 4 960910 132856 | | |
| 13293 | 2 m | 2,030×15×0.5 | 115 | 4 960910 132931 | | |

### Features

- Narrower and thinner rule with flexibility
- Its quality is the same as JIS products
- Can be used to match curved surfaces

### Use

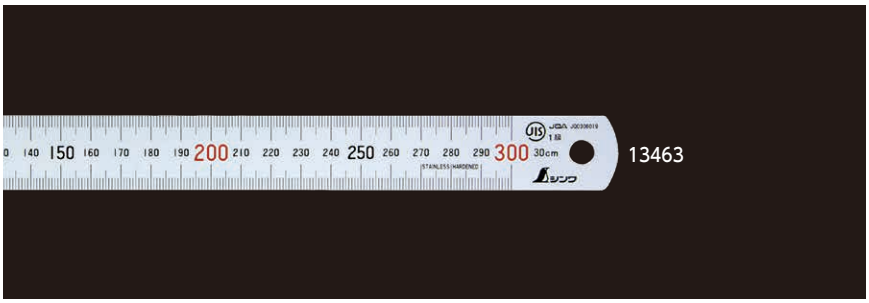
- For measuring curves or attaching to machines

### Specifications

| | 13250 | 13269 | 13277 | 13285 | 13293 |
|---|---|---|---|---|---|
| Upper Graduation | 1 mm pitch | | | | |
| Lower Graduation | 0.5 mm pitch | | | 1 mm pitch | |
| Material | Stainless steel | | | | |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Stainless Steel Rule Hard Chrome Finish 1 mm Dividing *Made-to-order




| Item Code | Description | | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 13404 | 15 cm | JIS Red | 175×15×0.5 | 10 | 4 960910 134041 | 50 | V |
| 13463 | 30 cm | JIS Red | 335×25×1.0 | 65 | 4 960910 134638 | | |
| 13412 | 60 cm | JIS Red | 640×30×1.2 | 180 | 4 960910 134126 | 10 | |
| 13498 | 1 m | JIS Red | 1,050×35×1.5 | 425 | 4 960910 134980 | | |

### Features

- JIS Grade 1
- Easy-to-read 1 mm pitch for a situation that does not require detailed graduations
- Inch conversion chart and tap drill size chart on back

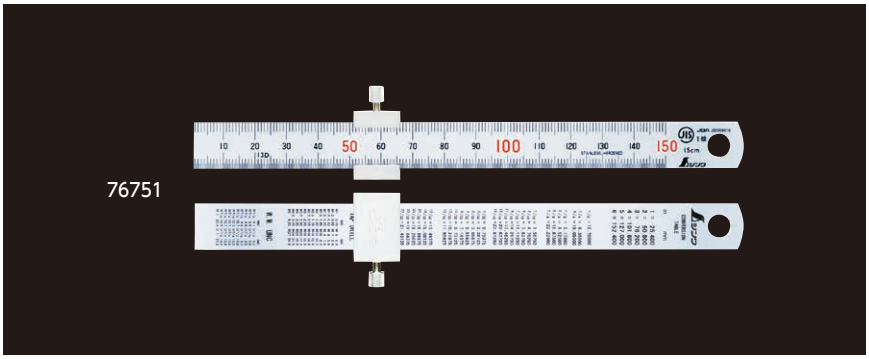
### Use

- For measuring length, drawing lines and marking

### Specifications

| | 13404 | 13463 | 13412 | 13498 |
|---|---|---|---|---|
| Upper Graduation | 1 mm pitch | | | |
| Lower Graduation | 1 mm pitch | | | |
| Material | Stainless steel | | | |

## Stainless Steel Rule Hard Chrome Finish with Stopper



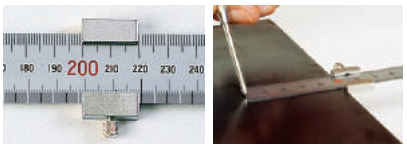

| Item Code | Description | | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 76751 | 15 cm | JIS Red | 175×22(15)×5(0.5) | 20 | 4 960910 767515 | 10 | V |
| 76752 | 30 cm | JIS Red | 335×35(25)×6(1.0) | 90 | 4 960910 767522 | | |

### Features

- JIS Grade 1
- Attached stopper enables it to hold and measure depth more easily and accurately

### Use

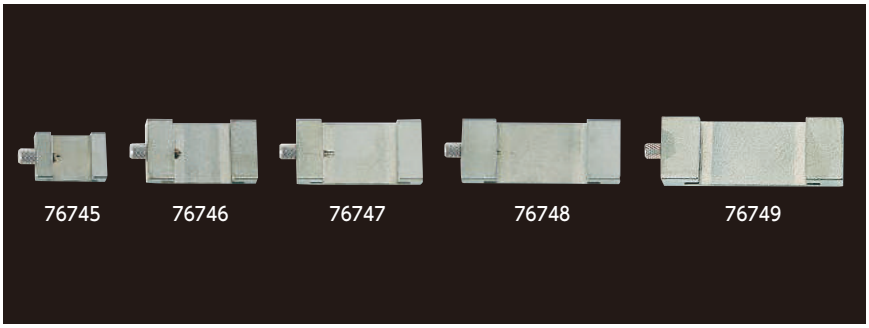
- For marking, measuring length, depth and height of step



### Specifications

| | |
|---|---|
| Material | Rule: Stainless steel<br>Stopper: Brass |

## Rule Stopper




| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76745 | for 15 cm Rule | 15×22×5 | 9 | 4 960910 767454 | 10 | VH |
| 76746 | for 30 cm Rule | 20×35×6 | 23.5 | 4 960910 767461 | | |
| 76747 | for 60 cm Rule | 20×40×6 | 24 | 4 960910 767478 | | |
| 76748 | for 1 m Rule | 20×50×6 | 30 | 4 960910 767485 | 5 | |
| 76749 | for 1.5 and 2 m Rule | 20×55×8 | 42.5 | 4 960910 767492 | | |

### Features

- Attaches to a ruler to make it easier to hold and measure depth more easily and accurately

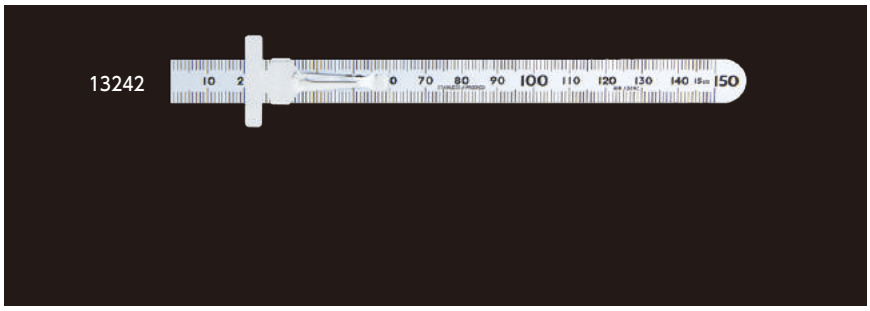
### Use

- For marking, or measuring length, depth and height of step

### Specifications

| | 76745 | 76746 | 76747 | 76748 | 76749 |
|---|---|---|---|---|---|
| Suitable Size (Width × Thickness) | 15×0.5 mm | 25×1.0 mm | 30×1.2 mm | 35×1.5 mm | 40×2.0 mm |
| Material | Brass | | | | |

## Stainless Steel Rule Mini




| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 13242 | Hard Chrome Finish 15 cm | 160×26×0.5 Rule Width: 12 | 8 | 4 960910 132429 | 20 | V |
| 14249 | Polish Finish 15 cm | 160×26×0.5 Rule Width: 12 | 8 | 4 960910 142497 | | |

### Features

- Clip for securing in a pocket
- It can also be used as a depth gauge by sliding the clip
- Easy to carry around
- Inch conversion chart on the back

### Use

- For measuring length and depth

### Specifications

| | 13242 | 14249 |
|---|---|---|
| Upper Graduation | 1 mm pitch | |
| Lower Graduation | 1 mm pitch | |
| Material | Stainless steel | |

## 6-folding Stainless Steel Rule Polish Finish

| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 63770 | 1 m | 1,000×15×0.5 | 64 | 4 960910 637702 | 10 | VH |

### Features

- This 1 m scale can be folded into six parts to carry and store easily

### Use

- For measuring length, drawing lines and marking

### Specifications

| | |
|---|---|
| Graduation | 1 mm pitch |
| Material | Stainless steel |

## Precision Stainless Steel Rule Hard Chrome Finish with JCSS Certificate

14115

Graduations for Instrumental error

with JCSS Certificate *1

*1 Measuring points at every 100 mm (only bottom side scale)

| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 14113 | 30 cm *2 | 310×30×10 | 724 | 4 960910 141131 | 1 | B |
| 14114 | 60 cm *2 | 610×30×10 | 1,425 | 4 960910 141148 | | |
| 14115 | 1 m | 1,010×30×10 | 2,360 | 4 960910 141155 | | |

*2 30 cm and 60 cm models are made-to-order items.

### Features

- Rules for examination or calibration
- Comes with a premium wooden box

### Use

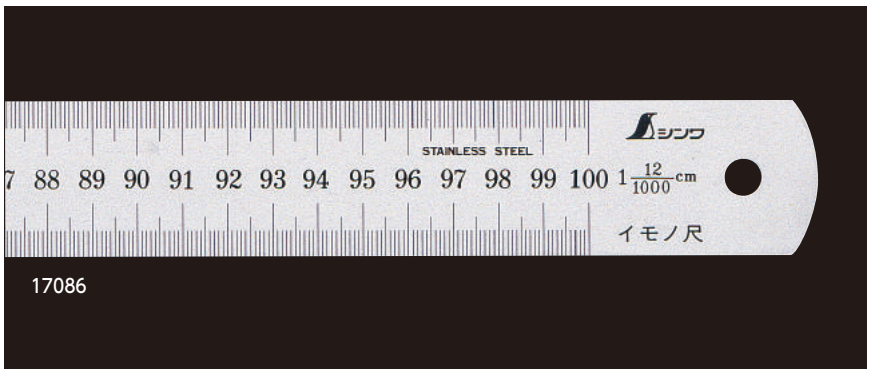
- For calibration of all types of measuring instruments

### Specifications

| | |
|---|---|
| Material | Stainless steel |
| Graduations for Instrumental Error | 0.25 mm pitch (1 mm before and behind) on 30 cm, 60 cm, 1 m |
| Graduations | 1 mm pitch except for graduations for instrumental error |
| Graduations Line Width | 0.1 - 0.2 mm |
| Length Tolerance | ±0.06 mm |
| Coefficient of Linear Expansion | $10.3 \times 10^{-6}$/℃ |

JIS JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

## Molding Rule




**Features**

- Handy for creating wood or metal molds for casting
- Hard chrome finish prevents glare on the scale, making it easier to read

**Use**

- For creating wood or metal molds for casting

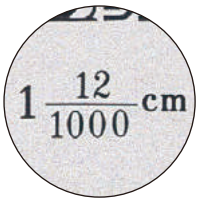
**Specifications**

| Material | Stainless steel |
|---|---|

| Description | Overall Length×Width×Thickness (mm) | Weight (g) | Packing Unit | Packaging |
|---|---|---|---|---|
| 15 cm ○○/1000 | 182×15×0.5 | 11 | 10 | V |
| 30 cm ○○/1000 | 345×25×1.0 | 66 | | |
| 60 cm ○○/1000 | 651×30×1.2 | 185 | | |
| 1 m ○○/1000 | 1,060×35×1.5 | 435 | | |
| 2 m ○○/1000 | 2,085×40×2.0 | 1,275 | 1 | |

■12/1000

This means that 1 cm measured on contraction rule is actually 1.012 cm




*The length and weight are based on 10/1000 model. They will vary depending on percent elongation.

## Item Code list

* Blue frames indicate stock items. Others are made-to-order items including (–).
*We can provide a separate estimate for sizes and percent elongation other than those listed below.

| Length \ ○/1000 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 cm | 81738 | 46800 | — | 18003 | 18004 | 14932 | — | 18007 | — | 18015 | 19005 | 18023 | 18024 | 81657 | 18031 |
| 30 cm | — | 15000 | 15296 | 15008 | 15016 | 15024 | 15032 | 15040 | 15059 | 15067 | 15261 | 15075 | 15083 | 15091 | 15105 |
| 60 cm | 81737 | 16000 | 16381 | 16004 | 16012 | 16020 | 16039 | 16047 | 16055 | 16063 | 16365 | 16071 | 16098 | 16101 | 16128 |
| 1 m | — | 17001 | 17345 | 17000 | 17019 | 17027 | 17035 | 17043 | 17051 | 17078 | 17353 | 17086 | 17094 | 17108 | 17116 |
| 2 m | — | 18500 | 14050 | — | 73879 | — | 83803 | 18503 | 18686 | 18511 | 18499 | 18538 | 18678 | 18546 | 18554 |

| Length \ ○/1000 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 cm | 19006 | 14938 | 14939 | 67845 | 18058 | — | 18066 | 77785 | 77196 | 18074 | — | 14950 | 77673 | — | 18082 |
| 30 cm | 15113 | 15121 | 15148 | 15334 | 15156 | 15288 | 15164 | 15172 | 15180 | 15199 | 15202 | 15210 | 15229 | 18090 | 15237 |
| 60 cm | 16136 | 16144 | 16152 | 16160 | 16179 | 16373 | 16187 | 16195 | 16209 | 16217 | 16225 | 16233 | 16241 | 14900 | 16268 |
| 1 m | 17124 | 17132 | 17140 | 17159 | 17167 | 17361 | 17175 | 17183 | 17191 | 17205 | — | 17221 | 17248 | 75416 | 17256 |
| 2 m | 18562 | 18570 | 18589 | 18597 | 18600 | — | 18619 | 65204 | 15380 | 18627 | — | 14945 | 65205 | — | 18635 |

## What are molding rules?

- These are ideal rules for creating wood or metal molds for casting. A casting is set by pouring melted cast metal into a mold. As the casted metal contracts as it cools, the mold is made with extra dimensions. Since the contraction percentage varies depending on metals, sizes and foundries, various molding rules with different enlargement ratios are required.

## Rules Specifications

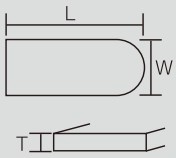
*Varies depending on length

| Items | Base | Numerical Unit | | Graduation Pitch | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Upper Graduation | | Lower Graduation | | |
| | Zero Point at Edge | mm | cm | 0.5 mm | 1 mm | 0.5 mm | 1 mm | Shaku |
| Stainless Steel Rule Hard Chrome Finish | ● | ● | | | ● | ● * | | |
| Stainless Steel Rule Hard Chrome Finish Metric x Shaku | ● | | ● | | ● | | | ● |
| Stainless Pickup Rule Hard Chrome Finish | ● | | ● | | ● | | ● | |
| Stainless Steel Rule Polish Finish | ● | ● | | | ● | ● * | | |
| Stainless Steel Rule Hard Chrome Finish with Scale Stopper | ● | ● | | | ● | ● | | |
| Stainless Steel Rule Hard Chrome Finish with Magnet | ● | ● | | | ● | ● | | |
| Stainless Steel Rule Hard Chrome Finish 1 mm Dividing | ● | ● | | | ● | | ● | |
| Stainless Steel Rule Hard Chrome Finish Flex Ruler 15 mm Width | ● | ● | | | ● | ● | | |
| Stainless Steel Rule Mini | ● | ● | | | ● | | ● | |
| Molding Rule | ● | | ● | | ● | | ● | |

■Material less than 2 m: Stainless steel SUS420J2 Over 3 m: Stainless steel SUS304
SUS420J2 has a baked finish. SUS304 doesn't have a baked finish.
Length tolerance over 3 m: 3 m±0.5 mm, 4 m±0.65 mm, 5 m±0.8 mm, 6 m±0.95 mm
(SUS means Stainless Steel–rust-resistant. HV refers to Vickers Hardness –a unit for hardness.)

## Metal Rules Grade 1 of JIS B7516-2005 (abstract)

as of June, 2019

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Standard | Grade 1 of JIS B7516—2005 | | | | | | |
| Material | SUS420 J2 of JIS G 4305 or that equivalent or superior to this in quality | | | | | | |
| Hardness of Material | Hv400 min | | | | | | |
| Size  (Unit : mm) | Nominal Size | Overall Length (L) | | Thickness (T) | | Width (W) | |
| | | Size | Tolerance | Size | Tolerance | Size | Tolerance |
| | 150 | 175 | ±5 mm | 0.5 | ±10% | 15 | ±2% |
| | 300 | 335 | | 1.0 | | 25 | |
| | 600 | 640 | | 1.2 | | 30 | |
| | 1,000 | 1,050 | | 1.5 | | 35 | |
| | 1,500 | 1,565 | | 2.0 | | 40 | |
| | 2,000 | 2,065 | | 2.0 | | 40 | |
| Flatness of Scale Face | The scale face shall be flat to a level of no hindrance to measurements | | | | | | |
| Straightness of Scale Side Face (Unit : mm) | Nominal Size | Straightness | | Nominal Size | Straightness | | |
| | 150 | 0.23 max | | 1,000 | 0.40 max | | |
| | 300 | 0.26 max | | 1,500 | 0.50 max | | |
| | 600 | 0.32 max | | 2,000 | 0.60 max | | |
| Squareness of Scale End Face | The squareness of the scale end face of a rule in respect of its scale side shall be 0.035mm max per 10mm length of the end face | | | | | | |
| Tolerance of Length (Unit : mm) *Temperature at 20℃ | Length | | | Tolerance | | | |
| | 500 max | | | ±0.15 | | | |
| | over 500 - 1,000 max | | | ±0.20 | | | |
| | over 1,000 - 1,500 max | | | ±0.25 | | | |
| | over 1,500 - 2,000 max | | | ±0.30 | | | |

■All of our stainless steel rules that are compatible with Japanese Industrial Standard (JIS) under the specifications above display a JIS mark. Although some of our rules do not have the JIS mark displayed because they exceed JIS specifications due to unusual graduations, shapes, or sizes, all of our products whether compatible or not have gone through strict product inspections based on the JIS specifications above to provide safe, high-quality products.

## Conversion table

| Items | Inch Conversion Chart (TAP DRILL WW.UNC) | Measurement Conversion Chart | | | |
|---|---|---|---|---|---|
| | | Length | Width | Weight | Volume |
| Hard Chrome Finish 15 cm | ● | | | | |
| 30 cm | ● | | | | |
| 60 cm | ● | | | | |
| 1 m | ● | | | | |
| Metric x Shaku 15 cm left | | ● | ● | | |
| 30 cm left | | ● | ● | | |
| 60 cm left | | ● | ● | ● | |
| 1 m left | | ● | ● | ● | ● |
| 1 m right | ● | | | | |
| Polish Finish 15 cm | ● | | | | |
| 30 cm | ● | | | | |
| 60 cm | ● | | | | |
| 1 m | ● | | | | |
| Pickup 10 cm | | ● | | | |
| 15 cm | | ● | ● | | |
| 30 cm | | ● | ● | | |
| 60cm | | ● | ● | ● | |
| 1m | | ● | ● | ● | ● |
| With Scale Stopper 15 cm | ● | | | | |
| 30 cm | ● | | | | |
| 1mm Dividing 15 cm | ● | | | | |
| 30 cm | ● | | | | |
| 60 cm | ● | | | | |
| 1 m | ● | | | | |
| Mini 15 cm | ● | | | | |

JIS JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge
Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

# Machine Scale

●14130 200 mm Upper-left Reference Point

●14137 200 mm Upper-right Reference Point

●14142 200 mm Upper-central Reference Point

●14149 200 mm Lower-left Reference Point

●14156 200 mm Lower-right Reference Point

●14161 200 mm Lower-central Reference Point

●14165 Indicator Plate

### Features

●Hard chrome finish (matte processed) to prevent glare and make graduation easy to see

●Can be installed on equipment to facilitate adjustments by graduation and size confirmation during processing, etc.

*For installation separate double-sided tape or an adhesive will be necessary. We can make holes for screw-fastening. (Please see the table below.)

### Use

●For attaching to machines

### Specifications

| | |
|---|---|
| Precision | The precision is based on "Metal Rules Grade 1 of JIS" from page (35) |
| Material | Stainless steel |
| Body Size | Machine Scale 15×0.5 mm<br>Indicator Plate 20×15×0.5 mm |

## Without Holes

| Graduation | Item Code | Description |
|---|---|---|
| ① Upper left | 14127 | 50 mm |
| | 14128 | 100 mm |
| | 14129 | 150 mm |
| | 14130 | 200 mm |
| | 14131 | 300 mm |
| | 14132 | 500 mm |
| ② Upper right | 14134 | 50 mm |
| | 14135 | 100 mm |
| | 14136 | 150 mm |
| | 14137 | 200 mm |
| | 14138 | 300 mm |
| | 14139 | 500 mm |
| ③ Upper central | 14141 | 100 mm |
| | 14142 | 200 mm |
| | 14143 | 300 mm |
| | 14144 | 500 mm |

| Graduation | Item Code | Description |
|---|---|---|
| ④ Lower left | 14146 | 50 mm |
| | 14147 | 100 mm |
| | 14148 | 150 mm |
| | 14149 | 200 mm |
| | 14150 | 300 mm |
| | 14151 | 500 mm |
| ⑤ Lower right | 14153 | 50 mm |
| | 14154 | 100 mm |
| | 14155 | 150 mm |
| | 14156 | 200 mm |
| | 14157 | 300 mm |
| | 14158 | 500 mm |
| ⑥ Lower central | 14160 | 100 mm |
| | 14161 | 200 mm |
| | 14162 | 300 mm |
| | 14163 | 500 mm |

### ■Indicator Plate

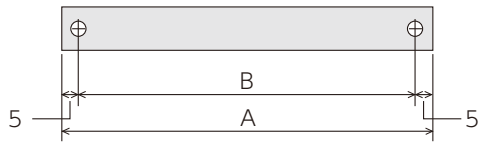
| Item Code | Description |
|---|---|
| 14165 | Indicator Plate for Machine Scale |

## Hole Making Fee (made-to-order)

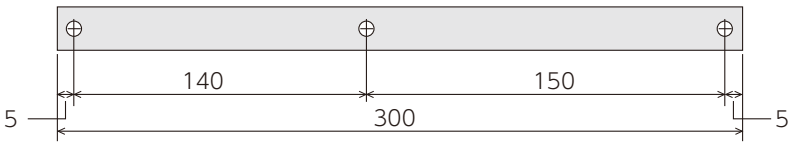
Please ask us about our fees for hole-making. Hole positions are as shown in the figure below.

## Hole Positions (hole diameter 3.5 mm)

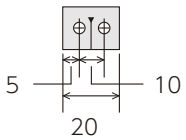
**Less than 200 mm** A=Size B=Location of hole



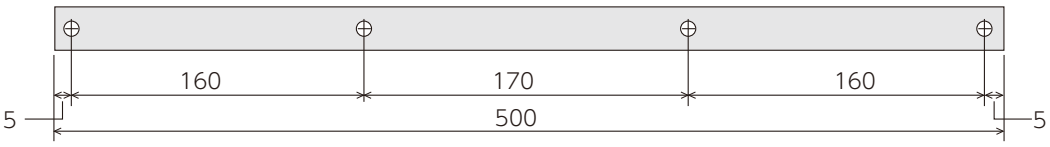

**300 mm**




**Indicator Plate**

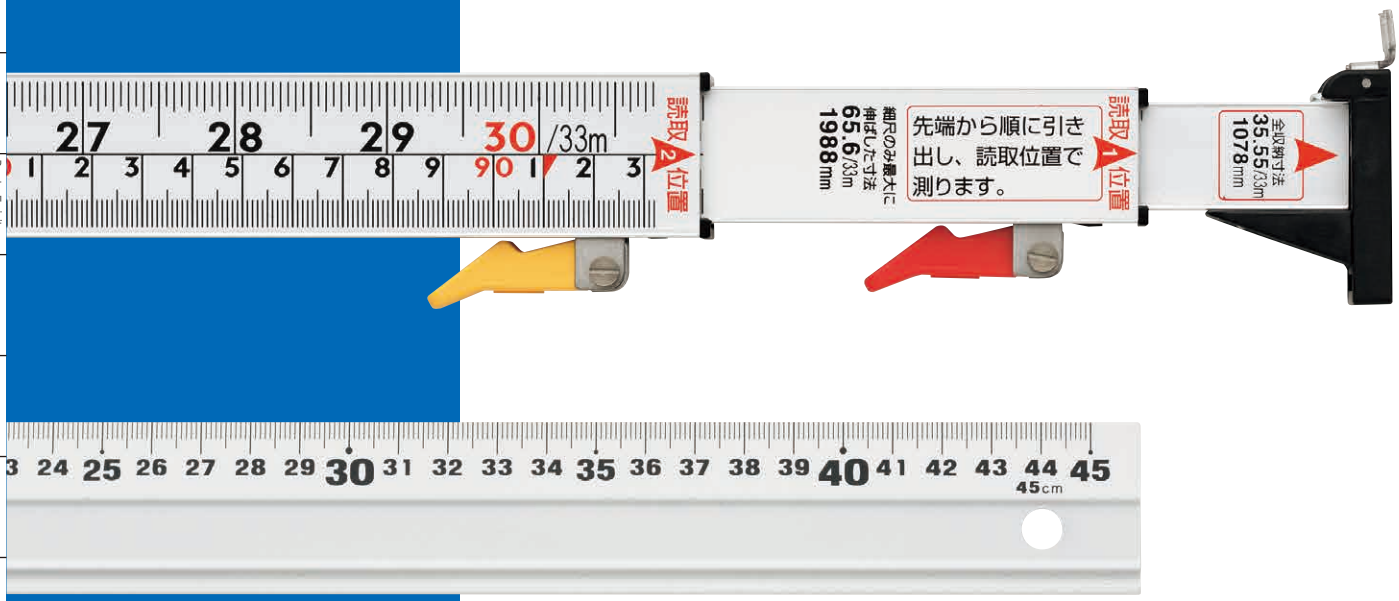



**500 mm**




JIS JIS mark With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

# 3. Aluminum Rules




Packaging: Shrink package, Sleeve package, Box, Bag, Vinyl package + header card, Clear package, Card, Vinyl package, No package

Since aluminum can be elastic due to change in temperatures, please do not use it for precisions other than the shown tolerance. Based on the temperature 20℃, a 10℃ change generates 0.235 mm expansion or contraction per 1 m.

## Aluminum Rule Rigid

| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65340 | 30 cm | 310×35×5 | 90 | 4 960910 653405 | 20 | V |
| 65363 | 45 cm | 460×35×5 | 130 | 4 960910 653634 | | |
| 65378 | 60 cm | 610×35×5 | 180 | 4 960910 653788 | | |
| 65387 | 1 m | 1,010×35×5 | 300 | 4 960910 653870 | 10 | |

### Features

- Tough aluminum rules with 50% more aluminum materials than the conventional model
- Bold, easy-to-read graduations
- Light, durable, rust-resistant
- Accessory: Cork strip with adhesive tape

to tape on the back if necessary

- Edge prevents ink from running off

### Use

- For measuring the length, drawing lines, and cutting

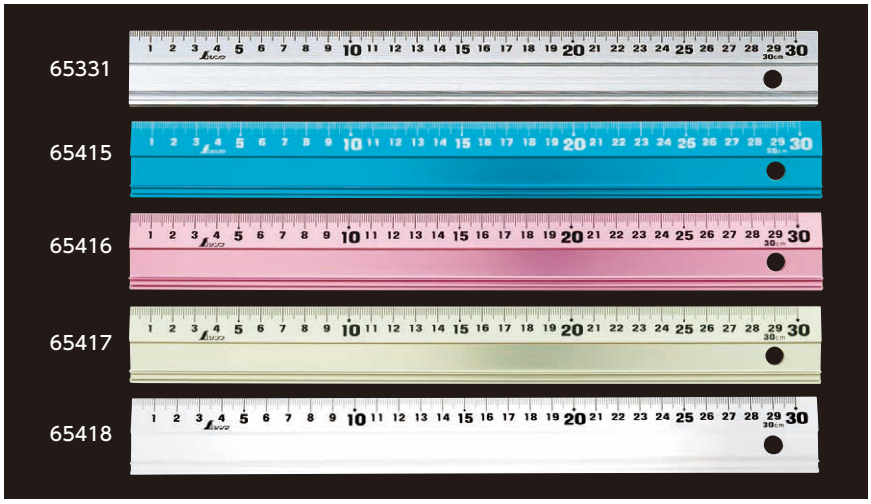
### Specifications

| | 65340 | 65363 | 65378 | 65387 |
|---|---|---|---|---|
| Length Tolerance | ±0.20 mm | ±0.25 mm | ±0.28 mm | ±0.40 mm |
| Material | Aluminum | | | |

*Length tolerance is the accuracy measured at normal temperature.

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Aluminum Rule with Non-slip Pad



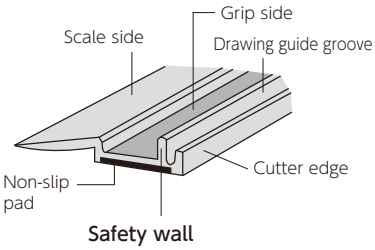

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65331 | 30 cm | 310×35×5 | 52 | 4 960910 653313 | 20 | V |
| 65415 | 30 cm Blue | 310×35×5 | 52 | 4 960910 654150 | | |
| 65416 | 30 cm Pink | 310×35×5 | 52 | 4 960910 654167 | | |
| 65417 | 30 cm Gold | 310×35×5 | 52 | 4 960910 654174 | | |
| 65418 | 30 cm White | 310×35×5 | 55 | 4 960910 654181 | | |
| 65358 | 45 cm | 460×35×5 | 79 | 4 960910 653580 | | |
| 65423 | 45 cm Blue | 460×35×5 | 79 | 4 960910 654235 | | |
| 65424 | 45 cm Pink | 460×35×5 | 79 | 4 960910 654242 | | |
| 65425 | 45 cm Gold | 460×35×5 | 79 | 4 960910 654259 | | |
| 65426 | 45 cm White | 460×35×5 | 85 | 4 960910 654266 | | |
| 65374 | 60 cm | 610×35×5 | 106 | 4 960910 653740 | | |
| 65434 | 60 cm Blue | 610×35×5 | 106 | 4 960910 654341 | | |
| 65435 | 60 cm Pink | 610×35×5 | 106 | 4 960910 654358 | | |
| 65436 | 60 cm Gold | 610×35×5 | 106 | 4 960910 654365 | | |
| 65437 | 60 cm White | 610×35×5 | 115 | 4 960910 654372 | | |
| 65382 | 1 m | 1,010×35×5 | 173 | 4 960910 653825 | 10 | |
| 65442 | 1 m Blue | 1,010×35×5 | 173 | 4 960910 654426 | | |
| 65443 | 1 m Pink | 1,010×35×5 | 173 | 4 960910 654433 | | |
| 65444 | 1 m Gold | 1,010×35×5 | 173 | 4 960910 654440 | | |
| 65445 | 1 m White | 1,010×35×5 | 190 | 4 960910 654457 | | |

## Aluminum Rule

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65498 | 15 cm | 160×35×5 | 28 | 4 960910 654983 | 20 | V |
| 65501 | 30 cm | 310×35×5 | 51 | 4 960910 655010 | | |
| 65528 | 45 cm | 460×35×5 | 76 | 4 960910 655287 | | |
| 65536 | 60 cm | 610×35×5 | 102 | 4 960910 655362 | | |
| 65544 | 1 m | 1,010×35×5 | 169 | 4 960910 655447 | 10 | |

### Features

- Bold, easy-to-read graduations
- Light, durable, rust-resistant
- Non-slip foam
- Choose your favorite color

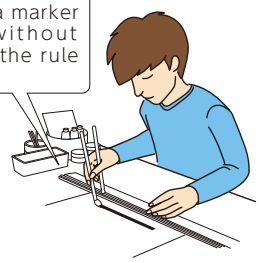



The safety wall is higher than the cutter edge to prevent a cutter from sliding over it.

### Use

- For measuring length, drawing lines, and cutting

**Drawing Guide Groove**
Use it when you want to draw a line by using a marker or pen without touching the rule directly.



Drawing guide is not included.

### Specifications

| | 65498 |
|---|---|
| Length Tolerance* | ±0.16 mm |
| Material | Main Part: Aluminum |

| | 65331 | 65415 | 65416 | 65417 | 65418 | 65501 |
|---|---|---|---|---|---|---|
| Length Tolerance* | ±0.20 mm | | | | | |
| Material | Main Part: Aluminum | | | | | |

| | 65358 | 65423 | 65424 | 65425 | 65426 | 65528 |
|---|---|---|---|---|---|---|
| Length Tolerance* | ±0.25 mm | | | | | |
| Material | Main Part: Aluminum | | | | | |

| | 65374 | 65434 | 65435 | 65436 | 65437 | 65536 |
|---|---|---|---|---|---|---|
| Length Tolerance* | ±0.28 mm | | | | | |
| Material | Main Part: Aluminum | | | | | |

| | 65382 | 65442 | 65443 | 65444 | 65445 | 65544 |
|---|---|---|---|---|---|---|
| Length Tolerance* | ±0.40 mm | | | | | |
| Material | Main Part: Aluminum | | | | | |

*Length tolerance is the accuracy when measured at normal temperature.

Back (non-slip pad)

## Aluminum Cutting Rule PROTECT

65065

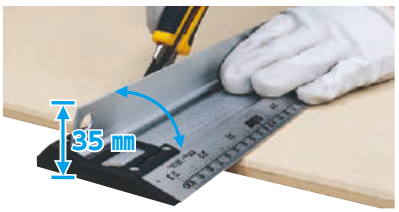
65066

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65065 | 70 cm/shaku (cm/shaku, SHP) | 720×80×15 | 650 | 4 960910 650657 | 2 | V |
| 65066 | 1 m/shaku (cm/shaku, SHP) | 1,020×80×15 | 920 | 4 960910 650664 | | |
| 65067 | 1.25 m/shaku (cm/shaku, SHP) | 1,270×80×15 | 1,150 | 4 960910 650671 | | |
| 65068 | 2 m/shaku (cm/shaku, SHP) | 2,030×80×15 | 1,800 | 4 960910 650688 | | |

Refer to P. 2 about the shaku scale

### Features

- Protector folds for easy carrying and storage
- 30 mm tall wall (35 mm from cutting surface) protects your hands
- Stainless steel edges prevent damage from a cutting blade
- Side cap protects materials from being scratched




### Use

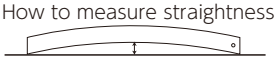
- For measuring length, drawing lines, cutting, guiding a circular saw

### Specifications

| | 65065 | 65066 | 65067 | 65068 |
|---|---|---|---|---|
| Length Tolerance | ±0.51 mm | ±0.60 mm | ±0.68 mm | ±0.90 mm |
| Straightness Tolerance | Below 0.34 mm | Below 0.4 mm | Below 0.45 mm | Below 0.6 mm |
| Material | Main Part: Aluminum Edge: Stainless steel Side-cap: Polyacetal resin Stopper: Rubber | | | |

*Length tolerance is the accuracy when measured at normal temperature.
*Straightness tolerance is the warpage of the sides.

How to measure straightness



## Aluminum Cutting Rule EX

65030

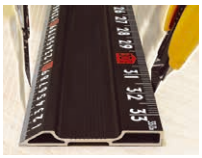
65032

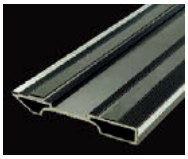
| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65030 | 60 cm/shaku (shaku/cm, SHP, Red) | 625×88×11 | 500 | 4 960910 650305 | 2 | V |
| 65032 | 1 m/shaku (shaku/cm, SHP, Red) | 1,020×88×11 | 800 | 4 960910 650329 | | |
| 65034 | 1.5 m/shaku (shaku/cm, SHP, Red) | 1,535×88×11 | 1,240 | 4 960910 650343 | | |
| 65036 | 2 m/shaku (shaku/cm, SHP, Red) | 2,020×88×11 | 1,580 | 4 960910 650367 | | |
| 65038 | 2.5 m/shaku (shaku/cm, SHP, Red) | 2,540×88×11 | 1,990 | 4 960910 650381 | 1 | |

Refer to P. 2 about the shaku scale

### Features

- Stainless steel edges prevent damage from a cutting blade





- Fully-covered rubber stopper
- Elastomer resin handle makes it easy to hold (models with handle)

- Suitable for carpentry using shaku graduations
- Double-left Reference Point Model: When either the shaku or cm scale is on the upper level, that graduation's reference point reads from the left side edge
- Light, durable, rust-resistant
- Bold, easy-to-read graduations

### Use

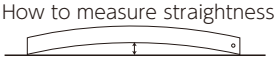
- For measuring length, drawing lines, and cutting
- For guiding a circular saw (without handle)

### Specifications

| | 65030 65031 | 65032 65033 | 65034 65035 | 65036 65037 | 65038 |
|---|---|---|---|---|---|
| Length Tolerance | ±0.28 mm | ±0.40 mm | ±0.55 mm | ±0.70 mm | ±0.80 mm |
| Straightness Tolerance | Below 0.32 mm | Below 0.4 mm | Below 0.5 mm | Below 0.6 mm | Below 0.7 mm |
| Material | Main Part: Aluminum Edge: Stainless steel Handle: ABS resin, elastomer resin Stopper: Rubber | | | | |

*Length tolerance is the accuracy when measured at normal temperature.
*Straightness tolerance is the warpage of the sides.

How to measure straightness



## Aluminum Cutting Rule EX with Handle

65033

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65031 | 60 cm/shaku (shaku/cm, SHP, Red) | 625×88×68 | 650 | 4 960910 650312 | 2 | V |
| 65033 | 1 m/shaku (shaku/cm, SHP, Red) | 1,020×88×68 | 950 | 4 960910 650336 | | |
| 65035 | 1.5 m/shaku (shaku/cm, SHP, Red) | 1,535×88×68 | 1,390 | 4 960910 650350 | 1 | |
| 65037 | 2 m/shaku (shaku/cm, SHP, Red) | 2,020×88×68 | 1,730 | 4 960910 650374 | | |

Refer to P. 2 about the shaku scale

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Aluminum Cutting Rule

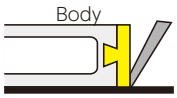
33421

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65086 | 60 cm/shaku | 625×60×9 | 370 | 4 960910 650862 | 5 | V |
| 65088 | 1 m/shaku Left Reference Point | 1,020×60×9 | 579 | 4 960910 650886 | | |
| 65090 | 1 m/shaku | 1,020×60×9 | 579 | 4 960910 650909 | | |
| 33421 | 1 m | 1,020×60×9 | 579 | 4 960910 334212 | | |
| 65094 | 1.5 m/shaku | 1,535×60×9 | 912 | 4 960910 650947 | | |
| 65091 | 2 m/shaku | 2,020×60×9 | 1,250 | 4 960910 650916 | 1 | |
| 33422 | 2 m | 2,020×60×9 | 1,250 | 4 960910 334229 | 5 | |
| 65092 | 2.5 m/shaku | 2,540×60×9 | 1,560 | 4 960910 650923 | 1 | |

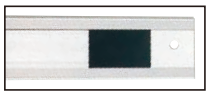
Refer to P. 2 about the shaku scale

### Features

- Stainless steel edges prevent damage from a cutting blade



- Rubber stopper on the back helps to position the rule better



- Unique shaped handle makes it easy to hold. (with Handle model)
- Suitable for carpentry using with shaku graduations
- Double-left Reference Point model: When either the shaku or cm scale is on the upper level, that graduation's reference point reads from the left side edge. (Item code 65088 is a Left Reference Point model that reads from the left side edge for both shaku [upper graduation] and cm [lower graduation].)
- Bold, easy-to-read graduations
- Light, durable, rust-resistant

### Use

- For measuring length, drawing lines, and cutting
- For guiding a circular saw (without handle)

### Specifications

| | 65086 65098 | 65088 65090 65093 33421 33423 | 65094 65096 | 65091 65097 33422 33424 | 65092 |
|---|---|---|---|---|---|
| Length Tolerance | ±0.28 mm | ±0.4 mm | ±0.55 mm | ±0.7 mm | ±0.8 mm |
| Straightness Tolerance | Below 0.32 mm | Below 0.4 mm | Below 0.5 mm | Below 0.6 mm | Below 0.7 mm |
| Graduations | 33421,33422,33423,33424 Scale Side: cm Cutter Side: cm<br>65088 Scale Side: shaku Cutter Side: cm<br>Others Scale Side: cm Cutter Side: shaku | | | | |
| Material | Main Part: Aluminum Edge: Stainless steel<br>Handle: ABS resin, elastomer resin<br>Stopper: Rubber | | | | |

*Length tolerance is the accuracy when measured at normal temperature.
*Straightness tolerance is the warpage of the sides.

How to measure straightness

## Aluminum Cutting Rule with Handle

33423

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65098 | 60 cm/shaku | 625×60×60 | 520 | 4 960910 650985 | 2 | V |
| 65093 | 1 m/shaku | 1,020×60×60 | 730 | 4 960910 650930 | | |
| 33423 | 1 m | 1,020×60×60 | 730 | 4 960910 334236 | | |
| 65096 | 1.5 m/shaku | 1,535×60×60 | 1,060 | 4 960910 650961 | 1 | |
| 65097 | 2 m/shaku | 2,020×60×60 | 1,400 | 4 960910 650978 | | |
| 33424 | 2 m | 2,020×60×60 | 1,400 | 4 960910 334243 | | |

Refer to P. 2 about the shaku scale

## Aluminum Cutting Rule Light

65076

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65075 | 1 m | 1,020×56×5.5 | 382 | 4 960910 650756 | 5 | V |
| 65076 | 1 m with Handle | 1,020×56×52 | 460 | 4 960910 650763 | 2 | |

### Features

- Lightweight design, easy-to-use for women
- Large and vivid numbered graduations
- Light, durable, rust-resistant
- With rubber stopper
- Stainless steel edges prevent damage from a cutting blade
- Narrower grip makes it easy to hold even with a small hand (with Handle model)

### Use

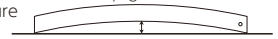
- For measuring length, cutting
- For pasting wall paper

### Specifications

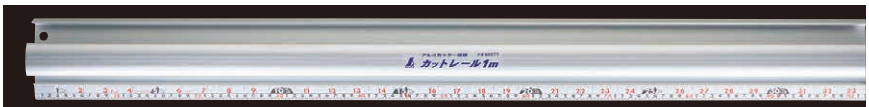
| | |
|---|---|
| Length Tolerance | ±0.4 mm |
| Straightness Tolerance | Below 0.4 mm |
| Material | Main Part: Aluminum Edge: Stainless steel<br>Handle: ABS resin Stopper: Rubber |

*Length tolerance is the accuracy when measured at normal temperature.
*Straightness tolerance is the warpage of the sides.

How to measure straightness



## Cut Rail



65077

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65077 | 1 m/shaku | 1,020×100×50 | 1,600 | 4 960910 650770 | 1 | B |
| 65078 | 2 m/shaku | 2,020×100×50 | 3,000 | 4 960910 650787 | | |

Refer to P. 2 about the shaku scale

### Features

- Aluminum cutting rule with safety features
- Safety wall prevents blade from sliding over

### Use

- For measuring length, drawing lines, and cutting

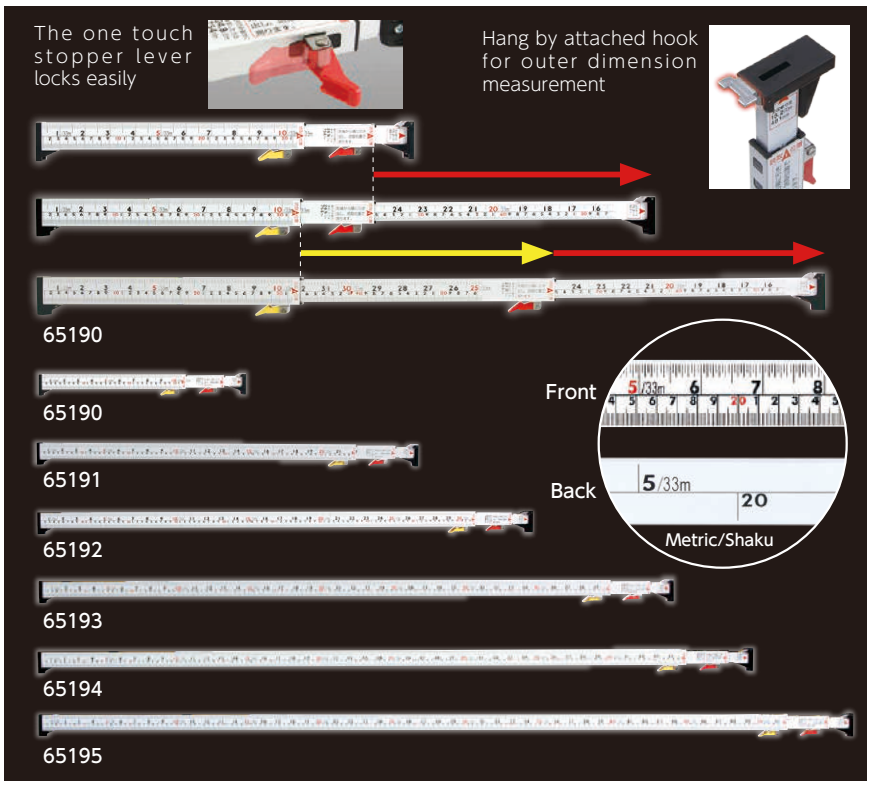
### Specifications

| | 65077 | 65078 |
|---|---|---|
| Length Tolerance | ±0.4 mm | ±0.7 mm |
| Straightness Tolerance | Below 0.45 mm | Below 0.60 mm |
| Material | Main Part: Aluminum Edge: Stainless steel<br>Stopper: Rubber | |

*Length tolerance is the accuracy when measured at normal temperature.
*Straightness tolerance is the warpage of the sides.

How to measure straightness

## Telescopic Measure One Direction Ⅱ




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65190 | A 3 shaku 2 sun shaku/cm Red | Width×Thickness 33×22 Tip end 47×23 | 300 | 4 960910 651906 | 5 | V |
| 65191 | AB 6 shaku 6 sun shaku/cm Red | Width×Thickness 33×22 Tip end 47×23 | 530 | 4 960910 651913 | | |
| 65192 | B 9 shaku 3 sun shaku/cm Red | Width×Thickness 33×22 Tip end 47×23 | 710 | 4 960910 651920 | | |
| 65193 | C 12 shaku shaku/cm Red | Width×Thickness 33×22 Tip end 47×23 | 890 | 4 960910 651937 | | |
| 65194 | D 13 shaku 5 sun shaku/cm Red | Width×Thickness 33×22 Tip end 47×23 | 990 | 4 960910 651944 | | |
| 65195 | E 15 shaku 5 sun shaku/cm Red | Width×Thickness 33×22 Tip end 47×23 | 1,120 | 4 960910 651951 | | |

Refer to P. 2 about the shaku scale

### Features

- Expands three times in length and can be read off at hand. Easy one-person use.
- Plastic end will not scratch walls and ceilings
- Hang by attached hook for outer dimension measurement
- Bold, easy-to-read graduations
- Ideal for measuring ceiling height without switching hands
- One-touch stopper lever adopted to significantly improve durability and ease of locking
- Tape at the back can be used for marking and notes
- Large caps on both ends and graduation close to the edges are convenient for scribing

### Use

- For interior finish work, installment of fittings, doors, stair works, plumbing work, masonry work, etc.
- A, AB types: For inner dimension measurement of areas with closet storage space, floor cupboards, and crown molding
- B, C, D, E types: For shaku measures and ken measures

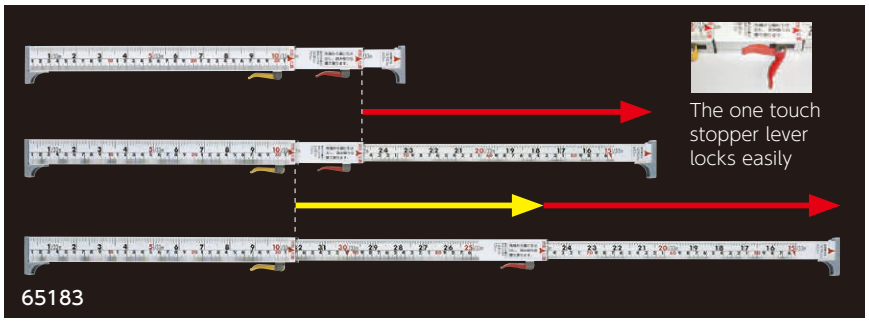
### Specifications

| | 65190 | 65191 | 65192 |
|---|---|---|---|
| Length Tolerance | ±1.0 mm up to 2 m, ±0.5 mm/m over 2 m | | |
| Measuring Range | 461 mm (1 shaku 5 sun 2 bu) – 970 mm (3 shaku 2 sun) | 810 mm (2 shaku 6 sun 7 bu) – 2,017 mm (6 shaku 6 sun 6 bu) | 1,078 mm (3 shaku 5 sun 6 bu) – 2,821 mm (9 shaku 3 sun 1 bu) |
| Material | Tip End: ABS resin Main Body: Aluminum Stopper Lever: Polycarbonate resin Joint Part: Polyacetal resin Hook for Outer Dimension Measurement: Stainless steel | | |

| | 65193 | 65194 | 65195 |
|---|---|---|---|
| Length Tolerance | ±1.0 mm up to 2 m, ±0.5 mm/m over 2 m | | |
| Measuring Range | 1,351 mm (4 shaku 4 sun 6 bu) – 3,640 mm (12 shaku 1 bu) | 1,502 mm (4 shaku 9 sun 5 bu) – 4,093 mm (13 shaku 5 sun 1 bu) | 1,704 mm (5 shaku 6 sun 2 bu) – 4,699 mm (15 shaku 5 sun 1 bu) |
| Material | Tip End: ABS resin Main Body: Aluminum Stopper Lever: Polycarbonate resin Joint Part: Polyacetal resin Hook for Outer Dimension Measurement: Stainless steel | | |

*Length tolerance is the accuracy when measured at normal temperature.

## Telescopic Measure One Direction [Metric/Shaku]




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65183 | A 3 shaku 2 sun shaku/cm Red | Width×Thickness 30×19 Tip end 45×19 | 270 | 4 960910 651838 | 5 | V |
| 65184 | AB 6 shaku 3 sun shaku/cm Red | Width×Thickness 30×19 Tip end 45×19 | 470 | 4 960910 651845 | | |
| 65185 | B 9 shaku 3 sun shaku/cm Red | Width×Thickness 30×19 Tip end 45×19 | 660 | 4 960910 651852 | | |
| 65186 | C 12 shaku shaku/cm Red | Width×Thickness 30×19 Tip end 45×19 | 830 | 4 960910 651869 | | |
| 65187 | D 13 shaku 5 sun shaku/cm Red | Width×Thickness 30×19 Tip end 45×19 | 920 | 4 960910 651876 | | |
| 65188 | E 15 shaku 5 sun shaku/cm Red | Width×Thickness 30×19 Tip end 45×19 | 1,050 | 4 960910 651883 | | |

Refer to P. 2 about the shaku scale

### Features

- Expands three times in length and can be read off at hand. Easy one-person use.
- Ideal for measuring ceiling height without switching hands
- One-touch stopper lever for efficient operation
- Tape at the back can be used for marking and notes

### Use

- For interior finish work, installment of fittings, doors, stair work, plumbing work, masonry work, etc.
- A, AB types: For inner dimension measurement of areas with closet storage space, floor cupboards, and crown molding
- B, C, D, E types: For shaku measures and ken measures

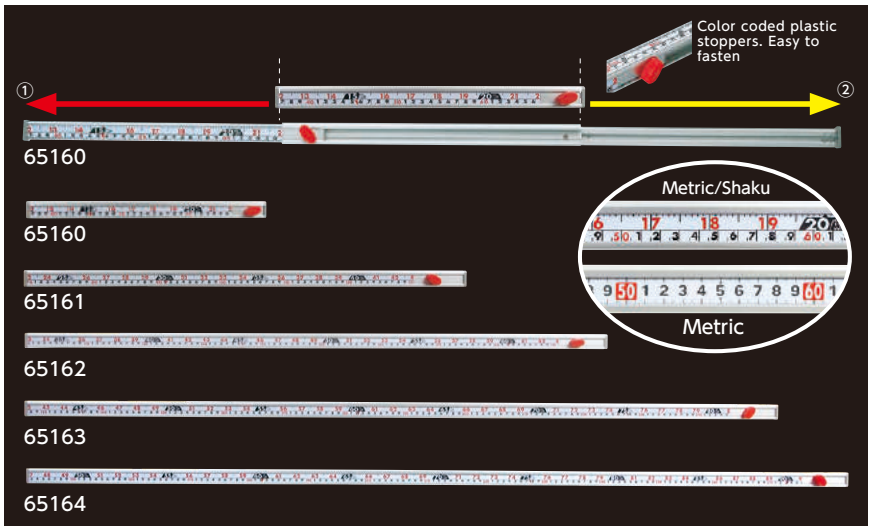
### Specifications

| | 65183 | 65184 | 65185 | 65186 | 65187 | 65188 |
|---|---|---|---|---|---|---|
| Length Tolerance | ±0.5 mm up to 1 m, ±0.5 mm/m over 1 m | | | | | |
| Measuring Range | 45.5 cm (1 shaku 5 sun) – 97.0 cm (3 shaku 2 sun) | 77.3 cm (2 shaku 5 sun 5 bu) – 190.9 cm (6 shaku 3 sun) | 107.6 cm (3 shaku 5 sun 5 bu) – 281.8 cm (9 shaku 3 sun) | 134.8 cm (4 shaku 4 sun 5 bu) – 363.6 cm (12 shaku) | 150.0 cm (4 shaku 9 sun 5 bu) – 409.1 cm (13 shaku 5 sun) | 169.5 cm (5 shaku 5 sun 9 bu) – 469.7 cm (15 shaku 5 sun) |
| Material | Main Part: Aluminum Stopper Lever: ABS resin | | | | | |

*Length tolerance is the accuracy when measured at normal temperature.

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Telescopic Measure Two Directions [Metric/Shaku]




| Item Code | Description of Product | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65160 | A 3 shaku 2 sun shaku/cm Red | Width×Thickness 26×17 Tip end 26×17 | 230 | 4 960910 651609 | 5 | V |
| 65161 | AB 6 shaku 3 sun shaku/cm Red | Width×Thickness 26×17 Tip end 26×17 | 410 | 4 960910 651616 | | |
| 65162 | B 9 shaku 3 sun shaku/cm Red | Width×Thickness 26×17 Tip end 26×17 | 560 | 4 960910 651623 | | |
| 65163 | C 12 shaku shaku/cm Red | Width×Thickness 26×17 Tip end 26×17 | 700 | 4 960910 651630 | | |
| 65164 | D 13 shaku 5 sun shaku/cm Red | Width×Thickness 26×17 Tip end 26×17 | 800 | 4 960910 651647 | | |

Refer to P. 2 about the shaku scale

### Features

- Expands three times in length and can be read off at hand. Easy one-person use.
- Plastic end will not scratch walls and ceilings
- Bold, easy-to-read graduations
- Center remains static as it expands in two directions. This makes it optimal particularly when extending the measure left and right for inner dimension measurement.

### Use

- For interior finish work, installment of fittings, doors, stair work, plumbing work, masonry work, etc.
- A, AB types: For inner dimension measurement of areas with closet storage space, floor cupboards, and crown molding
- B, C, D, E types: For shaku measures and ken measures

### Specifications

| | 65160 | 65161 | 65162 | 65163 | 65164 |
|---|---|---|---|---|---|
| Length Tolerance | ±0.4 mm | ±0.6 mm | ±0.8 mm | ±0.9 mm | ±1.0 mm |
| Measuring Range | 36.4 cm (1 shaku 2 sun) – 97.0 cm (3 shaku 2 sun) | 69.7 cm (2 shaku 3 sun) – 190.9 cm (6 shaku 3 sun) | 100.0 cm (3 shaku 3 sun) – 281.8 cm (9 shaku 3 sun) | 127.3 cm (4 shaku 2 sun) – 363.7 cm (12 shaku) | 142.4 cm (4 shaku 7 sun) – 409.1 cm (13 shaku 5 sun) |
| Material | Main Part: Aluminum Tape: Steel Stopper Screw: Polycarbonate resin | | | | |

## Telescopic Measure Two Directions [Metric]

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65107 | A 95 cm Red | Width×Thickness 26×17 Tip end 26×17 | 230 | 4 960910 651074 | 5 | V |
| 65108 | AB 190 cm Red | Width×Thickness 26×17 Tip end 26×17 | 410 | 4 960910 651081 | | |
| 65109 | B 280 cm Red | Width×Thickness 26×17 Tip end 26×17 | 560 | 4 960910 651098 | | |
| 65105 | C 360 cm Red | Width×Thickness 26×17 Tip end 26×17 | 700 | 4 960910 651050 | | |
| 65106 | D 400 cm Red | Width×Thickness 26×17 Tip end 26×17 | 800 | 4 960910 651067 | | |

### Specifications

| | 65107 | 65108 | 65109 | 65105 | 65106 |
|---|---|---|---|---|---|
| Length Tolerance | ±0.4 mm | ±0.6 mm | ±0.8 mm | ±0.9 mm | ±1.0 mm |
| Measuring Range | 36.4 cm – 97.0 cm | 69.7 cm – 190.9 cm | 100.0 cm – 281.8 cm | 127.3 cm – 363.7 cm | 142.4 cm – 409.1 cm |
| Material | Main Part: Aluminum Tape: Steel Stopper Screw: Polycarbonate resin | | | | |

*Length tolerance is the accuracy when measured at normal temperature.

## Shaku Measure

| | 65132 | 65133 |
|---|---|---|
| 1st Side | Metric graduation (1 mm pitch) + Shaku graduation (5 rin pitch) | |
| 2nd Side | Shaku graduation (5 sun pitch) | |
| 3rd Side | Stud (1 shaku 5 sun pitch) | Stud (1 shaku 6 sun 2 bu 5 rin pitch) |
| 4th Side | This side lets you write down graduations with a pencil | |

| Item Code | Description | Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65132 | 12 shaku shaku/cm | 23×19 | 950 | 4 960910 651326 | 1 | B |
| 65133 | 13 shaku 5 sun shaku/cm | 23×19 | 1,050 | 4 960910 651333 | | |

Refer to P. 2 about the shaku scale

### Features

- Tough aluminum product. Unlike wooden products, it will not warp under wet conditions.
- Having metric and shaku graduations reduces measurement errors
- Easy-to-read and fade-resistant graduations
- Graduations on all four sides
- Comes apart for better portability. Locks easily by sliding back together.
- Rubber caps on both ends prevent scratching
- Includes a tough nylon carry case

### Use

- As shaku measure for laying out foundations
- As a template to make a disposable shaku measure stick

### Specifications

| | 65132 | 65133 |
|---|---|---|
| Length (split) | 3,680 (1,840) mm | 4,120 (2,060) mm |
| Length Tolerance | −0.8 - +1.3 mm | |
| Straightness Tolerance | Within 3 mm | Within 3.4 mm |
| Material | Main Part: Aluminum Edge: Rubber | |

## Ken Measure

65180

| | |
|---|---|
| 1st Side | Metric graduation (1 mm pitch) + Shaku graduation (5 rin pitch) |
| 2/3/4nd Side | This side lets you write down graduations with a pencil |

| Item Code | Description | Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65180 | 12 shaku (shaku/cm) | 23×19 | 950 | 4 960910 651807 | 1 | B |

Refer to P. 2 about the shaku scale

### Features

- Tough aluminum product. Unlike wooden products, it will not warp under wet conditions
- Having metric and shaku graduations reduces measurement errors
- Easy-to-read and fade-resistant graduations
  - Comes apart for better portability. Locks easily by sliding back together.
  - Rubber caps on both ends prevent scratching
  - Includes a tough nylon carry case

- Special tape is pasted on the third side for notes and markings

- Can be cleaned with thinner

### Use

- For carpenters Ideal for marking off pillars in the process of building a new house (For measurement of dimensions, pitches, dovetails, measurement for joining lumber, special pitches for studs 1shaku 2sun or 1m intervals, etc.)
- For roof tilers Ideal for marking intervals of crossbars on a rafter
- For construction workers Ideal for marking intervals for packing during installation of concrete boards or L-shape retaining walls

### Specifications

| | |
|---|---|
| Length (divided length) | 3,680 (1,940) mm |
| Length Tolerance | −0.8 - +1.3 mm |
| Straightness Tolerance | Within 3 mm (for total length) |
| Material | Main Part: Aluminum Edge: Rubber |

## Aluminum Box Beam Straight Measure

65260 65262 65264 65266

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 65260 | 135 cm | 1,350×60×20 | 990 | 4 960910 652606 | 1 | B |
| 65262 | 175 cm | 1,750×60×20 | 1,270 | 4 960910 652620 | | |
| 65264 | 195 cm | 1,950×60×20 | 1,430 | 4 960910 652644 | | |
| 65266 | 230 cm | 2,300×60×20 | 1,680 | 4 960910 652668 | | |

### Features

- High precision for accurate check of straightness in base alignment of window frames, door frames and walls, etc.

- Scale side is broad to enable stable measurement without wobble
- Writeable tape so measurements and marks can easily be erased

### Use

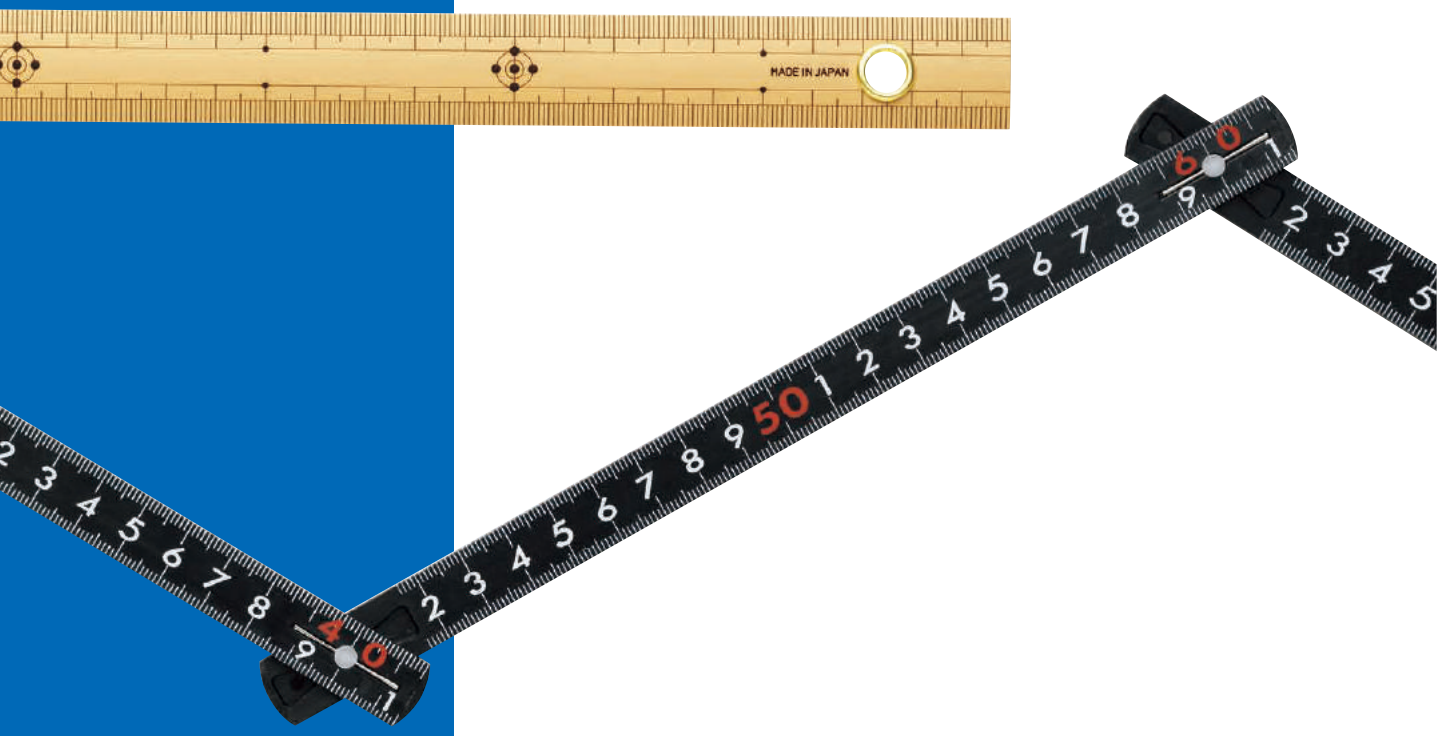
- For checking base alignment straightness of window frames, door frames and walls, etc.

### Specifications

| | 65260 | 65262 | 65264 | 65266 |
|---|---|---|---|---|
| Material | Main Part: Aluminum Side-cap: ABS resin | | | |
| Straightness Tolerance | Less than 0.30 mm | Less than 0.35 mm | Less than 0.40 mm | Less than 0.45 mm |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# 4. Resin Folding Rules/ Bamboo Rules

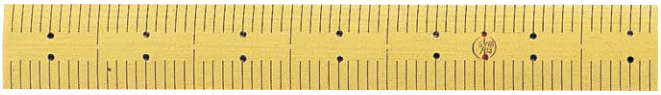



Packaging: Shrink package / Sleeve package / Box / Bag / Vinyl package + header card / Clear package / Card / Vinyl package / No package

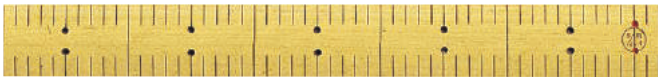
## Bamboo Rule

71760

71919



71854



| Item Code | Description | Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 71760 | 30 cm with Hole | 300×23×4 | 22 | 4 960910 717602 | 10 | [B] |
| 71765 | 50 cm with Hole | 500×23×4 | 42 | 4 960910 717657 | | |
| 71773 | 1 m with Hole | 1,000×28×4 | 91 | 4 960910 717732 | | |
| 71897 | Kane 1 shaku | 303×23×3 | 17 | 4 960910 718975 | | |
| 71900 | Kane 2 shaku | 606×23×4 | 45 | 4 960910 719002 | | |
| 71919 | Kane 3 shaku | 909×28×5 | 88 | 4 960910 719194 | | |
| 71854 | Kujira 2 shaku for Kimono | 758×23×4 | 57 | 4 960910 718548 | | |

Refer to P. 2 about the shaku scale

### Features

- Made of bamboo to fit in the hands
- 1 mm pitch for both upper and lower graduations (71760)

### Use

- Kane-shaku: For building work
- Kujira-shaku: For Japanese traditional dressmaking

### Specifications

| | |
|---|---|
| Length Tolerance | Less than 50 cm: ±0.5 mm<br>1 m: ±1 mm |
| Material | Bamboo |

### About the Graduations

**Kane-shaku**
The shaku of Kane-shaku was named after the brass-made scale in the Edo era. 1 shaku is equivalent to 8 sun of Kujira-shaku. (= 30.3 cm)

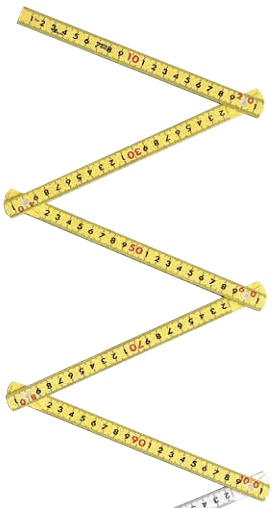
**Kujira-shaku**
It was originally made out of a barb of whale (Kujira). It is used for dressmaking.
1 shaku of Kujira shaku is defined as 1 shaku 2 sun 5 bu Kane - shaku.

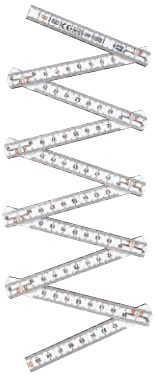
JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# Fiberglass Folding Rule

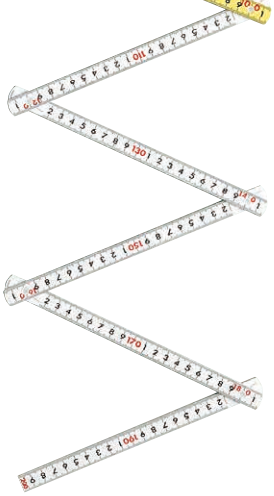
78625

78605




78606

78623


78833

78633

78705

78708

78841

78624

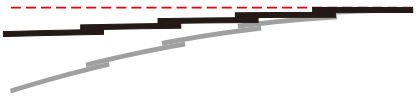
| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78625 | 5-folding 1 m Black NEW Red | 1,000×15×3.2 | 67 | 4 960910 786257 | 5 | SP |
| 78605 | 5-folding 1 m Red | 1,000×15×3.2 | 67 | 4 960910 786059 | | |
| 78606 | 10-folding 1 m Red | 1,000×13×2.2 | 44 | 4 960910 786066 | | |
| 78833 | 10-folding 2 m Red | 2,000×15×3.2 | 131 | 4 960910 788336 | | |
| 78633 | 5-folding 1 m Black in Bulk NEW Red | 1,000×15×3.2 | 67 | 4 960910 786332 | 20 | |
| 78705 | 5-folding 1 m in Bulk Red | 1,000×15×3.2 | 67 | 4 960910 787056 | | |
| 78708 | 10-folding 1 m in Bulk Red | 1,000×13×2.2 | 44 | 4 960910 787087 | 10 | |
| 78841 | 10-folding 2 m in Bulk Red | 2,000×15×3.2 | 131 | 4 960910 788411 | | |
| 78623 | 5-folding 1 m/shaku shaku/cm Red | 1,000×15×3.2 | 67 | 4 960910 786233 | 5 | SP |
| 78624 | 5-folding 1 m/shaku in Bulk shaku/cm Red | 1,000×15×3.2 | 67 | 4 960910 786240 | 20 | |

Refer to P. 2 about the shaku scale

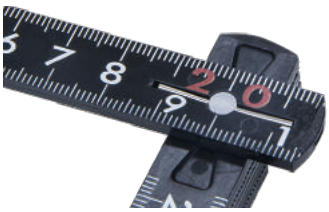
JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Features

- Highly durable, as moving parts can with stand folding 25,000 times with little wear and no reduction in performance
- Glass fiber has been combined into nylon resin to provide high rigidity and superior straightness



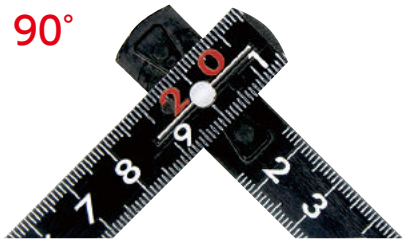
- Joints are wire-reinforced to stay securely fastened and be resistant to breaking or bending



- Nylon resin construction makes it resistant to rust

- Easy-to-read, large numbers
- Does not conduct electricity well, and will not conduct electricity up to about 11,000 V

- Click stops at 90 and 180 degrees



- Folds up for portability

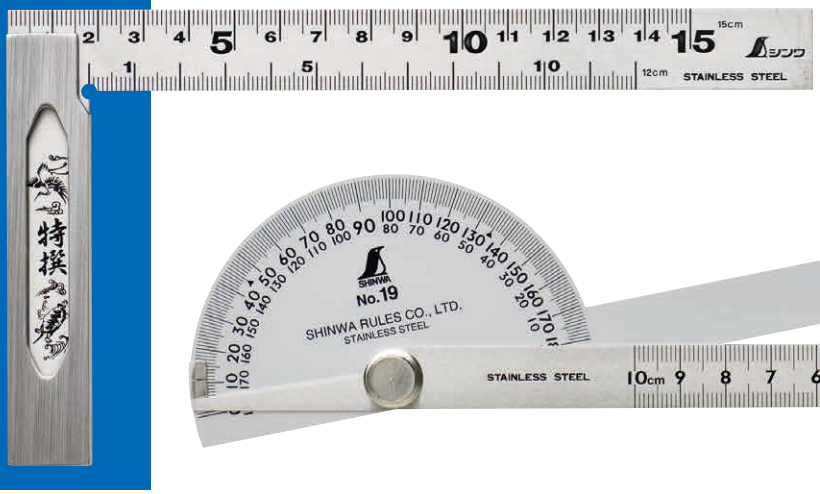
## Use

- For measuring length, drawing lines and boning rod measurement

## Specifications

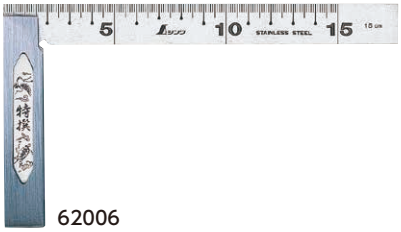
| | |
|---|---|
| Length Tolerance | 0 - 1,000 mm: ±1.0 mm<br>1,001 - 2,000 mm: ±1.4 mm |
| Material | Nylon resin with fiberglass |

# 5. Squares/Protractors

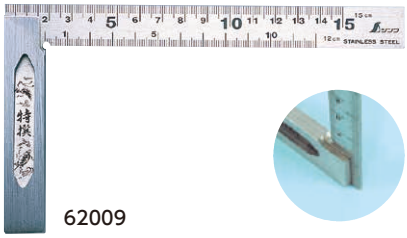


Packaging: Shrink package (S) / Sleeve package (SP) / Box (B) / Bag (B) / Vinyl package + header card (VH) / Clear package (C) / Card (C) / Vinyl package (V) / No package

## Japanese Try Square



62006



62009

| Item Code | Description | Base Length×Width×Thickness (mm) | Blade Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 62014 | 13 cm with Square Scale | 94×18×8 | 161×18×1.5 | 110 | 4 960910 620148 | 6 | V |
| 62006 | 15 cm with Square Scale | 94×18×8 | 177×18×1.5 | 114 | 4 960910 620063 | | |
| 62009 | 15 cm | 94×18×8 | 177×18×1.5 | 114 | 4 960910 620094 | | |

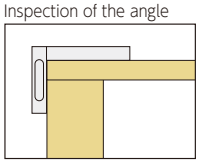
### Features

- 13 cm/15 cm with square scale can be used to work out the size of lumber you can cut from a log

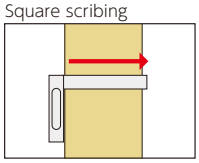
### Use

- For inspection of the right angle on material objects or products

Inspection of the angle



Square scribing



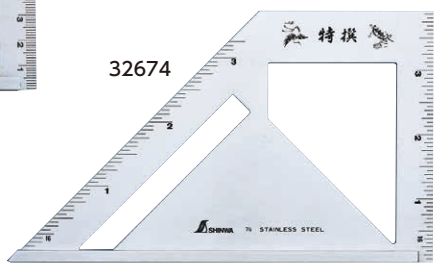
### Specifications

| | |
|---|---|
| Angle Tolerance | 90°: Less than 0.1 mm per 100 mm |
| Length Tolerance | ±0.3 mm |
| Material | Stainless steel |

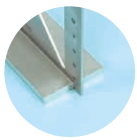
## Miter Rule 45°90°

62081

32674



62081/32674



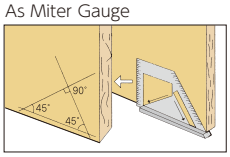
62189

| Item Code | Description | Base Length×Width×Thickness (mm) | Blade Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 62081 | Standard Model | 163×15×5 | 170×100×1.5 | 177 | 4 960910 620810 | 6 | SP |
| 32674 | Standard Model S-1462 Inch Graduations | 163×15×5 | 170×100×1.5 | 177 | 4 960910 326743 | | |
| 62189 | with 40 mm Wide Fence | 163×40×5 | 170×100×1.5 | 334 | 4 960910 621893 | | B |

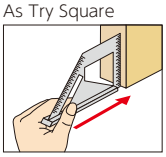
### Features

- Use as a Try Square and Miter Gauge
- Mark both left and right 45° angles with one side

As Miter Gauge




As Try Square



### Use

- For testing accuracy of 45 and 90-degree angles

### Specifications

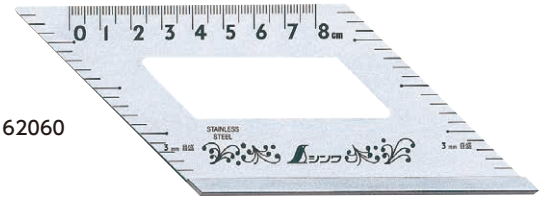
| | |
|---|---|
| Angle Tolerance | 45°: Less than 0.2 mm per 100 mm<br>90°: Less than 0.1 mm per 100 mm |
| Length Tolerance | ±0.3 mm |
| Material | Stainless steel |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

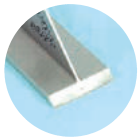
# Miter Rule 45°

62103

62060



62103
62060
62110



62162

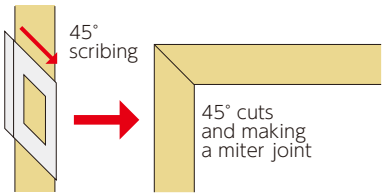
62110

## Features

- Helps check and scribe 45 degrees easily
- Four different types available: Standard, With Graduations, With Right Angle, and With 40 mm Plate

## Use

- For testing 45° angles, drawing lines, and scribing
- With Right Angle: Testing 90° angles, drawing lines, and scribing



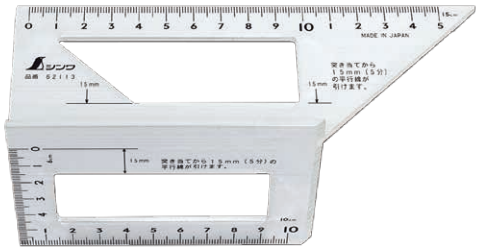

## Specifications

| | |
|---|---|
| Angle Tolerance | 45° and 90°: Less than 0.2 mm per 100 mm |
| Length Tolerance | ±0.3 mm |
| Material | Stainless steel |

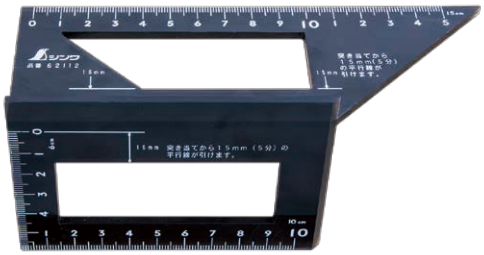
| Item Code | Description | Base Length×Width×Thickness (mm) | Blade Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 62103 | Standard Model | 115×15×5 | 172×62×1.5 | 119 | 4 960910 621039 | 12 | SP |
| 62060 | with Graduations | 115×15×5 | 172×62×1.5 | 119 | 4 960910 620605 | | |
| 62110 | with Right Angle | 115×15×5 | 172×62×1.5 | 133 | 4 960910 621107 | | |
| 62162 | with 40 mm Wide Fence | 116×40×6 | 172×62×1.5 | 251 | 4 960910 621626 | 6 | B |

# Miter Rule 3D 45°90°

62113



62112

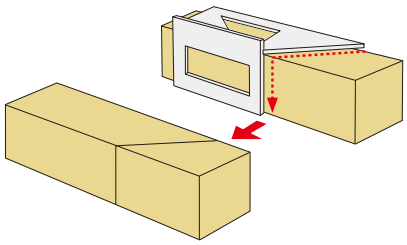


## Features

- Can confirm 45 and 90-degree angles at the same time, and is easy to use for scribing line
- Can draw a 15mm wide line necessary for areas such as a crown molding
- Excellent stability

## Use

- For testing precise 45 and 90-degree angles
- For marking the base layout of a 45-degree angle



## Specifications

| | 62113 | 62112 |
|---|---|---|
| Angle Tolerance | 45° and 90°: Less than 0.2 mm per 100 mm | |
| Length Tolerance | ±0.2 mm | |
| Material | Aluminum | Polycarbonate |

| Item Code | Description | Overall Length×Height×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 62113 | Aluminum | 168×63×73 | 90 | 4 960910 621138 | 6 | C |
| 62112 | Polycarbonate | 169×63×73 | 44 | 4 960910 621121 | | |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Miter Rule 3D 45°

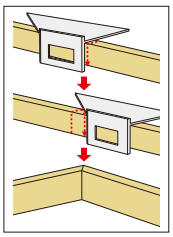
62114

| Item Code | Description | Overall Length×Height×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 62114 | Aluminum | 200×63×73 | 100 | 4 960910 621145 | 6 | Ⓒ |

**Features**

- Mark precise 45-degree angles both left and right just by sliding the Miter Rule. No need to reverse the gauge itself.
- Excellent stability
- Convenient to work on baseboard corners

**Use**



- For testing precise 45 and 90-degree angles
- For marking the base layout of a 45-degree angle

**Specifications**

| | |
|---|---|
| Angle Tolerance | 45° and 90°: Less than 0.2 mm per 100 mm |
| Length Tolerance | ±0.2 mm |
| Material | Aluminum |

## Sliding Bevel

33919

33921

| Item Code | Description | Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 33919 | SB-8 8" | 235×22×17 | 120 | 4 960910 339194 | 6 (60) | Ⓢ |
| 33921 | SB-10 10" | 285×25×17 | 160 | 4 960910 339217 | | |

**Features**

- Can be adjusted to any angle
- Lightweight and solid aluminum handle
- Fixing screw on the tail doesn't get in the way

**Use**

- Scribing and drawing of any angle
- For scribing dovetail or ink scribing

**Specifications**

| | |
|---|---|
| Material | Blade: Stainless steel Handle: Aluminum |

## Japanese Bevel

62502

| Item Code | Description | Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 62502 | 25 cm | 250(150)×15×2 | 91 | 4 960910 625020 | 12 | VH |
| 62510 | 30 cm | 300(180)×15×2 | 109 | 4 960910 625105 | | |
| 62529 | 45 cm | 450(300)×15×2 | 171 | 4 960910 625297 | 5 | |
| 62532 | 60 cm | 600(400)×15×2 | 235 | 4 960910 625327 | | |

**Features**

- Can be adjusted to any angle

**Use**

- Scribing and drawing of any angle

**Specifications**

| | |
|---|---|
| Material | Stainless steel |

## Japanese Sliding Bevel

62596

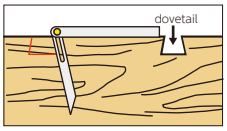
| Item Code | Description | Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 62588 | 15 cm | 180×14×5.5 | 111 | 4 960910 625884 | 12 | VH |
| 62596 | 25 cm | 250×19×5.5 | 202 | 4 960910 625969 | | |

**Features**

- Can be adjusted to any angle
- Sliding bevel can be fixed at any angle with screw stoppers

**Use**

- Scribing and drawing of any angle
- For scribing dovetail or ink scribing



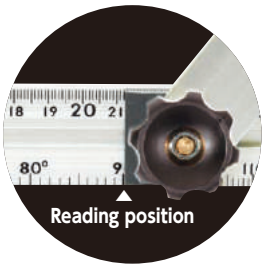

**Specifications**

| | |
|---|---|
| Material | Body: Stainless steel Screw: Brass |

# Aluminum Sliding Bevel

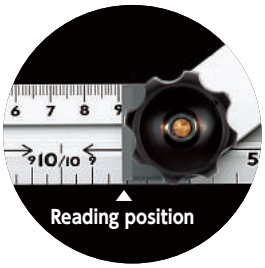
62661

Angle Graduation




62570

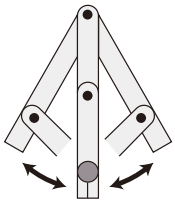
Gradient Graduation




62540

## Features

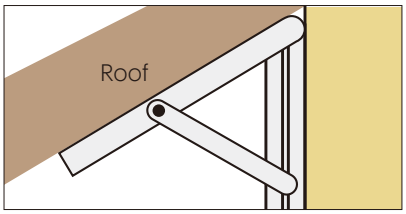
- Useful for checking angles on welded areas
- Blade can be on either side of the stock for symmetrical work
- Cross brace prevents any accidental change in angle
- Light aluminum material
- Thick blade can be used as a guide for a circular saw
- Angle scale is 1° pitch for 20° - 120°, and gradient scale is 1/10 pitch for 0 - 10
- Screw stopper easy to tighten and loosen



- Measured angles can be written on a specially installed tape with a pen or pencil. (An eraser works well on this if a pencil is used.)

## Use

- For scribing or copying an angle such as a roof's gradient
- After measuring the gradient, it can be used as a guide for a circular saw
- Model with graduation can be used to measure length as well




Scribing

As a circular saw guide

| Item Code | Description | Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 62660 | 30 cm with Angle Scale | 355×30×28 | 265 | 4 960910 626607 | 5 | VH |
| 62661 | 45 cm with Angle Scale | 505×30×28 | 380 | 4 960910 626614 | | |
| 62662 | 60 cm with Angle Scale | 655×30×28 | 480 | 4 960910 626621 | | |
| 62569 | 30 cm with Gradient Scale | 355×30×28 | 265 | 4 960910 625693 | | |
| 62570 | 45 cm with Gradient Scale | 505×30×28 | 380 | 4 960910 625709 | | |
| 62571 | 60 cm with Gradient Scale | 655×30×28 | 480 | 4 960910 625716 | | |
| 62572 | 90 cm with Gradient Scale | 955×30×28 | 680 | 4 960910 625723 | 1 | |
| 62573 | 1.2 m with Gradient Scale | 1,255×30×28 | 880 | 4 960910 625730 | | |
| 62540 | 45 cm without Scale | 505×30×28 | 380 | 4 960910 625402 | 5 | |
| 62541 | 60 cm without Scale | 655×30×28 | 480 | 4 960910 625419 | | |
| 62542 | 90 cm without Scale | 955×30×28 | 680 | 4 960910 625426 | 1 | |

## Specifications

| | 62660 | 62569 |
|---|---|---|
| Length Tolerance | ±0.3 mm | |
| Material | Body: Aluminum Screw: Polypropylene resin | |

| | 62661 | 62570 | 62540 |
|---|---|---|---|
| Length Tolerance | ±0.35 mm | | — |
| Material | Body: Aluminum Screw: Polypropylene resin | | |

| | 62662 | 62571 | 62541 |
|---|---|---|---|
| Length Tolerance | ±0.35 mm | | — |
| Material | Body: Aluminum Screw: Polypropylene resin | | |

| | 62572 | 62542 |
|---|---|---|
| Length Tolerance | ±0.4 mm | — |
| Material | Body: Aluminum Screw: Polypropylene resin | |

| | 62573 |
|---|---|
| Length Tolerance | ±0.4 mm |
| Material | Body: Aluminum Screw: Polypropylene resin |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Mini Try Square Brass Base

62020 62021 62022 62023

| Item Code | Description | Base Length×Width×Thickness (mm) | Blade Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 62020 | 4.5 cm | 35×12×6 | 45×11×1.5 | 26 | 4 960910 620209 | 12 | SP |
| 62021 | 6 cm | 40×12×6 | 60×11×1.5 | 30 | 4 960910 620216 | | |
| 62022 | 7.5 cm | 48×15×6 | 75×13×1.5 | 45 | 4 960910 620223 | | |
| 62023 | 9 cm | 55×15×6 | 90×13×1.5 | 53 | 4 960910 620230 | | |

### Features

- Ideal small square for personal use

### Use

- For testing a right angle and scribing

### Specifications

| | 62020 | 62021 | 62022 | 62023 |
|---|---|---|---|---|
| Angle Tolerance | Less than 0.04 mm per 45 mm | Less than 0.06 mm per 60 mm | Less than 0.07 mm per 75 mm | Less than 0.09 mm per 90 mm |
| Material | Base: Brass<br>Blade: Stainless steel | | | |

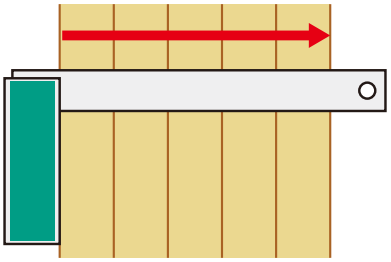
## Try Square Aluminum Base without Graduations

74110

| Item Code | Description | Base Length×Width×Thickness (mm) | Blade Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 74110 | 20 cm | 140×30×20 | 200×30×1.5 | 233 | 4 960910 741102 | 1 | B |
| 74111 | 25 cm | 140×30×20 | 250×30×1.5 | 249 | 4 960910 741119 | | |
| 74112 | 30 cm | 200×30×20 | 300×30×1.5 | 341 | 4 960910 741126 | | |
| 74113 | 35 cm | 200×30×20 | 350×30×1.5 | 357 | 4 960910 741133 | | |
| 74114 | 40 cm | 250×40×30 | 400×40×1.5 | 797 | 4 960910 741140 | | |
| 74115 | 45 cm | 250×40×30 | 450×40×1.5 | 825 | 4 960910 741157 | | |
| 74116 | 50 cm | 250×40×30 | 500×40×1.5 | 852 | 4 960910 741164 | | |
| 74117 | 60 cm | 300×40×30 | 600×40×1.5 | 1,015 | 4 960910 741171 | | |
| 74118 | 70 cm | 300×40×30 | 700×40×1.5 | 1,065 | 4 960910 741188 | | |
| 74119 | 90 cm | 450×40×30 | 900×40×2.0 | 1,395 | 4 960910 741195 | | |
| 74120 | 1 m | 450×40×30 | 1,000×40×2.0 | 1,404 | 4 960910 741201 | | |

### Features

- Ideal square for wood materials
- Variety of sizes from 20 cm to 1 m
- Long blade models come in handy to mark across multiple items
- Large base helps to test a right angle



### Use

- For testing a right angle and scribing

### Specifications

| | |
|---|---|
| Angle Tolerance | Less than 0.1 mm per 100 mm |
| Material | Base: Brass Blade: Stainless steel |

## Miter Try Square

62286

| Item Code | Description | Base Length×Width×Thickness (mm) | Blade Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 62286 | 20 cm | 130×40×14 | 200×40×1.5 | 205 | 4 960910 622869 | 1 | B |
| 62294 | 25 cm | 130×40×14 | 250×40×1.5 | 234 | 4 960910 622944 | | |
| 62308 | 30 cm | 130×40×14 | 300×40×1.5 | 250 | 4 960910 623088 | | |
| 32255 | S-1421 20 cm/8" * | 130×40×14 | 200×40×1.5 | 205 | 4 960910 322554 | | |
| 32263 | S-1422 25 cm/10" * | 130×40×14 | 250×40×1.5 | 234 | 4 960910 322639 | | |
| 32271 | S-1423 30 cm/12" * | 130×40×14 | 300×40×1.5 | 250 | 4 960910 322714 | | |

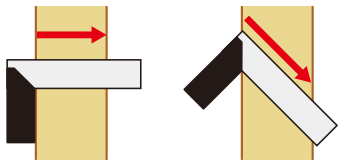
*S-1421, 1422 and 1423 are made-to-order items.

### Features

- Graduations on the blade enable to measure dimensions
- Large base helps to test a right angle

### Use

- For testing a right angle and scribing
- For scribing 45°



### Specifications

| | |
|---|---|
| Angle Tolerance | 45°: Less than 0.4 mm per 100 mm<br>90°: Less than 0.1 mm per 100 mm |
| Length Tolerance | ±0.2 mm |
| Material | Base: Aluminum Blade: Stainless steel |

JIS JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

# Protractor Hard Chrome Finish

62995

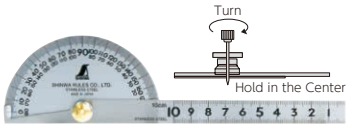
●10 cm compact size
●Pocket-sized portable

62480

●Classic protractor

62490

62901




●Center lock nut has a needle built-in to hold in the center

62928

●Square protractor board guides outside edge

62774

62868

●Groove on the protractor board allows the blade to be locked tightly

62952

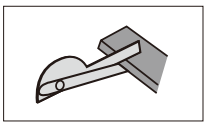
●Trigonometric function chart on the back

| Item Code | Description | Angle Plate Diameter (mm) | Angle Plate Thickness (mm) | Angle Plate Angle pitch | Blade 1:Single 2:Double | Blade Length (mm) | Blade Graduation (cm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 62995 | Mini ϕ40 10 cm | 40 | 1.0 | 2° | 2 | 100 | 10 | 20 | 4 960910 629950 | 10 | SP |
| 62480 | No.19 ϕ90 10 cm | 90 | 1.2 | 1° | 1 | 153 | 10 | 65 | 4 960910 624801 | | |
| 62490 | No.19 Double-blade ϕ90 10 cm | 90 | 1.2 | 1° | 2 | 153 | 10 | 82 | 4 960910 624900 | | |
| 62901 | No.182 ϕ90 10 cm | 90 | 1.2 | 1° | 1 | 153 | 10 | 80 | 4 960910 629011 | 1 | B |
| 62928 | No.183 Square 10 cm | Square | 1.2 | 1° | 1 | 153 | 10 | 100 | 4 960910 629288 | | |
| 62774 | No.30 ϕ120 | 120 | 1.5 | 1° | 1 | 245 | — | 150 | 4 960910 627741 | 5 | SP |
| 62868 | No.101 ϕ120 15 cm with Groove | 120 | 1.5 | 1° | 1 | 245 | 15 | 150 | 4 960910 628687 | | |
| 62898 | No.300 ϕ210 30 cm | 210 | 2.0 | 0.5° | 1 | 385 | 30 | 500 | 4 960910 628984 | 1 | B |
| 62839 | No.300 Double-blade ϕ210 30 cm | 210 | 2.0 | 0.5° | 2 | 385 | 30 | 660 | 4 960910 628397 | | |
| 62855 | No.600 ϕ320 60 cm | 320 | 2.5 | 0.5° | 1 | 650 | 60 | 1,350 | 4 960910 628557 | | |
| 62944 | No.600 Double-blade ϕ320 60 cm | 320 | 2.5 | 0.5° | 2 | 650 | 60 | 1,900 | 4 960910 629448 | | |
| 62847 | No.1000 ϕ320 1 m | 320 | 2.5 | 0.5° | 1 | 1,050 | 100 | 1,600 | 4 960910 628472 | | |
| 62952 | No.1000 Double-blade ϕ320 1 m | 320 | 2.5 | 0.5° | 2 | 1,050 | 100 | 2,400 | 4 960910 629523 | | |

## Features

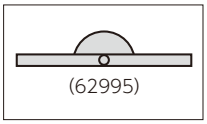
●Etching + black chrome coating on graduations help to last long
●Bold, easy-to-read graduations
●Hard chrome finish provides its surface with excellent durability and prevents glare on the scale for high readability
●Double blade model firmly matches shapes that a regular protractor board can't match

Measures the angle on the edge of a blade



Measures any angles

Expands up to 20 cm

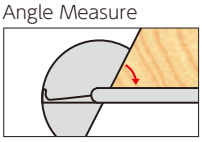



●No.300-No.1000 have a trigonometric function chart on the back

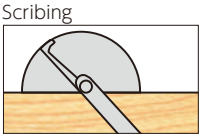
## Use

●For measuring angles, scribing, and measuring length

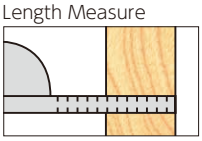
Angle Measure



Scribing



Length Measure



*Except 62774

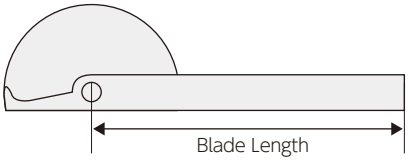
## Specifications

| | 62995 |
|---|---|
| Material | Main Part: Stainless steel Fixing Pin: Stainless steel Metal Washer: Brass |

| | 62480 | 62490 | 62901 | 62928 | 62774 | 62868 |
|---|---|---|---|---|---|---|
| Material | Main Part: Stainless steel Screw: Brass | | | | | |

| | 62898 | 62839 | 62855 | 62944 | 62847 | 62952 |
|---|---|---|---|---|---|---|
| Material | Main Part: Stainless steel Screw: Iron | | | | | |

Example of use




JIS JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

## Protractor Polish Finish

62987

●10cm compact size
●Pocket-sized portable

62499

●Polish finish offers both fine metallic luster and reasonable price

| Item Code | Description | Angle Plate Diameter (mm) | Angle Plate Thickness (mm) | Angle Plate Angle pitch | Blade 1:Single 2:Double | Blade Length (mm) | Blade Graduation (cm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 62987 | Mini ϕ40 10 cm | 40 | 1.0 | 2° | 2 | 100 | 10 | 20 | 4 960910 629875 | 10 | SP |
| 62499 | No.19 ϕ90 10 cm | 90 | 1.2 | 1° | 1 | 153 | 10 | 65 | 4 960910 624993 | | |

### Features

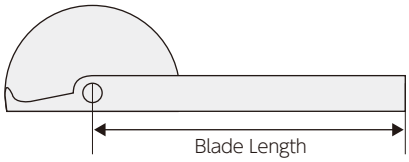
●Etching + black chrome coating on graduations help to last long
●Bold, easy-to-read graduations

### Use

●For measuring angles, scribing, and measuring length

### Specifications

| | 62987 | 62499 |
|---|---|---|
| Material | Main Part: Stainless steel<br>Fixing Pin: Stainless steel<br>Metal Washer: Brass | Main Part: Stainless steel<br>Screw: Brass |




## Digital Protractor

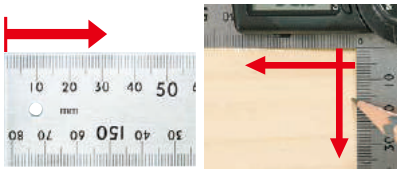
62495

| Item Code | Description | Overall Length×Width×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 62495 | 20 cm with Hold Function | 217×35×20 | 162 | 4 960910 624955 | 5 | SP |
| 62496 | 30 cm with Hold Function | 317×35×20 | 224 | 4 960910 624962 | | |

### Features

●Easy-to-read digital display
●Includes hold function
●Nob to fix angle

●Long-lasting, etched graduations
●Left end reference point and inside reference point at right angle are useful for measuring



●Can be fully straightened

### Use

●Angle measurement, length measurement, scribing

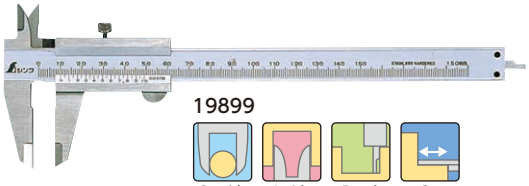
### Specifications

| | | 62495 | 62496 |
|---|---|---|---|
| Angle Tolerance | | ±0.3° | |
| Length Tolerance | | Up to 200 mm: ±0.2 mm (range when not connecting two rules) | Up to 300 mm: ±0.3 mm (range when not connecting two rules) |
| Minimum Reading | Angle | 0.1° | |
| | Length | 1 mm | |
| Measuring Range | Angle | 0 - 359.9° | |
| | Length | 0 - 395 mm | 0 - 595 mm |
| Temperature and Humidity for Use | | Temperature: 0 - 50℃, Humidity: Up to 85% | |
| Auto Power Off | | Approximately 5 minutes | |
| Battery | | 1x Lithium battery CR2032 (Battery included is for trial use only and may not last as long) | |
| Material | | Rule: Stainless steel | Module: ABS resin |

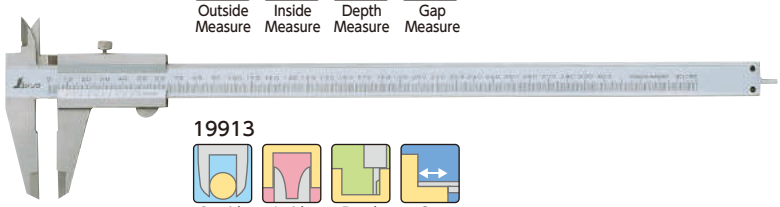
# 6. Vernier Calipers/Micrometers

Packaging: Shrink package, Sleeve package, Box, Bag, Vinyl package + header card, Clear package, Card, Vinyl package, No package

## Vernier Caliper

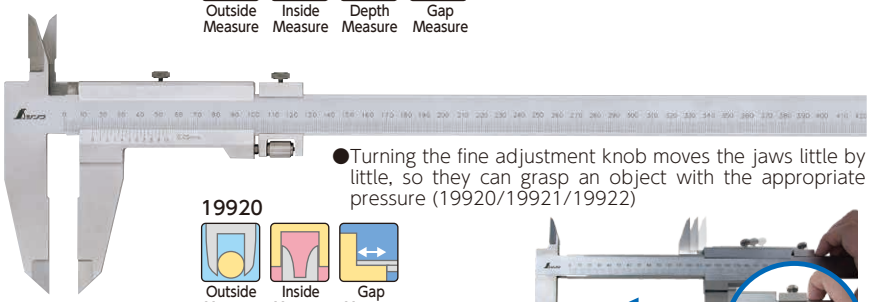


**19899**



**19913**

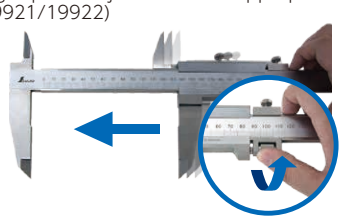


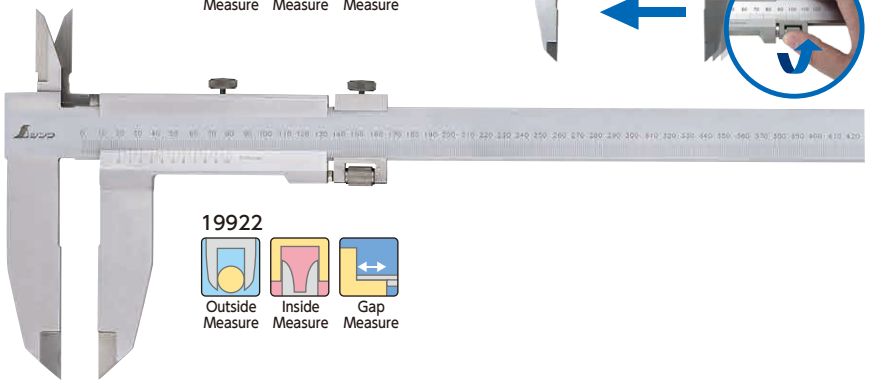



●Turning the fine adjustment knob moves the jaws little by little, so they can grasp an object with the appropriate pressure (19920/19921/19922)

**19920**





**19922**



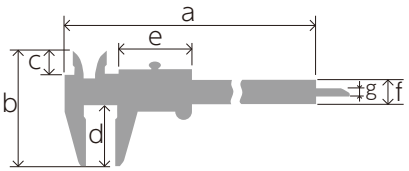

### Features

- Easy-to-use standard vernier caliper
- Includes storage case (19920/19921/19922)

### Use

- For measuring outside, inside, depth, and gap (19899/19912/19913)
- For measuring outside, inside, and gap (19920/19921/19922)

### Specifications



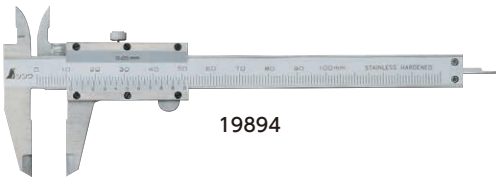

| | | 19899 | | 19912 | | 19913 |
|---|---|---|---|---|---|---|
| Body Size | a | 235 mm | a | 296 mm | a | 410 mm |
| | b | 77 mm | b | 90 mm | b | 100 mm |
| | c | 16 mm | c | 18 mm | c | 20 mm |
| | d | 40 mm | d | 50 mm | d | 55 mm |
| | e | 54 mm | e | 55 mm | e | 60 mm |
| | f | 16 mm | f | 16 mm | f | 18 mm |
| | g | 3.6 mm | g | 3.6 mm | g | 4.4 mm |
| Product Weight | | 150 g | | 180 g | | 326 g |
| Material | | Stainless steel | | | | |
| Depth Probe | | Attached | | | | |
| Accuracy | | ±0.07 mm | | | | ±0.08 mm |

| | | 19920 | | 19921 | | 19922 |
|---|---|---|---|---|---|---|
| Body Size | a | 620 mm | a | 770 mm | a | 1,220 mm |
| | b | 159 mm | b | 159 mm | b | 221 mm |
| | c | 38 mm | c | 38 mm | c | 50 mm |
| | d | 90 mm | d | 90 mm | d | 130 mm |
| | e | 92 mm | e | 92 mm | e | 124 mm |
| | f | 24 mm | f | 24 mm | f | 32 mm |
| | g | — | g | — | g | — |
| Product Weight | | 1,000 g | | 1,200 g | | 3,300 g |
| Material | | Stainless steel | | | | |
| Depth Probe | | None | | | | |
| Accuracy | | ±0.1 mm | | | | ±0.15 mm |

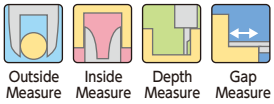
| Item Code | Description | Measurement Range (mm) | Minimum Measurement Value (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 19899 | 150 mm | 0.05 - 150 | 0.05 | 4 960910 198999 | 6 | V |
| 19912 | 200 mm | 0.05 - 200 | 0.05 | 4 960910 199125 | | |
| 19913 | 300 mm | 0.05 - 300 | 0.05 | 4 960910 199132 | 1 | 箱 |
| 19920 | 450 mm NEW | 0.05 - 450 | 0.05 | 4 960910 199200 | | |
| 19921 | 600 mm NEW | 0.05 - 600 | 0.05 | 4 960910 199217 | | |
| 19922 | 1000 mm NEW | 0.05 - 1000 | 0.05 | 4 960910 199224 | | |

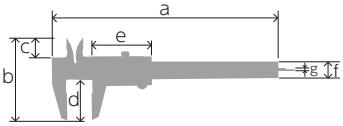
JIS JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

## Mini Vernier Caliper



19894




| Item Code | Description | Measurement Range (mm) | Minimum Measurement Value (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 19892 | 70 mm | 0.05 - 70 | 0.05 | 4 960910 198920 | 10 | SP |
| 19894 | 100 mm | 0.05 - 100 | 0.05 | 4 960910 198944 | | |

**Features**

- Small size, portable
- Same high precision as larger model

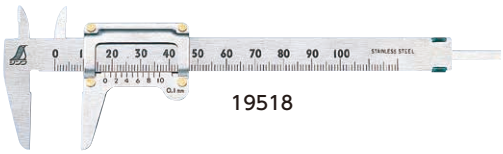
**Use**

- For measuring outside, inside, depth, and gap

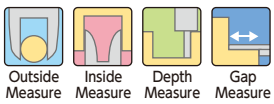
**Specifications**

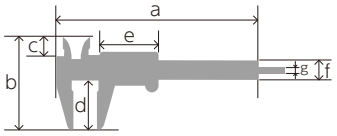
| | | 19892 | | 19894 |
|---|---|---|---|---|
| Body Size | a | 114 mm | a | 160 mm |
| | b | 39 mm | b | 60 mm |
| | c | 8.5 mm | c | 14 mm |
| | d | 18.5 mm | d | 30 mm |
| | e | 28 mm | e | 37 mm |
| | f | 8 mm | f | 12 mm |
| | g | 1.7 mm | g | 2.3 mm |
| Weight | | 22 g | | 71 g |
| Material | | Stainless steel | | |
| Depth Probe | | Attached | | |
| Accuracy | | ±0.06 mm | | |

## Pocket Vernier Caliper



19518




| Item Code | Description | Measurement Range (mm) | Minimum Measurement Value (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 19518 | 100 mm | 0.1 - 100 | 0.1 | 4 960910 195189 | 10 | SP |

**Features**

- Small size, portable

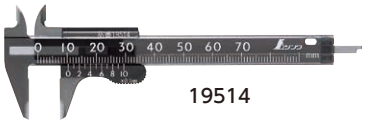
**Use**

- For measuring outside, inside, depth, and gap

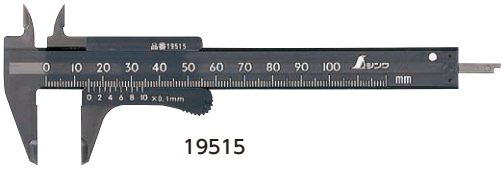
**Specifications**

| | | |
|---|---|---|
| Body Size | a | 157 mm |
| | b | 52 mm |
| | c | 12 mm |
| | d | 28 mm |
| | e | 37 mm |
| | f | 12 mm |
| | g | 3.5 mm |
| Weight | | 39 g |
| Material | | Stainless steel |
| Depth Probe | | Attached |
| Accuracy | | ±0.1 mm |

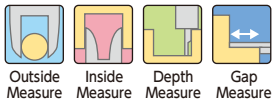
## Vernier Caliper Plastic Body

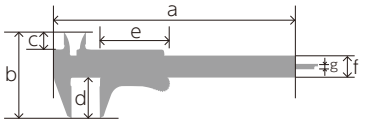


19514



19515




| Item Code | Description | Measurement Range (mm) | Minimum Measurement Value (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 19514 | 70 mm | 0.1 - 70 | 0.1 | 4 960910 195141 | 10 | SP |
| 19515 | 100 mm | 0.1 - 100 | 0.1 | 4 960910 195158 | | |

**Features**

- Light and compact, easy carrying
- Strap hole
- Polycarbonate is tough and stable. Rustproof and will not scratch other surfaces

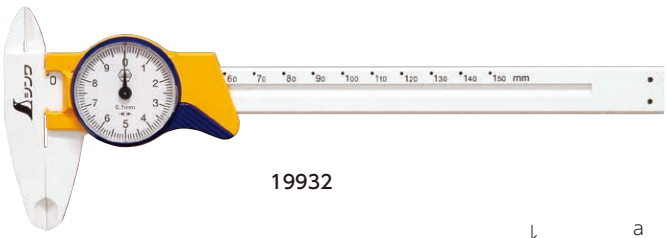
**Use**

- For measuring outside, inside, depth, and gap

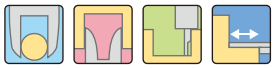
**Specifications**

| | | 19514 | | 19515 |
|---|---|---|---|---|
| Body Size | a | 114 mm | a | 161 mm |
| | b | 40 mm | b | 58 mm |
| | c | 8 mm | c | 11 mm |
| | d | 19 mm | d | 27 mm |
| | e | 30 mm | e | 41 mm |
| | f | 10.5 mm | f | 15 mm |
| | g | 2.7 mm | g | 3.9 mm |
| Weight | | 6 g | | 15 g |
| Material | | Polycarbonate | | |
| Depth Probe | | Attached | | |
| Accuracy | | ±0.1 mm | | |

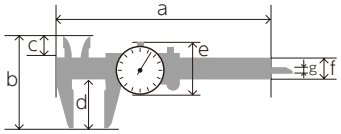
## Fiberglass Dial Caliper



19932



Outside Measure | Inside Measure | Depth Measure | Gap Measure




| Item Code | Description | Measurement Range (mm) | Minimum Measurement Value (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 19932 | 150 mm | 0.1 - 150 | 0.1 | 4 960910 199323 | 5 | C |

### Features

- Easy-to-read scale
- Will not scratch other surfaces

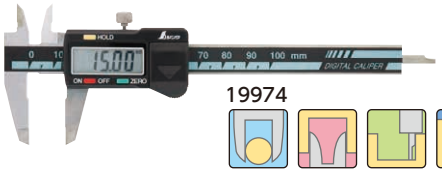
### Use

- For measuring outside, inside, depth, and gap

### Specifications

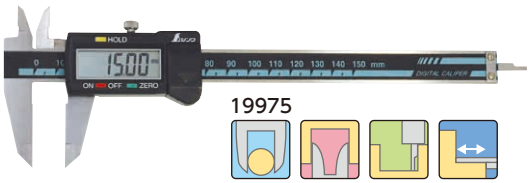
| | | |
|---|---|---|
| Body Size | a | 224 mm |
| | b | 77 mm |
| | c | 14 mm |
| | d | 39 mm |
| | e | 38 mm |
| | f | 16 mm |
| | g | 3.8 mm |
| Weight | | 44 g |
| Material | | Nylon resin (with fiberglass) |
| Depth Probe | | Attached |
| Accuracy | | ±0.1 mm |

## Digital Vernier Caliper with Hold Function

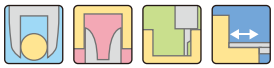


19974

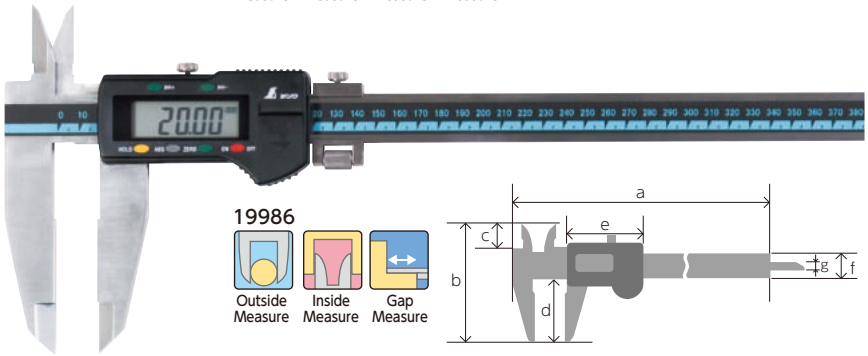
Outside Measure | Inside Measure | Depth Measure | Gap Measure



19975



Outside Measure | Inside Measure | Depth Measure | Gap Measure



19986



Outside Measure | Inside Measure | Gap Measure




| Item Code | Description | Measurement Range (mm) | Minimum Measurement Value (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 19974 | Mini 100 mm | 0.01 - 100 | 0.01 | 4 960910 199743 | 3 | SP |
| 19975 | 150 mm | 0.01 - 150 | 0.01 | 4 960910 199750 | | |
| 19976 | 200 mm | 0.01 - 200 | 0.01 | 4 960910 199767 | | |
| 19977 | 300 mm | 0.01 - 300 | 0.01 | 4 960910 199774 | 1 | B |
| 19986 | 450 mm | 0.01 - 450 | 0.01 | 4 960910 199866 | | |
| 19987 | 600 mm | 0.01 - 600 | 0.01 | 4 960910 199873 | | |
| 19988 | 1000 mm | 0.01 - 1,000 | 0.01 | 4 960910 199880 | | |

### Features

- Ideal for precision work with a minimum reading value of 0.01 mm
- Zero set function enables relative measurement or indirect measurement
- Hold function is useful when the screen cannot be seen
- Moisture resistant (19974/19975/19976/19977)
- Able to measure large objects (19986/19987/19988)
- Preset function enables to adjust zero point in 0.01 mm units (19986/19987/19988)

### Use

- For measuring outside, inside, depth (19974/19975/19976/19977), and gap
- For relative measurement and indirect measurement

### Specifications

| | 19974 | 19975 | 19976 | 19977 | 19986 | 19987 | 19988 |
|---|---|---|---|---|---|---|---|
| Body Size a | 167 mm | 235 mm | 294 mm | 400 mm | 626 mm | 776 mm | 1,233 mm |
| Body Size b | 60 mm | 77 mm | 90 mm | 102 mm | 169 mm | 169 mm | 216 mm |
| Body Size c | 12 mm | 15 mm | 19 mm | 19 mm | 38 mm | 38 mm | 50.8 mm |
| Body Size d | 30 mm | 40 mm | 50 mm | 60 mm | 100 mm | 100 mm | 125 mm |
| Body Size e | 50 mm | 62 mm | 62 mm | 62 mm | 100 mm | 100 mm | 130 mm |
| Body Size f | 13 mm | 16 mm | 16 mm | 17 mm | 24 mm | 24 mm | 31 mm |
| Body Size g | 3.6 mm | 3.6 mm | 3.6 mm | 3.6 mm | – | – | – |
| Weight | 92 g | 155 g | 179 g | 280 g | 980 g | 1,100 g | 2,400 g |
| Material | Body: Stainless steel Display Unit: ABS resin | | | | | | |
| Depth Probe | Attached | | | | None | | |
| Accuracy | ±0.03 mm | | | ±0.04 mm | ±0.05 mm | | ±0.1 mm |
| Minimum Reading | 0.01 mm | | | | | | |
| Repeatability | 0.01 mm | | | | | | |
| Use Temperature | 0 - 40℃ | | | | | | |
| Storage Temperature | −10 - 60℃ | | | | | | |
| Storage Humidity | Below 80% | | | | | | |
| Battery | 1x Silver oxide battery SR44 | | | | 1x Lithium battery CR2032 | | |
| | (Battery included is for trial use only and may not last as long) | | | | | | |

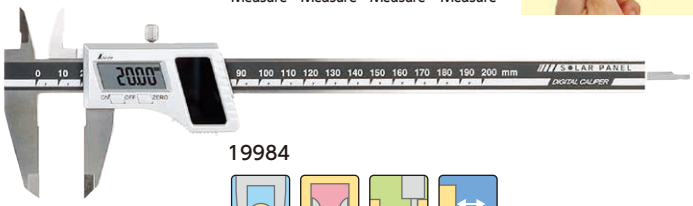
*Repeatability means the precision earned after repeated measurement.

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

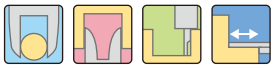
## Digital Vernier Caliper with Solar Panel

19983

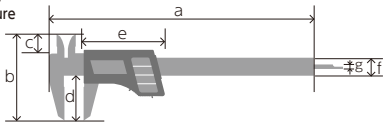
Outside Measure | Inside Measure | Depth Measure | Gap Measure



19984



Outside Measure | Inside Measure | Depth Measure | Gap Measure




| Item Code | Description | Measurement Range (mm) | Minimum Measurement Value (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 19983 | 150 mm | 0.01 - 150 | 0.01 | 4 960910 199835 | 3 | SP |
| 19984 | 200 mm | 0.01 - 200 | 0.01 | 4 960910 199842 | | |

### Features

- Ideal for precision work with a minimum reading value of 0.01 mm
- Dual power model with solar panel and lithium battery
- *Solar panel reduces the use of battery when surrounding illuminance is over 200 lux.
- Zero set function enables relative measurement or indirect measurement
- Auto power off function

### Use

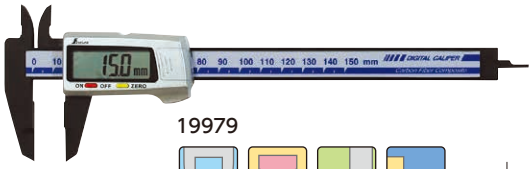
- For measuring outside, inside, depth, and gap
- For relative measurement and indirect measurement

### Specifications

| | | 19983 | | 19984 |
|---|---|---|---|---|
| Body Size | a | 235 mm | a | 286 mm |
| | b | 76 mm | b | 90 mm |
| | c | 16 mm | c | 19 mm |
| | d | 40 mm | d | 46 mm |
| | e | 70 mm | e | 70 mm |
| | f | 16 mm | f | 16 mm |
| | g | 3.7 mm | g | 3.7 mm |
| Weight | | 160 g | | 187 g |
| Material | | Body: Stainless steel Display Unit: ABS resin | | |
| Depth Probe | | Attached | | |
| Accuracy | | ±0.03 mm | | |
| Minimum Reading | | 0.01 mm | | |
| Repeatability | | 0.01 mm | | |
| Use Temperature | | 0 - 40℃ | | |
| Storage Temperature | | −10 - 60℃ | | |
| Storage Humidity | | Below 80% | | |
| Battery | | Solar panel / 1x Lithium battery CR2016 (Battery included is for trial use only and may not last as long) | | |

*Always use the item with a battery installed. Using it without a battery may cause malfunction.
*Repeatability means the precision earned after repeated measurement.

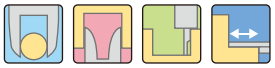
## Digital Vernier Caliper Carbon Fiber Body



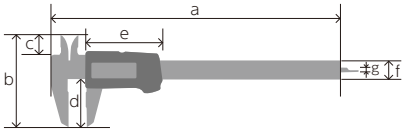
Power on by just sliding

Automatically powered on just by sliding the module without pushing ON/OFF switch

19979



Outside Measure | Inside Measure | Depth Measure (Only 150 mm) | Gap Measure




| Item Code | Description | Measurement Range (mm) | Minimum Measurement Value (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 19978 | 100 mm | 0.1 - 100 | 0.1 | 4 960910 199781 | 5 | C |
| 19979 | 150 mm | 0.1 - 150 | 0.1 | 4 960910 199798 | | |

### Features

- Automatically powered on/off just by sliding the module(19978/19979)
- With auto power off function
- Zero set function enables relative measurement or indirect measurement
- Will not scratch other surfaces
- Strap hole(19978)
- Dual power model with solar panel and lithium battery
- *Solar panel reduces the use of battery when surrounding illuminance is over 200 lux.

### Use

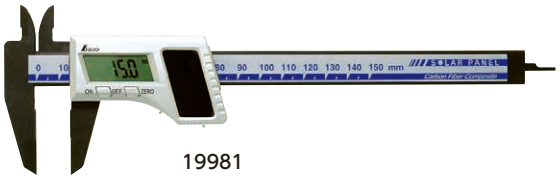
- For measuring outside, inside, depth (19979/19981), and gap
- For relative measurement and indirect measurement

### Specifications

| | | 19978 | | 19979 | | 19981 |
|---|---|---|---|---|---|---|
| Body Size | a | 178 mm | a | 237 mm | a | 237 mm |
| | b | 61 mm | b | 77 mm | b | 77 mm |
| | c | 12 mm | c | 16 mm | c | 16 mm |
| | d | 30 mm | d | 40 mm | d | 40 mm |
| | e | 50 mm | e | 63 mm | e | 70 mm |
| | f | 13 mm | f | 16 mm | f | 16 mm |
| | g | — | g | 3.9 mm | g | 3.9 mm |
| Weight | | 34 g | | 56 g | | 59 g |
| Material | | Body: Carbon fiber composite Display Unit: ABS resin | | | | |
| Depth Probe | | None | | Attached | | |
| Accuracy | | Outside Measurement : ±0.3 mm Inside Measurement: ±0.5 mm | | | | |
| Minimum Reading | | 0.1 mm | | | | |
| Repeatability | | 0.1 mm | | | | |
| Use Temperature | | 0 - 40℃ | | | | |
| Storage Temperature | | −10 - 60℃ | | | | |
| Storage Humidity | | Below 80% | | | | |
| Battery | | 1x Silver oxide battery SR44 | | | | Solar panel / 1x Lithium battery CR2016 |
| | | (Battery included is for trial use only and may not last as long) | | | | |

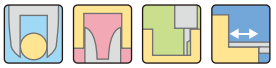
*Always use the item with a battery installed. Using it without a battery may cause malfunction.
*Repeatability means the precision earned after repeated measurement.

## Digital Vernier Caliper Carbon Fiber Body with Solar Panel

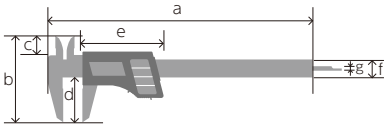


Carbon fiber composite body will not scratch other surfaces

19981



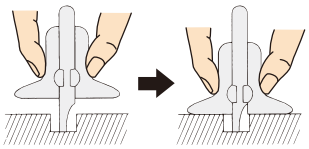
Outside Measure | Inside Measure | Depth Measure | Gap Measure




| Item Code | Description | Measurement Range (mm) | Minimum Measurement Value (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 19981 | 150 mm | 0.1 - 150 | 0.1 | 4 960910 199811 | 5 | C |

## Depth Gauge

19300



| Item Code | Description | Measurement Range (mm) | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 19300 | Mini | 0 - 20 | 60×55×10 | 32 | 4 960910 193000 | 10 | SP |

### Features

- Small size, easy carrying
- Fixing screw

### Use

- For measuring groove depth on tires

### Specifications

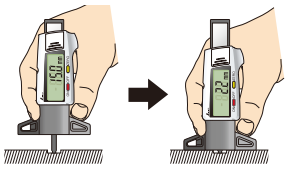
| | |
|---|---|
| Material | Body: Stainless steel Screw: Iron |
| Accuracy | ±0.1 mm |

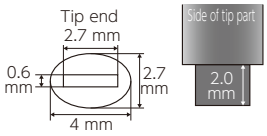
【For Reference】 Minimum Tire Groove Depth

| | |
|---|---|
| Bicycle | 0.8 mm |
| Passenger Car | 1.6 mm |
| Small Truck | 1.6 mm |
| Large Truck | 1.6 mm |
| Bus | 1.6 mm |

## Digital Depth Gauge

19305






| Item Code | Description | Measurement Range (mm) | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 19305 | Mini 25 mm | 0.1 - 25 | 112.5×60×15 | 43 | 4 960910 193055 | 10 | SP |

### Features

- Resin construction makes it lightweight as well as rustproof, and will not scratch other surfaces
- Automatically turns on just by sliding the module
- Auto power off function

### Use

- For measuring various depths

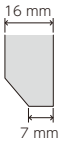
### Specifications

| | |
|---|---|
| Material | Body: Nylon resin (with fiberglass)<br>Digital Module: ABS resin |
| Accuracy | ±0.2 mm |
| Minimum Reading | 0.1 mm |
| Repeatability | 0.1 mm |
| Use Temperature | 0 - 40℃ |
| Storage Temperature | −10 - 60℃ |
| Storage Humidity | Below 80% |
| Battery | 1x Silver oxide battery SR44<br>(Battery included is for trial use only and may not last as long) |

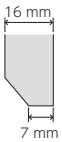
*Repeatability means the precision earned after repeated measurement.

## Digital Depth Gauge with Hold Function

19306



19307




| Item Code | Description | Measurement Range (mm) | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 19306 | 150 mm | 0.01 - 150 | 232×100×15 | 166 | 4 960910 193062 | 3 | SP |
| 19307 | 200 mm | 0.01 - 200 | 284×100×15 | 187 | 4 960910 193079 | | |

### Features

- Ideal for precision work with a minimum reading value of 0.01 mm
- Zero set function enables relative measurement or indirect measurement
- Hold function is useful when the screen cannot be seen
- Automatically turns on just by sliding the module
- Auto power off function

### Use

- For measuring depth

### Specifications

| | 19306 | 19307 |
|---|---|---|
| Material | Body: Stainless steel Digital Module: ABS resin | |
| Accuracy | ±0.03 mm | |
| Minimum Reading | 0.01 mm | |
| Repeatability | 0.01 mm | |
| Use Temperature | 0 - 40℃ | |
| Storage Temperature | −10 - 60℃ | |
| Storage Humidity | Below 80% | |
| Battery | 1x Silver oxide battery SR44<br>(Battery included is for trial use only and may not last as long) | |

*Repeatability means the precision earned after repeated measurement.

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Micrometer

78935

78936

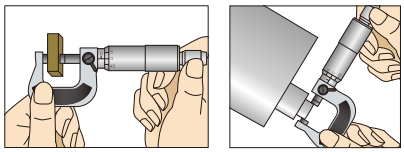
| Item Code | Description | Measurement Range (mm) | Minimum Measurement Value (mm) | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|
| 78935 | 0 - 25 mm | 0.01 - 25 | 0.01 | 52×128×20 | 205 | 4 960910 789357 | 3 | SP |
| 78936 | 25 - 50 mm | 25 - 50 | 0.01 | 63×158×20 | 265 | 4 960910 789364 | | |

## Features

- Tough coating and plating for flake and rust-resistance
- Speedy adjustment to measurement base

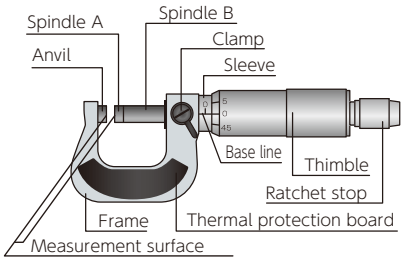
## Use

- For measuring thickness



## Specifications

- Part names



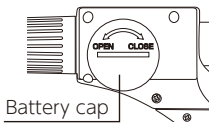

| | |
|---|---|
| Material | Anvil: Carbide alloy<br>Spindle A: Carbide alloy<br>Spindle B: Bearing steel |
| Accuracy | ±0.01 mm (to measurement range) |

# Digital Micrometer

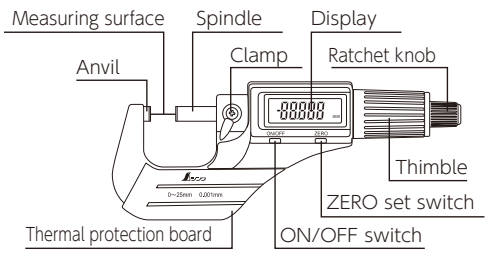
79523

- Part Name

○Back




○Front




Easy relative measurement with ZERO set switch

1. Measure the base

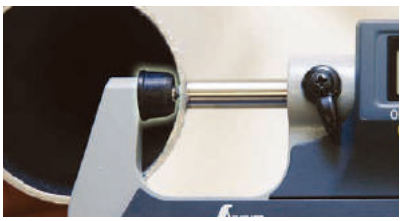
2. Push the ZERO set switch

3. The difference from the base is displayed

| Item Code | Description | Measurement Range (mm) | Minimum Measurement Value (mm) | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|
| 79523 | 0 - 25 mm | 0.001 - 25 | 0.001 | 61×156×28 | 201 | 4 960910 795235 | 2 | SP |

## Features

- Digital display to read at a glance
- Speedy measurement with Thick Thimble + Ratchet knob
- Zero set function enables relative measurement or indirect measurement
- Auto power off function
- Spherical attachment, convenient to measure the thickness of pipe
- Superhard chip on measuring surface



## Use

- For measuring thickness

## Specifications

| | |
|---|---|
| Material | Frame: SC steel<br>Spindle: High-carbon chrome steel<br>Measurement Surface: Superhard chip |
| Measuring Force | 10 N |
| Accuracy | ±0.003 mm |
| Minimum Reading | 0.001 mm |
| Use Temperature | 0 - 40℃ |
| Storage Temperature | −20 - 60℃ |
| Battery | 1x Lithium battery CR2032<br>(Battery included is for trial use only and may not last as long) |

# 7. Tape Measures

Packaging: Shrink package, Sleeve package, Box, Bag, Vinyl package + header card, Clear package, Card, Vinyl package, No package

## Tape Measure TOUGH GEAR HG

80821

Rust-resistant stainless tape and stainless spring
Nylon-coated stainless tape for durability against friction and scratching

80818

■Models with Holder
●Strong cord with wire core
●Easily detachable belt holder

### Features

●JIS Grade 1 (metric graduation model)
●Shock proof protector covers the body
●Shock absorber attached
●455 mm pitch indication
●Zero point auto-correct hook
●All models come with a metal shaft strap as a standard. A safety cord can be attached.

■Models without Holder
●Safety cord included

■Magnetic Hook
●Strong neodymium magnet sticks well to steel frames

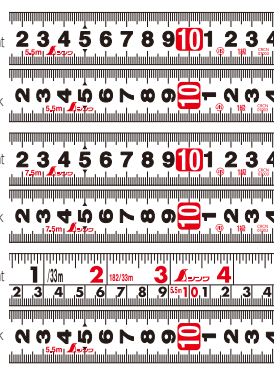
### Use

●For measuring length

### Specifications

| | |
|---|---|
| Material | Body: ABS resin<br>Cover: Elastomer resin<br>Tape: Stainless steel |

●Tape pattern



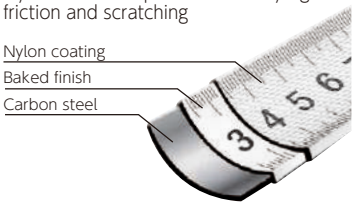

| Item Code | Description | | Tape Width (mm) | Tape Length (m) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|
| 80821 | HG 25-5.5 m | JIS | 25 | 5.5 | 329 | 4 960910 808218 | 4 (40) | SP |
| 80822 | HG 25-5.5 m/shaku | shaku/cm | 25 | 5.5 | 329 | 4 960910 808225 | | |
| 80823 | HG 25-5.5 m with Magnetic Hook | JIS | 25 | 5.5 | 329 | 4 960910 808232 | | |
| 80824 | HG 25-7.5 m | JIS | 25 | 7.5 | 446 | 4 960910 808249 | 4 (24) | |
| 80818 | HG 25-5.5 m/shaku with Holder | shaku/cm | 25 | 5.5 | 385 | 4 960910 808188 | 4 (40) | |

Refer to P. 2 about the shaku scale

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

# Tape Measure TOUGH GEAR SD

Nylon-coated tape for durability against friction and scratching




■Models with Holder
●Strong cord with wire core
●Easily detachable belt holder

## Features

●JIS Grade 1 (metric graduation model)
●Shock proof protector covers the body
●Shock absorber attached
●455 mm pitch indication
●Zero point auto-correct hook
●All models come with a metal shaft strap as a standard. A safety cord can be attached.

■Models without Holder
●Safety cord included

■Magnetic Hook
●Strong neodymium magnet sticks well to steel frames

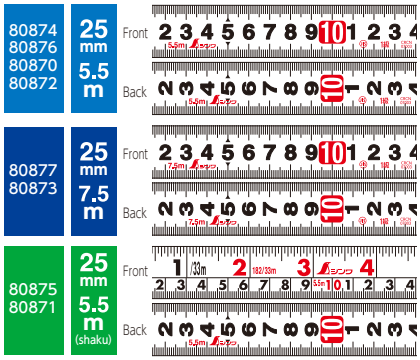
## Use

●For measuring length

## Specifications

| Material | Body: ABS resin<br>Cover: Elastomer resin<br>Tape: Carbon tool steel |
|---|---|

●Tape pattern

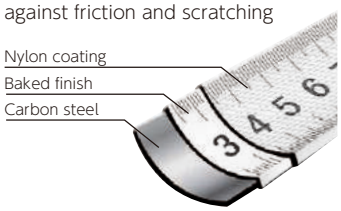



| Item Code | Description | | Tape Width (mm) | Tape Length (m) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|
| 80874 | SD 25-5.5 m | JIS | 25 | 5.5 | 314 | 4 960910 808744 | 4 (40) | SP |
| 80875 | SD 25-5.5 m/shaku | shaku/cm | 25 | 5.5 | 314 | 4 960910 808751 | | |
| 80876 | SD 25-5.5 m with Magnetic Hook | JIS | 25 | 5.5 | 314 | 4 960910 808768 | | |
| 80877 | SD 25-7.5 m | JIS | 25 | 7.5 | 440 | 4 960910 808775 | 4 (24) | |
| 80870 | SD 25-5.5 m with Holder | JIS | 25 | 5.5 | 376 | 4 960910 808706 | 4 (40) | |
| 80871 | SD 25-5.5 m/shaku with Holder | shaku/cm | 25 | 5.5 | 376 | 4 960910 808713 | | |
| 80872 | SD 25-5.5 m with Magnetic Hook with Holder | JIS | 25 | 5.5 | 376 | 4 960910 808720 | | |
| 80873 | SD 25-7.5 m with Holder | JIS | 25 | 7.5 | 510 | 4 960910 808737 | 4 (24) | |

Refer to P. 2 about the shaku scale

# Tape Measure TOUGH GEAR Automatic Stop

Nylon coated tape for durability against friction and scratching




■Models with Holder
●Strong cord with wire core
●Easily detachable belt holder

■Models without Holder
●Safety cord included

## Features

●JIS Grade 1 (metric graduation model)
●Automatic stopper locks the tape at any pulled position

(Push the button to retract, release it to lock)

●All models come standard with a shaft strap. A safety cord can be attached.
●Shock-proof protector covers the body
●Shock absorber attached
●455 mm pitch indication
●Zero point auto-correct hook

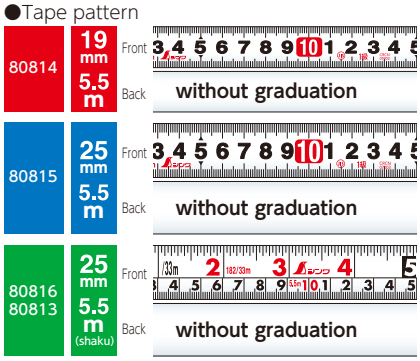
## Use

●For measuring length

## Specifications

| Material | Body: ABS resin, elastomer resin<br>Tape: Carbon tool steel |
|---|---|

●Tape pattern




| Item Code | Description | | Tape Width (mm) | Tape Length (m) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|
| 80814 | 19-5.5 m | JIS | 19 | 5.5 | 258 | 4 960910 808140 | 4 (40) | SP |
| 80815 | 25-5.5 m | JIS | 25 | 5.5 | 309 | 4 960910 808157 | | |
| 80816 | 25-5.5 m/shaku | shaku/cm | 25 | 5.5 | 309 | 4 960910 808164 | | |
| 80813 | 25-5.5 m/shaku with Holder | shaku/cm | 25 | 5.5 | 369 | 4 960910 808133 | | |

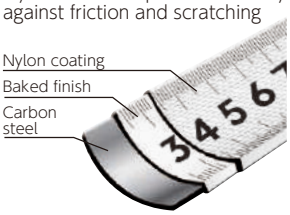
Refer to P. 2 about the shaku scale

# Tape Measure RIGHT GEAR

80862

80863

Nylon-coated tape for durability against friction and scratching



80864

80866

80865

80867

80855

80868

| Item Code | Description | | Tape Width (mm) | Tape Length (m) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|
| 80862 | 19-5.5 m | JIS | 19 | 5.5 | 222 | 4 960910 808621 | 12 (48) | C |
| 80863 | 19-5.5 m/shaku | shaku/cm | 19 | 5.5 | 222 | 4 960910 808638 | | |
| 80864 | 25-5.5 m | JIS | 25 | 5.5 | 268 | 4 960910 808645 | | |
| 80866 | 25-5.5 m/shaku | shaku/cm | 25 | 5.5 | 268 | 4 960910 808669 | | |
| 80865 | 25-5.5 m with Magnetic Hook | JIS | 25 | 5.5 | 268 | 4 960910 808652 | | |
| 80867 | 25-7.5 m | JIS | 25 | 7.5 | 378 | 4 960910 808676 | 6 (24) | |
| 80855 | 25-7.5 m/shaku | NEW shaku/cm | 25 | 7.5 | 378 | 4 960910 808553 | | |
| 80868 | 25-7.5 m with Magnetic Hook | JIS | 25 | 7.5 | 378 | 4 960910 808683 | | |

Refer to P. 2 about the shaku scale

## Features

- JIS Grade 1 (metric graduation model)

- Hook guard structure to protect hook from shocks due to drops, etc.

- Shock proof protector covers the body
- Convenient large hook hanger to attach a safety cord

- Shock absorber attached
- Belt clip
- Hand strap
- 455 mm pitch indication
- Zero point auto-correct hook
- Strong neodymium magnet sticks well to steel frames (80865/80868)
- Double-sided graduations (Metric graduations are vertical graduations on the reverse)

## Use

- For measuring length

## Specifications

| | |
|---|---|
| Material | Body: ABS resin, elastomer resin<br>Tape: Carbon tool steel |

- Tape pattern

| | | | |
|---|---|---|---|
| 80862 | 19 mm 5.5 m | Front | |
| | | Back | |
| 80863 | 19 mm 5.5 m (shaku) | Front | |
| | | Back | |
| 80864 80865 | 25 mm 5.5 m | Front | |
| | | Back | |
| 80866 | 25 mm 5.5 m (shaku) | Front | |
| | | Back | |
| 80855 | 25 mm 7.5 m (shaku) | Front | |
| | | Back | |
| 80867 80868 | 25 mm 7.5 m | Front | |
| | | Back | |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Tape Measure SMART GEAR

80882

80883

●Catchy POP box for retailers

Compact design

Large hook hanger

| Item Code | Description | Tape Width (mm) | Tape Length (m) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 80880 | 19-5.5 m | 19 | 5.5 | 210 | 4 960910 808805 | 12 (48) | ☐ |
| 80881 | 19-5.5 m/shaku shaku/cm | 19 | 5.5 | 210 | 4 960910 808812 | | |
| 80882 | 25-5.5 m | 25 | 5.5 | 275 | 4 960910 808829 | | |
| 80883 | 25-5.5 m/shaku shaku/cm | 25 | 5.5 | 275 | 4 960910 808836 | | |
| 72762 | 25-5.5 m with Magnetic Hook | 25 | 5.5 | 275 | 4 960910 727625 | | |

Refer to P. 2 about the shaku scale

## Features

- ●Compact size easily fits in a pocket
- ●Convenient large hook hanger to attach a safety cord
- ●Shock absorber attached
- ●455 mm pitch indication
- ●Zero point auto-correct hook
- ●Strong neodymium magnet sticks well to steel frames (72762)
- ●Double-sided graduations (Metric graduations are vertical graduations on the reverse)

## Use

●For measuring length

## Specifications

| | |
|---|---|
| Material | Body: ABS resin, elastomer resin<br>Tape: Carbon tool steel |

●Tape pattern

# Tape Measure

78002

78007

| Item Code | Description | Tape Width (mm) | Tape Length (m) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 78002 | H-132 Free Type JIS | 13 | 2 | 70 | 4 960910 780026 | 12 | ☐ |
| 78007 | H-163 Free Type JIS | 16 | 3.5 | 128 | 4 960910 780071 | | |

## Features

- ●JIS Grade 1 (metric graduation model)
- ●Easy-to-hold, fits in the hand
- ●Zero point auto-correct hook
- ●Shock absorber attached (78007)
- ●455 mm pitch indication
- ●Belt clip (78007)
- ●Hand strap
- ●Rust-resistant stainless spring

## Use

●For measuring length

## Specifications

| | |
|---|---|
| Material | Body: ABS resin<br>Tape: Carbon tool steel |

# Holder

80825

| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 80825 | One-touch Holder for Measuring Tape | 4 960910 808256 | 20 | Ⓢ |

## Features

- ●Detachable with one touch
- ●Safety cord can be attached
- ●Detachable while belt is on

## Use

●For tape measure holders

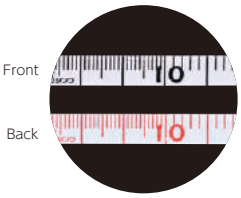
## Specifications

- ●Attachable Belt: Less than 60 mm wide and less than 4 mm thick
- ●Attachable Tape Measure: Over 20 mm width of installing area and over 12 mm length of installation screw
- ●Installation stopper included

| | |
|---|---|
| Material | Body: ABS resin, polycarbonate resin |

## Spring Tape Measure

71005




**Features**

- Retract the tape by pushing the center button

**Use**

- For measurement in dressmaking and curved surfaces

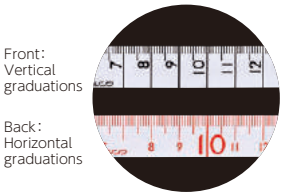
**Specifications**

| | |
|---|---|
| Body Size | φ54 × 20 mm |
| Length Tolerance | ±1.4 mm |
| Material | Tape: Vinylchloride film with fiberglass<br>Body/Tape End : ABS resin |

| Item Code | Description | Tape Width (mm) | Tape Length (m) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 71005 | 1.5 m | 8 | 1.5 | 25 | 4 960910 710054 | 10 | B |

## Flat Tape

71013




**Features**

- For flexible measurement of various objects

**Use**

- For measurement in dressmaking and curved surfaces

**Specifications**

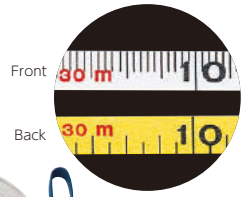
| | |
|---|---|
| Length Tolerance | ±1.9 mm |
| Material | Tape: Vinylchloride film with fiberglass<br>Tape End: Steel<br>Calking: Brass |

| Item Code | Description | Tape Width (mm) | Tape Length (m) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 71013 | 1.5 m | 15 | 1.5 | 15 | 4 960910 710139 | 10 | B |

## Fiberglass Tape Measure

78181

78184




**Features**

- JIS Grade 1
- Light and portable
- Graduations printed on both sides of the tape

**Use**

- For general measurement, road, railroad, or electric constructions

**Specifications**

- Standard Tension/Temperature: 10 N/20℃
- Front side (White) 2 mm pitch graduation
  Back side (Yellow) 5 mm pitch graduation

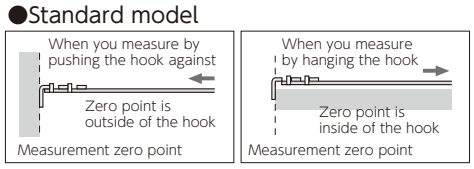
| | |
|---|---|
| Material | Tape: Vinylchloride film with fiberglass<br>Body: ABS resin |

| Item Code | Description | | Tape Width (mm) | Tape Length (m) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|
| 78184 | FW-30 | JIS | 12 | 30 | 450 | 4 960910 781849 | 1 | B |
| 78181 | FW-50 | JIS | 12 | 50 | 700 | 4 960910 781818 | | |

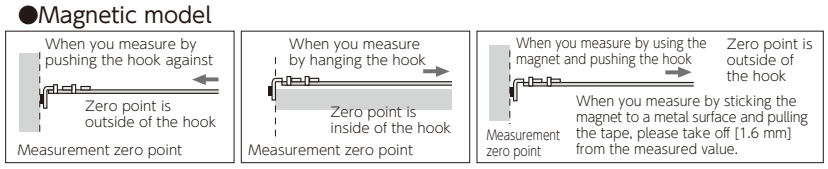
### ■Zero Point Auto-correct Hook

The hook position automatically moves in order to correct the length error created by the thickness of the hook between the hook being pushed and pulled.

**●Standard model**




**●Magnetic model**




### ■JIS B 7512 Steel Tape Measures

Tolerances on length for grade 1

{ L is a numerical value expressing the measured value in meters (rounding up the fraction less than 1 to an integer place) }

±{(0.2+0.1L) + 0.2 } mm for tape measure whose reference point is its end face

±(0.2+0.1L) mm for tape measure whose reference point excludes its end face

### ■JIS B 7522 Textile Tape Measures

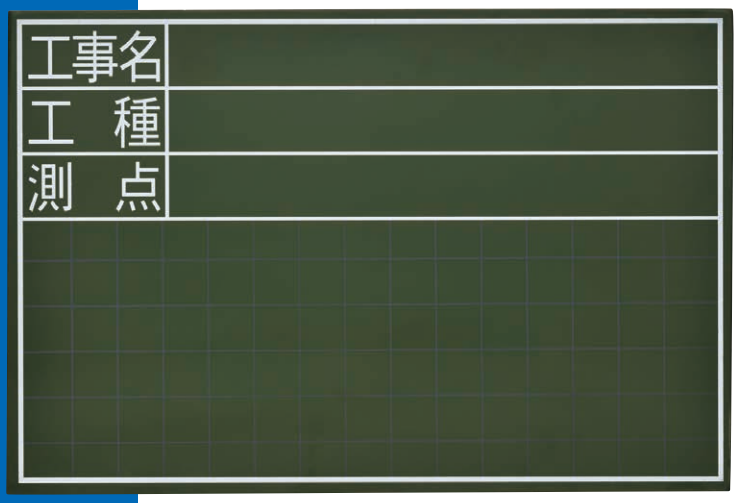
Tolerances on length for grade 1 (Class 1 Line graduation)

{ L is a numerical value expressing the measured value in meters (rounding up a fraction less than 1 to an integer place) }

±(0.6+0.4L) mm

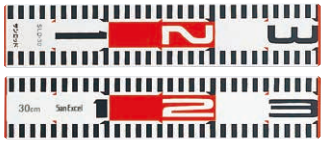
JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

# 8. Surveying Products



Packaging Ⓢ Shrink package Ⓑ Box VH Vinyl package + header card Ⓒ Card ☐ No package
SP Sleeve package Ⓑ Bag Ⓒ Clear package Ⓥ Vinyl package

## Aluminum Leveling Rod 60mm Wide




76931

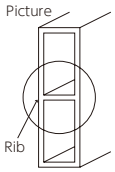
76926

| Item Code | Description | Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76931 | 30 cm | 6 | 105 | 4 960910 769311 | 20 | [B] |
| 76932 | 50 cm | 6 | 175 | 4 960910 769328 | | |
| 76933 | 70 cm | 6 | 250 | 4 960910 769335 | | |
| 76934 | 1 m | 6 | 365 | 4 960910 769342 | | |
| 76935 | 1.1 m | 6 | 405 | 4 960910 769359 | | |
| 77351 | 1.5 m | 6 | 510 | 4 960910 773516 | 10 | |
| 77352 | 2 m | 6 | 650 | 4 960910 773523 | | |
| 76926 | Cross Fitting for 60 mm Wide | 70x25x68 | 126 | 4 960910 769267 | 5 | VH |

### ■Leveling Rod

**Features**

- Light, thin aluminum material
- Center rib strengthens the structure against shock
- 100 mm of margin useful for joining with Cross Fitting or using inside as reference point (only 76935)




**Use**

- Photographic recording

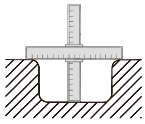
**Specifications**

| | |
|---|---|
| Material | Body: Aluminum<br>End of Rods: Polypropylene resin |

### ■Cross Fitting

**Features**

- Measure both vertically and horizontally by attaching to 60 mm width leveling rod



**Use**

- Attach to make a cross leveling rod

**Specifications**

| | |
|---|---|
| Material | Body: Iron (chrome plating) |

## Aluminum Cross Leveling Rod 60mm Wide

76936

| Item Code | Description | Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76936 | 1 × 1.1 m | 25 (Metal) | 900 | 4 960910 769366 | 5 | [B] |

**Features**

- Includes two leveling rods and a cross metal fitting to measure both vertically and horizontally

**Use**

- For on-site record photography

**Specifications**

| | |
|---|---|
| Material | Body: Aluminum<br>End of Rods: Polypropylene resin<br>Rods Fixture: Iron (chrome plating) |

JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

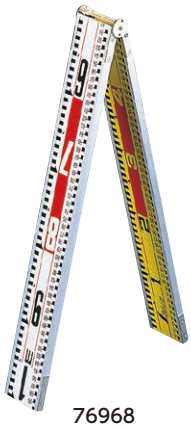
# Plywood Leveling Rod 63 mm Wide with Aluminum Frame

Front

Back

76965

76980


76968

| Item Code | Description | Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76964 | 30 cm | 12 | 152 | 4 960910 769649 | 1 | B |
| 76965 | 50 cm | 12 | 253 | 4 960910 769656 | | |
| 76966 | 70 cm | 12 | 335 | 4 960910 769663 | | |
| 76967 | 1 m | 12 | 472 | 4 960910 769670 | | |
| 76968 | 1 m 2 Folded | 24 | 514 | 4 960910 769687 | 5 | |
| 76980 | Cross Fitting for 63 mm Wide | 73x73x34 | 215 | 4 960910 769809 | 1 | VH |

## ■Leveling Rod

**Features**

- Veneer board is resistant to bending motion
- Numbers are marked every 1 cm on the vertical display side

**Use**

- For on-site record photography

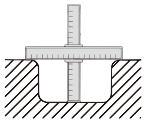
**Specifications**

| | |
|---|---|
| Material | Body: Veneer board<br>Frame: Aluminum<br>Tip End: Iron (chrome plating)<br>Edge: Stainless (only folded type)<br>Moveable Parts: Iron (chrome plating) (only folded type) |

## ■Cross Fitting

**Features**

- Enables measuring both vertically and horizontally together by attaching to 63 mm width leveling rod



**Use**

- Attach to make a cross leveling rod

**Specifications**

| | |
|---|---|
| Material | Body: Iron (chrome plating) |

*Not compatible for 1 m folded type

# Mini Telescopic Leveling Staff

■Front ・Metric graduation

■Back ・Metric + shaku graduation

76900

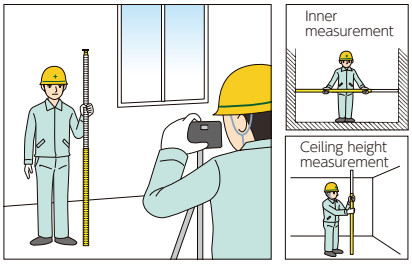
| Item Code | Description | Size in Stored (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76863 | 2 m 2 Steps | 1,085×26×14 | 370 | 4 960910 768635 | 6 | VH |
| 76900 | 3 m 3 Steps | 1,140×30×20 | 670 | 4 960910 769007 | | |

**Features**

- Convenient for measuring in rooms since graduations are measured in fine left and right 1 mm pitch
- Large end cap, graduations for inner measurement
- Drain holes for outdoor use

**Use**

- For horizontal, vertical, inner dimension and height measurements

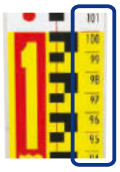



**Specifications**

| | |
|---|---|
| Material | Body: Aluminum |
| Length Tolerance | 2 m 2 steps: ±1.5 mm per 1 m<br>3 m 3 steps: ±2 mm per 1 m |

# Telescopic Leveling Staff Ⅱ

■Front Easy-to-read graduations every 10 mm
Red graduations every 50 mm



■Back 1 mm pitch graduations from the reference point

73266

73264

73265

73266

73267

73268

| Item Code | Description | Size in Stored (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73264 | 3 m 3 Steps | 1,188×50×27 | 1,100 | 4 960910 732643 | 2 | [B] |
| 73265 | 5 m 3 Steps | 1,893×50×27 | 1,700 | 4 960910 732650 | | |
| 73266 | 5 m 4 Steps | 1,489×50×27 | 1,650 | 4 960910 732667 | | |
| 73267 | 5 m 5 Steps | 1,244×50×27 | 1,600 | 4 960910 732674 | | |
| 73268 | 7 m 5 Steps | 1,645×50×27 | 2,100 | 4 960910 732681 | | |

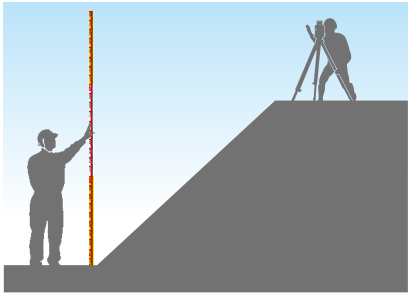
## Features

- Front has easy-to-read graduation lines every 10 mm. There are also red graduation lines every 50 mm. Additionally, background color alternates every 1 m between white and yellow, so one can quickly identify the number of meters even from far away.
- Back side has 1 mm pitch graduations from the reference point to also enable use in measurements for landscaping construction, etc.
- In addition to the background color, the number of meters can also be determined by the number of ●

●●…2 m
●●●…3 m
●●●●…4 m

● x 1 indicates 1 m

- Aluminum alloy, light weight, water-resistant
- One-touch detachable boards with the same button for each step make it easy to clean separately
- Convenient for measuring in areas with a large elevation difference such as hills or along the coast (73268)



## Use

- For leveling horizontally and vertically

## Specifications

| | |
|---|---|
| Material | Body: Aluminum Joint: ABS resin |
| Length Tolerance | ±L mm<br>L=m unit's measuring length (fractions are rounded up) |

# Telescopic Leveling Staff

■Front ・Yellow color every 1 m ・Vertical numbers every 1 cm ・Center line

■Back Red and white graduations every 50 cm

76930

| Item Code | Description | Size in Stored (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76973 | 5 m 3 Steps | 1,900×49×22 | 1,427 | 4 960910 769731 | 5 | [B] |
| 76930 | 5 m 4 Steps | 1,495×50×27 | 1,750 | 4 960910 769304 | | |

## Features

- Aluminum alloy, light weight, water-resistant
- One-touch detachable boards with the same button for each step make it easy to clean separately

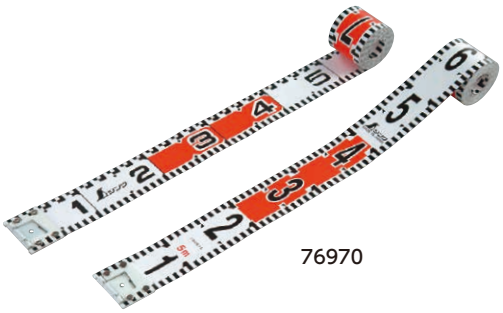
## Use

- For leveling horizontally and vertically

## Specifications

| | |
|---|---|
| Material | Body: Aluminum |
| Length Tolerance | ±3 mm per 1 m |

## Fiberglass Leveling Rod Tape



76970

### Features

- Large numbered graduations for photography
- Fade resistant
- Fiberglass tape with little elasticity

### Use

- For on-site record photography

### Specifications

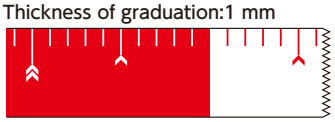
| | |
|---|---|
| Material | Tape: Fiberglass<br>Metal Fitting: Iron |
| Length Tolerance | 3 m: 3 m±3.6 mm<br>5 m: 5 m±5.2 mm<br>10 m: 10 m±9.2 mm |

| Item Code | Description | Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76969 | 3 m | 0.7 | 234 | 4 960910 769694 | 1 | VH |
| 76970 | 5 m | 0.7 | 352 | 4 960910 769700 | | |
| 76971 | 10 m | 0.7 | 643 | 4 960910 769717 | | |

## Adhesive Leveling Rod Tape

78192 78193 78194 78195 78196

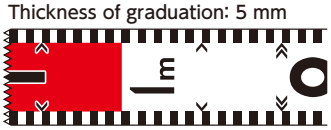
【78192 - 78195】
Thickness of graduation:1 mm



··· 5 cm mark

··· 10 cm mark

【78196】
Thickness of graduation: 5 mm



### Features

- With antireflective fabrication so objects will show clearly when photographed
- Will not peel even in temperatures from −10 to 40°C so it can be used reliably in summer or winter
- Can be written with an oil-based marker so a custom rule can easily be made

- Synthetic paper that does not release toxic gases even when burned
- With tape cutter to cut necessary length

### Use

- For positioning in banking drainage, and foundation work, as well as for photography

### Specifications

| | 78192 | 78193 | 78194 | 78195 | 78196 |
|---|---|---|---|---|---|
| Material | Tape: Synthetic paper Cutter: Iron | | | | |
| Thickness | 0.15 mm | | | | |
| Length | 25 m | | | | 26 m |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78192 | 50 mm x 25 m 20 cm Color Interval | φ107×50 | 210 | 4 960910 781924 | 5 | B |
| 78193 | 50 mm x 25 m 30 cm Color Interval | φ107×50 | 210 | 4 960910 781931 | | |
| 78194 | 75 mm x 25 m 20 cm Color Interval | φ107×75 | 310 | 4 960910 781948 | | |
| 78195 | 75 mm x 25 m 30 cm Color Interval | φ107×75 | 310 | 4 960910 781955 | | |
| 78196 | 60 mm x 26 m 20 cm Color Interval with Numbering | φ107×60 | 250 | 4 960910 781962 | | |

## Surveying Pole



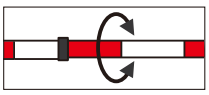
76984

76985

76988・76996

### Features

- Aluminum 2 m 2 steps model locks at a position just by turning right or left



- Highly weatherproof so it can be used repeatedly under various environments (76988/76996)
- About 50% lighter compared to wooden construction (76988/76996)
- End has a hard, steel tip (76988/76996)
- 10-item value set (76996)

### Use

- For indicating position or direction while leveling

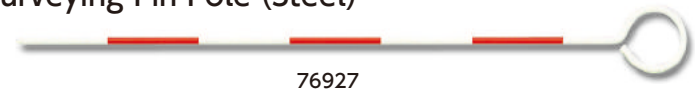
### Specifications

| | 76984 | 76985 | 76988 | 76996 |
|---|---|---|---|---|
| Material | Body: Wood<br>Tip End: Iron | Body: Aluminum<br>Tip End: Iron | Body: Aluminum<br>Tip End: PP, Iron<br>Cap: PP | |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76984 | Wood 2 m | φ28×2,095 | 1,000 | 4 960910 769847 | 20 | B |
| 76985 | Aluminum 2 m Steps | φ32(25)×1,195 (During storage) | 415 | 4 960910 769854 | 30 | |
| 76988 | Aluminum 2 m | φ29×2,061 | 468 | 4 960910 769885 | 10 | |
| 76996 | Aluminum 2 m 10 pc-set | φ29×2,061 | 468 ×10 | 4 960910 769960 | 1 | |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Surveying Pin Pole (Steel)



76927

| Item Code | Description | Diameter (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76927 | 30 cm φ4 | φ4 | 40 | 4 960910 769274 | 10 | [B] |
| 76928 | 60 cm φ4 | φ4 | 74 | 4 960910 769281 | | |
| 76976 | 30 cm φ6 | φ6 | 102 | 4 960910 769762 | | |
| 76977 | 50 cm φ6 | φ6 | 147 | 4 960910 769779 | 5 | |
| 76978 | 60 cm φ6 | φ6 | 168 | 4 960910 769786 | | |
| 76979 | 1 m φ8 | φ8 | 456 | 4 960910 769793 | | |

**Features**
- Baked finish for fade-resistance

**Use**
- For indicating position or direction while leveling

**Specifications**

| | |
|---|---|
| Material | Iron |

## Traverse Surveying Pin Pole (Hard Steel)

76982

| Item Code | Description | Diameter (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76982 | 50 cm φ3.2 | φ3.2 | 40 | 4 960910 769823 | 30 | [B] |

**Features**
- Baked finish for fade-resistance
- Hard steel material helps to penetrate into hard ground

**Use**
- For indicating position or direction while leveling

**Specifications**

| | |
|---|---|
| Material | Iron |

## Measuring Wheel

75421 75422

| Item Code | Description | Measuring Unit | Measurement Range | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 75421 | E10-S | 1 cm | 1 km | 820 | 4 960910 754218 | 1 | [B] |
| 75422 | E20-S | 10 cm | 10 km | 1,260 | 4 960910 754225 | | |

**Features**
- Easy-to-read counter at hand level

- Easy-to-hold handle
- Triple extensions for compact packing

**Use**
- For construction, plumbing works, engineering works, measurement of properties, measurement of interior works, layout of golf course, landscaping, etc.

**Specifications**

| | 75421 | 75422 |
|---|---|---|
| Maximum Size | 980 mm | 1,030 mm |
| Minimum Size | 570 mm | 620 mm |
| Wheel Diameter | 119 mm | 212 mm |
| Counter | Five-digit number | |
| Accuracy | ±1 cm per 100 cm | |
| Stand | Without | With |
| Material | Body: ABS resin, nylon resin, aluminum<br>Wheel: Rubber, polypropylene resin | |

## Construction Flag

76955

| Item Code | Description | Stick Size (mm) | Flag Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 76955 | Fabric Pair of White and Red | φ16.5×600 | 335×442 | 110 | 4 960910 769557 | 10 | [B] |
| 76909 | Nylon Pair of White and Red | φ16.5×600 | 340×450 | red: 100<br>white: 115 | 4 960910 769090 | | |

**Features**
- Flags clearly visible from a distance

**Use**
- For controlling traffic at construction sites, etc.

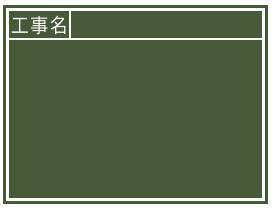
**Specifications**

| | 76955 | 76909 |
|---|---|---|
| Material | Wood, fabric | Wood, nylon |

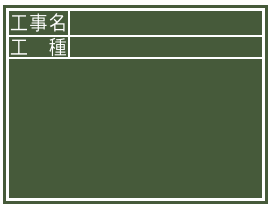
JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

# Construction Chalk Board Wood

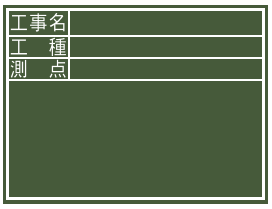
76975



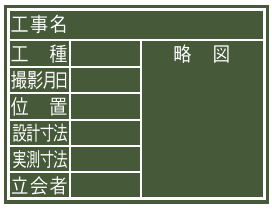
76956



76957



77059



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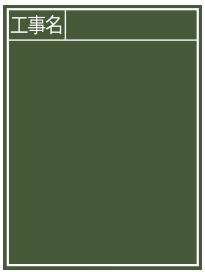
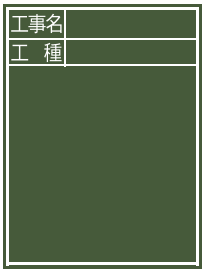


77057



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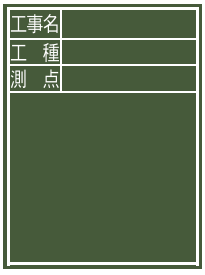

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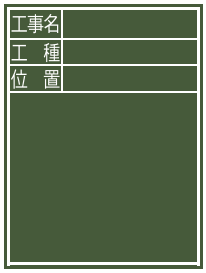
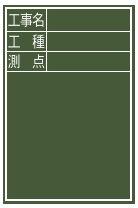
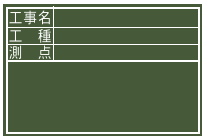


77068



77088

77031

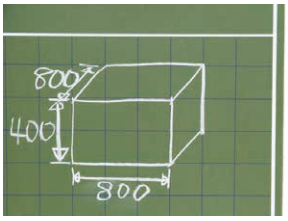


77087

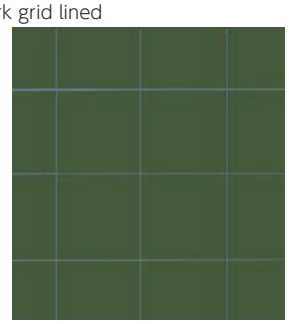
| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76975 | A 45 x 60 cm | 450×600×18 | 855 | 4 960910 769755 | 10 | B |
| 77031 | AS 30 x 45 cm | 300×450×17 | 410 | 4 960910 770317 | | |
| 76956 | B 45 x 60 cm | 450×600×18 | 855 | 4 960910 769564 | | |
| 77057 | B-2 60 x 45 cm | 600×450×18 | 855 | 4 960910 770577 | | |
| 76957 | C 45 x 60 cm | 450×600×18 | 855 | 4 960910 769571 | | |
| 77058 | C-2 60 x 45 cm | 600×450×18 | 855 | 4 960910 770584 | | |
| 77059 | D 45 x 60 cm | 450×600×18 | 855 | 4 960910 770591 | | |
| 77067 | D-2 60 x 45 cm | 600×450×18 | 855 | 4 960910 770676 | | |
| 77087 | DS 30 x 45 cm | 300×450×17 | 410 | 4 960910 770874 | | |
| 77088 | DS-2 45 x 30 cm | 450×300×17 | 410 | 4 960910 770881 | | |
| 77068 | E-2 60 x 45 cm | 600×450×18 | 855 | 4 960910 770683 | | |
| 77069 | F 45 x 60 cm | 450×600×18 | 855 | 4 960910 770690 | | |

## Features

●Suitable for construction site photography




●Dark grid lined

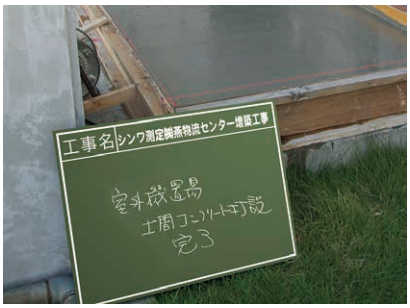


●Eraser + 3 pc-pack chalks included

●Folding stand and storage for equipment at the back

## Use

●For on-site record photography

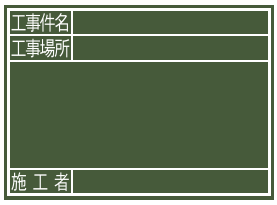



## Specifications

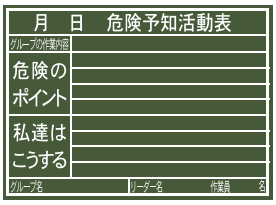
| | |
|---|---|
| Material | Body: Wood |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

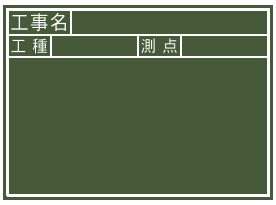
# Construction Chalk Board Wood



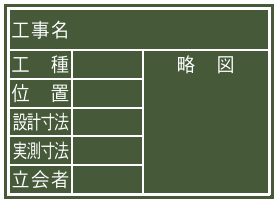

77078



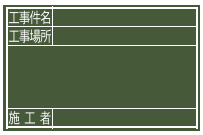

77079



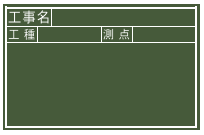

77037




77314




77329




77334

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77078 | G 45 x 60 cm | 450×600×18 | 855 | 4 960910 770782 | 10 | [B] |
| 77329 | GS 30 x 45 cm | 300×450×17 | 410 | 4 960910 773295 | | |
| 77079 | H 45 x 60 cm | 450×600×18 | 855 | 4 960910 770799 | | |
| 77037 | J 45 x 60 cm | 450×600×18 | 855 | 4 960910 770379 | | |
| 77334 | JS 30 x 45 cm | 300×450×17 | 410 | 4 960910 773349 | | |
| 77314 | K 45 x 60 cm | 450×600×18 | 855 | 4 960910 773141 | | |

## Features

- Suitable for construction site photography
- Dark grid lined
- Eraser + 3 pc-pack chalks included

- Folding stand and storage for equipment at the back

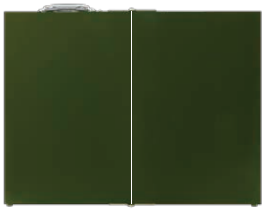
## Use

- For on-site record photography
- For on-site safety control (77079)

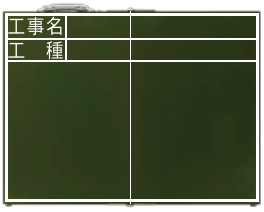
## Specifications

| | |
|---|---|
| Material | Body: Wood |

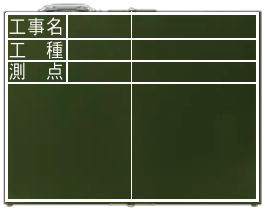
# Construction Folding Chalk Board Wood



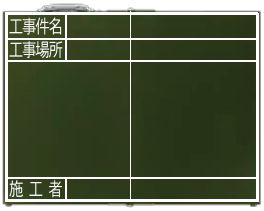
76874




76875




76876

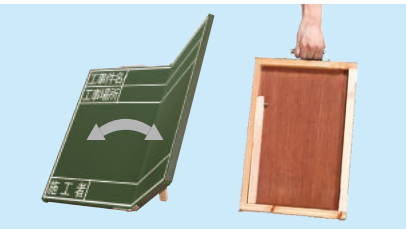



76877

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76874 | OA 45 × 60 cm | 467×600×24 | 1,040 | 4 960910 768741 | 5 | [B] |
| 76875 | OC 45 × 60 cm | 467×600×24 | 1,040 | 4 960910 768758 | | |
| 76876 | OD 45 × 60 cm | 467×600×24 | 1,040 | 4 960910 768765 | | |
| 76877 | OG 45 × 60 cm | 467×600×24 | 1,040 | 4 960910 768772 | | |

## Features

- Convenient for storage and preventing scratches
- Handle for better portability



- Suitable for construction site photographs
- Dark grid lined
- Eraser + 3 pc-pack chalks included

- Folding stand and storage for equipment at the back

## Use

- For on-site record photography

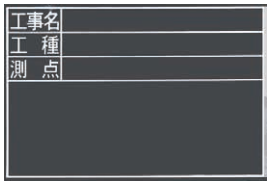
## Specifications

| | |
|---|---|
| Material | Body: Wood |

JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

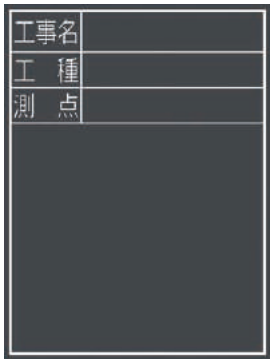
# Construction Water-resistant Chalk Board

77061

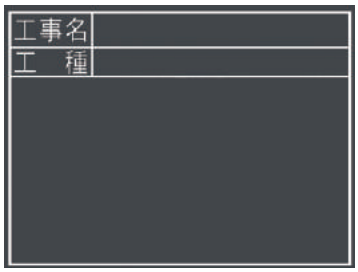



78229

77328



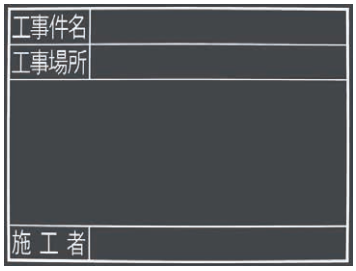

77075




77322

78230

77074



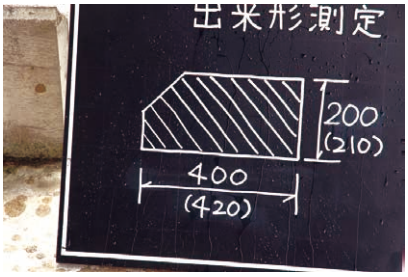

78238

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77061 | TA 45 x 60 cm | 450×600×18 | 855 | 4 960910 770614 | 10 | [B] |
| 77328 | TB 45 x 60 cm | 450×600×18 | 855 | 4 960910 773288 | | |
| 77322 | TC 45 x 60 cm | 450×600×18 | 855 | 4 960910 773226 | | |
| 77074 | TD 45 x 60 cm | 450×600×18 | 855 | 4 960910 770744 | | |
| 78229 | TDS 30 x 45 cm | 300×450×17 | 430 | 4 960910 782297 | | |
| 77075 | TD-2 60 x 45 cm | 600×450×18 | 855 | 4 960910 770751 | | |
| 78230 | TF 45 x 60 cm | 450×600×18 | 855 | 4 960910 782303 | | |
| 78238 | TG 45 x 60 cm | 450×600×18 | 855 | 4 960910 782389 | | |

## Features

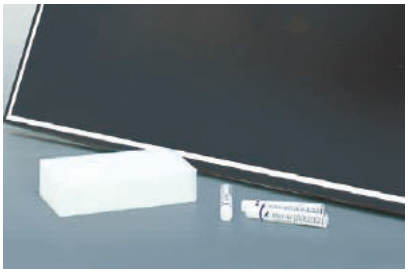
●Water-resistant, weatherproof

●By using water-resistant chalk on a water-resistant chalkboard, letters will not be washed off. A construction record photo can be taken in rain.




●Dark grid lined

●Special eraser, 3 x water-resistant chalks included



●Folding stand and storage for equipment at the back

## Use

●For on-site record photography

## Specifications

| | |
|---|---|
| Material | Body: Wood |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# Construction Chalk Board Steel

77510

77539

77533

77514

77511

77540

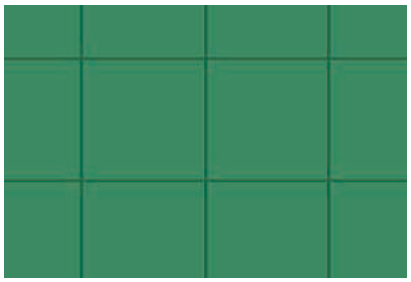
77513

77523

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77510 | SA 45 x 60 cm | 470×600×15 | 1,850 | 4 960910 775107 | 1 (5) | B |
| 77533 | SAS 30 x 45 cm | 320×450×15 | 1,100 | 4 960910 775336 | | |
| 77511 | SC 45 x 60 cm | 470×600×15 | 1,850 | 4 960910 775114 | | |
| 77513 | SD 45 x 60 cm | 470×600×15 | 1,850 | 4 960910 775138 | | |
| 77539 | SDS 30 x 45 cm | 320×450×15 | 1,100 | 4 960910 775398 | | |
| 77514 | SD-2 60 x 45 cm | 620×450×15 | 1,850 | 4 960910 775145 | | |
| 77540 | SDS-2 45 x 30 cm | 470×300×15 | 1,100 | 4 960910 775404 | | |
| 77523 | SG 45 x 60 cm | 470×600×15 | 1,850 | 4 960910 775237 | | |

## Features

- Durable steel surface
- Aluminum frame increases durability
- Dark grid lined



- Eraser + 3 pc-pack chalks included

- Easy carrying handle

- Magnet compatible

- Storage for equipment

- Folding stand on the back

## Use

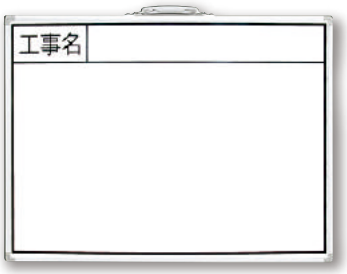
- For on-site record photography

## Specifications

| | |
|---|---|
| Material | Front: Steel Back: Aluminum<br>Frame: Aluminum Stand: Iron<br>Handle, Corner: ABS resin |

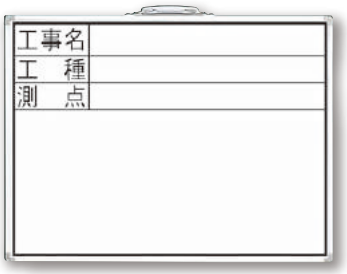
# Construction White Board

77357




77358

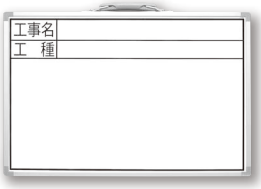
77331




77332

77385

77365




77366

77333

77368

77367

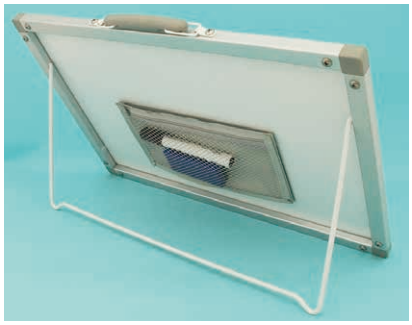
| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77357 | AW 45 x 60 cm | 470×600×15 | 1,790 | 4 960910 773578 | 1 (5) | B |
| 77365 | ASW 30 x 45 cm | 320×450×15 | 940 | 4 960910 773653 | | |
| 77358 | BW 45 x 60 cm | 470×600×15 | 1,790 | 4 960910 773585 | | |
| 77331 | CW 45 x 60 cm | 470×600×15 | 1,790 | 4 960910 773318 | | |
| 77366 | CSW 30 x 45 cm | 320×450×15 | 940 | 4 960910 773660 | | |
| 77332 | DW 45 x 60 cm | 470×600×15 | 1,790 | 4 960910 773325 | | |
| 77333 | DW-2 60 x 45 cm | 620×450×15 | 1,790 | 4 960910 773332 | | |
| 77367 | DSW 30 x 45 cm | 320×450×15 | 940 | 4 960910 773677 | | |
| 77368 | DSW-2 45 x 30 cm | 470×300×15 | 940 | 4 960910 773684 | | |
| 77385 | FW 45 x 60 cm | 470×600×15 | 1,790 | 4 960910 773851 | | |

## Features

●Eraser + one white board marker (black) included

●Easy to carry

●Folding stand and storage for equipment at the back



●Magnet compatible

## Use

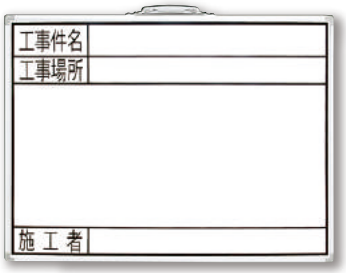
●For on-site record photography

## Specifications

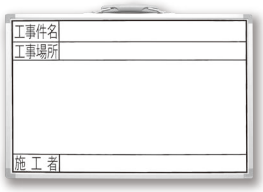
| | |
|---|---|
| Material | Front: Steel　Back: Aluminum<br>Frame: Aluminum　Stand: Steel<br>Handle, Corner: ABS resin |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

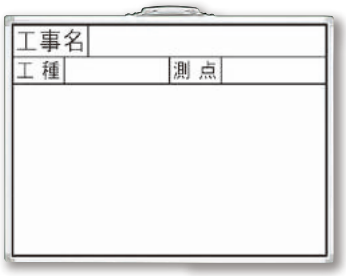
## Construction White Board



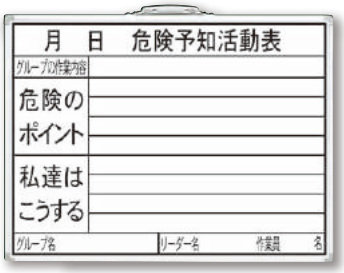

77359




77369




77387




77386

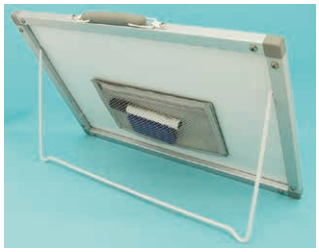
| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77359 | GW 45 x 60 cm | 470×600×15 | 1,790 | 4 960910 773592 | 1 (5) | B |
| 77369 | GSW 30 x 45 cm | 320×450×15 | 940 | 4 960910 773691 | | |
| 77386 | HW 45 x 60 cm | 470×600×15 | 1,790 | 4 960910 773868 | | |
| 77387 | JW 45 x 60 cm | 470×600×15 | 1,790 | 4 960910 773875 | | |

### Features

- Eraser + one white board marker (black) included

- Easy to carry

- Folding stand and storage for equipment at the back



### Use

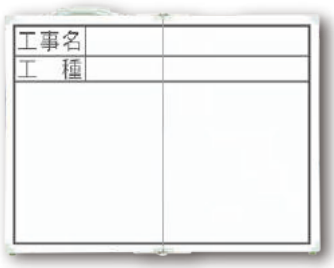
- For on-site record photography
- For on-site safety control (77386)

### Specifications

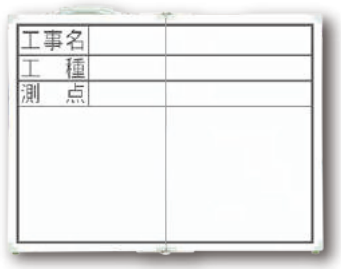
| | |
|---|---|
| Material | Front: Steel Back: Aluminum<br>Frame: Aluminum Stand: Steel<br>Handle, Corner: ABS resin |

## Folding Construction White Board

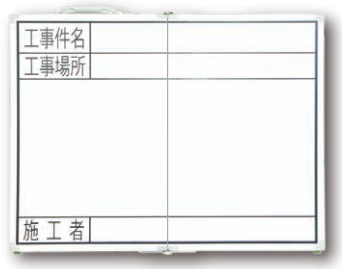
77741




77742




77743

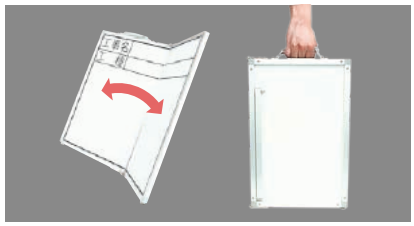



77744

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77741 | OAW 45 x 60 cm | 470×600×15 | 1,660 | 4 960910 777415 | 1 (5) | B |
| 77742 | OCW 45 x 60 cm | 470×600×15 | 1,660 | 4 960910 777422 | | |
| 77743 | ODW 45 x 60 cm | 470×600×15 | 1,660 | 4 960910 777439 | | |
| 77744 | OGW 45 x 60 cm | 470×600×15 | 1,660 | 4 960910 777446 | | |

### Features

- Convenient for storage and preventing scratches
- Handle for better portability
- Durable aluminum frame



- Eraser + one white board marker (black) included
- Folding stand and storage for equipment at the back

### Use

- For on-site record photography

### Specifications

| | |
|---|---|
| Material | Front: Steel Back: Aluminum<br>Frame: Aluminum Stand: Aluminum<br>Handle, Corner: ABS resin |

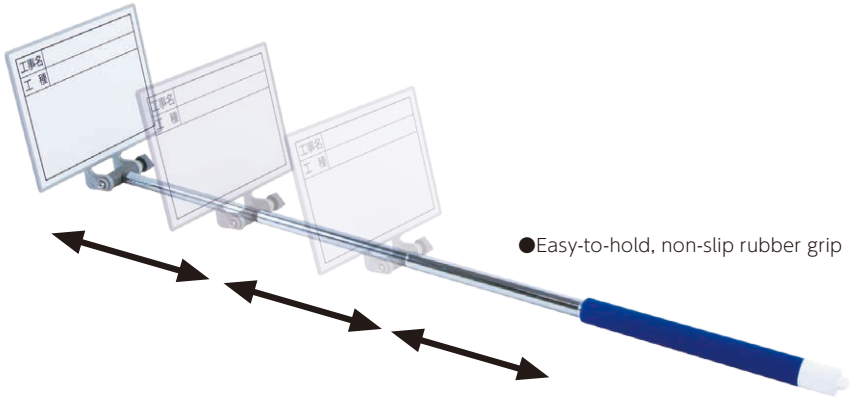
# Construction White Board Mini with Telescopic Arm

77626

77627

78161

78162



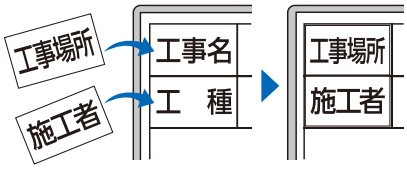
●Easy-to-hold, non-slip rubber grip

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77626 | MCSW 11 x 14 cm with Itemized Magnetic Sheet NEW | 198×146×30 (folded) | 162 | 4 960910 776265 | 5 | SP |
| 77627 | MCW 14 x 17 cm with Itemized Magnetic Sheet NEW | 198×176×30 (folded) | 206 | 4 960910 776272 | | |
| 78161 | MCSW 11 x 14 cm | 198×146×30 (folded) | 162 | 4 960910 781610 | | |
| 78162 | MCW 14 x 17 cm | 198×176×30 (folded) | 206 | 4 960910 781627 | | |

## Features

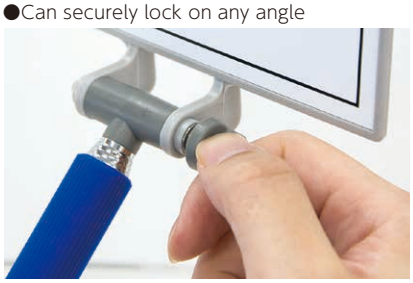
●Does not reflect camera flash easily during photography so board will show clearly

●Magnetic sheet title is only stuck on so title can be changed easily




●Steel sheets with itemized magnetic sheets attached can be stuck to the back of Construction White Board Mini with Telescopic Arm for storage

●Can securely lock on any angle



●Includes a whiteboard eraser and marker

## Use

●For on-site record photography

## Specifications

■Whiteboard

| | 77626/78161 | 77627/78162 |
|---|---|---|
| Maximum Extension | Up to 725 mm | Up to 755 mm |
| Material | Board: Steel<br>Frame, Joint, Fixing screw, Cap: ABS resin<br>Telescopic Part: Brass<br>Grip: Silicone rubber | |

■Itemized Magnetic Sheet

| | |
|---|---|
| Material | Vinyl chloride synthetic rubber |
| Magnetic material | Isotropic |
| Adsorption power | 0.09 N/cm², 9 gf/cm² |

■Whiteboard Marking Pen

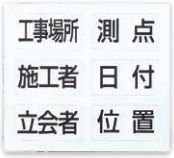
| | |
|---|---|
| Material | Body: ABS resin<br>Magnet: Vinyl chloride synthetic rubber<br>Ink: Oil (Pigmented ink) |
| Body Size | 135×13.5×16 mm |
| Weight | 9 g |

■Whiteboard Eraser

| | |
|---|---|
| Material | Polyurethane resin |
| Body Size | 50×50×20 mm |
| Weight | 1 g |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Itemized Magnetic Sheet 6 item-set



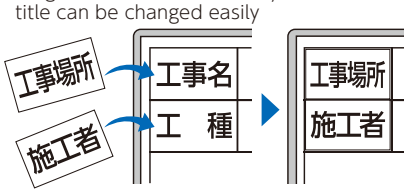

78428

78427

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78428 | For Construction White Board Mini MCSW 11 x 14 cm | 62×55×0.6 | 7 | 4 960910 784284 | 5 | [B] |
| 78427 | For Construction White Board Mini MCW 14 x 17 cm | 80×76×0.6 | 12 | 4 960910 784277 | | |

### Features

●Magnetic sheet title is only stuck on so title can be changed easily




●Steel sheet construction so they can be stuck to the back of the whiteboard for storage

### Use

●For changing titles on the Whiteboard Mini Expandable Type Series

### Specifications

| | |
|---|---|
| Material | Vinyl chloride synthetic rubber |
| Magnetic Material | Isotropic |
| Adsorption Power | 0.09 N/cm², 9 gf/cm² |

## Whiteboard Marking Pen/Eraser

78503

78504

78506

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78503 | Whiteboard Marking Pen Black | 135×17×17 | 13 | 4 960910 785038 | 10 | [B] |
| 78504 | Whiteboard Marking Pen Red | 135×17×17 | 13 | 4 960910 785045 | | |
| 78506 | Whiteboard Marking Pen Black Fine with Eraser and Magnet | 135×13.5×16 | 9 | 4 960910 785069 | | |

### Features

●Smooth flowing alcohol-based ink

■Eraser and magnet
●Cap includes an eraser, so written letters can easily be erased
●Cap includes a magnet so it can attach to a whiteboard, etc.

(78503/78504)

(78506)

### Use

●For writing on whiteboard

### Specifications

| | 78503 | 78504 | 78506 |
|---|---|---|---|
| Material | Body: Polypropylene resin<br>Ink: Oil (Pigmented ink) | | Body: ABS resin<br>Magnet: Vinyl chloride synthetic rubber<br>Ink: Oil (Pigmented ink) |

## Waterproof Chalkboard Marking Pen/Chalk

78505
*Not suitable for ordinal chalkboard

77064
*Not suitable for ordinal chalkboard

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78505 | Waterproof Chalkboard Marking Pen White | 130×20×17 | 20 | 4 960910 785052 | 10 | [B] |
| 77064 | Chalk for Waterproof Chalkboard | 70×11×11 | 7 | 4 960910 770645 | | |

### Features

■Marking Pen
●Stays on even under wet conditions
●Smooth flowing bold round tip
●Erased easily by any fabric
●3 mm-wide line shows up clearly in record photography

■Chalk
●Can be used under wet conditions
●Usable on asphalt or concrete as well as water-resistant chalkboard
●Each chalk is wrapped to keep your hand clean

### Use

●For writing on water-resistant chalkboard

### Specifications

| | 78505 | 77064 |
|---|---|---|
| Material | Body: Polypropylene resin<br>Ink: Oil (Pigmented ink) | Body: Oil (Pigment) |

## Eraser

77353

77045
*Not suitable for ordinal chalk

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77353 | Eraser for Chalkboard and Whiteboard | 112×44×29 | 19 | 4 960910 773530 | 10 | [B] |
| 77045 | Eraser for Waterproof Chalkboard | 98×55×30 | 1 | 4 960910 770454 | | |

### Features

■Eraser for Chalkboard and Whiteboard
●Eraser with magnet

■Eraser for Waterproof Chalkboard
●Just rub lightly to erase

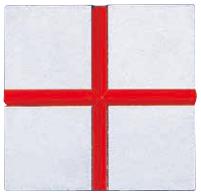
### Use

●For erasing on blackboard, whiteboard, and water-resistant chalkboard

### Specifications

| | 77353 | 77045 |
|---|---|---|
| Material | ABS resin, cotton | Melamine foam |

## KONOE MASTER LINE

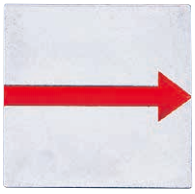


76911
76916

76912
76917

76913
76918

76914
76919



76915
76920

Stick-on type back

Insert type back

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76911 | M-1 Stick-on Type | 50×50×4 | 25 | 4 960910 769113 | 10 | [B] |
| 76912 | M-2 Stick-on Type | 50×50×4 | 25 | 4 960910 769120 | | |
| 76913 | M-3 Stick-on Type | 50×50×4 | 25 | 4 960910 769137 | | |
| 76914 | M-4 Stick-on Type | 50×50×4 | 25 | 4 960910 769144 | | |
| 76915 | M-5 Stick-on Type | 50×50×4 | 25 | 4 960910 769151 | | |
| 76916 | M-6 Insert Type | 50×50×10 | 58 | 4 960910 769168 | | |
| 76917 | M-7 Insert Type | 50×50×10 | 58 | 4 960910 769175 | | |
| 76918 | M-8 Insert Type | 50×50×10 | 58 | 4 960910 769182 | | |
| 76919 | M-9 Insert Type | 50×50×10 | 58 | 4 960910 769199 | | |
| 76920 | M-10 Insert Type | 50×50×10 | 58 | 4 960910 769205 | | |

### Features

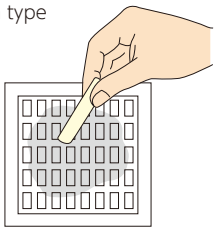
●Made of durable aluminum alloy
●Light, clear, easily seen design
●Two types available: stick-on and insert

### Use

●For identification in a boundary survey
(It can be attached with adhesives or bolts to places where concrete or plastic stakes cannot be used)

■How to place KONOE MASTER LINE

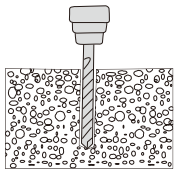
●Stick-on type



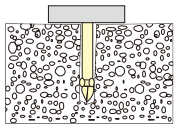
Install by pasting concrete/metal adhesives

●Insert type

1. Make a hole that matches the position of the master line bolt



2. Insert after pouring concrete or metal adhesives

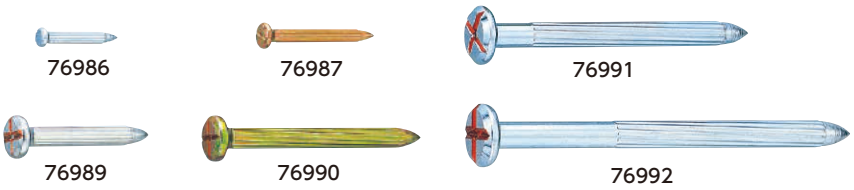


### Specifications

| | |
|---|---|
| Material | Body: Aluminum alloy<br>Bolt (Insert type): Stainless steel |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# KONOE NAIL




| Item Code | Description | Body Size (mm) D | d | H | L | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|---|
| 76986 | No.01 100 pc-pack | 6 | 4 | 2 | 27 | 2 | 4 960910 769861 | 5 | SP |
| 76987 | No.1 50 pc-pack | 9 | 5 | 3 | 43 | 6 | 4 960910 769878 | | |
| 76989 | No.2 20 pc-pack | 15 | 7 | 4 | 55 | 20 | 4 960910 769892 | | |
| 76990 | No.3 20 pc-pack | 15 | 7 | 5 | 80 | 30 | 4 960910 769908 | | |
| 76991 | No.4 10 pc-pack | 20 | 9 | 5 | 105 | 50 | 4 960910 769915 | | |
| 76992 | No.5 10 pc-pack | 20 | 9 | 5 | 130 | 65 | 4 960910 769922 | | |

## Features

- Made of special steel
- Various types available from paved road to gravel road use

## Use

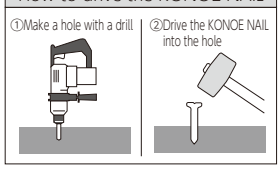
- As a benchmark nail (from paved road to gravel road use)

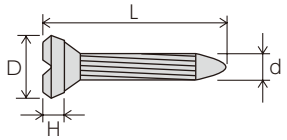
| KONOE NAIL | Use | KONOE DOUBLE |
|---|---|---|
| No.01 | Wood, plastic | 2 |
| No.1 | Concrete | |
| No.2 | Asphalt | 3 |
| No.3 | | |
| No.4 | Gravel road | |
| No.5 | | |

## Specifications

| | |
|---|---|
| Material | Steel |

How to drive the KONOE NAIL




■Standard size of pilot hole for the KONOE NAIL

| Concrete | Asphalt |
|---|---|
| About 1.0 mm smaller than the KONOE NAIL diameter | About 1.5 mm smaller than the KONOE NAIL diameter |

# KONOE NAIL Mini Pack

| Item Code | Description | Body Size (mm) D | d | H | L | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|---|
| 76938 | No.01 20 pc-pack | 6 | 4 | 2 | 27 | 2 | 4 960910 769380 | 5 | SP |
| 76939 | No.1 20 pc-pack | 9 | 5 | 3 | 43 | 6 | 4 960910 769397 | | |
| 76940 | No.2 5 pc-pack | 15 | 7 | 4 | 55 | 20 | 4 960910 769403 | | |
| 76941 | No.3 5 pc-pack | 15 | 7 | 5 | 80 | 30 | 4 960910 769410 | | |
| 76942 | No.4 5 pc-pack | 20 | 9 | 5 | 105 | 50 | 4 960910 769427 | | |
| 76943 | No.5 5 pc-pack | 20 | 9 | 5 | 130 | 65 | 4 960910 769434 | | |

# KONOE DOUBLE

| Item Code | Description | Body Size (mm) D | d | H | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|
| 76993 | 2 Red 100 pc-pack | 27 | 5 | 4 | 2 | 4 960910 769939 | 5 | SP |
| 76994 | 2 Yellow 100 pc-pack | 27 | 5 | 4 | 2 | 4 960910 769946 | | |
| 76995 | 2 Blue 100 pc-pack | 27 | 5 | 4 | 2 | 4 960910 769953 | | |

## Features

- ABS resin material is durable and coloring lasts longer.

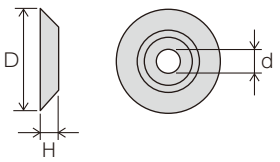
## Use

- As a highlighted base of the bench mark nail (with KONOE NAIL)

| KONOE DOUBLE | Use | KONOE NAIL |
|---|---|---|
| 2 | Wood, plastic | No.01 |
| | Concrete | No.1 |
| 3 | Asphalt | No.2 |
| | | No.3 |
| | Gravel road | No.4 |
| | | No.5 |

## Specifications

| | |
|---|---|
| Material | ABS resin |




# KONOE DOUBLE Mini Pack

| Item Code | Description | Body Size (mm) D | d | H | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|---|
| 76946 | 2 Red 20 pc-pack | 27 | 5 | 4 | 2 | 4 960910 769465 | 5 | SP |
| 76947 | 2 Yellow 20 pc-pack | 27 | 5 | 4 | 2 | 4 960910 769472 | | |
| 76948 | 2 Blue 20 pc-pack | 27 | 5 | 4 | 2 | 4 960910 769489 | | |
| 76949 | 3 Red 5 pc-pack | 47 | 10 | 7 | 6 | 4 960910 769496 | | |
| 76950 | 3 Yellow 5 pc-pack | 47 | 10 | 7 | 6 | 4 960910 769502 | | |
| 76951 | 3 Blue 5 pc-pack | 47 | 10 | 7 | 6 | 4 960910 769519 | | |

## Marking Tape

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 74161 | 15 mm × 50 m Pink | φ82×15 | 77 | 4 960910 741614 | 10 | [B] |
| 74162 | 15 mm × 50 m Yellow | φ82×15 | 77 | 4 960910 741621 | | |
| 74163 | 15 mm × 50 m Orange | φ82×15 | 77 | 4 960910 741638 | | |
| 74164 | 15 mm × 50 m Blue | φ82×15 | 77 | 4 960910 741645 | | |
| 73798 | 30 mm × 50 m Pink | φ82×30 | 170 | 4 960910 737983 | | |
| 73799 | 30 mm × 50 m Yellow | φ82×30 | 170 | 4 960910 737990 | | |
| 73800 | 30 mm × 50 m Orange | φ82×30 | 170 | 4 960910 738003 | | |
| 74125 | 30 mm × 50 m Blue | φ82×30 | 170 | 4 960910 741256 | | |
| 73865 | 30 mm × 100 m Pink | φ106×30 | 320 | 4 960910 738652 | 5 | |

### Features

- Highly visible fluorescent color
- Large rolls: 50 m or 100 m length
- Tear easily by hand
- Does not become bulky when used in large quantity

### Use

- For survey work, construction work, tree planting, tree measurement, etc.

### Specifications

| | |
|---|---|
| Material | Polyvinyl chloride resin |
| Thickness | 0.09 mm |

*Not adhesive

## Rebar Marker

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78529 | Red 10 pc-pack | 50 | 6 | 4 960910 785298 | 10 | (SP) |
| 78530 | Orange 10 pc-pack | 50 | 6 | 4 960910 785304 | | |
| 78531 | Yellow 10 pc-pack | 50 | 6 | 4 960910 785311 | | |
| 78532 | White 10 pc-pack | 50 | 6 | 4 960910 785328 | | |
| 78533 | Green 10 pc-pack | 50 | 6 | 4 960910 785335 | | |
| 78534 | Blue 10 pc-pack | 50 | 6 | 4 960910 785342 | | |
| 78552 | Pink 10 pc-pack | 50 | 6 | 4 960910 785526 | | |

### Features

- Easy to install with soft material

- Highly visible marker

- Silicone rubber, heat-resistant, cold-resistant and weatherproof

### Use

- For photography of rebar pitch arrangement, checking spaces of horizontal and vertical pitches, and classifying diameters of rebars by colors

### Specifications

| | |
|---|---|
| Material | Silicone rubber |
| Range of Use | About 13~30 mm diameters |

## Leveling Line

| Item Code | Description | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|
| 78563 | Yellow 3 mm 30 m | 290 | 4 960910 785632 | 4 | [B] |
| 78564 | Pink 3 mm 30 m | 290 | 4 960910 785649 | | |

### Features

- Highly visible fluorescent color
- Hard to break, 3 mm thickness

### Use

- For record photography of basement construction or road construction

### Specifications

| | |
|---|---|
| Material | Coating: Polyethylene resin<br>Roll Core: Rubber |
| Thickness | 3 mm |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# 9. Scales

Packaging
- Shrink package
- Sleeve package
- Box
- Bag
- Vinyl package + header card
- Clear package
- Card
- Vinyl package
- No package

## Digital Compact Scale

70163

100 g proofreading counterweight included

Case included

### Features

- Portable pocket size
- Able to show net weight without weight of container or bag
- Simple and highly visible white LCD display – visible even in the dark

- With auto power off function
- With back light

### Use

- For weighing small parts, calculating number

### Specifications

**Not for commercial use**

| | |
|---|---|
| Capacity | 200 g |
| Minimum Measurement | 0.2 g |
| Scale Interval | 0.1 g |
| Linearity | ±0.2 g |
| Use Environment | 10-30℃ (lower than 85% of humidity) |
| Automatic Power Off | 1 minute |
| Material | Platform: Stainless steel<br>Cover: ABS resin |
| Digital Display | LCD Display, Character Height: 13 mm |
| Power Source | 2x AAA Alkaline batteries<br>(Batteries included are for trial use only and may not last as long) |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70163 | Mini 200 g | 115×64×18 | 110 | 4 960910 701632 | 3 | C |

JIS JIS mark · Red With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Digital Scale for Commercial Use

70194

●Inspection certificate plate: serial number, assembly year, calibration month & year

70119
Sold separately

**Plastic tray included**

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70191 | 3 kg | 281×259×148 | 2,050 | 4 960910 701915 | 1 (2) | B |
| 70192 | 6 kg | 281×259×148 | 2,050 | 4 960910 701922 | | |
| 70193 | 15 kg | 281×259×148 | 2,060 | 4 960910 701939 | | |
| 70194 | 30 kg | 281×259×148 | 2,065 | 4 960910 701946 | | |
| 70119 | AC adapter | 84×58×69 | 463 | 4 960910 701199 | 1 | |

### Features

●Dustproof and waterproof
**IP56** 5 Protected from limited dust ingress
6 Protected from high pressure water jets from any direction

●30 mm character height large, back-lit screen

●Stainless steel plate accessory allows sanitary use. Detachable and washable
●Auto power off function: Turns off after about 9 minutes pass without operation
●Tare function that allows for the weight of the container and displays only the weight of the contents

### Use

●For weighing various things from crops to fishery products, etc

### Specifications

**Suitable for commercial use**

| | 70191 | 70192 | 70193 | 70194 |
|---|---|---|---|---|
| Capacity | 3 kg | 6 kg | 15 kg | 30 kg |
| Minimum Measurement | 50 g | 100 g | 200 g | 500 g |
| Resolution | 1/600 | 1/600 | 1/750 | 1/600 |
| Scale Interval | 5 g | 10 g | 20 g | 50 g |
| Linearity | ±5 g | ±10 g | ±20 g | ±50 g |
| Reproducibility | ±5 g | ±10 g | ±20 g | ±50 g |
| Auto Power Off | Approximately 9 minutes | | | |
| Digital Display | LCD Display, Character Height: 30mm | | | |
| Dustproof/Waterproof | IP56 (when the battery is used) | | | |
| Plate Size | 200 × 240 mm | | | |
| Material | Body: ABS resin | | | |
| Power Source | 6x Alkaline batteries (not included)<br>AC adapter (sold separately #70119) | | | |
| Rated Voltage | DC9V | | | |

## Digital Scale

70106

**Plastic tray included**

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70104 | 3 kg | 281×259×148 | 1,910 | 4 960910 701045 | 1 (2) | B |
| 70105 | 6 kg | 281×259×148 | 1,918 | 4 960910 701052 | | |
| 70106 | 15 kg | 281×259×148 | 1,924 | 4 960910 701069 | | |
| 70107 | 30 kg | 281×259×148 | 1,928 | 4 960910 701076 | | |

### Features

●Dustproof and waterproof
**IP56** 5 Protected from limited dust ingress
6 Protected from high pressure water jets from any direction

●30 mm character height large, back-lit screen

●Stainless steel plate accessory allows sanitary use. Detachable and washable
●Auto power off function: Turns off after about 9 minutes pass without operation
●With tare function that allows for the weight of the container and displays only the weight of the contents

### Use

●For weighing various things from crops to fishery products, etc

### Specifications

**Not for commercial use**

| | 70104 | 70105 | 70106 | 70107 |
|---|---|---|---|---|
| Capacity | 3 kg | 6 kg | 15 kg | 30 kg |
| Minimum Measurement | 20 g | 40 g | 100 g | 200 g |
| Resolution | 1/3000 | | | |
| Scale Interval | 1 g | 2 g | 5 g | 10 g |
| Linearity | ±1 g | ±2 g | ±5 g | ±10 g |
| Reproducibility | ±1 g | ±2 g | ±5 g | ±10 g |
| Auto Power Off | Approximately 9 minutes | | | |
| Digital Display | LCD Display, Character Height: 30 mm | | | |
| Dustproof/Waterproof | IP56 (when the battery is used) | | | |
| Plate Size | 200 × 240 mm | | | |
| Material | Body: ABS resin | | | |
| Power Source | 6x Alkaline batteries (not included)<br>AC adapter (sold separately #70119) | | | |
| Rated Voltage | DC9V | | | |

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Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# Digital Scale Remote-reading

70108

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70108 | 100 kg | 276×291×33<br>Operating part<br>108×120×55 | 3,380 | 4 960910 701083 | 4 | B |

## Features

- Visible display position - remote display
- Rust-resistant stainless steel platform
- Low height platform (33 mm) is convenient when weighing heavy goods
- Easy-to-read 15 mm character height LCD display
- Auto power off function
- Percentage mode for comparative measurement
- Convenient tare function
- AC adapter included
  (1x 9V Alkaline battery also included)

## Use

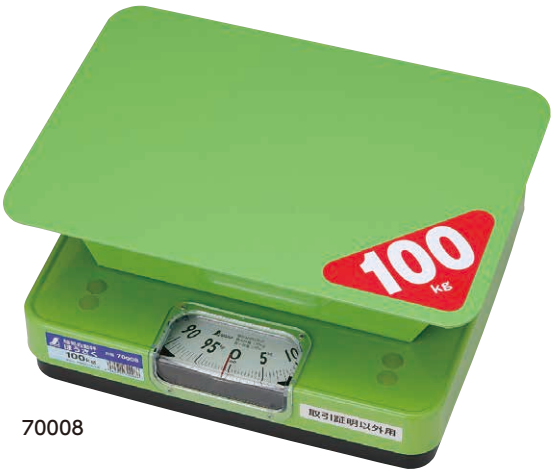
- For weighing crops, etc.

## Specifications

**Not for commercial use**

| | |
|---|---|
| Capacity | 100 kg |
| Minimum Measurement | 0.5 kg |
| Scale Interval | 0.05 kg |
| Accuracy | ±0.5 kg |
| Use Environment | 5 - 35℃ (without condensation) |
| Automatic Power Off | 4 minutes |
| Digital Display | LCD Display, Character Height: 15 mm |
| Material | Platform: Stainless steel<br>Body: Glass<br>Operating Part: ABS resin |
| Power Source | 1x 9V Alkaline battery<br>(Battery included is for trial use only and may not last as long)<br>AC adapter |

# Scale




70008

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70026 | 50 kg | 350×289×146 | 5,000 | 4 960910 700260 | 1 | B |
| 70008 | 100 kg | 350×289×146 | 5,000 | 4 960910 700086 | | |

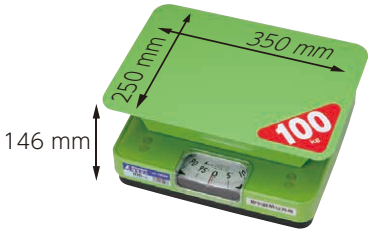
## Features

- Easy-to-read graduation plate

50 kg

100 kg

- Low height platform is convenient when weighing heavy goods




## Use

- For weighing crops, etc.

## Specifications

**Not for commercial use**

| | 70026 | 70008 |
|---|---|---|
| Capacity | 50 kg | 100 kg |
| Scale Interval | 200 g | 500 g |
| Size of Platform | 350 × 250 mm | |
| Material | Platform, Body: Steel<br>Graduation Display Cover: AS resin<br>Graduation Plate: Aluminum | |

# Scale for Commercial Use

70123

70124

70079

70084

70090

70093

70102

70101

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70123 | 200 g | 240×190×210 | 1,800 | 4 960910 701236 | 1 (8) | B |
| 70124 | 400 g | 240×190×210 | 1,800 | 4 960910 701243 | | |
| 70079 | 1 kg | 240×190×210 | 1,800 | 4 960910 700796 | | |
| 70081 | 2 kg | 270×220×270 | 3,400 | 4 960910 700819 | 1 (4) | |
| 70084 | 4 kg | 270×220×270 | 3,400 | 4 960910 700840 | | |
| 70087 | 8 kg | 270×220×270 | 3,400 | 4 960910 700871 | | |
| 70090 | 12 kg | 270×220×270 | 3,400 | 4 960910 700901 | | |
| 70093 | 20 kg | 270×245×270 | 4,000 | 4 960910 700932 | | |
| 70102 | 30 kg | 280×260×275 | 4,500 | 4 960910 701021 | | |
| 70101 | 50 kg | 380×320×355 | 11,000 | 4 960910 701014 | 1 | |

## Features

- Easy-to-read scale with clear graduations
- Durable with robust design
- Dust and moisture proof (70101)

## Use

- For weighing various things from crops to fishery products, etc.

## Specifications

**Suitable for commercial use**

| Type | Spring dial scale with standard matching verification |
|---|---|
| Precision Grade | Grade 4 |

| | 70123 | 70124 | 70079 |
|---|---|---|---|
| Capacity | 200 g | 400 g | 1 kg |
| Range of Use *1 | 20 g - 200 g | 40 g - 400 g | 100 g - 1 kg |
| Scale Interval | 1 g | 2 g | 5 g |
| Number of Scales | 200 | | |
| Tolerance *2 | ①0 - 50 g ±1 g ②50 g - 200 g ±2 g | ①0 - 100 g ±2 g ②100 g - 400 g ±4 g | ①0 - 250 g ±5 g ②250 g - 1 kg ±10 g |
| Dial Face | φ164 mm | | |
| Platform Size | 190 × 185 mm | | |
| Platform Thickness | 0.5 mm | | |
| Material | Body: Copperplate Platform: Stainless steel Pointer: Aluminum Knob, Front Cover: Polyethylene resin | | |

| | 70081 | 70084 | 70087 |
|---|---|---|---|
| Capacity | 2 kg | 4 kg | 8 kg |
| Range of Use *1 | 100 g - 2 kg | 200 g - 4 kg | 400 g - 8 kg |
| Scale Interval | 5 g | 10 g | 20 g |
| Number of Scales | 400 | | |
| Tolerance *2 | ①0 - 250 g ±5 g ②250 g - 1 kg ±10 g ③1 kg - 2 kg ±15 g | ①0 - 500 g ±10 g ②500 g - 2 kg ±20 g ③2 kg - 4 kg ±30 g | ①0 - 1 kg ±20 g ②1 kg - 4 kg ±40 g ③4 kg - 8 kg ±60 g |
| Dial Face | φ196 mm | | |
| Platform Size | 220 × 210 mm | | |
| Platform Thickness | 0.5 mm | | |
| Material | Body: Copperplate Platform: Stainless steel Pointer: Aluminum Knob, Front Cover: Polyethylene resin | | |

| | 70090 | 70093 | 70102 |
|---|---|---|---|
| Capacity | 12 kg | 20 kg | 30 kg |
| Range of Use *1 | 1 kg - 12 kg | 2 kg - 20 kg | 2 kg - 30 kg |
| Scale Interval | 50 g | 100 g | |
| Number of Scales | 240 | 200 | 300 |
| Tolerance *2 | ①0 - 2.5 kg ±50 g ②2.5 kg - 10 kg ±100 g ③10 kg - 12 kg ±150 g | ①0 - 5 kg ±100 g ②5 kg - 20 kg ±200 g | ①0 - 5 kg ±100 g ②5 kg - 20 kg ±200 g ③20 kg - 30 kg ±300 g |
| Dial Face | φ196 mm | | |
| Platform Size | 220 × 210 mm | 245 × 230 mm | 260 × 245 mm |
| Platform Thickness | 0.5 mm | | 1.5 mm |
| Material | Body: Copperplate Platform: Stainless steel Pointer: Aluminum Knob, Front Cover: Polyethylene resin | | |

| | 70101 |
|---|---|
| Capacity | 50 kg |
| Range of Use *1 | 2 kg - 50 kg |
| Scale Interval | 200 g |
| Number of Scales | 250 |
| Tolerance *2 | ①0 - 10 kg ±200 g ②10 kg - 40 kg ±400 g ③40 kg - 50 kg ±600 g |
| Dial Face | φ270 mm |
| Platform Size | 320 × 320 mm |
| Platform Thickness | 2 mm |
| Material | Body: Copperplate Platform: Stainless steel Pointer: Aluminum Knob, Front Cover: Polyethylene resin |

*1 Range of use means the weight range suitable for commercial use.
*2 Tolerance required by the Japanese Measurement Act, Ordinance of METI (METI: Ministry of Economy, Trade Industry) for commercial use in Japan.

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12 Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

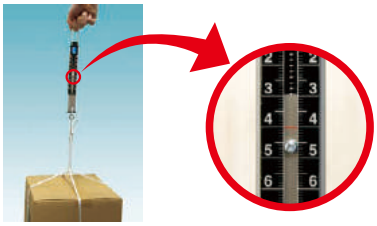
# Spring Scale with Flat Scale Face

| Item Code | Description | Minimum Scale Value (g) | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 74451 | 500 g | 5 | 290×30×25 | 126 | 4 960910 744516 | 5 | VH |
| 74452 | 1 kg | 10 | 290×30×25 | 126 | 4 960910 744523 | | |
| 74453 | 2 kg | 20 | 290×30×25 | 126 | 4 960910 744530 | | |
| 74459 | 5 kg | 50 | 290×30×25 | 131 | 4 960910 744592 | | |
| 74493 | 8 kg | 100 | 290×30×25 | 133 | 4 960910 744936 | | |
| 74460 | 10 kg | 100 | 290×30×25 | 136 | 4 960910 744608 | | |
| 74499 | 15 kg | 200 | 290×30×25 | 142 | 4 960910 744998 | | |
| 74461 | 20 kg | 200 | 410×45×35 | 593 | 4 960910 744615 | 3 | |
| 74487 | 30 kg | 500 | 410×45×35 | 618 | 4 960910 744875 | | |
| 74488 | 50 kg | 500 | 410×45×35 | 618 | 4 960910 744882 | | |

## Features

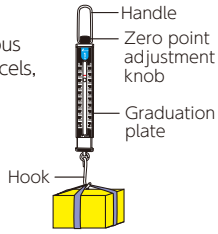
- Flat graduation plate makes it easy to read
- Zero point adjustment knob

- Flat surface allows accurate readings



## Use

- For weighing various things such as parcels, crops, and fishery products




## Specifications

**Not for commercial use**

| Type | | Spring Scale | | | | |
|---|---|---|---|---|---|---|
| | | 74451 | 74452 | 74453 | 74459 | 74493 |
| Capacity | | 500 g | 1 kg | 2 kg | 5 kg | 8 kg |
| Scale interval | | 5 g | 10 g | 20 g | 50 g | 100 g |
| Number of Scales | | 96 | | 95 | 96 | 80 |
| Tolerance | (less than half of capacity) | ±5 g | ±10 g | ±20 g | ±50 g | ±100 g |
| | (more than half of capacity) | ±10 g | ±20 g | ±40 g | ±100 g | ±200 g |
| Material | | Body, Platform: Aluminum<br>Handle, Hook: Iron<br>Zero point adjustment knob, Platform Side: ABS resin | | | | |

| | | 74460 | 74499 | 74461 | 74487 | 74488 |
|---|---|---|---|---|---|---|
| Capacity | | 10 kg | 15 kg | 20 kg | 30 kg | 50 kg |
| Scale interval | | 100 g | 200 g | | 500 g | |
| Number of Scales | | 96 | 75 | 98 | 60 | 96 |
| Tolerance | (less than half of capacity) | ±100 g | ±200 g | | ±500 g | |
| | (more than half of capacity) | ±200 g | ±400 g | | ±1,000 g | |
| Material | | Body, Platform: Aluminum<br>Handle, Hook: Iron<br>Zero point adjustment knob, Platform Side: ABS resin | Body, Platform: Aluminum<br>Handle, Hook: Iron<br>Zero point adjustment knob, Platform Side: Zinc die casting | | | |

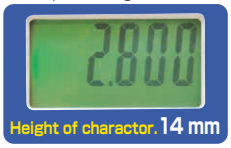
# Digital Spring Scale

70109

- Back light display (Front only)

Back light on while an object is hanging on the hook

- Big size display panel for easy reading




- Hold function

Stores the value on the display even after removing the object

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70109 | 20 kg | 240×65×29 | 225 | 4 960910 701090 | 2 | SP |

## Features

- With convenient tare function
- LCD display on the back as well

## Use

- For weighing various things

## Specifications

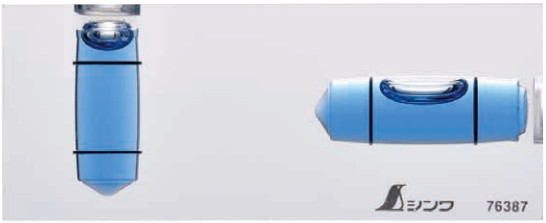
**Not for commercial use**

| | |
|---|---|
| Capacity | 20 kg |
| Scale Interval | 10 g ( 0 - 10 kg)<br>20 g (10 - 20 kg) |
| Range of Use | 0.2 - 20 kg |
| Use Environment | 0 - 40℃ (below 85% humidity) |
| Auto Power Off | 0 - 19 minutes (adjustable by one minute) |
| Material | Body: ABS resin |
| Digital Display | Character Height: 14 mm on both sides of display |
| Power Source | 2x Lithium batteries CR2032<br>(Batteries included are for trial use only and may not last as long) |

# 10. Levels

No.76349 BLUE LEVEL with MAGNET
DIGITAL 450mm
ゼロセット・
校正(長押し)
ON
OFF
mm/M・°・%
ホールド
ブザー・照明(長押し)

HANDY LEVEL 品番73132
MEGA -MAG
white
with MAGNET
150mm


76387

## Blue Level PRO

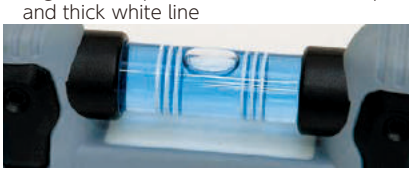
76391

| Item Code | Description | Length×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76390 | 300 mm | 65×27 | 295 | 4 960910 763906 | 6 | Ⓢ |
| 76391 | 380 mm | 65×27 | 340 | 4 960910 763913 | | |
| 76393 | 450 mm | 65×27 | 395 | 4 960910 763937 | | |
| 76394 | 600 mm | 65×27 | 500 | 4 960910 763944 | | |
| 76395 | 900 mm | 65×27 | 690 | 4 960910 763951 | | |
| 76396 | 1200 mm | 65×27 | 885 | 4 960910 763968 | | |
| 76398 | 1500 mm | 65×27 | 1,075 | 4 960910 763982 | 1 | |
| 76400 | 1800 mm | 65×27 | 1,285 | 4 960910 764002 | | |

*Not available in certain areas. Please contact us for details.

### Features

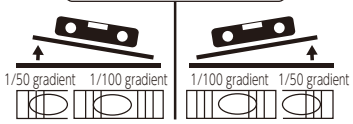
- High-visibility vial with clear blue liquid and thick white line



- Luminous resin is added to the vial
- High precision of ±1.0 mm/m for all vials
- Bright blue color-alumite finish

- Mix of H and box-shaped cross section and strong structure gives high accuracy and high durability
- Large vial, larger bubble for easy readings
- 45° vial
- Large side caps protect the level and material object
- V-shape groove on the measurement side for measuring pipes
- Measures 1/50 and 1/100 gradients
- Magnetic model is handy for steel frame work
- Comes with grip holes for models over 600 mm

**Gradient Measurement**




*The size of air bubble varies depending on temperature.

### Use

- For verification of horizontal, vertical and 45° gradients in building, engineering, plumbing, electric and planting, etc.

### Specifications

| | |
|---|---|
| Sensitivity Precision | Sensitivity 0.35 mm/m = 0.0201° Precision ±1.0 mm/m = less than ±0.0573° |
| Material | Body: Aluminum, ABS resin Vial: Acrylic resin Liquid: Petroleum liquid |

## Blue Level PRO with Magnet

76407

| Item Code | Description | Length×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76403 | 300 mm | 65×27 | 300 | 4 960910 764033 | 6 | Ⓢ |
| 76404 | 380 mm | 65×27 | 345 | 4 960910 764040 | | |
| 76405 | 450 mm | 65×27 | 400 | 4 960910 764057 | | |
| 76407 | 600 mm | 65×27 | 510 | 4 960910 764071 | | |
| 76408 | 900 mm | 65×27 | 700 | 4 960910 764088 | | |
| 76409 | 1200 mm | 65×27 | 900 | 4 960910 764095 | | |
| 76411 | 1500 mm | 65×27 | 1,090 | 4 960910 764118 | 1 | |
| 76412 | 1800 mm | 65×27 | 1,300 | 4 960910 764125 | | |

*Not available in certain areas. Please contact us for details.

## Blue Level Jr.

76331

76334

- Including a ball chain (100 mm· 100 mm with magnet)

*Gradient cannot be measured with vial graduations

| Item Code | Description | Length×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76330 | 100 mm | 50×22 | 71 | 4 960910 763302 | 6 | [B] |
| 76331 | 100 mm with Magnet | 50×22 | 80 | 4 960910 763319 | | |
| 76334 | 150 mm | 50×22 | 110 | 4 960910 763340 | | Ⓢ |
| 76336 | 150 mm with Magnet | 50×22 | 115 | 4 960910 763364 | | |
| 76335 | 200 mm | 50×22 | 135 | 4 960910 763357 | | |
| 76337 | 200 mm with Magnet | 50×22 | 145 | 4 960910 763371 | | |

*Not available in certain areas. Please contact us for details.

Shinwa's levels are made with accuracy within the specifications. Please use equipment with higher accuracy for work that requires greater specifications. Sensitivity means the gradient at which the air bubble starts moving. Accuracy means the tolerance of range that the air bubble indicates.

### Features

- High precision of ±1.0 mm/m for all vials
- Bright blue color-alumite finish
- Luminous resin is added to the vial
- Mix of H and box shaped cross section and strong structure gives high accuracy and high durability
- V-shape groove on the measurement side for measuring pipes
- Magnetic model is handy for steel frame work
- High precision, high visibility

### Use

- For verification of horizontal, vertical and 45° gradients in building, engineering, plumbing, electric and planting, etc.

### Specifications

| | |
|---|---|
| Sensitivity Precision | Sensitivity 0.35 mm/m = 0.0201° Precision ±1.0 mm/m = less than ±0.0573° |
| Material | Body: Aluminum, ABS resin Vial: Acrylic resin Liquid: Petroleum liquid |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

## Blue Level

76370

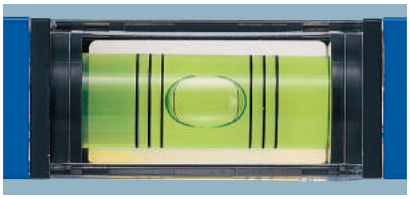
*Gradient cannot be measured with vial graduations

| Item Code | Description | Length×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76370 | 300 mm | 58×25 | 260 | 4 960910 763708 | 6 | S |
| 76375 | 380 mm | 58×25 | 305 | 4 960910 763753 | | |
| 76371 | 450 mm | 58×25 | 360 | 4 960910 763715 | | |
| 76372 | 600 mm | 58×25 | 470 | 4 960910 763722 | | |
| 76373 | 900 mm | 58×25 | 700 | 4 960910 763739 | | |
| 76374 | 1200 mm | 58×25 | 900 | 4 960910 763746 | | |
| 76377 | 1500 mm | 58×25 | 1,075 | 4 960910 763777 | 1 | |
| 76378 | 1800 mm | 58×25 | 1,275 | 4 960910 763784 | | |

### Features

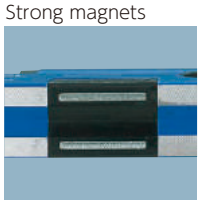
- Large vial, larger bubble for easy readings
- 45° vial
- Large side caps protect the level and material object
- V-shape groove on the measurement side for measuring pipes
- Magnetic model is handy for steel frame work

Large vial



Large side cap

Strong magnets



V-shape groove

### Use

- For verification of horizontal, vertical and 45° gradients in building, engineering, plumbing, electric and planting, etc.

### Specifications

| | |
|---|---|
| Sensitivity Precision | Sensitivity 0.5 mm/m = 0.0286° Precision ±2.5 mm/m = less than ±0.1432° |
| Material | Body: Aluminum, ABS resin Vial: Acrylic resin Liquid: Petroleum liquid |

## Blue Level with Magnet

76380

*Gradient cannot be measured with vial graduations

| Item Code | Description | Length×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76379 | 300 mm | 58×25 | 360 | 4 960910 763791 | 6 | S |
| 76384 | 380 mm | 58×25 | 420 | 4 960910 763845 | | |
| 76380 | 450 mm | 58×25 | 460 | 4 960910 763807 | | |
| 76381 | 600 mm | 58×25 | 570 | 4 960910 763814 | | |
| 76382 | 900 mm | 58×25 | 860 | 4 960910 763821 | | |
| 76383 | 1200 mm | 58×25 | 1,060 | 4 960910 763838 | | |
| 76385 | 1500 mm | 58×25 | 1,315 | 4 960910 763852 | 1 | |
| 76389 | 1800 mm | 58×25 | 1,490 | 4 960910 763890 | | |

## Slope Level

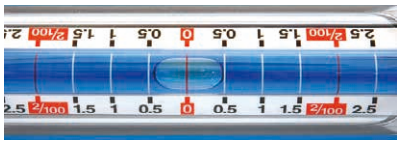


●Fits pipes

76358

76359

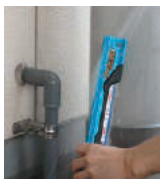
●Easy-to-read gradient as the bubble moves widely



| Item Code | Description | Length×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76358 | 300 mm | 300×34×42 | 305 | 4 960910 763586 | 4 | C |
| 76355 | 450 mm | 450×34×42 | 390 | 4 960910 763555 | | |
| 76359 | 600 mm | 600×34×42 | 535 | 4 960910 763593 | | |

### Features

- Washable inner part



- Measures horizontality and five different gradients (0.5/100, 1/100, 1.5/100, 2/100, 2.5/100)
- These models can measure continuous gradients
- Can be used on flat surfaces as well
- Curved measurement side improves stability
- Vial with luminous sheet for better readability

### Use

- For verification and adjustment of gradient in installation of drain pipes

### Specifications

| | |
|---|---|
| Precision | ±1.5 mm/m |
| Material | Body: Aluminum Level Vial: Glass Side Cap: Rubber Liquid: Petroleum liquid Cover: ABS resin, polycarbonate resin |

*Not available in certain areas. Please contact us for details.

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

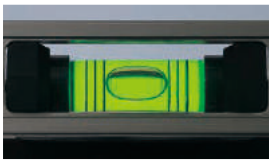
## Precise I-Beam Level

76315

| Item Code | Description | Length×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76315 | 150 mm | 55×25 | 115 | 4 960910 763159 | 6 | Ⓒ |
| 76316 | 230 mm | 55×25 | 170 | 4 960910 763166 | | |
| 76318 | 300 mm | 55×25 | 215 | 4 960910 763180 | | |
| 76319 | 380 mm | 55×25 | 270 | 4 960910 763197 | | |
| 76320 | 450 mm | 55×25 | 315 | 4 960910 763203 | | |
| 76321 | 600 mm | 55×25 | 415 | 4 960910 763210 | | |
| 76322 | 750 mm | 55×25 | 510 | 4 960910 763227 | | |
| 76323 | 900 mm | 55×25 | 610 | 4 960910 763234 | | |
| 76324 | 1200 mm | 55×25 | 805 | 4 960910 763241 | 1 | |

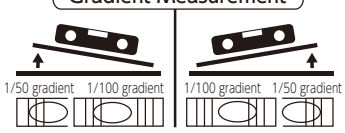
### Features

- Horizontal vial has three base lines on both sides to measure horizontal, 1/50 and 1/100 gradients
- Larger vial, larger bubble for easy readings
- Measures 45° besides horizontal and vertical
  *except for 150 mm model
- V-shape groove on the measurement side for measuring pipes
- Large vial with six-lined luminous sheet



- Magnetic model has strong covered magnets for steel frame work and welding work

Gradient Measurement




*The size of air bubble varies depending on temperature.

### Use

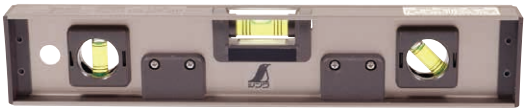
- For verification of horizontal, vertical, 45°, 1/50 and 1/100 gradients in plumbing, building and engineering work, etc.

### Specifications

| | |
|---|---|
| Sensitivity Precision | (Horizontal)<br>Sensitivity 0.35 mm/m = 0.0201°<br>Precision ±1.0 m/m = less than ±0.0573°<br>(Vertical/45°)<br>Sensitivity 0.5 mm/m = 0.0286°<br>Precision ±2.5 m/m = less than ±0.1432° |
| Material | Body: Aluminum<br>Vial: Acrylic resin<br>Liquid: Petroleum liquid |

## Precise I-Beam Level with Magnet

76301



| Item Code | Description | Length×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76308 | 150 mm | 55×25 | 140 | 4 960910 763081 | 6 | Ⓒ |
| 76310 | 230 mm | 55×25 | 200 | 4 960910 763104 | | |
| 76301 | 300 mm | 55×25 | 280 | 4 960910 763012 | | |
| 76302 | 380 mm | 55×25 | 345 | 4 960910 763029 | | |
| 76303 | 450 mm | 55×25 | 395 | 4 960910 763036 | | |
| 76304 | 600 mm | 55×25 | 500 | 4 960910 763043 | | |
| 76305 | 750 mm | 55×25 | 600 | 4 960910 763050 | | |
| 76306 | 900 mm | 55×25 | 675 | 4 960910 763067 | | |

## Handy Level MEGA-MAG with Magnet

73130

73133

- Fixed hook easily attaches to carabiner

- Safety cord can be attached to movable hook

*Gradient cannot be measured with vial graduations

| Item Code | Description | Length×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73130 | 100 mm White | 50×30 | 130 | 4 960910 731301 | 6 | Ⓒ |
| 73131 | 100 mm Black | 50×30 | 130 | 4 960910 731318 | | |
| 73132 | 150 mm White | 50×30 | 150 | 4 960910 731325 | | |
| 73133 | 150 mm Black | 50×30 | 150 | 4 960910 731332 | | |

### Features

- Triple strength neodymium magnet holds well even if knocked (compared with our standard product)

- Stainless hook on both sides

### Use

- For verification of horizontal, vertical and 45° (except 73130/73131) gradients in building, engineering, plumbing, electric and planting, etc.

### Specifications

| | |
|---|---|
| Sensitivity Precision | Sensitivity 0.35 mm/m = 0.0201°<br>Precision ±1.0 mm/m = less than ±0.0573° |
| Material | Body: Aluminum, ABS resin Hook: Stainless steel<br>Vial: Acrylic resin Liquid: Petroleum liquid |

*Not available in certain areas. Please contact us for details.

JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens T With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

## Handy Level Revo

76424

76425

76428

76426

76427

76429

*Gradient cannot be measured with vial graduations.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76424 | Single White | 72.5×72.5×18 | 32 | 4 960910 764248 | 6 | SP |
| 76425 | Single Blue | 72.5×72.5×18 | 32 | 4 960910 764255 | | |
| 76426 | Double | 95×45×22 | 36 | 4 960910 764262 | | |
| 76427 | Double with Magnet | 95×45×22 | 44 | 4 960910 764279 | | |
| 76428 | Triple | 120×53.5×16 | 58 | 4 960910 764286 | | |
| 76429 | Triple with Magnet | 120×53.5×16 | 62 | 4 960910 764293 | | |

*Not available in certain areas. Please contact us for details.

### Features

- Clear blue high-precision large vial
- V-shape groove for measuring pipe
- Triple model has vials with luminous sheets
- Magnetic model has strong neodymium magnet. Convenient for steel frame work.
- Portable pocket size

### Use

- For verification of horizontality, verticality, and 45° (except 76426/76427)

### Specifications

| | 76424 | 76425 | 76426 | 76427 | 76428 | 76429 |
|---|---|---|---|---|---|---|
| Sensitivity Precision | Sensitivity 0.5 mm/m = 0.0286° Precision ±2.5 mm/m = less than ±0.1432° | | | | | |
| Material | Body: Aluminum Vial: Acrylic resin Liquid: Petroleum liquid | | | Body: ABS resin, aluminum Vial: Acrylic resin Liquid: Petroleum liquid | | |

## Handy Level Light

76342

●With strap hole

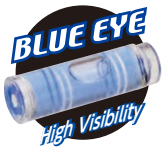
*Gradient cannot be measured with vial graduations.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76342 | 100 mm | 100×50×19 | 39 | 4 960910 763425 | 10 | B |

*Not available in certain areas. Please contact us for details.

### Features

- Ultra lightweight and portable level
- Strap hole (76342)
- Ball chain convenient for carrying (76048)




Only on Light model

### Use

- For verification of horizontality, verticality

### Specifications

| | 76342 | 76048 |
|---|---|---|
| Sensitivity Precision | Sensitivity 0.5 mm/m = 0.0286° Precision ±2.5 mm/m = less than ±0.1432° | |
| Material | Body: ABS resin Vial: Acrylic resin Liquid: Petroleum liquid | Body: ABS resin, aluminum Vial: Acrylic resin Liquid: Petroleum liquid |

## Handy Level with Magnet

76048

*Gradient cannot be measured with vial graduations.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76048 | B 100 mm | 100×46×20 | 87 | 4 960910 760486 | 6 | C |

## Slim Level

76340

76332

*Gradient cannot be measured with vial graduations.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76340 | 200 mm White with Magnet | 200×40×14 | 68 | 4 960910 763401 | 6 | Ⓢ |
| 76332 | 200 mm White with Magnet on Back Side | 200×40×15 | 75 | 4 960910 763326 | | |

*Not available in certain areas. Please contact us for details.

### Features

●Portable and convenient slim shape level
●Magnet covers nearly all of the measurement side for secure fastening to metal surfaces, etc.

●Rear magnet convenient for adjusting position of wall mounts, etc. (76332)

●45° vial
●Vial with luminous sheet

### Use

●For verification of horizontal, vertical and 45° gradients in building, engineering, plumbing, electric and planting, etc.

### Specifications

| | |
|---|---|
| Sensitivity Precision | Sensitivity 0.5 mm/m = 0.0286° Precision ±2.5 mm/m = less than ±0.1432° |
| Material | Body: ABS resin Vial: Acrylic resin Liquid: Petroleum liquid |

## Mini Level Revo

76416

76418

76417

76423

76387

*Gradient cannot be measured with vial graduations.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76416 | Lineclip Model | 100×19×26 | 15 | 4 960910 764163 | 10 | Ⓢ |
| 76417 | for Rule and Square | 71×19×25 | 17 | 4 960910 764170 | | |
| 76418 | T-shaped Model | 80×55×15 | 21 | 4 960910 764187 | | |
| 76423 | Keyring Model | 42×15×15 | 12 | 4 960910 764231 | | |
| 76387 | Clear Cube Model NEW | 75×30×15 | 38 | 4 960910 763876 | | |

*Not available in certain areas. Please contact us for details.

### Features

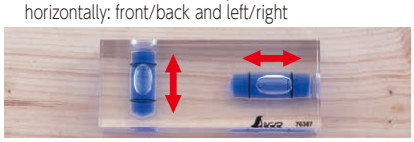
■Line clip model
●For measuring leveling string or pipe by using V-shape groove
●Can be used on flat surfaces as well
●Portable with pocket clip

■For rule and square
●Attachable on rule and square
●Can be used on flat surfaces as well
●Portable with pocket clip

■T-shape oval model
●Measures four directions at the same time
●Attach with screws to machine

■Key chain model
●Portable with large carabiner

■Clear Cube
●All 6 sides have been processed as measuring surfaces
●Place it flat to simultaneously measure two directions horizontally: front/back and left/right



### Use

●For verifying horizontality

### Specifications

| | 76416 | 76417 | 76418 | 76423 | 76387 |
|---|---|---|---|---|---|
| Sensitivity Precision | Sensitivity 0.5 mm/m = 0.0286° Precision ±2.5 mm/m = less than ±0.1432° | | | | |
| Material | Body: ABS resin Vial: Acrylic resin Liquid: Petroleum liquid | | | | Body: Acrylic resin Liquid: Petroleum liquid |

JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

## Mini Level

76037

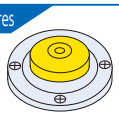
76046

76060

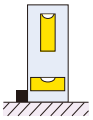
*Gradient cannot be measured with vial graduations.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76037 | A Circular Model | φ45×11 | 9 | 4 960910 760370 | 10 | SP |
| 76046 | D Flat Model | 75×25×15 | 30 | 4 960910 760462 | | |
| 76060 | H Cube Model | 50×27×35 | 21 | 4 960910 760608 | | |

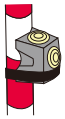
### Features



■A circular model
●Attach with screws to machine or equipment



■D flat model
●Whole surface can be used as measurement side. It can verify horizontal and perpendicular.



■H cube model
●Measures measurement pole with band

### Use

●For verification of horizontality (76037)
●For verification of horizontality, verticality (76046/76060)

### Specifications

| | |
|---|---|
| Sensitivity Precision | Sensitivity 0.5 mm/m = 0.0286°<br>Precision ±2.5 mm/m = less than ±0.1432° |
| Material | Body (A/D): Acrylic resin<br>Body(H): ABS resin<br>Vial: Acrylic resin<br>Liquid: Petroleum liquid |

## Round Shape Vial

76328 76329

76530 76531

*Gradient cannot be measured with vial graduations.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76328 | A φ11 Clear 2 pc-pack | φ11×8.5 | 0.7×2 | 4 960910 763289 | 10 | B |
| 76329 | B φ16 Clear 2 pc-pack | φ16×8.5 | 1.7×2 | 4 960910 763296 | | |
| 76530 | φ11 Blue 2 pc-pack NEW | φ11×8.5 | 0.8×2 | 4 960910 765306 | | |
| 76531 | φ16 Blue 2 pc-pack NEW | φ16×8.5 | 1.4×2 | 4 960910 765313 | | |

*Not available in certain areas. Please contact us for details.

### Features

●Various uses such as leveling for part of machine, camera's tripod, and recorder's turntable

### Use

●For verification of horizontality

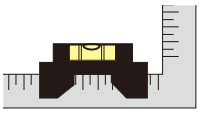
### Specifications

| | 76328 | 76329 | 76530 | 76531 |
|---|---|---|---|---|
| Sensitivity Precision | 14 mm/m =0.80° | 7 mm/m =0.40° | 1 mm/m =0.0573° | 0.5 mm/m =0.0286° |
| Material | Body: Acrylic resin<br>Liquid: Petroleum liquid | | | |

*Sensitivity for Round Shape Vial indicates required gradient to move the air bubble by 1mm.

## Level for Square

76503



*Gradient cannot be measured with vial graduations.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76503 | Level for Square | 63×30×20 | 27 | 4 960910 765030 | 12 | B |

### Features

●Measures by attaching to square
●Can be used on flat surfaces as well

### Use

●For verification of horizontality, verticality

### Specifications

| | |
|---|---|
| Sensitivity Precision | Sensitivity 0.5 mm/m = 0.0286°<br>Precision ±2.5 mm/m = less than ±0.1432° |
| Material | Body: Aluminum Vial: Acrylic resin<br>Liquid: Petroleum liquid |

## Post Level with Magnet

76339

With scales
Rubber stopper band

*Gradient cannot be measured with vial graduations.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76339 | Post Level | 128×90×90 | 74 | 4 960910 763395 | 6 | C |

*Not available in certain areas. Please contact us for details.

### Features

●Can be used to draw lines in right angle and 45°
●Attached magnets make it ideal for steel frame and steel-pipe work
●Stopper band included

With magnets

### Use

●For marking vertical line on pillar or piling

### Specifications

| | |
|---|---|
| Sensitivity Precision | Sensitivity 0.5 mm/m = 0.0286°<br>Precision ±2.5 mm/m = less than ±0.1432° |
| Material | Body: ABS resin Vial: Acrylic resin Liquid: Petroleum liquid |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# Blue Level Digital

76343

76348

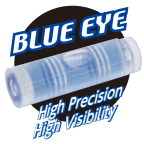
76327

| Item Code | Description | Length×Thickness (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76343 | 350 mm | 65×27 | 356 | 4 960910 763432 | 6 | C |
| 76344 | 350 mm with Magnet | 65×27 | 371 | 4 960910 763449 | | |
| 76348 | 450 mm | 65×27 | 467 | 4 960910 763487 | | |
| 76349 | 450 mm with Magnet | 65×27 | 473 | 4 960910 763494 | | |
| 76326 | 600 mm | 65×27 | 555 | 4 960910 763265 | | |
| 76327 | 600 mm with Magnet | 65×27 | 580 | 4 960910 763272 | | |

*Not available in certain areas. Please contact us for details.

## Features

- ●Backlit LCD display
- ●Glows blue with luminous resin
- ●Luxurious color-alumite finish
- ●Alarm goes off on horizontal and perpendicular
- ●Also measures rise, angle, gradient
- ●If the level body is used in reverse, the display automatically shows in reverse as well
- ●Calibration function
- ●Battery life indicator
- ●Convenient HOLD function
- ●Zero set function that enables a base angle to be set
- ●Auto power off function
- ●Attached magnets make it ideal for steel frame work




## Use

| Rise in 1 m | Angle | % |
|---|---|---|
| 100 | 5.8° | 10.0 % |
| Mainly for building work and plumbing work | Mainly for engineering work | Mainly for reference of gradient for road work |

*Choose from three displays

## Specifications

| | | |
|---|---|---|
| Vial Sensitivity, Precision | Sensitivity 0.35 mm/m = 0.0201°<br>Precision ±1.0 mm/m = less than ±0.0573° | |
| Digital Display Precision | 0°, 90° | Angle: ±0.1°<br>Gradient: ±0.2%<br>Rise: ±2 mm/m |
| | Other Degrees | Angle: ±0.2°<br>Gradient: ±0.7%<br>Rise: ±4 mm/m<br>(300 mmUP: ±7 mm/m) |
| Minimum Unit for Digital Display | Angle: 0.1°<br>Gradient: 0.1%<br>Digital Level: 1 mm/m | |
| Power Source | 1x 9V battery<br>(Battery included is for trial use only and may not last as long) | |
| Use Temperature | 0 - 50℃ | |
| Material | Body: Aluminum, ABS resin<br>Vial: Acrylic resin Liquid: Petroleum liquid | |

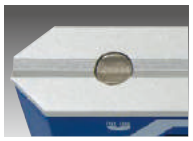
# Digital Angle Meter

76447

Neodymium magnet (three sides)
●Strong neodymium magnets on three sides

76825

76826



Neodymium magnet (base)

●Strong neodymium magnets on base

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76447 | Mini with Magnet | 56×56×30 | 189 | 4 960910 764477 | 1 | C |
| 76825 | Digital Angle Meter II Dust/Waterproof | 151×60×31 | 280 | 4 960910 768253 | | |
| 76826 | Digital Angle Meter II Dust/Waterproof with Magnet | 151×60×31 | 280 | 4 960910 768260 | | |

## Features

- ●Convenient for measuring from a reference point by setting the point from any angle
- ●Hold function allows measurement when display cannot be seen
- ■Mini magnet
- ●Strong neodymium magnet on three sides
- ●Switches indication for angle (°) or gradient (%)
- ■Digital Angle Meter II
- ●Dustproof and waterproof under IP65 specifications, making it useful for angle measurements in various places
- ●Switches digitally between display of degree, %, and mm/m. With backlight function for use in dark places.
- ●BEEPs when horizontal or vertical

## Use

- ●For work installing machines or equipment

## Specifications

| | 76447 |
|---|---|
| Range | 90° x 4 directions (360°) |
| Minimum Indication | Angle: 0.1° Inclination: 0.1% |
| Precision | ±0.2°(±3.5 mm/m) |
| Use Temperature | 0 - 40℃ |
| Power Source | 1x 9V battery<br>(Battery included is for trial use only and may not last as long) |
| Auto Power Off | 5 minutes |
| Material | Body: Zinc alloy<br>Panel: Polycarbonate resin |
| Accessory | Screwdriver |

| | 76825 | 76826 |
|---|---|---|
| Range | 90° × 4 directions (360°) | |
| Minimum Indication | Angle: 0.05° Gradient: 0.1% Rise: 1 mm/m | |
| Precision | 0°·90°: ±0.05° Other Degrees: ±0.15° | |
| Use Temperature | −10 - 50℃ | |
| Power Source | 2× AAA Alkaline batteries<br>(Batteries included are for trial use only and may not last as long) | |
| Auto Power Off | 5 minutes | |
| Dust/water proof | IP65 | |
| Material | Body: ABS resin, aluminum | |
| Accessory | Holder case | |

JIS JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

## Laser Beam Level II NEW

PSC compatible product

Maximum Output 1 mW
Wavelength 640 - 660 nm
Class 2 Laser Product
JIS C6802:2014

⚠ Warning
- Do not stare into beam
- Do not point laser light at others
- Keep away from children

76165

76166

- Safe design in which laser beam is activated only when the contact sensor and laser switch are pressed

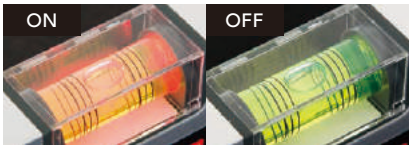
*Illustration

Contact sensor

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76164 | 300 mm | 300×55×25 | 320 | 4 960910 761643 | 3 | C |
| 76165 | 300 mm with Magnet | 300×55×25 | 435 | 4 960910 761650 | | |
| 76166 | 450 mm | 450×55×25 | 430 | 4 960910 761667 | | |
| 76167 | 450 mm with Magnet | 450×55×25 | 540 | 4 960910 761674 | | |

### Features

- Laser point can be directed up to 10 m outdoors/30 m indoors to show horizontal level/gradient in a remote place
  *Depends on usage environment such as brightness
- Horizontal vial LED lights up brightly when laser is irradiated, so you can see at a glance that laser light is coming out




- Measurement surface has a V-shaped groove to enable pipe measurement
- Can measure gradients of 1/50 and 1/100

### Use

- For installation work in civil engineering, plumbing, electricity, masonry, interior finishing, and do-it-yourself carpentry, etc.

### Specifications

| | | |
|---|---|---|
| Laser | Light Source | Visible light semiconductor laser |
| | Output | Less than 1 mW (JIS class 2 C6802: 2014) |
| | Wave Length | 640 - 660 nm |
| | Display Accuracy | ±2 mm per 5 m |
| | Diameter *1 | ϕ3 mm per 5 m |
| | Distance Recognition *1 | Outside: Approx. 10 m<br>Inside: Approx. 30 m |
| Vial | Sensitivity *2 | Horizontal: 0.35 mm/m=0.0201°<br>Vertical: 0.5 mm/m=0.0286° |
| | Precision | Horizontal: ±1.0 mm/m = less than ±0.0573°<br>Vertical: ±2.5 mm/m = less than ±0.1432° |
| Use Temperature | | −10 - 50°C |
| Storage Temperature | | −20 - 60°C |
| Power Source | | 2× AAA Alkaline batteries<br>(Batteries included are for trial use only and may not last as long) |
| Material | | Body: Aluminum, ABS resin, polypropylene resin<br>Vial: Acrylic resin<br>Liquid: Petroleum liquid |

*1 Depends on usage environment such as brightness
*2 Sensitivity is the gradient when the bubble starts moving

## Rotating Table

76478

Image

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76478 | for Laser Beam Level | ϕ108×100 | 800 | 4 960910 764781 | 1 | B |

■Rotating Table

### Features

- Smoothly rotates 360°
- Can be used for height adjustment such as positioning of a window frame by mounting a laser beam level and attaching to a tripod

### Use

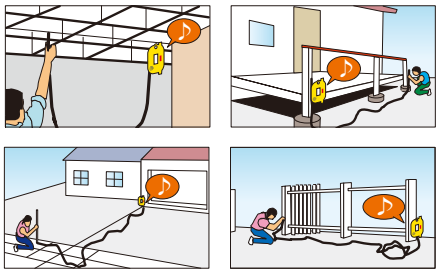
- For horizontal referencing by mounting a laser beam level

### Specifications

| | |
|---|---|
| Material | Rotating Plate Base: Aluminum die casting<br>Level Stopper: ABS resin |
| Accessory | Hexagonal wrench (for adjusting circular vial) |
| Installation Screw | 5/8 inch |

## Water Level

76644



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76644 | A with 15 m Hose | 290×290×67 | 1,130 | 4 960910 766440 | 1 | V |

*Not available in certain areas. Please contact us for details.

### Features

- Water level enables leveling a ceiling or over a long distance
- 15 cm-long hose with alarm function enables verification of the level from a distance without help from another person
- Easy-to-use compact size for tight spaces
- Comes with brush for washing the hose
- Enables precise adjustment by use of audible indicator
- Visually determine horizontal level

### Use

- For suspended ceiling, basement, landscaping, grading, and fence work, etc.

### Specifications

| | |
|---|---|
| Precision | ±1.5 mm/15 m |
| Material | Body: ABS resin<br>Hose: Vinyl chloride resin |
| Hose Size | Outer Diameter: 11 mm Inner Diameter: 8 mm |
| Power Source | 1x 9V Alkaline battery<br>(Battery included is for trial use only and may not last as long) |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Blue Slant

78546

78543

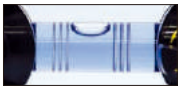
78544

78545

78551

## Features

●Dial can be raised for cleaning (Revolving Dial Model)



●Large vial (Revolving Dial Model)

●Easy-to-turn LOCK knob (Revolving Dial Model)

●Made of sturdy fiberglass ABS resin
●Both front and back sides can be used (Revolving Dial Model, Vial Model)
●Strong neodymium magnets on measurement side (Dial Type with Magnets Model)

## Use

●For checking angle or slope

## Specifications

| | 78546 |
|---|---|
| Sensitivity Precision | Sensitivity 0.35 mm/m = 0.0201°<br>Precision ±17.5 mm/m = less than ±1.0° |
| Material | Body: ABS resin (with fiberglass)<br>Vial: Acrylic resin Liquid: Petroleum liquid |

| | 78543 |
|---|---|
| Sensitivity Precision | Sensitivity 0.7 mm/m = 0.0401°<br>Precision ±17.5 mm/m = Less than ±1.0 |
| Material | Body: ABS resin (with fiberglass)<br>Vial: Glass Liquid: Petroleum liquid |

| | 78544 | 78545 | 78551 |
|---|---|---|---|
| Sensitivity Precision | Sensitivity 2.0 mm/m = 0.1146°<br>Precision ±17.5 mm/m = less than ±1.0° | | |
| Material | Body: ABS resin (with fiberglass)<br>Clear Cover: Polyethylene resin<br>Pointer: Aluminum | | |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78546 | Revolving Dial Model | 120×240×20 | 120 | 4 960910 785465 | 5 | Ⓢⓟ |
| 78543 | Tube Vial Model | 109×235×16 | 80 | 4 960910 785434 | | |
| 78544 | Dial Model | 107×230×18.5 | 100 | 4 960910 785441 | | |
| 78545 | Dial Model with Magnet | 107×230×18.5 | 115 | 4 960910 785458 | | |
| 78551 | Dial Model for Japanese Roof Slope | 107×230×18.5 | 100 | 4 960910 785519 | | |

*Not available in certain areas. Please contact us for details.

# Angle Level

Stainless Steel Rule Polish Finish 15 cm attached

78997

78996

78966

## Features

●Vernier scale measures angle faster and more accurately

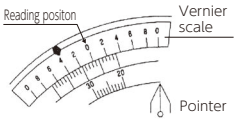
## Use

●For angle measurement

## Specifications

| | 78997 | 78996 | 78966 |
|---|---|---|---|
| Precision | ±0.6° | | |
| Minimum Measurement | 0.2° | 0.1° | 5 mins (about 0.08°) |
| Material | Body: ABS resin | | Body: Aluminum die casting |
| Accessory | Stainless steel rule 15 cm | — | |

■How to read vernier scale




①Reading roughly at 0 on vernier scale.**26**
②Read where outside graduation matches by looking at vernier scale, which is located on the opposite side from the pointer.
**26+4=26.4 degree**

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78997 | A-150 | 78×62×15 | 70 | 4 960910 789975 | 5 | Ⓢⓟ |
| 78996 | A-300 | 93×79×18 | 99 | 4 960910 789968 | | |
| 78966 | A-600 | 141×133×20 | 541 | 4 960910 789661 | 1 | Ⓑ |

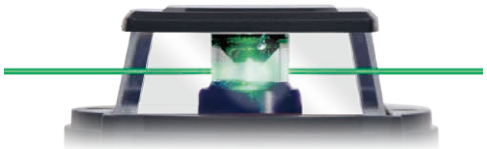
# 11. Lasers/ Optical Equipment

## Features of Laser ROBO Xline series

*Laser light depicted is an illustration.

### 360° irradiation with 1 light source

●Adoption of a cone mirror enables 360° irradiation with one light source. Greatly improves work efficiency since there is no need to rotate the main body.



### Ceiling marking/ground marking lines cross

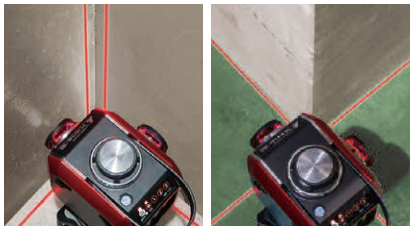
●The 360° full line crosses at 90°, forming the ceiling marking point/ground marking point

### Easy-to-see Line/Bright Line

●Highly visible green-colored laser, bright and vivid red-colored laser

### Inside corner 10 mm, outside corner 0 mm

●Can be used for inside corners from 10 mm* and outside corners from 0 mm since the ground marking cross lines can be irradiated



*When protective caps on the lasers have been

### Body and rotary plate can be separated

●Separating makes it easier to mark in lower positions, easier to carry, and further improves usability

### Fixed line mode

●All models feature a convenient fixed line mode for irradiating a line diagonally

### IP54

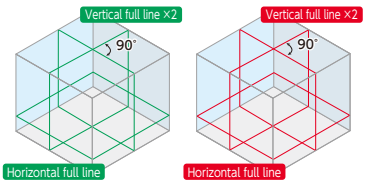
●No concern about malfunction due to dust or water splashes, thanks to IP54 level dustproof and waterproof construction

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Laser ROBO X line-E NEW

## Electronic level sensor + motor

Full Circumference Accuracy ±1.5/7.5 mm | Dust/Water-proof IP54 | For Laser Receiver | Dual Power Source Battery AC




Do not stare into beam
Maximum Output 1 mW Frequency 5.5 kHz
Wavelength 510 - 538 nm
Class 2 Laser Product JIS C6802: 2014

High Brightness GREEN

71610

Do not stare into beam Also, do not expose to a user of a telescopic optical system
Maximum Output 1 mW Frequency 5.5 kHz
Wavelength 635 - 638 nm
Class 2 Laser Product JIS C6802: 2014

High Brightness Twice More

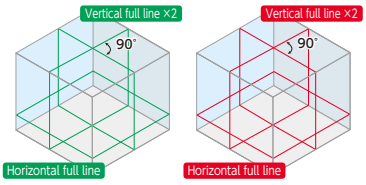
71609

| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 71610 | X line-E Green | 4 960910 716100 | 1 | B |
| 71620 | X line-E Green with Receiver and Tripod | 4 960910 716209 | | |
| 71609 | X line-E Red | 4 960910 716094 | | |
| 71619 | X line-E Red with Receiver and Tripod | 4 960910 716193 | | |

# Laser ROBO X line NEW

## Pendulum + magnetic damper

Full Circumference Accuracy ±1.5/7.5 mm | Dust/Water-proof IP54 | For Laser Receiver | Dual Power Source Battery AC




Do not stare into beam
Maximum Output 1 mW Frequency 5.5 kHz
Wavelength 510 - 538 nm
Class 2 Laser Product JIS C6802: 2014

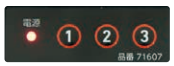
High Brightness GREEN

71608

Do not stare into beam Also, do not expose to a user of a telescopic optical system
Maximum Output 1 mW Frequency 5.5 kHz
Wavelength 635 - 638 nm
Class 2 Laser Product JIS C6802: 2014

High Brightness Twice More

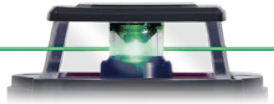
71607



| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 71608 | X line Green | 4 960910 716087 | 1 | B |
| 71618 | X line Green with Receiver and Tripod | 4 960910 716186 | | |
| 71607 | X line Red | 4 960910 716070 | | |
| 71617 | X line Red with Receiver and Tripod | 4 960910 716179 | | |

## Features

●Adoption of a cone mirror enables 360° irradiation with one light source. Greatly improves work efficiency since there is no need to rotate the main body.



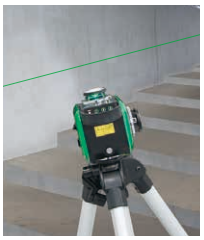
●360° full line crosses the 90° line, forming ceiling marking/ground marking

●Since the ground marking cross lines can be irradiated, can be used for inside corners from 10 mm*, and outside corners from 0 mm

*When protective caps on, the lasers have been removed.

●Separating makes it easier to mark in lower positions, easier to carry, and further improves usability

●All models feature a convenient fixed line mode for shining a line diagonally



## Use

●For all types of referencing

## Specifications

●Mentioned on page 98

*Laser light depicted is an illustration.

### Accessories

AC adapter

Laser glasses (Only red)

Level adjustment tripod adapter

Aluminum case
4x AA Alkaline batteries

### Receiver and Tripod Set Items

Laser Receiver II Plus for Laser ROBO Green with Holder (Green set)

Optical receiver Laser receiver II Plus with holder (Red set)

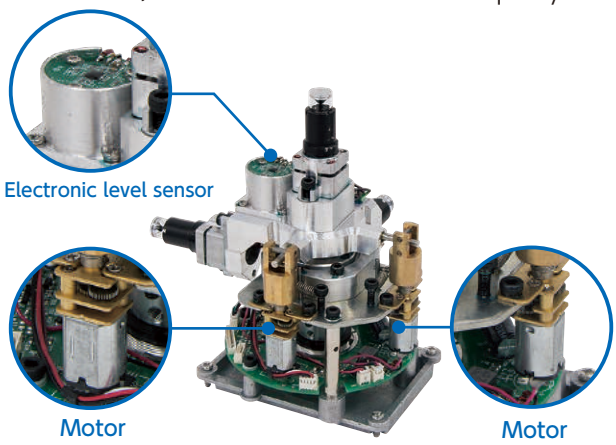
Tripod with handle
Elevator A Lightweight type

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Differences in Braking Systems

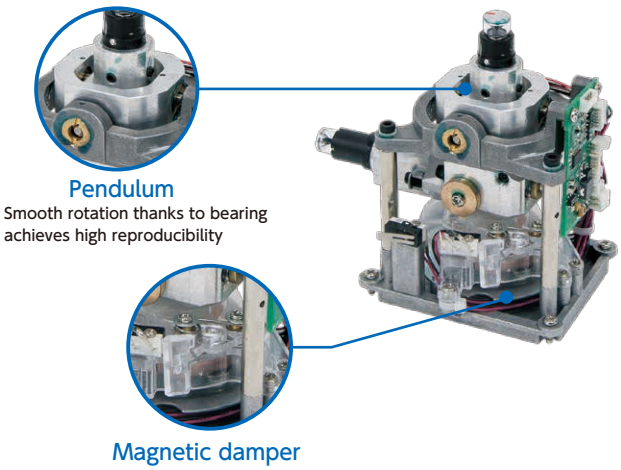
## Electronic level sensor + motor

Since inclination is sensed by the electronic level sensor and adjustment is done automatically by the two motors, the line is stabilized even in work sites with many vibrations, such as a high-rise building or a road with high traffic volume, and the line can be determined quickly.



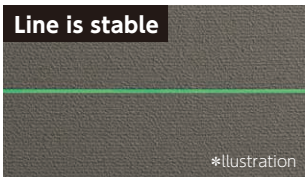

## Pendulum + magnetic damper

Swinging can be quickly stopped by braking with pendulum and magnetic damper. Simple construction also makes it lightweight.

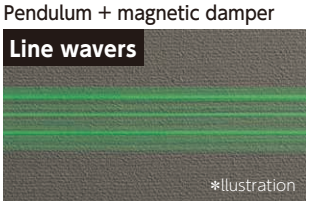



## — Work Sites with Many Vibrations —

Electronic level sensor + motor




Pendulum + magnetic damper



## Specifications Laser ROBO X line series

| | 71610 | 71609 | 71608 | 71607 |
|---|---|---|---|---|
| Type | X line-E Green | X line-E Red | X line Green | X line Red |
| Light Source | Visible light semiconductor laser | | | |
| Output | 1 mW Less than(Class2 JIS C6802: 2014) | 2 mW Less than(Class2M JIS C6802: 2014) | 1 mW Less than(Class2 JIS C6802: 2014) | 2 mW Less than(Class2M JIS C6802: 2014) |
| Wave Length | 510 - 538 nm | 635 - 638 nm | 510 - 538 nm | 635 - 638 nm |
| Display Accuracy | ±1.5 mm per 7.5 m | | | |
| Plumbpoint Accuracy | ±1 mm per 3 m | | | |
| Vertical Accuracy | 90°±0.03° | | | |
| Base Line Accuracy | ±1.5 mm per 7.5 m | | | |
| Line Diameter | 5 m About 2 mm(7.5 m About 3 mm) | | | |
| Automatic Correction Range | ±4° | | ±3° | |
| Tilt Alam | Laser light blinks when it gets over automatic correction range(about a 1-second interval) | | | |
| Rotary Fine-Adjustment Range | 360° | | | |
| Braking System | Sensor,motor system | | Pendulum, Magnetic damper | |
| Power Source | 4x AA Alkaline batteries or AC adapter *1 | | | |
| Continuous Usage Time *2 *3<br>(1): 1 line *4<br>(2): 2 lines<br>(3): 3 lines | (1)About 10 hrs<br>(2)About 4 hrs<br>(3)About 2 hrs | (1)About 14.5 hrs<br>(2)About 6.5 hrs<br>(3)About 3 hrs | (1)About 10.5 hrs<br>(2)About 4.5 hrs<br>(3)About 2 hrs | (1)About 17 hrs<br>(2)About 8 hrs<br>(3)About 4.5 hrs |
| Battery Usage Alam | Power lamp flashes during use, laser light blinks for 8 secs. When turned on (at 0.5 sec. intervals), or when battery is nearly depleted, the device no longer does automatic leveling and laser light blinks for about 1 sec. intervals. | | Power lamp blinks during use; laser line flashes for approximately 8 seconds (approximately 0.5-second intervals) when the power is ON; when multiple laser lines are irradiated and battery consumption continues, the device will automatically switch to irradiating only a horizontal line | |
| Maximum Range of Line | About 35 m (when with optical receiver) *5 | | | |
| Dustproof/Waterproof | IP54 (when with battery) *6 | | | |
| TriPod Screw | 5/8 inch | | | |
| Size | Height 213 mm × Width 127 mm × Depth 182 mm | | Height 188 mm × Width 127 mm × Depth 182 mm | |
| Approximate Weight (including batteries) | About 1,600 g | | About 1,450 g | |

*1 AA Ni-MH rechargeable batteries can also be used, but will not be recharged with the AC adapter. *2 When using for a long time at about 20°C, we recommend using the AC adapter instead of AA alkaline batteries. *3 This is based on the number of lines, so continuous usage time is the same with any combination. *4 When the power switch is turned ON, a horizontal line will be automatically irradiated. *5 Maximum reachable distance varies depending on the working environment and measurement position used. *6 Dustproof performance: Prevents dust from penetrating inside the device. A small amount of dust that has penetrated inside will not hinder normal operation. Waterproof performance: It will not be harmfully affected by a splash of water from any direction.

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge

Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# Vibration-resistant Sensor + Motor

LASER ROBO NEO GREEN E-SENSOR

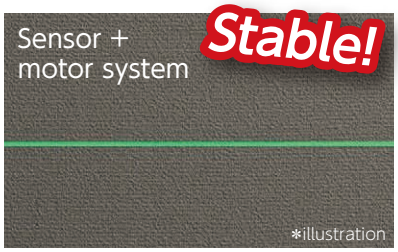
LASER ROBO NEO E-SENSOR

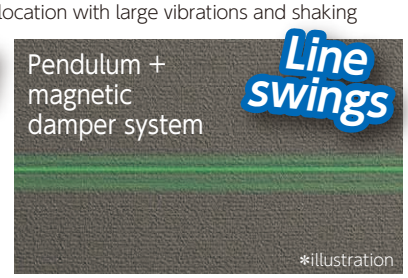
## Features of Laser ROBO Neo E Sensor series

*Laser depicted is an illustration.

### Vibration resistant

●Quickly determine the line even in a work location with large vibrations and shaking




### Easy-to-see Line/Bright Line

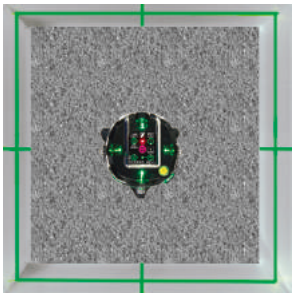
●Highly visible green-colored laser, bright and vivid red-colored laser

### Fixed Line Mode

●Convenient when wanting to expose the line diagonally, etc.

### Full Horizontal Line

●Emits laser lights in all 4 horizontal directions, spreading out in a full horizontal line (51 AR model)



### AC adapter

●Continuous use possible over a long time

### 360° Rotary fine-adjustment

●Can be adjusted to a precise reference with rotary fine-adjustment knob capable of 360° rotation

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge

Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

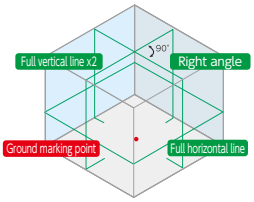
# Laser ROBO Green Neo E Sensor

High Brightness GREEN | Full horizontal Accuracy ±1.5mm/7.5m (51 AR model) | High Precision ±1mm/7.5m | Dust/Water-proof IP54 | For Laser Receiver | Dual Power Source Battery AC

**Do not stare into beam**
Maximum Output 1 mW Frequency 5.5 kHz
Wavelength 510 – 538 nm
Class 2 Laser Product JIS C6802: 2014

●Full line type with full horizontal line and 4 vertical lines

Around Horizon



71606

●High class type with full vertical lines

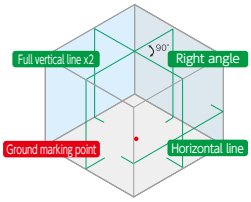
71605

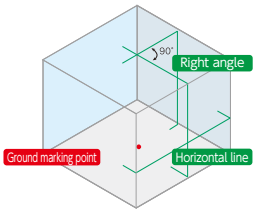
●Reveals right angle to improve work efficiency

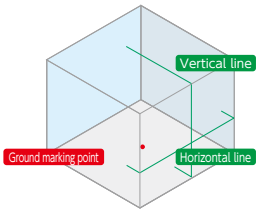
71603

●Basic vertical and horizontal line

71602



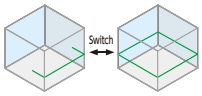
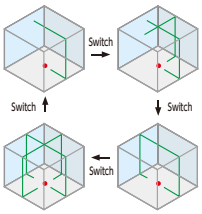
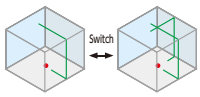



## Features

●Uses a sensor + motor system that is resistant to strong vibrations

●With convenient Fixed Line Mode when wanting to expose line diagonally

●Enables changing exposure only to necessary lines for horizontal circumference, full vertical and triangle-shape projection to reduce power consumption

| | |
|---|---|
| 71606<br>71616 | ① button to switch line patterns<br>  |
| 71606<br>71616<br>71605<br>71615 | ③ button to switch line patterns<br>  |
| 71603<br>71613 | ③ button to switch line patterns<br>  |

## Use

●For all types of referencing

## Specifications

●Mentioned on page 102

*Laser depicted is an illustration.

| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 71606 | Green Neo E Sensor 51 AR | 4 960910 716063 | 1 | B |
| 71616 | Green Neo E Sensor 51 AR with Receiver and Tripod | 4 960910 716162 | | |
| 71605 | Green Neo E Sensor 51 | 4 960910 716056 | | |
| 71615 | Green Neo E Sensor 51 with Receiver and Tripod | 4 960910 716155 | | |
| 71603 | Green Neo E Sensor 31 | 4 960910 716032 | | |
| 71613 | Green Neo E Sensor 31 with Receiver and Tripod | 4 960910 716131 | | |
| 71602 | Green Neo E Sensor 21 | 4 960910 716025 | | |
| 71612 | Green Neo E Sensor 21 with Receiver and Tripod | 4 960910 716124 | | |

**Accessories**

AC adapter

Level adjustment tripod adapter

Aluminum case
4x AA Alkaline batteries

**Receiver and Tripod Set Items**

Laser Receiver Ⅱ Plus for Laser ROBO Green with Holder

Tripod with handle
Elevator A Lightweight type

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

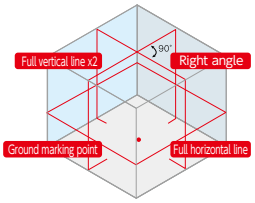
# Laser ROBO Neo E Sensor

High Brightness Twice More | Full horizontal Accuracy ±1.5/7.5m (51 AR model) | High Precision ±1mm/7.5m | Dust/Water-proof IP54 | For Laser Receiver | Dual Power Source Battery AC

**Do not stare into beam**
Maximum Output 1 mW Frequency 5.5 kHz
Wavelength 635 - 638 nm
Class 2 Laser Product JIS C6802: 2014

●Full line type with full horizontal line and 4 vertical lines

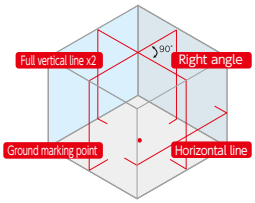
Around Horizon



71506

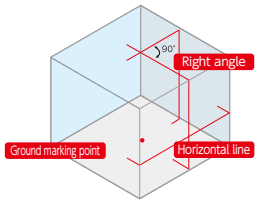
●High class type with full vertical lines

71505



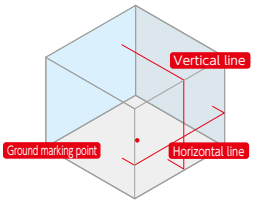
●Reveals right angle to improve work efficiency

71503



●Basic vertical and horizontal line

71502



## Features

●Uses a sensor + motor system that is resistant to strong vibrations

●Convenient Fixed Line Mode when wanting to expose line diagonally

●Includes Level Adjustment Tripod Adapter that makes it easy to adjust level when using a tripod

●Can be adjusted to a precise reference with rotary fine-adjustment knob capable of 360° rotation

## Use

●For all types of referencing

## Specifications

●Mentioned on page 102

*Laser depicted is an illustration.

| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 71506 | Neo 51 AR E Sensor | 4 960910 715066 | 1 | B |
| 71516 | Neo 51 AR E Sensor with Receiver and Tripod | 4 960910 715165 | | |
| 71505 | Neo 51 E Sensor | 4 960910 715059 | | |
| 71515 | Neo 51 E Sensor with Receiver and Tripod | 4 960910 715158 | | |
| 71503 | Neo 31 E Sensor | 4 960910 715035 | | |
| 71513 | Neo 31 E Sensor with Receiver and Tripod | 4 960910 715134 | | |
| 71502 | Neo 21 E Sensor | 4 960910 715028 | | |
| 71512 | Neo 21 E Sensor with Receiver and Tripod | 4 960910 715127 | | |

**Accessories**

AC Adapter

Laser Glasses

Level Adjustment Tripod Adapter

Aluminum Case
4x AA Alkaline batteries

**Receiver and Tripod Set Items**

Optical Receiver
Laser Receiver II Plus
with Holder

Tripod with Handle
Elevator A Lightweight Type

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

## Specifications Laser ROBO Neo E Sensor series

| | 71606 | 71605 | 71603 | 71602 |
|---|---|---|---|---|
| Type | Green Neo E Sensor 51AR | Green Neo E Sensor 51 | Green Neo E Sensor 31 | Green Neo E Sensor 21 |
| Light Source | Visible light semiconductor laser | | | |
| Output | Less than 1 mW (JIS class 2 C6802: 2014) | | | |
| Wave Length | 520 nm (Green) Ground Marking Point: 650 nm (Red) | | | |
| Display Accuracy | Vertical: ±1 mm per 7.5 m<br>Horizontal Circumference: ±1.5 mm per 7.5 m | Vertical/ Horizontal Line ±1 mm per 7.5 m | | |
| Plumb Point Accuracy | ±1 mm per 3 m | | | – |
| Vertical Accuracy | ±0.03° at 90° | | | – |
| Base Line Accuracy | ±1 mm per 7.5 m | | – | |
| Angle of Emergence | Vertical: About 120°<br>Horizontal: About 100° (Front 115°) | Vertical: About 120° Horizontal: About 115° | | |
| Line Diameter | About 1.8 mm at 5 m ahead (about 2 mm at 7.5 m ahead) | | | |
| Automatic Correction Range | ±3° | | | |
| Tilt Alarm | Laser light blinks when it gets over automatic correction range (about a 1-second interval) *1 | | | |
| Rotary Fine-Adjustment Range | 360° | | | |
| Braking System | Sensor + motor system | | | |
| Power Source | 4x AA Alkaline batteries or AC adapter *2 | | | |
| Continuous Usage Time *3<br>(A), (B), (C), and (D) correspond to description in the previous pages *6 | ①Mode *4<br>(A)7.5 hrs (B)35 hrs<br>②Mode<br>(A)12 hrs (B)2 hrs<br>③Mode<br>(A)24 hrs (B)12 hrs<br>(C)12 hrs (D)5.5 hrs | ①Mode *5<br>(A)35 hrs<br>②Mode<br>(A)12 hrs (B)4.5 hrs<br>③Mode<br>(A)24 hrs (B)12 hrs<br>(C)12 hrs (D)5.5 hrs | ①Mode *5<br>(A)35 hrs<br>②Mode<br>(A)12 hrs (B)9 hrs<br>③Mode<br>(A)24 hrs (B)12 hrs | ①Mode *5<br>(A)35 hrs<br>②Mode<br>(A)12 hrs<br>③Mode<br>(A)24 hrs |
| Battery Usage Alarm | Power lamp flashes during use, laser light blinks for 8secs. When turned on (at 0.5sec. intervals),<br>or when battery is nearly depleted, the device no longer does automatic leveling and laser light blinks for about 1sec. intervals. | | | |
| Maximum Range of Line | About 35 m (when with optical receiver) *7 | | | |
| Dustproof/Waterproof | IP54 (when with battery) *8 | | | |
| Tripod Screw | 5/8 inch | | | |
| Size | Diameter 128 mm × Height 190 mm (body 105 mm x 96 mm) | | | |
| Approximate Weight (including battery) | 1,325 g | 1,280 g | 1,265 g | 1,250 g |

*1 All of the lines will turn off, and only the horizontal line will blink. Return to automatic correction range and it will return to the previous state. *2 AA nickel hydride batteries can be used, but the AC adapter will not charge the device. *3 When using AA alkaline batteries at 20℃. *4 With the AR Series, turning the power switch ON automatically goes into ① mode' s full horizontal line. *5 Turning the power switch ON automatically goes into ① mode. *6 Hold down the ② button to turn on all the lines. Using an AC adapter is recommended when using full lines over a long period of time. *7 Depends on circumstance and position of use. Receiving over 20m ahead is possible but accuracy is not guaranteed. *8 Dustproof: Protected from limited dust ingress. Waterproof: Protected from water spray from any direction.

| | 71506 | 71505 | 71503 | 71502 |
|---|---|---|---|---|
| Type | Neo E Sensor 51AR | Neo E Sensor 51 | Neo E Sensor 31 | Neo E Sensor 21 |
| Light Source | Visible light semiconductor laser | | | |
| Output | Less than 1 mW (JIS class 2) | | | |
| Wave Length | 635 nm Ground Marking Point: 650 nm (Red) | | | |
| Display Accuracy | Vertical : ±1 mm per 7.5 m<br>Horizontal Circumference : ±1.5 mm per 7.5 m | Vertical/ Horizontal Line ±1 mm per 7.5 m | | |
| Plumb Point Accuracy | ±1 mm per 3 m | | | – |
| Vertical Accuracy | ±0.03° at 90° | | | – |
| Base Line Accuracy | ±1 mm per 7.5 m | | – | |
| Angle of Emergence | Vertical: About 120°<br>Horizontal: About 100° (Front 115°) | Vertical: About 120° Horizontal: About 115° | | |
| Line Diameter | About 1.5 mm at 5 m ahead (about 2 mm at 7.5 m ahead) | | | |
| Automatic Correction Range | ±3° | | | |
| Tilt Alarm | Laser light blinks when it gets over automatic correction range (about a 1-second interval) *1 | | | |
| Rotary Fine-Adjustment Range | 360° | | | |
| Braking System | Sensor + motor system | | | |
| Power Source | 4x AA Alkaline batteries or AC adapter *2 | | | |
| Continuous Usage Time *3<br>(1) : ①Mode *4<br>(2) : ②Mode<br>(F) : All Lines Mode *6<br>(3) : ③Mode | (1)11.5 hrs *4<br>(2)22 hrs<br>(F)3.5 hrs<br>(3)9 hrs | (1)44.5 hrs *5<br>(2)22 hrs<br>(F)7.5 hrs<br>(3)9 hrs | (1)44.5 hrs *5<br>(2)22 hrs<br>(F)14 hrs<br>(3)22 hrs | (1)44.5 hrs *5<br>(2)22 hrs<br>(3)35.5 hrs |
| Battery Usage Alarm | Power lamp flashes during use, laser light blinks for 8secs. When turned on (at 0.5sec. intervals),<br>or when battery is nearly depleted, the device no longer does automatic leveling and laser light blinks for about 1sec. intervals. | | | |
| Maximum Range of Line | About 35 m (when with optical receiver) *7 | | | |
| Dustproof/Waterproof | IP54 (when with battery) *8 | | | |
| Tripod Screw | 5/8 inch | | | |
| Size | Diameter 128 mm × Height 190 mm (body 105 mm x 96 mm) | | | |
| Approximate Weight (including battery) | 1,325 g | 1,280 g | 1,265 g | 1,250 g |

*1 All of the lines will turn off, and only the horizontal line will blink. Return to automatic correction range and it will return to the previous state. *2 AA nickel hydride batteries can be used, but the AC adapter will not charge the device. *3 When using AA alkaline batteries at 20℃. *4 With the AR Series, turning the power switch ON automatically goes into ① mode' s full horizontal line. *5 Turning the power switch ON automatically goes into ① mode. *6 Hold down the ② button to turn on all the lines. Using an AC adapter is recommended when using full lines over a long period of time. *7 Depends on circumstance and position of use. Receiving over 20m ahead is possible but accuracy is not guaranteed. *8 Dustproof: Protected from limited dust ingress. Waterproof: Protected from water spray from any direction.

JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

# Full Horizontal High-brightness Line Models

# High-brightness Line Standard Models

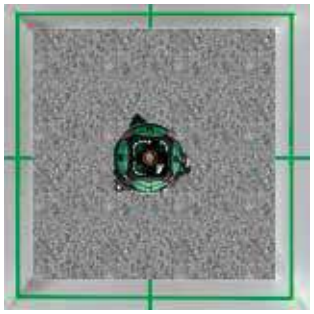
## Features of Laser ROBO Green Neo AR BRIGHT series

*Laser depicted is an illustration.

### Full Horizontal Line

●Emits laser lights in all 4 horizontal directions, spreading out in a full horizontal line

Around Horizon



### Outstanding visibility

●Green line visually easier to see than red line

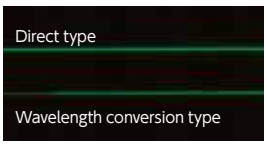
Comparison of green line and red line

*Actual lines may look different.

### Direct semiconductor laser

●Direct laser diode stable even under low or high temperature

●Compared to wavelength conversion type, direct type exposes a line with entirely uniform and stable width and strength




### Level Adjustment Tripod Adapter

●Easy to turn and finely adjust level when using tripod

●Shinwa's original innovative adapter that allows leveling without adjusting tripod legs

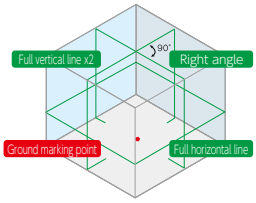
JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge

Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

# Laser ROBO Green Neo AR BRIGHT

High Brightness GREEN | Full horizontal Accuracy ±1.5mm/7.5m | High Precision ±1mm/7.5m | Dust/Water-proof IP54 | For Laser Receiver | Dual Power Source Battery AC | Around Horizon | Do not stare into beam — Maximum Output 1 mW Frequency 5.5 kHz Wavelength 510 – 538 nm Class 2 Laser Product JIS C6802: 2014

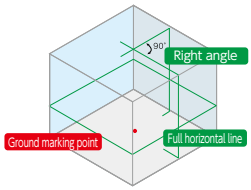
●Full line type with full horizontal line and 4 vertical lines



78279

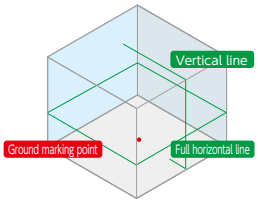
●Full horizontal line and right angle

78278



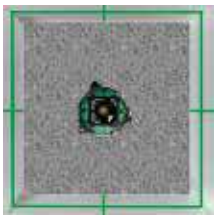
●Full horizontal line and vertical line

78277

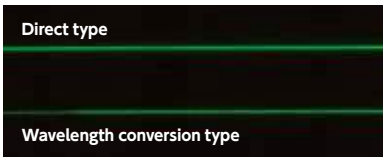


## Features

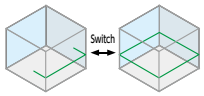
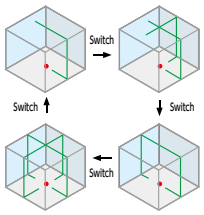
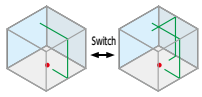
●Emits laser lights in all 4 horizontal directions, spreading out in a full horizontal line



●Uses a direct type semiconductor laser which, compared to a wavelength conversion type, exposes a line with entirely uniform and stable width and strength




●Enables changing exposure only to necessary lines for horizontal circumference, full vertical and triangle-shape projection to reduce power consumption

| | |
|---|---|
| 78279<br>78289<br>78278<br>78288<br>78277<br>78287 | ① button to switch line patterns   |
| 78279<br>78289 | ③ button to switch line patterns   |
| 78278<br>78288 | ③ button to switch line patterns   |

●Includes Level Adjustment Tripod Adapter that makes it easy to adjust level when using a tripod

●Can be adjusted to a precise reference with rotary fine-adjustment knob capable of 360° rotation

## Use

●For all types of referencing

## Specifications

●Mentioned on page 108

*Laser depicted is an illustration.

### Accessories

AC Adapter

Level Adjustment Tripod Adapter

Aluminum Case
4x AA Alkaline Batteries

### Receiver and Tripod Set Items

Laser Receiver Ⅱ Plus for Laser ROBO Green with Holder

Tripod with Handle Elevator A Lightweight Type

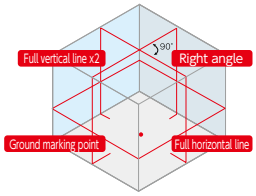
| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 78279 | Green Neo 51 AR BRIGHT | 4 960910 782792 | 1 | B |
| 78289 | Green Neo 51 AR BRIGHT with Receiver and Tripod | 4 960910 782891 | | |
| 78278 | Green Neo 31 AR BRIGHT | 4 960910 782785 | | |
| 78288 | Green Neo 31 AR BRIGHT with Receiver and Tripod | 4 960910 782884 | | |
| 78277 | Green Neo 21 AR BRIGHT | 4 960910 782778 | | |
| 78287 | Green Neo 21 AR BRIGHT with Receiver and Tripod | 4 960910 782877 | | |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

# Laser ROBO Neo AR BRIGHT

High Brightness Twice More | Full horizontal Accuracy ±1.5mm/7.5m | High Precision ±1mm/7.5m | Dust/Water-proof IP54 | For Laser Receiver | Around Horizon | Do not stare into beam — Maximum Output 1 mW Frequency 5.5 kHz Wavelength 635 - 638 nm Class 2 Laser Product JIS C6802: 2014

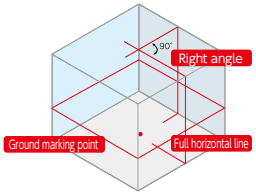
●Full line type with full horizontal line and 4 vertical lines



78241

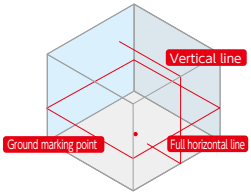
●Full horizontal line and right angle

78240



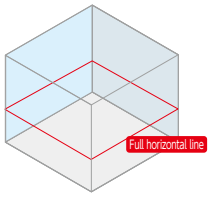
●Full horizontal line and vertical line

77508



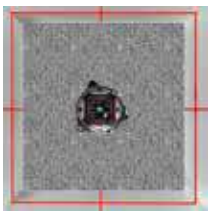
●Full horizontal line only

77507

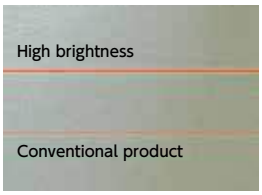


## Features

●Emits laser lights in all 4 horizontal directions, spreading out in a full horizontal line



●Vivid line can easily be seen even in bright worksites




●Includes Level Adjustment Tripod Adapter that makes it easy to adjust level when using a tripod

●Can be adjusted to a precise reference with rotary fine-adjustment knob

●Dustproof, water-resistant construction for use even in dusty environments or during sudden rain

## Use

●For all types of referencing

## Specifications

●Mentioned on page 108

*Laser depicted is an illustration.

| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 78241 | Neo 51 AR BRIGHT | 4 960910 782419 | 1 | B |
| 78244 | Neo 51 AR BRIGHT with Receiver and Tripod | 4 960910 782440 | | |
| 78240 | Neo 31 AR BRIGHT | 4 960910 782402 | | |
| 78243 | Neo 31 AR BRIGHT with Receiver and Tripod | 4 960910 782433 | | |
| 77508 | Neo 21 AR BRIGHT | 4 960910 775084 | | |
| 78219 | Neo 21 AR BRIGHT with Receiver and Tripod | 4 960910 782198 | | |
| 77507 | Neo 01 AR BRIGHT | 4 960910 775077 | | |
| 78218 | Neo 01 AR BRIGHT with Receiver and Tripod | 4 960910 782181 | | |

## Accessories

Laser Glasses

Level Adjustment Tripod Adapter

Aluminum Case
4x AA Alkaline batteries

## Receiver and Tripod Set Items

Optical Receiver
Laser Receiver II Plus with Holder

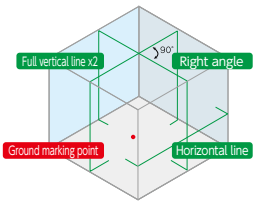
Tripod with Handle
Elevator A Lightweight Type

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Laser ROBO Green Neo BRIGHT

High Brightness GREEN | High Precision ±1mm/7.5m | Dust/Water-proof IP54 | For Laser Receiver | Dual Power Source Battery AC | Do not stare into beam — Maximum Output 1 mW Frequency 5.5 kHz Wavelength 510 – 538 nm Class 2 Laser Product JIS C6802: 2014

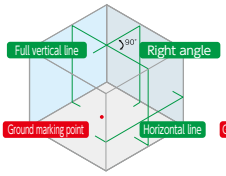
●High-class green type with full vertical lines



78276

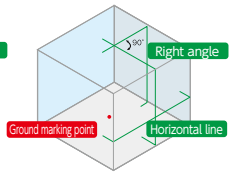
●Multi-purpose green type that gives all required reference lines

78271



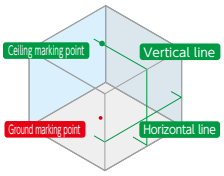
●Green type with right angle

78275



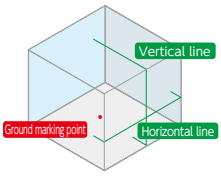
●Green type with ceiling marking point

78273



●Green type with basic vertical & horizontal line

78274

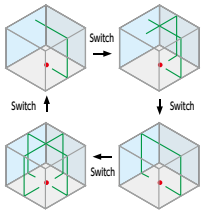
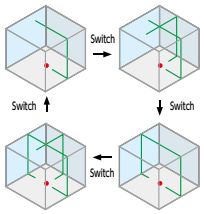
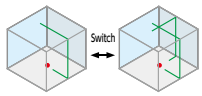
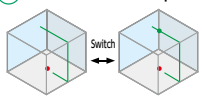


| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 78276 | Green Neo 51 BRIGHT | 4 960910 782761 | 1 | B |
| 78286 | Green Neo 51 BRIGHT with Receiver and Tripod | 4 960910 782860 | | |
| 78271 | Green Neo 41 BRIGHT | 4 960910 782716 | | |
| 78291 | Green Neo 41 BRIGHT with Receiver and Tripod | 4 960910 782914 | | |
| 78275 | Green Neo 31 BRIGHT | 4 960910 782754 | | |
| 78285 | Green Neo 31 BRIGHT with Receiver and Tripod | 4 960910 782853 | | |
| 78273 | Green Neo 21P BRIGHT | 4 960910 782730 | | |
| 78283 | Green Neo 21P BRIGHT with Receiver and Tripod | 4 960910 782839 | | |
| 78274 | Green Neo 21 BRIGHT | 4 960910 782747 | | |
| 78284 | Green Neo 21 BRIGHT with Receiver and Tripod | 4 960910 782846 | | |

## Features

●Uses a direct type semiconductor laser which, compared to a wavelength conversion type, exposes a line with entirely uniform and stable width and strength

●Enables changing exposure only to necessary lines for horizontal circumference, full vertical and triangle-shape projection to reduce power consumption

| | |
|---|---|
| 78276<br>78286 | ③ button to switch line patterns   |
| 78271<br>78291 | ③ button to switch line patterns   |
| 78275<br>78285 | ③ button to switch line patterns   |
| 78273<br>78283 | ③ button to switch line patterns   |

●Includes Level Adjustment Tripod Adapter that makes it easy to adjust level when using a tripod

●Can be adjusted to a precise reference with rotary fine-adjustment knob capable of 360° rotation

## Use

●For all types of referencing

## Specifications

●Mentioned on page 108

*Laser depicted is an illustration.

**Accessories**

AC Adapter

Level Adjustment Tripod Adapter

Aluminum Case
4x AA Alkaline batteries

**Receiver and Tripod Set Items**

Laser Receiver Ⅱ Plus for Laser ROBO Green with Holder

Tripod with Handle Elevator A Lightweight Type

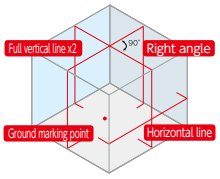
JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge | Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Laser ROBO Neo BRIGHT

High Brightness Twice More | High Precision ±1mm/7.5m | Dust/Water-proof IP54 | For Laser Receiver | Do not stare into beam — Maximum Output 1 mW Frequency 5.5 kHz Wavelength 635 – 638 nm Class 2 Laser Product JIS C6802: 2014

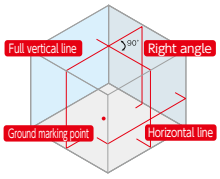
●Premium product with two full lines

77362



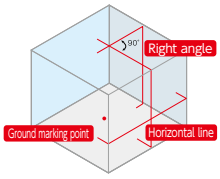
●Multi-purpose type that gives all required reference lines

77361



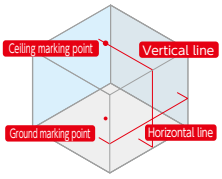
●Reveals right angle to improve work efficiency

77360



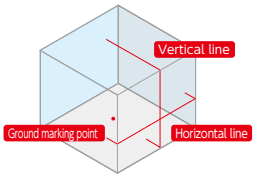
●Reveals ceiling marking point

77355



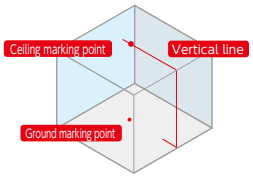
●Basic vertical and horizontal line

77354



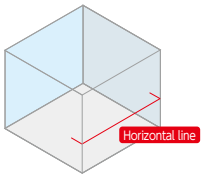

●Reveals ceiling marking point

77389




●Horizontal line only

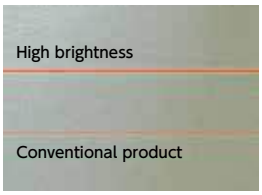
77388




| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 77362 | Neo 51 BRIGHT | 4 960910 773622 | 1 | B |
| 77625 | Neo 51 BRIGHT with Receiver and Tripod | 4 960910 776258 | | |
| 77361 | Neo 41 BRIGHT | 4 960910 773615 | | |
| 77609 | Neo 41 BRIGHT with Receiver and Tripod | 4 960910 776098 | | |
| 77360 | Neo 31 BRIGHT | 4 960910 773608 | | |
| 77608 | Neo 31 BRIGHT with Receiver and Tripod | 4 960910 776081 | | |
| 77355 | Neo 21P BRIGHT | 4 960910 773554 | | |
| 77606 | Neo 21P BRIGHT with Receiver and Tripod | 4 960910 776067 | | |
| 77354 | Neo 21 BRIGHT | 4 960910 773547 | | |
| 77605 | Neo 21 BRIGHT with Receiver and Tripod | 4 960910 776050 | | |
| 77389 | Neo 11P BRIGHT | 4 960910 773899 | | |
| 77388 | Neo 01 BRIGHT | 4 960910 773882 | | |

## Features

●Vivid line can easily be seen even on bright worksites




●Includes Level Adjustment Tripod Adapter that makes it easy to adjust level when using a tripod

●Can be adjusted to a precise reference with rotary fine-adjustment knob capable of 360° rotation

●Dustproof, water-resistant construction for use even in dusty environments or during sudden rain

## Use

●For all types of referencing

## Specifications

●Mentioned on page 108

*Laser depicted is an illustration.

### Accessories

Laser Glasses

Level Adjustment Tripod Adapter

Aluminum Case
4x AA Alkaline batteries

### Receiver and Tripod Set Items

Optical Receiver
Laser Receiver II Plus with Holder

Tripod with Handle
Elevator A Lightweight Type

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

## Specifications Laser ROBO Neo BRIGHT Series

| | 78279 | 78278 | 78277 | 78276 | 78271 | 78275 | 78273 | 78274 |
|---|---|---|---|---|---|---|---|---|
| Type | Green Neo 51 AR BRIGHT | Green Neo 31 AR BRIGHT | Green Neo 21 AR BRIGHT | Green Neo 51 BRIGHT | Green Neo 41 BRIGHT | Green Neo 31 BRIGHT | Green Neo 21P BRIGHT | Green Neo 21 BRIGHT |
| Light Source | Visible light semiconductor laser | | | | | | | |
| Output | Less than 1 mW (JIS class 2) | | | | | | | |
| Wave Length | 520 nm (Green) Ground Marking Point: 650 nm (Red) | | | | | | | |
| Display Accuracy | Vertical: ±1 mm per 7.5 m<br>Horizontal Circumference: ±1.5 mm per 7.5 m | | | Vertical/ Horizontal Line ±1 mm per 7.5 m | | | | |
| Plumb Point Accuracy | ±1 mm per 3 m | | – | ±1 mm per 3 m | | | | – |
| Vertical Accuracy | ±0.03° at 90° | | – | ±0.03° at 90° | | | – | |
| Base Line Accuracy | ±1 mm per 7.5 m | – | | ±1 mm per 7.5 m | | – | | |
| Angle of Emergence | Vertical: About 130° Horizontal: About 105° | | | Vertical: About 130° Horizontal: About 120° | | | | |
| Line Diameter | About 1.8 mm at 5 m ahead (about 2 mm at 7.5 m ahead) | | | | | | | |
| Automatic Correction Range | ±2.5° | | | | | | | |
| Tilt Alarm | Laser light blinks when it gets over automatic correction range (about a 1-second interval)＊1 | | | | | | | |
| Rotary Fine-Adjustment Range | 360° | | | | | | | |
| Braking System | Pendulum + Magnetic damper | | | | | | | |
| Power Source | 4x AA Alkaline batteries or AC adapter ＊2 | | | | | | | |
| ＊3 Continuous Usage Time (A), (B), (C), and (D) correspond to description in the previous pages ＊4 ＊5 | ①Mode (A)7 hrs (B)27 hrs<br>②Mode (A)11 hrs (B)2 hrs<br>③Mode (A)19 hrs (B)11 hrs (C)11 hrs (D)4.5 hrs | ①Mode (A)7 hrs (B)27 hrs<br>②Mode (A)11 hrs (B)3.5 hrs<br>③Mode (A)19 hrs (B)11 hrs | ①Mode (A)7 hrs (B)27 hrs<br>②Mode (A)11 hrs (B)4 hrs<br>③Mode (A)19 hrs | ①Mode (A)27 hrs<br>②Mode (A)11 hrs (B)4 hrs<br>③Mode (A)19 hrs (B)11 hrs (C)11 hrs (D)4.5 hrs | ①Mode (A)27 hrs<br>②Mode (A)11 hrs (B)4.5 hrs<br>③Mode (A)19 hrs (B)11 hrs (C)11 hrs (D)7 hrs | ①Mode (A)27 hrs<br>②Mode (A)11 hrs (B)7 hrs<br>③Mode (A)19 hrs (B)11 hrs | ①Mode (A)27 hrs<br>②Mode (A)11 hrs (B)7 hrs<br>③Mode (A)19 hrs (B)11 hrs | ①Mode (A)27 hrs<br>②Mode (A)11 hrs<br>③Mode (A)19 hrs |
| Battery Usage Alarm | Laser light blinks for 8secs when turned on. (at 0.5-sec intervals) | | | | | | | |
| Maximum Range of Line | About 35 m (when with optical receiver) ＊6 | | | | | | | |
| Dustproof/Waterproof | IP54 ＊7 | | | | | | | |
| Tripod Screw | 5/8 inch | | | | | | | |
| Size(mm) | Diameter 128 × Height 190 (body ϕ110 mm) | | | Diameter 128 × Height 180 (body ϕ94 mm) | | | | |
| Approximate Weight (including battery) | 1,320 g | 1,290 g | 1,260 g | 1,215 g | 1,210 g | 1,200 g | 1,195 g | 1,190 g |

＊1 All of the lines will turn off, and only the horizontal line will blink. Return to automatic correction range and it will return to the previous state. ＊2 AA nickel hydride batteries can be used, but the AC adapter will not charge the device. ＊3 When using AA alkaline batteries at 20℃. ＊4 With the AR Series, turning the power switch ON automatically goes into ① mode' s full horizontal line. ＊5 Hold down the ② button to turn on all the lines. Using an AC adapter is recommended when using full lines over a long period of time. ＊6 Depends on circumstance and position of use. Receiving over 20m ahead is possible but accuracy is not guaranteed. ＊7 Dustproof: Protected from limited dust ingress. Waterproof: Protected from water spray from any direction.

| | 78241 | 78240 | 77508 | 77507 | 77362 | 77361 | 77360 | 77355 | 77354 | 77389 | 77388 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Type | Neo 51 AR BRIGHT | Neo 31 AR BRIGHT | Neo 21 AR BRIGHT | Neo 01 AR BRIGHT | Neo 51 BRIGHT | Neo 41 BRIGHT | Neo 31 BRIGHT | Neo 21P BRIGHT | Neo 21 BRIGHT | Neo 11P BRIGHT | Neo 01 BRIGHT |
| Light Source | Visible Light Semiconductor Laser | | | | | | | | | | |
| Output | Less than 1 mW (JIS class 2) | | | | | | | | | | |
| Wave Length | 635 nm (ground marking point: 650 nm) | | | 635 nm | 635 nm (ground marking point: 650 nm) | | | | | | 635 nm |
| Display Accuracy | Vertical: ±1 mm per 7.5 m<br>Horizontal circumference: ±1.5 mm per 7.5 m | | | Horizontal Circumference: ±1.5 mm per 7.5 m | Vertical/ Horizontal Line ±1 mm per 7.5 m | | | | | Vertical : ±1 mm per 7.5 m | Horizontal Circumference : ±1 mm per 7.5 m |
| Plumb Point Accuracy | ±1 mm per 3 m | | – | | ±1 mm per 3 m | | | | – | ±1 mm per 3 m | – |
| Vertical Accuracy | ±0.03° at 90° | | – | | ±0.03° at 90° | | | – | | | |
| Base Line Accuracy | ±1 mm per 7.5 m | – | | | ±1 mm per 7.5 m | | – | | | | |
| Angle of Emergence | Vertical: About 130° Horizontal: About 105° | | | – | Vertical: About 130° Horizontal: About 120° | | | | | Vertical: About 130° | Horizontal: About 105° |
| Line Diameter | About 1.5 mm at 5 m ahead (about 2 mm at 7.5 m ahead) | | | | | | | | | | |
| Automatic Correction Range | ±2.5° | | | | | | | | | | |
| Tilt Alarm | Laser light blinks when it gets over automatic correction range (about a 1-second interval) | | | | | | | | | | |
| Rotary Fine-Adjustment Range | About 5° (500 mm per 5 m) | | | | 360° | | | | | | |
| Braking System | Pendulum + Magnetic damper | | | | | | | | | | |
| Power Source | 4x AA Alkaline batteries | | | | | | | | | | |
| Continuous Usage Time ＊1 (1):①Mode (2):②Mode (F):All Lines Mode ＊2 (3):③Mode | (1)13 hrs (2)17.5 hrs (F)4 hrs (3)10 hrs | (1)13 hrs (2)17.5 hrs (F)5.5 hrs (3)24 hrs | (1)13 hrs (2)17.5 hrs (F)6.5 hrs (3)32 hrs | (1)13 hrs | (1)58 hrs (2)24 hrs (F)8 hrs (3)12 hrs | (1)58 hrs (2)24 hrs (F)12 hrs (3)16 hrs | (1)58 hrs (2)24 hrs (F)16 hrs (3)25 hrs | (1)58 hrs (2)24 hrs (F)24 hrs (3)37 hrs | (1)58 hrs (2)24 hrs (3)42 hrs | (1)37 hrs | (1)58 hrs |
| Battery Usage Alarm | Laser light blinks for 8secs when turned on (at 0.5-sec intervals) | | | | | | | | | | |
| Maximum Range of Line | About 35 m (when with optical receiver) ＊3 | | | | | | | | | | |
| Dustproof/Waterproof | IP54 ＊4 | | | | | | | | | | |
| Tripod Screw | 5/8 inch | | | | | | | | | | |
| Size(mm) | Diameter 128 × Height 190 (body ϕ110 mm) | | | | Diameter 128 × Height 180 (body ϕ94 mm) | | | | | | |
| Approximate Weight (including battery) | 1,320 g | 1,290 g | 1,260 g | 1,190 g | 1,215 g | 1,210 g | 1,200 g | 1,195 g | 1,190 g | 1,150 g | 1,140 g |

＊1 When using AA alkaline batteries at 20℃. ＊2 Hold down the ② button to turn on all the lines. ＊3 Depends on circumstance and position of use. Receiving over 20 m ahead is possible but accuracy is not guaranteed. ＊4 Dustproof: Protected from limited dust ingress. Waterproof: Protected from water spray from any direction.

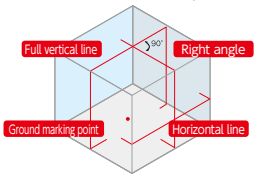
JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens T With edge
12 Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad C°F Thermometer/Hygrometer % Hygrometer L With hanging hole N Letters in English With direction arrow With grid scale Plastic lens

# Laser ROBO Fine BRIGHT

High Brightness Twice More | High Precision ±1mm/10m | Dust/ No hyphen IP54 | For Laser Receiver | Do not stare into beam — Maximum Output 1 mW Frequency 5.5 kHz Wavelength 635 - 638 nm Class 2 Laser Product JIS C6802: 2014

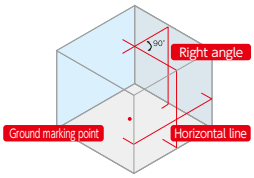
●Multi-purpose type that gives all required reference lines

77467



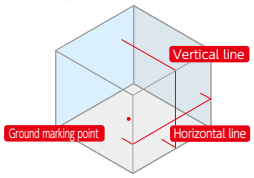
●Reveals right angle to improve work efficiency

77466



●Basic vertical and horizontal line

77465



| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 77467 | Fine 41 BRIGHT | 4 960910 774674 | 1 | B |
| 77466 | Fine 31 BRIGHT | 4 960910 774667 | | |
| 77465 | Fine 21 BRIGHT | 4 960910 774650 | | |

## Features

●High precision and bright high-grade model
●Compact size for single-hand operation

## Use

●For all types of referencing

## Specifications

| | 77467 | 77466 | 77465 |
|---|---|---|---|
| Light Source | Visible light semiconductor laser | | |
| Output | Less than 1 mW (JIS class 2) | | |
| Wavelength | 635 nm (ground marking point: 650 nm) | | |
| Display Accuracy | Vertical/ Horizontal Line ±1mm per 10 m | | |
| Plumb Point Accuracy | ±1 mm per 5 m | | — |
| Vertical Accuracy | ±0.012° at 90° | | — |
| Base Line Accuracy | ±1 mm per 10 m | — | |
| Angle of Emergence | Vertical: About 135° Horizontal: About 120° | | |
| Line Diameter | 1.5 mm at 5 m ahead | | |
| Automatic Correction Range | ±2.5° | | |
| Tilt Alarm | Light turns off when over automatic correction range | | |
| Rotary Fine-Adjustment Range | About 5°(500 mm per 5 m) | | |
| Braking System | Magnetic damper | | |
| Power Source | 3x AA alkaline batteries | | |
| Continuous Usage Time *1 (1):①Mode (2):②Mode *2 (F):All Lines Mode (3):③Mode | (1)35 hrs (2)17 hrs (F)9 hrs (3)11 hrs | (1)35 hrs (2)17 hrs (F)11 hrs (3)17 hrs | (1)35 hrs (2)17 hrs (3)27 hrs |
| Battery Usage Alarm | Laser light blinks for 8 secs when turned on | | |
| Maximum Range of Line | About 35 m (with laser receiver) *3 | | |
| Dustproof/Waterproof | IP54 *4 | | |
| Tripod Screw | 5/8 inch | | |
| Size | Diameter 106 mm × Height 180 mm (body ϕ88 mm) | | |
| Approximate Weight (including battery) | 950 g | 930 g | 910 g |

*1 When using AA alkaline batteries at 20℃. *2 Any combination of the same number of V1, V2, and H lines yields the same approximate continuous usage time. *3 Hold down the ② button to turn on all the lines. *4 Depends on circumstance and position of use. Receiving over 20m ahead is possible but accuracy is not guaranteed.

## Accessories

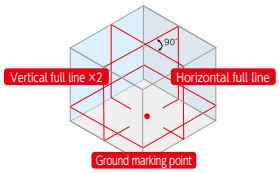
Laser Glasses
4x AA Alkaline batteries

Level Adjustment Tripod Adapter

Aluminum Case

# Laser ROBO Fine 3C

Repeat Precision ±1mm/14m | Line Accuracy ±1mm/14m | Dust/ Water-proof IP54 | For Laser Receiver | Dual Power Source Battery AC | Do not stare into beam — Maximum Output 1 mW Frequency 5.5 kHz Wavelength 620 - 660 nm Class 2 Laser Product JIS C6802: 2014



77096

## Accessories

●Spanner
(for removing and replacing of tripod installation adapter)
●Laser glasses
(improves visibility of laser)
●Quality aluminum case
●Exclusive AC adapter
●4x AA Alkaline batteries
●Tripod installation adapter for 5/8 inch
(already installed to lower part of unit)

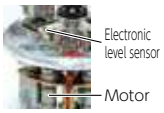
| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 77096 | Fine 3C1 | 4 960910 770966 | 1 | B |

*Laser depicted is an illustration.

## Features

●The world's first corn prism - due to 360° line with no joints, the unit does not have to be turned to level. Greatly increases workability.

●Auto-leveling function performed by electronic level sensor helps to expose stable laser line even at a place where strong vibration occurs.




## Use

●For all types of referencing

## Specifications

| | 77096 |
|---|---|
| Light Source | Visible light semiconductor laser |
| Output | Less than 1 mW (JIS class 2) |
| Wavelength | 620 - 660 nm |
| Line Accuracy | ±1 mm per 14 m |
| Repeat Precision | ±1 mm per 14 m |
| Plumb Point Accuracy | ±1 mm per 10 m |
| Vertical Accuracy | ±0.0086° at 90° |
| Angle of Emergence | ±1 mm per 14 m |
| Line Diameter | less than 3 mm at 5 m ahead |
| Automatic Correction Range | ±4° |
| Tilt Alarm | Light turns off when over automatic correction range |
| Rotary Fine-Adjustment Range | About 2°(300 mm per 10 m) |
| Braking System | Auto-leveling function by electronic level sensor and motor |
| Power Source | 3x AA Alkaline batteries / attached AC adapter |
| Continuous Usage Time *1 (1):1 Line *2 (2):2 Lines (3):3 Lines | (1)10 hrs (2)6 hrs (3)4 hrs |
| Battery Usage Alarm | — |
| Maximum Range of Line | About 14 m (with laser receiver) *3 |
| Dustproof/Waterproof | IP54 *4 |
| Tripod Screw | M35 (5/8 inch when using tripod installation adapter) |
| Size | Diameter 195 mm × Height 230 mm (body ϕ150 mm) |
| Approximate Weight (including battery) | 2,000 g |

*1 When using AA alkaline batteries at 20℃. *2 Any combination of the same number of V1, V2, and H lines yields the same approximate continuous usage time. *3 Hold down the ② button to turn on all the lines. *4 Depends on circumstance and position of use. Receiving over 20 m ahead is possible but accuracy is not guaranteed.

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Laser Receiver Ⅱ

Dust/Water-proof IP56

71500

71501

77398

77399

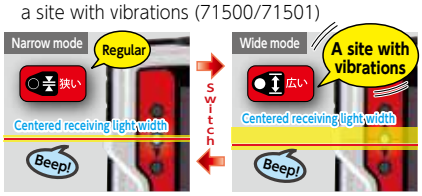
■Compatible models

| 71500･77398 | | 71501･77399 |
|---|---|---|
| X line Red Series<br>Neo BRIGHT Series<br>Neo E Sensor Series | Fine 3C Series<br>Fine BRIGHT Series | X line Green Series<br>Green Neo BRIGHT Series<br>Green Neo E Sensor Series |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 71500 | Plus with Holder | 150×67×34 | 190 | 4 960910 715004 | 1 | B |
| 71501 | Plus for Laser ROBO Green with Holder | 150×67×34 | 190 | 4 960910 715011 | | |
| 77398 | with Holder | 150×67×34 | 190 | 4 960910 773981 | | |
| 77399 | for Laser ROBO Green with Holder | 150×67×34 | 190 | 4 960910 773998 | | |

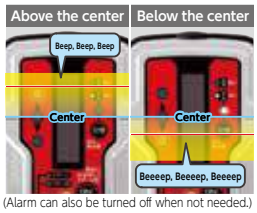
## Features

●Uses narrow mode during regular operation, and can be switched to wide mode for use on a site with vibrations (71500/71501)




(Centered receiving light width is just an illustration. )

●The alarm sound will be different when higher or when lower than the center, so the position of the laser line can be understood by hearing the sound (71500/ 71501)




(Alarm can also be turned off when not needed.)

●Dust/Waterproof structure IP56
5 Dustproof performance: Protected from limited dust ingress
6 Waterproof performance: Protected from high pressure water jets from any direction

●Confirm power-on/off with buzzer and LED light

Buzzer On (red) Buzzer Off (green)

●Holder provided as standard

## Use

●For marking on bright worksites and places where the laser line can be hard to see

## Specifications

| | 71500 | 71501 | 77398 | 77399 |
|---|---|---|---|---|
| Receiving Distance | 1.5 - 20 m*1 | | 1.5 - 20 m*2 | |
| Receiving Accuracy | — | | Within ±1.0 mm from the center of laser line *2 | |
| Centered*3 Receiving Light Width | Narrow mode: Within 1.0 mm from the centered receiving light line<br>Wide mode: Within 2.0 mm from the centered receiving light line | | — | |
| Auto Power Off | Power automatically turns off 7 minutes after turning on. | | | |
| Battery Usage Alarm | Power LED blinks when turned on | | | |
| Power Source | 1x 9V battery<br>(Battery included is for trial use only and may not last as long) | | | |
| Continuous Usage Time | About 20 hrs | | | |

*1 Receiving distance upper limit of 20 m is a reference value. Receiving over a farther distance depends on circumstance and position of use.
*2 Depends on circumstance and position of use. Receiving over 20 m ahead is possible but accuracy is not guaranteed.
*3 Depends on circumstance and position of use

# Rotating Table for Fine 3C

77099

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77099 | Rotating Table for Fine 3C | 150×120×120 | 1,050 | 4 960910 770997 | 1 | B |

## Features

●Movable system allows easy position adjustment
●Tripod legs are foldable to enable work near walls

## Use

●For Fine 3C Series position adjustment

## Specifications

| | |
|---|---|
| Material | Body: Alumnum, stainless steel |
| Installation Screw | M35 |
| Compatible Models | Fine 3C Series |

# Laser Safety Glasses

76793

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76793 | Laser Safety Glasses | 150×55×60 | 32 | 4 960910 767935 | 5 | C |

## Features

●Red laser light is easier to see

## Use

●Red laser light can be spotted even in a bright environment

## Specifications

| | |
|---|---|
| Material | Polycarbonate resin |
| Compatible Models | X line Red Series<br>Neo BRIGHT Series<br>Neo E Sensor Series<br>Fine 3C Series<br>Fine BRIGHT Series |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Laser Holder for Light Weight Steel Framing

76923

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76923 | with Rising/Lowering Motion | 125×180×170 | 920 | 4 960910 769236 | 1 | B |

### Features

- Improves workability with fine-adjustment of 40 mm up and down
- Using together with Level Adjustment Tripod Adapter makes it easy to adjust level when using Laser Holder for Lightweight Steel Framing

### Use

- For base material leveling and adjusting height with laser line generator in lightweight steel framing

### Specifications

| | |
|---|---|
| Material | Body: Aluminum<br>Fixing Screw for Laser Holder: Brass<br>Fixing Screw for Holder: Iron<br>Top Plate/Bottom Plate/Moveable Knob : Polyacetal resin |
| Attachable Post Width | 40 - 120 mm |
| Installation Screw | 5/8 inch |
| Compatible Models | X line Series<br>Green Neo BRIGHT Series<br>Green Neo E Sensor Series<br>Neo BRIGHT Series<br>Neo E Sensor Series<br>Fine BRIGHT Series |

## Laser Range Finder

PSC compatible product

Shaku — Measurement value changeable
Continuous distance measurement
Specified measurement recording
99 — Recalls 99 readings
Addition/ Subtraction
Timer mode
Equal interval notification mode
2-year — 2-year warranty

78174

Shaku — Measurement value changeable
Continuous distance measurement
2-year — 2-year warranty

78190

Class 2 laser product
Maximum Output 1 mW
Wavelength 620 - 690 nm
IEC60825-1: 2014
JIS C6802: 2014

⚠ Warning
- Do not stare into beam
- Do not point laser light at others
- Keep away from children

Accessories

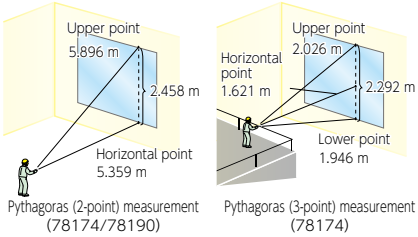
- Soft case (78174)
- Strap (78174/78190)
- 2x AAA Alkaline batteries (78174/78190)

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78174 | L-Measure40 II Metric/Shaku | 122×46×26 | 140 | 4 960910 781740 | 1 | B |
| 78190 | L-Measure30 Metric/Shaku NEW | 112×38×24 | 94 | 4 960910 781900 | 4 | SP |

The picture shown is a concept image. A laser dot is actually projected.

### Features

- Convenient shaku display function for measuring in carpentry such as finding length of studs, length of braces, and length of baseboards and crown molding
- Can measure the area and volume of a room
- Can measure height from a distant location with Pythagoras measurement




Pythagoras (2-point) measurement (78174/78190)
Pythagoras (3-point) measurement (78174)

- Packaged in a size that catches the eyes of a wide range of users when displayed on a tape measure display rack (78190)
- Automatically records measured values (78174)
- Can add or subtract measured values (78174)
- Comes with equal interval notification function that uses a sound to notify each preset distance (78174)
- Comes with timer mode to measure at a set time like a camera's self-timer. Handy when measuring lengths of desks, etc. by oneself. (78174)

### Use

- For measuring distance on construction sites and renovation sites

### Specifications

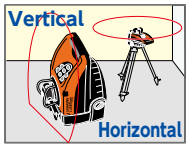
| | 78174 | 78190 |
|---|---|---|
| Material | Body: ABS resin, elastomer resin | Body: ABS resin |
| Measuring Range | 0.1 - 40 m | 0.1 - 30 m |
| Accuracy | ±2.0 mm*1 | ±3.0 mm*2 |
| Output | Less than 1 mW (JIS class 2 C6802: 2014) | |
| Wavelength | 620 - 690 nm | |
| Operating Temperature | 0 - 40℃ | |
| Storage Temperature | −20 - 70℃ | −10 - 50℃ |
| Dustproof, Waterproof | IP40*3 | |
| Continuous Use Count | 5,000 times or more when using new alkaline batteries*4 | |
| Power Source | 2x AAA Alkaline batteries (Batteries included are for trial use only and may not last as long) | |
| Auto Power Off | 3 minutes*5 | |

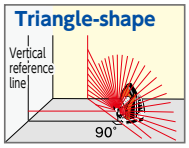
*1 0.1 - 10 m···±2.0 mm
More than 10 m···±2.0±0.05×(D−10) mm (D=measurement distance Unit: m)
Measurement conditions
①Illuminance of less than 3,000 Lux ②Reflectivity is 90% of white target ③Measurement temperature 25°
*2 0.1 - 10 m···±3.0 mm
More than 10 m···±3.0±0.05×(D−10) mm (D=measurement distance Unit: m)
Measurement conditions
①Illuminance of less than 3,000 Lux ②Reflectivity is 90% of white target ③Measurement temperature 25°
*3 Dustproof performance: particles larger than 1.0 mm will not penetrate the device
Waterproof performance: No special protection
*4 When the backlight is off (78174)
*5 The laser light being irradiated will turn off after a certain period of time passes without operation. (78174: about 1 minute, 78190: about 30 seconds)
A beep will also sound when the device auto powers off.

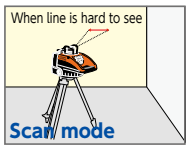
# Rotating Laser

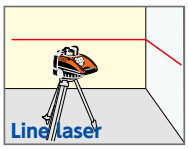
Dust/Waterproof IP64 | For Laser Receiver (Accessory) | Do not stare into beam — Maximum Output 1 mW Frequency 5.5 kHz Wavelength 635 - 638 nm Class 2 Laser Product JIS C6802: 2014

76496



●Equipped with wall mount system for remote control by hanging on a wall

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76497 | HV-2 with Tripod | 178×182×253 | – | 4 960910 764972 | 1 | B |
| 76496 | HV-2 | 178×182×253 | 2,260 | 4 960910 764965 | | |

*Laser depicted is an illustration

## Features

●Receiver unit: Dust/waterproof structure (IP66)
●Tilt mode that automatically stops when the unit is moved abruptly
●Manual mode allows incline of X-axis to Y-axis in the range of ±5.7°
●Can be used as a line laser

## Use

●For all types of referencing

## Specifications

### Unit

| | 76497 | 76496 |
|---|---|---|
| Measuring Range(diameter) | 300 m (150 m radius) with Laser Receiver | |
| Horizontal Accuracy | ±10 mm/100 m | |
| Vertical Accuracy | ±10 mm/100 m | |
| Auto Leveling Range | ±5.7° | |
| Alarm for Out of Auto Leveling Range | Rotating head stops, laser light blinks. | |
| Rotating Speed | 600 rpm/450 rpm/300 rpm<br>150 rpm/90 rpm/0 | |
| Scanning Range | 2°-36° | |
| Light Source | Visible-light diode laser (Class2)<br>Output: less than 1 mW Wavelength: 635 nm | |
| Power Source | 2x D batteries or charging type battery, AC adapter | |
| Continuous Usable Hours | 60 hrs (2x D batteries)<br>40 hrs (charging type battery) | |
| Battery Usage Alarm | ON/OFF LED blinks | |
| Tripod Screw | 5/8 inch | |
| Dustproof/Waterproof | IP64* | |
| Operating Temperature | −20 - 80℃ | |

*6 Dustproof: Protected from total dust ingress
4 Waterproof: Protected from water splay from any direction

### Laser Receiver

| | |
|---|---|
| Receiving Distance | 150 m |
| Volume Control | Switching in 3 stages, Silent, Low, High |
| Display | LCD (front and back) |
| Power Source | 1x 9V Alkaline battery |
| Continuous Usable Hour | 50 hours |
| Dust/Waterproof | IP66 |
| Size | 80(H)×150(W)×35(L)mm |
| Weight | 260 g (including battery) |

*6 Dustproof: Protected from total dust ingress
6 Waterproof: Protected from high pressure water jets from any direction

### Accessories

# Auto Level

Magnification 32x Waterproof IPX4 77055 | Magnification 28x Waterproof IPX4 76901 | Magnification 24x Waterproof IPX4 76653

(77055) (76901·76653)

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77055 | SA-32A with Tripod | 209×130×142 | 1,308 | 4 960910 770553 | 1 | B |
| 76901 | SA-28A with Tripod | 208×130×135 | 1,247 | 4 960910 769014 | | |
| 76653 | SA-24A with Tripod | 208×130×135 | 1,241 | 4 960910 766532 | | |

## Features

●Waterproof structure (IPX4)
●Comes with a domed-head tripod

## Use

●For leveling in construction work

## Specifications

| | 77055 | 76901 | 76653 |
|---|---|---|---|
| Standard Deviation(km) | ±1.0 mm | ±1.5 mm | ±2.0 mm |
| Telescope | Correct image | | |
| Magnification | 32X | 28X | 24X |
| Effective Diameter | 40 mm | 30 mm | |
| Field Angle | 1°30′ | 1°20′ | |
| Shortest Focus Distance | 0.5 m | 0.6 m | |
| Stadia Multiplier | 100 | | |
| Stadia Addend | 0 | | |
| Sensitivity of Vial | 8′/2 mm | | |
| Minimum Horizontal Measurement | 1° | | |
| Auto Leveling System | Magnet damper | | |
| Auto Leveling Range | ±15′ | | |
| Repeat Precision | 0.3″ | | 0.5″ |
| Tripod Screw | 5/8 inch | | |
| Bottom Plate Type | Plane/ spherical | | |
| Waterproof | IPX4* | | |

*IPX4 Waterproof: Protected from water spray from any direction

### Accessories

●Plumb bob, Allen key wrench, Correction needle
●Domed-head tripod
●Special carrying case

# Tripod

76629

76827

76866

76676

76952

77304

76690

76654

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76629 | A with Handle | 655×117×112 | 1,348 | 4 960910 766297 | 1 | B |
| 76827 | B with Handle NEW | 210×75×75 | 270 | 4 960910 768277 | | |
| 76866 | C with Handle NEW | 585×115×115 | 1,550 | 4 960910 768666 | | |
| 76676 | 1.5 m with Handle | 931×185×185 | 5,100 | 4 960910 766761 | | |
| 76952 | 3 m with Handle | 1,280×180×180 | 6,670 | 4 960910 769526 | | |
| 77304 | Short Model | 560×180×180 | 4,580 | 4 960910 773042 | | |
| 76690 | Flat Head | 1,025×180×180 | 3,695 | 4 960910 766907 | | |
| 76654 | Spherical Head | 1,040×180×180 | 3,815 | 4 960910 766549 | | |

## Features

■76629
- Lightweight, with handle making it convenient for portability
- Comes with special case

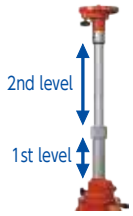
■76827
- Can irradiate the ground marking point of a laser line generator
- Enables low-level marking
- With vial
- With storage case

■76866
- Features a strong design with nearly 1 mm-thick aluminum part, and a handle made of alloy, so it is resistant to breaking from impacts due to drops or falls

*Cannot irradiate the ground marking point

- With hard tip that can be extended by turning the rubber cover
- With vial
- With storage case

■76952
- 2 level elevating model for a height of up to 3 m




■77304
- Easy fine-adjustment with 77304 Short Model Adjust up to 30 mm diameter
- Ground marking point can be exposed

## Use

- Find the level in a variety of work sites

## Specifications

| | 76629 | 76827 | 76866 | 76676 |
|---|---|---|---|---|
| Material | Body: Aluminum, ABS resin | | | Body: Aluminum, iron |
| Elevator Ascent and Descent Width | 300 mm | 60 mm | 320 mm | 350 mm |
| Range of Use in Height | 630 - 1,710 mm | 180 - 400 mm | 530 - 1,600 mm | 710 - 1,500 mm |
| Ground Marking Point Exposure | × | ○ | × | × |
| Installation Screw | 5/8 inch | | | |

| | 76952 | 77304 | 76690 | 76654 |
|---|---|---|---|---|
| Material | Body: Aluminum, iron | | | |
| Elevator Ascent and Descent Width | 1,160 mm | 285 mm | — | |
| Range of Use in Height | 1,060 - 3,000 mm | 535 - 920 mm | 930 - 1,560 mm | |
| Ground Marking Point Exposure | × | ○ | × | × |
| Installation Screw | 5/8 inch | | | |

*Laser depicted is an illustration.

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# 12. Inklines/ Chalklines/ Plumbholders

## Handy Ink Line Marker Pro/Jr. Plus Tough Line

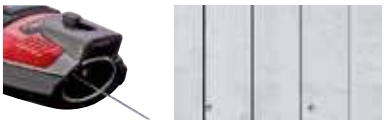
73287

73289

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73287 | Pro Plus Auto-rewind Tough Line Metal Red | 200×81×40 | 194 | 4 960910 732872 | 6 (36) | SP |
| 73289 | Jr. Plus Auto-rewind Tough Line Metal Red | 175×70×38 | 156 | 4 960910 732896 | | |

### Features

- Tough thread used in fishing net that is resistant to chafing and hard to break
- Thread's water retention ability is high (1.2 times conventional thread), enabling continuous marking of lines without having to re-ink



- New lock function enables smooth opening of tank lid, and without replacement of thread
- One-touch line guide helps to easily mark up to a corner
- Angled mouth helps to fix thread easily as it reduces strain on the hand when pressing down on it
- "Marking button" that creates a thick, bold line
- Sealed ink tank with rubber gasket prevents leaking
- Compact size, can be carried in a nail pouch
- Can be stowed in special holder sold separately

### Use

- For all types of marking

### Specifications

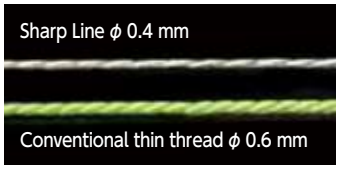
| | 73287 | 73289 |
|---|---|---|
| Material | Body: ABS resin, polyacetal resin, silicon rubber, rubber, stainless steel<br>Anchor Pin: ABS resin, rubber<br>Pin: Spring steel<br>Line: Nylon<br>Sponge: Cellulose | |
| Thread | ϕ0.7 mm × 15 m | ϕ0.7 mm × 10 m |
| Ink Capacity | Approx. 15 ml | Approx. 10 ml |

## Handy Ink Line Marker Pro/Jr. Plus Sharp Line NEW

73297

73298

73299




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73297 | Pro Plus Auto-rewind Sharp Line Metal Blue | 200×81×40 | 192 | 4 960910 732971 | 6 (36) | SP |
| 73298 | Jr. Plus Auto-rewind Sharp Line Metal Blue | 175×70×38 | 154 | 4 960910 732988 | | |
| 73299 | Jr. Plus Hand-rewind Sharp Line Metal Blue | 162×70×39 | 107 | 4 960910 732995 | | |

### Features

- Enables marking of thin lines thanks to ϕ 0.4 mm ultra-fine thread
- Thread has sufficient durability for marking despite thin size

- New lock function enables smooth opening of tank lid, and without replacement of thread
- One-touch line guide helps to easily mark up to a corner
- Angled mouth helps to fix thread easily as it reduces strain on the hand when pressing down on it

- "Marking button" that creates a thick, bold line
- Sealed ink tank with rubber gasket prevents leaking
- Compact size, can be carried in a nail pouch
- Folding handle that does not get in the way (73299)
- Can be stowed in special holder sold separately

### Use

- For all types of marking

### Specifications

| | 73297 | 73298 | 73299 |
|---|---|---|---|
| Material | Body: ABS resin, polyacetal resin, silicon rubber, rubber, stainless steel<br>Anchor Pin: ABS resin, rubber<br>Pin: Spring steel<br>Line: Nylon<br>Sponge: Cellulose | | |
| Thread | ϕ0.4 mm × 20 m | ϕ0.4 mm × 15 m | ϕ0.4 mm × 30 m |
| Ink Capacity | Approx. 15 ml | Approx. 10 ml | |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge | Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

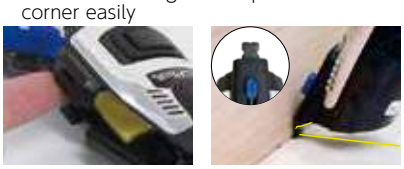
## Handy Ink Line Marker Pro Plus

AUTO rewind 10 m / Thin Thread 20 m

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73280 | Auto-rewind Black | 200×81×40 | 190 | 4 960910 732803 | 6 (36) | SP |
| 73281 | Auto-rewind Royal Blue | 200×81×40 | 190 | 4 960910 732810 | | |
| 73290 | Auto-rewind Black with Holder | – | – | 4 960910 732902 | 4 (24) | |
| 73291 | Auto-rewind Royal Blue with Holder | – | – | 4 960910 732919 | | |

### Features

- New lock function enables smooth opening of tank lid and easy replacement of thread
- One-touch line guide helps to mark to a corner easily



- Angled mouth helps to fix thread easily
- Bold line at the push of a button even when ink level is low
- Sealed ink tank with rubber gasket prevents leaking
- Can be stowed in Holder (73286) sold separately

### Use

- For all types of marking

### Specifications

| | |
|---|---|
| Material | Body: ABS resin, polyacetal resin, silicon rubber, rubber, stainless steel<br>Anchor Pin: ABS resin, rubber<br>Pin: Spring steel<br>Line: Nylon<br>Sponge: Cellulose<br>Holder: ABS resin |
| Thread | ϕ0.6 mm × 20 m |
| Ink Capacity | Approx. 15 ml |

## Handy Ink Line Marker Jr. Plus

AUTO rewind 8 m / Thin Thread 15 m

HAND rewind / Thin Thread 30 m

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73282 | Auto-rewind Black | 175×70×38 | 155 | 4 960910 732827 | 6 (36) | SP |
| 73283 | Auto-rewind Coral Red | 175×70×38 | 155 | 4 960910 732834 | | |
| 73292 | Auto-rewind Black with Holder | – | – | 4 960910 732926 | 4 (24) | |
| 73293 | Auto-rewind Coral Red with Holder | – | – | 4 960910 732933 | | |
| 73284 | Hand-rewind Black | 160×70×38 | 110 | 4 960910 732841 | 6 (36) | |
| 73285 | Hand-rewind Turquoise Blue | 160×70×38 | 110 | 4 960910 732858 | | |

### Features

- New lock function enables smooth opening of tank lid and easy replacement of thread
- One-touch line guide helps to mark to a corner easily

- Angled mouth helps to fix thread easily
- Bold line at the push of a button even when ink level is low
- Compact size, can be carried in a nail pouch
- Sealed ink tank with rubber gasket prevents leaking
- Folding handle (73284/73285)

- Can be stowed in Holder (73286) sold separately

### Use

- For all types of marking

### Specifications

| | 73282 | 73283 | 73292 | 73293 |
|---|---|---|---|---|
| Material | Body: ABS resin, polyacetal resin, silicon rubber, rubber, stainless steel<br>Anchor Pin: ABS resin, rubber<br>Pin: Spring steel<br>Line: Nylon<br>Sponge: Cellulose<br>Holder: ABS resin | | | |
| Thread | ϕ0.6 mm × 15 m | | | |
| Ink Capacity | Approx. 10 ml | | | |

| | 73284 | 73285 |
|---|---|---|
| Material | Body: ABS resin, polyacetal resin, silicon rubber, rubber, stainless steel<br>Anchor Pin: ABS resin, rubber<br>Pin: Spring steel<br>Line: Nylon<br>Sponge: Cellulose | |
| Thread | ϕ0.6 mm × 30 m | |
| Ink Capacity | Approx. 10 ml | |

## Holder

Pro Plus
Jr.Plus
Compatible

73286

Handy Ink Line Marker
Pro Plus shown here

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73286 | Holder for Handy Ink Line Marker Pro/Jr. Plus | 222×66×63 | 65 | 4 960910 732865 | 6 | SP |

### Features

- Prevents dropping and misplacement; convenient for carrying at work site
- Able to store Pro Plus or Jr. Plus (including Tough Line/Sharp Line) without any spacers by just sliding
- No need to take off belt to attach the holder
- Ink pan prevents contamination of your clothing from leaked ink

### Specifications

- For carrying Ink Line Marker

### Specifications

| | |
|---|---|
| Material | Body: ABS resin |
| Compatible models | Handy Ink Line Marker Pro·Jr. Plus, Tough Line<br>Handy Ink Line Marker Pro·Jr. Plus Sharp Line<br>Handy Ink Line Marker Pro·Jr. Plus |
| Attachable Belt Size | Width within 50 mm, thickness between 2.5 - 5 mm |

## Handy Ink Line Marker Pro/Jr. LITE

AUTO rewind 10 m Thin Thread 20 m

73300

73301

AUTO rewind 7.5 m Thin Thread 15 m

73302

73303

HAND rewind Thin Thread 30 m

73307

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73300 | Pro LITE Auto-rewind Blue | 180×82×40 | 197 | 4 960910 733008 | 6 (36) | C |
| 73301 | Pro LITE Auto-rewind Red | 180×82×40 | 197 | 4 960910 733015 | | |
| 73302 | Jr. LITE Auto-rewind Green | 153×71×38 | 155 | 4 960910 733022 | | |
| 73303 | Jr. LITE Auto-rewind Orange | 153×71×38 | 155 | 4 960910 733039 | | |
| 73307 | Jr. LITE Hand-rewind Mint Green | 153×71×39.5 | 110 | 4 960910 733077 | | |

### Features

- Easy-to-use simple design
- Wide opening for easy thread replacement
- Sealed ink tank with rubber gasket prevents leaking

- Each series has been developed with pop colors
- Anchor Pin with rubber gasket prevents ink leaking
- Easy-to-ink thread

- Folding handle (73307)

### Use

- For all types of marking

### Specifications

| | 73300 | 73301 | 73302 | 73303 | 73307 |
|---|---|---|---|---|---|
| Material | Body: ABS resin, polyacetal resin, silicon rubber, rubber, stainless steel<br>Anchor Pin: ABS resin, rubber<br>Pin: Spring steel<br>Line: Nylon<br>Sponge: Cellulose | | | | |
| Thread | ϕ0.6 mm × 20 m | ϕ0.6 mm × 15 m | | | ϕ0.6 mm × 30 m |
| Ink Capacity | Approx. 15 ml | Approx. 10 ml | | | |

## Motorized Handy Ink Line Marker

ELECTRIC rewind Thin Thread 15 m

77480

Internal Structure

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77480 | Motorized Black | 150×70×40 | 190 (batteries Included) | 4 960910 774803 | 6 (36) | SP |

### Features

- Motor turns drum to rewind thread

### Use

- For all types of marking

### Specifications

| | |
|---|---|
| Material | Body: ABS resin, polyacetal resin, silicon rubber, rubber, stainless steel<br>Anchor Pin: ABS resin<br>Pin: Spring steel<br>Line: Nylon<br>Sponge: Cellulose |
| Thread | ϕ0.6 mm × 15 m |
| Power Source | 2x AAA Alkaline batteries |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Handy Ink Line Marker Self-stop

AUTO rewind 5 m / Thin Thread 10 m

77450

●Compact size

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77450 | Auto-rewind Black | 130×60×33.5 | 120 | 4 960910 774506 | 6 | Ⓢ |

### Features

●Trigger starts retraction of thread.
Will not retract unless the trigger is pulled. Even if anchor line comes off accidentally, it is safe and will not fly back.

### Use

●For all types of marking

### Specifications

| | |
|---|---|
| Material | Body: ABS resin, polyacetal resin, elastomer resin, rubber, silicon rubber<br>Spring: Stainless steel<br>Anchor Pin: ABS resin Pin: Spring steel<br>Line: Nylon Sponge: Cellulose |
| Thread | ϕ0.6 mm × 10 m |

## Handy Ink Line Marker SUMIWAZA

AUTO rewind 10 m / Thin Thread 18 m

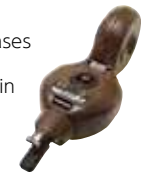
77845

●With large sealed ink tank that is easy to fill

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77845 | Auto-rewind Brown | 226×85×86 | 280 | 4 960910 778450 | 4 | Ⓢ |

### Features

●"Marking button" that releases more ink
●Thread hold guide clicks in every 90°
●80 ml capacity ink tank
●Threader is set on the back



### Use

●For all types of marking

### Specifications

| | |
|---|---|
| Material | Body: ABS resin, polyacetal resin<br>Spring: Stainless steel<br>Anchor Pin: ABS resin<br>Pin: Spring steel<br>Lne: Nylon<br>Cotton: Chemical fiber<br>Threader: Polyacetal resin |
| Thread | ϕ0.6 mm × 18 m |

## Ink/Disappearing Ink

77475 77476 77477 77478 77587 77588 77589

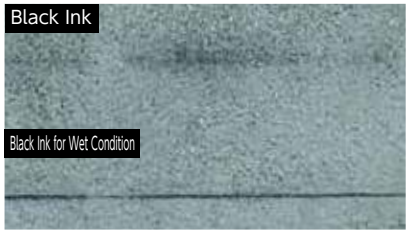
77837 77838 77839 77649

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77475 | Black 200 ml | 150×70×35 | 265 | 4 960910 774759 | 6 (36) | Ⓢ |
| 77476 | Red 200 ml | 150×70×35 | 255 | 4 960910 774766 | | |
| 77477 | White 200 ml | 150×70×35 | 320 | 4 960910 774773 | | |
| 77478 | Blue 200 ml | 150×70×35 | 260 | 4 960910 774780 | | |
| 77587 | Black 200 ml for Wet Condition | 150×70×35 | 285 | 4 960910 775879 | | |
| 77588 | Red 200 ml for Wet Condition | 150×70×35 | 270 | 4 960910 775886 | | |
| 77589 | Black 500 ml | 200×80×50 | 610 | 4 960910 775893 | 6 (12) | |
| 77837 | Black 15 ml 2 pc-pack | 56.5×27×18.5 | 19×2 | 4 960910 778375 | 20 | Ⓑ |
| 77838 | Red 15 ml 2 pc-pack | 56.5×27×18.5 | 19×2 | 4 960910 778382 | | |
| 77839 | White 15 ml 2 pc-pack | 56.5×27×18.5 | 19×2 | 4 960910 778399 | | |
| 77649 | Disappearing Ink 50 ml | 97×35×35 | 70 | 4 960910 776494 | 12 | Ⓒ |

### Features

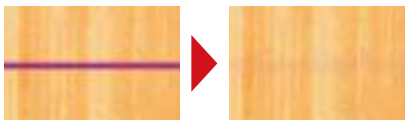
●Ideal for building and construction work

■Wet Condition Black and Red Ink
●Will not run on wet conditions




■15 ml bottle
●Fully usable size

■Disappearing Ink
●Ink disappears immediately after surface is wiped with a wet cloth and dries
●Ink lines disappear naturally in about 2 weeks



*Do not use when the ink must completely disappear

### Use

●For marking lines on plaster board, wooden material, concrete, etc.

### Specifications

| | 77649 |
|---|---|
| Material | Water, glycerin, phenolphthalein, etc. |



JIS JIS mark Red With red numbers cm/shaku cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

## Handy Chalk Line Neo

77493 77494 77963 77964

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77493 | Auto-rewind Thick Thread Yellow | 180×76×45.5 | 185 | 4 960910 774933 | 6 (36) | SP |
| 77494 | Hand-rewind Thick Thread Blue | 160×76×45.5 | 120 | 4 960910 774940 | | |
| 77963 | Auto-rewind Thin Thread Orange | 180×76×45.5 | 185 | 4 960910 779631 | | |
| 77964 | Hand-rewind Thin Thread Purple | 160×76×45.5 | 120 | 4 960910 779648 | | |

### Features

- Clear body allows you to check for remaining powder and lumps
- Sealed tank prevents powder leaking and humidity entering
- Special yarn holds more chalk powder
- Safety Anchor Pin II for both thick and thin lines (77493/77963)
- Wide opening for easier thread replacement

Thick Thread: Thread diameter 1mm for steel frame, construction, sheet metal work
Thin Thread: Thread diameter 0.5 mm for building and interior work

### Use

- For marking lines with chalk

### Specifications

| | 77493 | 77494 | 77963 | 77964 |
|---|---|---|---|---|
| Material | Body: ABS resin, polyacetal resin, silicon rubber<br>Anchor Pin: ABS resin<br>Pin: Spring steel<br>Thread: Nylon<br>Spring (Auto-rewind): Stainless steel<br>Metal Hook, Thread Mouth Ring: Stainless steel<br>Felt: Chemical fiber | | | |
| Thread | ϕ1.0 mm × 10 m | | ϕ0.5 mm × 15 m | |

## Handy Chalk Line

77560 77927

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77560 | 5x Speed Hand-rewind | 165×88×58 | 162 | 4 960910 775602 | 6 | SP |
| 77927 | Hand-rewind Red | 185×90×40 | 138 | 4 960910 779273 | | |

### Features

- 5x Speed Hand-rewind
- 5 times faster rewinding with geared reel
- Clear body allows you to check for remaining powder and lumps
- Wide opening tank mouth enables to pour chalk powder directly from bottle
- The handle lock allows better handling and thread is retracted just by pushing back the handle
- Special yarn holds 3 times more chalk powder

- Hand-rewind Red
- Clear body allows you to check for remaining powder and lumps
- Sealed tank prevents powder leaking and humidity entering

### Use

- For marking lines with chalk

### Specifications

| | 77560 | 77927 |
|---|---|---|
| Material | Body: ABS resin, polycarbonate resin<br>Anchor: ABS resin<br>Anchor Needle: Spring steel<br>Thread: Polyester<br>Thread Mouth: Stainless steel<br>Threader: Brass, iron<br>Metal Hook: Stainless steel<br>Felt: Chemical fiber | Body: ABS resin, polyacetal resin<br>Thread Mouth Ring: Stainless steel<br>Anchor: ABS resin<br>Anchor Needle: Spring steel<br>Thread: Nylon<br>Threader: Polyacetal resin |
| Thread | ϕ1.0 mm × 20 m | ϕ0.5 mm × 20 m |

## Chalk Line BIG

77580

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77580 | Hand-rewind Blue | 440×140×95 | 830 | 4 960910 775800 | 3 | SP |

### Features

- Improved work efficiency when marking lines, since the tank can slide along the thread and apply powder without requiring the thread to be wound up
- Soft tank can be kneaded to break up powder blocks inside and make continuous application of powder to the line possible

- Attached line guide allows thread to pass through even if powder is in the tank. Thread replacement is simple since the drum can be separated from the device without using a tool

- Wear-resistant and hard-to-cut coarse thread

### Use

- Suitable in line drawing for roads, parking lots, etc.

### Specifications

| | |
|---|---|
| Material | Body: Polycarbonate resin, ABS resin, brass, stainless steel<br>Tank: Elastomer resin, polypropylene resin, ABS resin, brass<br>Thread: Polyester<br>Threader: Stainless steel, brass, steel<br>Felt: Wool (natural fiber) |
| Thread | ϕ3 mm × 50 m |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

## Chalk Powder

77938

77935

77936

77937

78029

78030

77954

77968

77976

78096

77962

77965

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77938 | 300 g White | φ66×178 | 355 | 4 960910 779389 | 6 (36) | |
| 77935 | 300 g Yellow | φ66×178 | 355 | 4 960910 779358 | | |
| 77936 | 300 g Red | φ66×178 | 355 | 4 960910 779365 | | |
| 77937 | 300 g Blue | φ66×178 | 355 | 4 960910 779372 | | |
| 78029 | 300 g Pink | φ66×178 | 355 | 4 960910 780293 | | |
| 78030 | 300 g Green | φ66×178 | 355 | 4 960910 780309 | | |
| 77954 | 200 g White for Outdoor | φ66×178 | 255 | 4 960910 779549 | | |
| 77968 | 500 g White for Outdoor | φ90×223 | 565 | 4 960910 779686 | 6 | |
| 77976 | 1 kg White for Outdoor | 254×124×95 | 1,100 | 4 960910 779761 | 1 | |
| 78096 | 150 g Blue for Outdoor | φ66×178 | 205 | 4 960910 780965 | 6 (36) | |
| 77962 | 375 g Blue for Outdoor | φ90×223 | 440 | 4 960910 779624 | 6 | |
| 77965 | 750 g Blue for Outdoor | 254×124×95 | 850 | 4 960910 779655 | 1 | |

### Features

- Ultra fine powder helps to draw vivid lines
- Angled inlet makes it easy to pour
- Outdoor models are suitable on wet surface

### Use

- For marking lines with chalk
  *Do not use if the line needs to be erased completely

### Specifications

| | 77938 |
|---|---|
| Material | Calcium carbonate |

| | 77935 | 77937 | 78029 | 78030 |
|---|---|---|---|---|
| Material | Calcium carbonate, pigment | | | |

| | 77936 |
|---|---|
| Material | Calcium carbonate, dye |

| | 77954 | 77968 | 77976 |
|---|---|---|---|
| Material | Calcium carbonate, titanium oxide | | |

| | 78096 | 77962 | 77965 |
|---|---|---|---|
| Material | Calcium carbonate, titanium oxide, pigment | | |

## Thread Reel

77446

77456

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77446 | Ⅱ Auto-rewind Red | 110×69×31 | 90 | 4 960910 774469 | 6 | SP |
| 77456 | Ⅱ Hand-rewind Green | 110×69×31 | 65 | 4 960910 774568 | | |

### Features

- Thin, lightweight size that fits in the palm of the hand
- Needle and thread replacements are simple since no tools are needed to take apart
- Main body's fixed needles can be stored safely with the needle cover

- Needle cover can be smoothly pushed down with one hand during use
- Since the needle interval is wide, the device is stable when needles are pinned

### Use

- For leveling of lintel, finding length of rafter edge, and adjusting height of joist

### Specifications

| | 77446 | 77456 |
|---|---|---|
| Material | Body: ABS resin, polyacetal resin, stainless steel<br>Spring: Stainless steel (Auto-rewind)<br>Anchor: ABS resin, spring steel, rubber<br>Needle: ABS resin, spring steel<br>Thread: Nylon | |
| Thread | φ0.6 mm × 15 m (Auto-rewind 8 m) | φ0.6 mm × 30 m |

## Replacement Anchor Pin

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77453 | Anchor Pin<br>2 pc-pack for Thread Reel II | 37×5×9 | 1 | 4 960910 774537 | 15 | SP |

JIS JIS mark · Red With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Replacement Anchor Pin/Hook

Iron: Strong adsorption with neodymium magnet

Wood: Fix with a nail

Concrete: A nail can be applied to the mounting hole

Can be hung by driving in a concrete nail

**77843**
- Needle can retract even if anchor pin unexpectedly detaches
- Can use both thick and thin thread
- Easy-to-hold and easily removable shape

**77433**
- Elastomer resin absorbs shock to the hand
- Can use commercially available concrete nails (concrete nail #12 × 50 mm)
- Includes 2 replacement nails

**77849**

**77486**

**77862**

**77880**

**77452**

**77932**

◎: Standard equipment ○: Compatible △: Compatible (Incompatible with holder use) —: Incompatible

| Item Code | C.D. | Description | Pro Plus Tough Line | Jr. Plus Tough Line | Pro Plus Auto-rewind | Jr. Plus Auto-rewind | Jr. Plus Hand-rewind | Pro LITE Auto-rewind | Jr. LITE Auto-rewind | Jr. LITE Hand-rewind | Mini α Auto-rewind | Motorized | Self Stop Auto-rewind | SUMIWAZA Auto-rewind | Chalk 5x Speed | Neo Auto Orange | Neo Hand Purple | Neo Auto Yellow | Neo Hand Blue | Chalk Hand-rewind | Thread Reel | Thread Reel Ⅱ | Chalk BIG | Packing Unit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77843 | 6 | Safety Anchor Pin with Magnet | △ | △ | △ | △ | △ | △ | △ | △ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | — | — | |
| 77433 | 9 | Anchor Pin for Concrete | △ | △ | △ | △ | △ | △ | △ | △ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | — | — | |
| 77849 | 8 | Safety Anchor Pin | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | — | — | |
| 77486 | 5 | Safety Anchor Pin Ⅱ | ◎ | ◎ | ◎ | ◎ | ○ | ◎ | ◎ | ○ | ○ | ○ | ○ | ◎ | ◎ | ○ | ◎ | ○ | ◎ | ○ | ○ | — | — | 10 |
| 77862 | 7 | Anchor Pin Red 3 pc-pack | △ | △ | △ | △ | △ | △ | △ | △ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | — | — | |
| 77880 | 1 | Anchor Pin Mini Red 3 pc-pack | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ◎ | ○ | ◎ | ◎ | ○ | — | |
| 77452 | 0 | Anchor Pin Mini Black 3 pc-pack | ○ | ○ | ○ | ○ | ◎ | ○ | ○ | ◎ | ◎ | ◎ | ◎ | ○ | ○ | ◎ | ○ | ○ | ○ | ○ | ○ | ◎ | — | |
| 77932 | 7 | Hook 3 pc-pack for Chalk Line | — | — | — | — | — | — | — | — | — | — | — | — | — | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | — | — | 1 |

## Replacement Cotton/Sponge/Felt

◎: Standard equipment ○: Compatible △: Compatible (Incompatible with holder use) —: Incompatible

| Item Code | C.D. | Description | Pro Plus Tough Line | Jr. Plus Tough Line | Pro Plus Auto-rewind | Jr. Plus Auto-rewind | Jr. Plus Hand-rewind | Pro LITE Auto-rewind | Jr. LITE Auto-rewind | Jr. LITE Hand-rewind | Mini α Auto-rewind | Motorized | Self Stop Auto-rewind | SUMIWAZA Auto-rewind | Chalk 5x Speed | Neo Auto Orange | Neo Hand Purple | Neo Auto Yellow | Neo Hand Blue | Chalk Hand-rewind | Thread Reel | Thread Reel Ⅱ | Chalk BIG | Packing Unit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77848 | 1 | Cotton 3 pc-pack for Ink Line Marker | ○ | — | ○ | — | — | ○ | — | — | ○ | — | — | — | — | — | — | — | — | — | — | — | — | |
| 77484 | 1 | Sponge 3 pc-pack for Ink Line Marker Pro | ○ | — | ○ | — | — | ◎ | — | — | ○ | — | — | — | — | — | — | — | — | — | — | — | — | |
| 77485 | 8 | Sponge 3 pc-pack for Motorized Ink Line Marker and Jr. | — | ○ | — | ○ | ○ | — | ◎ | ◎ | — | ○ | ◎ | — | — | — | — | — | — | — | — | — | — | |
| 77451 | 3 | Sponge 2 pc-pack for Ink Line Marker Self-stop | — | — | — | — | — | — | — | — | — | — | — | ◎ | — | — | — | — | — | — | — | — | — | 10 |
| 77381 | 3 | Sponge 3 pc-pack for Ink Line Marker Jr. | — | ○ | — | ○ | ○ | — | ○ | ○ | — | ○ | — | — | — | — | — | — | — | — | — | — | — | |
| 77846 | 7 | Sponge 3 pc-pack for Ink Line Marker SUMIWAZA | — | — | — | — | — | — | — | — | — | — | — | — | ◎ | — | — | — | — | — | — | — | — | |
| 77578 | 7 | Felt 4 pc-pack for Chalk Line BIG | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | ◎ | |

## Replacement Thread

◎: Standard equipment ○: Compatible △: Compatible (Incompatible with holder use) —: Incompatible

| Item Code | C.D. | Description | Thickness of Thread (mm) | Pro Plus Tough Line | Jr. Plus Tough Line | Pro Plus Auto-rewind | Jr. Plus Auto-rewind | Jr. Plus Hand-rewind | Pro LITE Auto-rewind | Jr. LITE Auto-rewind | Jr. LITE Hand-rewind | Mini α Auto-rewind | Motorized | Self Stop Auto-rewind | SUMIWAZA Auto-rewind | Chalk 5x Speed | Neo Auto Orange | Neo Hand Purple | Neo Auto Yellow | Neo Hand Blue | Chalk Hand-rewind | Thread Reel | Thread Reel Ⅱ | Chalk BIG | Packing Unit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77594 | 7 | Thread ϕ0.8 mm x 15 m for Ink Line Marker | ϕ0.8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | — | — | — | — | — | — | ○ | — | |
| 77864 | 1 | Thread ϕ0.6 mm x 20 m for Ink Line Marker | ϕ0.6 | ○ | ○ | ○ | ○ | ○ | ◎ | ◎* | ◎* | ◎ | ◎* | ◎* | ◎* | ◎* | — | — | — | — | — | — | ◎* | — | |
| 77879 | 5 | Thread ϕ0.7 mm x 15 m for Ink Line Marker Tough Line | ϕ0.7 | ◎ | ◎ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | — | — | — | — | — | — | ○ | — | |
| 77882 | 5 | Thread ϕ0.4 mm x 20 m for Ink Line Marker Sharp Line NEW | ϕ0.4 | ○ | ○ | ◎ | ◎* | ◎* | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | — | — | — | — | — | — | ○ | — | 10 |
| 77562 | 6 | Thread 3x Chalk Retentive ϕ1.0 mm x 20 m for Chalk Line Marker | ϕ1.0 | — | — | — | — | — | — | — | — | — | — | — | — | — | ◎ | ○ | ○ | ○ | ○ | ○ | — | — | |
| 77495 | 7 | Thread ϕ1.0 mm x 20 m for Chalk Line Marker | ϕ1.0 | — | — | — | — | — | — | — | — | — | — | — | — | — | ○ | ○ | ○ | ◎* | ◎* | ○ | — | — | |
| 77929 | 7 | Thread ϕ0.5 mm x 20 m for Chalk Line Marker | ϕ0.5 | — | — | — | — | — | — | — | — | — | — | — | — | — | ○ | ◎* | ◎ | ○ | ○ | ◎ | — | — | |
| 77577 | 0 | Thread Super Thick 50 m for Chalk Line BIG | ϕ3.0 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | ◎ | 3 |

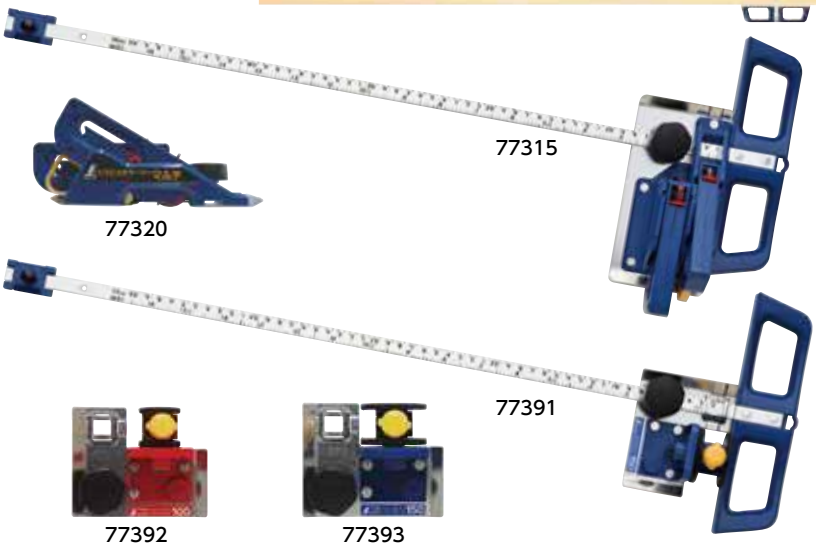
JAN Code No.=[4960910+Item Code+CD]

*Differs from standard equipment's thread length

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge | Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Screw Pitch Marking Tool

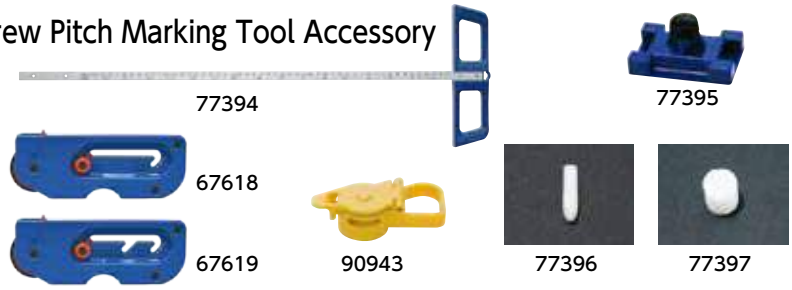
■Screw Pitch Marking Tool Multi
Available pitches




| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 77315 | Multi 5-pitch Switch | 4 960910 773158 | 4 | SP |
| 77320 | Main Block for Screw Pitch Marking Tool Multi | 4 960910 773202 | | |
| 77390 | Screw Pitch Marking Tool 100 | 4 960910 773905 | 6 | |
| 77391 | Screw Pitch Marking Tool 150 | 4 960910 773912 | | |
| 77392 | Main Block 100 for Screw Pitch Marking Tool | 4 960910 773929 | | |
| 77393 | Main Block 150 for Screw Pitch Marking Tool | 4 960910 773936 | | |

Refer to P. 2 about the shaku scale

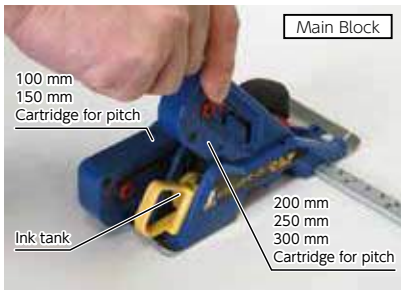
# Screw Pitch Marking Tool Accessory




| Item Code | Description | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|
| 77394 | Guide Rule for Screw Pitch Marking Tool/Multi | 4 960910 773943 | 6 | C |
| 77395 | Stopper for Guide Rule for Screw Pitch Marking Tool/Multi | 4 960910 773950 | 10 | B |
| 67618 | Cartridge 100/150 for Screw Pitch Marking Tool Multi | 4 960910 676183 | 1 | |
| 67619 | Cartridge 200/250/300 for Screw Pitch Marking Tool Multi | 4 960910 676190 | | |
| 90943 | Ink Tank for Screw Pitch Marking Tool Multi | 4 960910 909434 | | |
| 77323 | Replacement Belt 100/150 for Screw Pitch Marking Tool Multi | 4 960910 773233 | 10 | |
| 77324 | Replacement Belt 200/250/300 for Screw Pitch Marking Tool Multi | 4 960910 773240 | | |
| 77326 | Replacement Cotton 2 pc-pack for Screw Pitch Marking Tool Multi | 4 960910 773264 | | |
| 77396 | Replacement Lead 10 pc-pack for Screw Pitch Marking Tool | 4 960910 773967 | | |
| 77397 | Replacement Cotton 4 pc-pack for Screw Pitch Marking Tool | 4 960910 773974 | | |

## Features

■Screw Pitch Marking Tool Multi
●One unit can mark five different pitches
*In recent years, pitches for screws have been strictly controlled in building for some house builders. The pitch can vary depending on building structure. This tool can cover most cases.

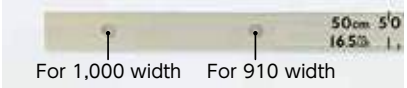



●Easy-to-replace cartridge

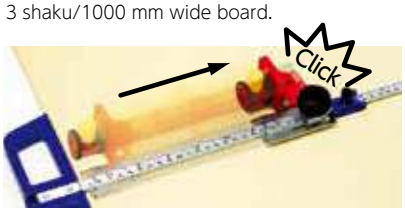
●Easy-to-refill ink tank

■Screw Pitch Marking Tool 100 & 150
●Makes mark at equal intervals by spinning

■Screw Pitch Marking Tool Multi 100/150
●Using this tool with Stopper (77395) and Guide Rule (77394), pitches can be marked on the center of board.




Fix the stopper in one of the holes depending on the width of board, then slide the main block to the stopper. The marking position is 455 or 500 mm, and can mark the center of a 3 shaku/1000 mm wide board.




## Use

●For marking screw pitch on boards such as plywood, plaster board, etc.

## Specifications

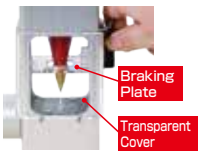
| | 77315 | 77390 | 77391 |
|---|---|---|---|
| Material | ABS resin, polyacetal resin, elastomer resin, stainless steel, aluminum, silicone rubber (multi) | | |
| Size | Main Block 159 × 79 × 80 mm | Main Block 100 × 80 × 43 mm | Main Block 100 × 80 × 56 mm |
| | Guide Rule: 200 × 663 × 15mm | | |
| Weight | Main Block 300 g | Main Block 170 g | Main Block 190 g |
| | Guide Rule: 110 g | | |
| Accuracy | 77315: 100 mm Pitch: 95 - 100 mm<br>150 mm Pitch: 145 - 150 mm<br>200 mm Pitch: 195 - 200 mm<br>250 mm Pitch: 245 - 250 mm<br>300 mm Pitch: 295 - 300 mm | | |
| | 77390: 95 ±5 mm | | |
| | 77391: 145 ±5 mm | | |

# Wind-resistant Plumb/Holder/Dial Plumb

77554 77524

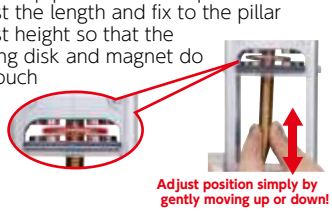
■Wind-resistant Plumb Basic

●Transparent cover completely blocks out wind
●Quickly stabilize the plumb by raising the braking plate and constricting width of the swing area




■Wind-resistant Plumb Ⅱ

●Built-in magnetic damper quickly breaks swing of the plumb
●With large window to check and see condition of plumb
●Easy 3-step process for setup
1) Adjust the length and fix to the pillar
2) Adjust height so that the braking disk and magnet do not touch




3) Adjust pillar so that the plumb tip is aligned to the center of the indicator plate

77599

77549

## Wind-resistant Plumb

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77554 | Basic | 61×134×1,515~3,333 | 3,060 | 4 960910 775541 | 1 | B |
| 77524 | Ⅱ with Magnetic Damper | 64×112×1,515~3,333 | 3,120 | 4 960910 775244 | | |

## Holder

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77599 | for Wind-resistant Plumb with Quick Arm | 336×110×122 | 370 | 4 960910 775992 | 1 | B |

*For Wind-resistant Plumb

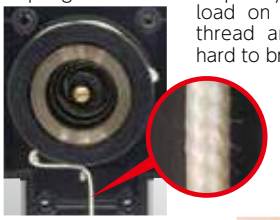
## Dial Plumb

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77548 | 110 cm | 63×39×1,100 | 1,500 | 4 960910 775480 | 1 | B |
| 77549 | 175 cm | 63×39×1,750 | 2,050 | 4 960910 775497 | | |
| 77550 | 200 cm | 63×39×2,000 | 2,300 | 4 960910 775503 | | |
| 77575 | 240 cm | 63×39×2,400 | 3,150 | 4 960910 775756 | | |

■Wind resistanc Plumb

**Features**

●Spring-loaded reel completely reduces the load on special dual thread and makes it hard to break



●Use when temporary braces are on the supports is also possible since the ends are long (about 40 mm)

●Rubber strap to secure plumb to an object
●Includes a useful carry case

**Use**

●For verifying perpendicularity of pillars

**Specifications**

| | 77554 | 77524 |
|---|---|---|
| Accuracy* | ±1 mm | |
| Material | Rod: Aluminum Drum Cover : ABS resin<br>Plumb: Brass, phosphor bronze, bronze (iron for 77554)<br>End: Aluminum | |

*Accuracy determines the difference between the distance from the upper part end portion to the line in the accuracy confirmation window's position and the distance from the lower part end portion to the center of the indicator plate.

■Holder

**Features**

●Fixing to the pillar is easy and hassle-free

●Attaching and detaching to wind-resistant plumb can be done without tools using the fixing screw

**Use**

●Fixing the wind-resistant plumb to a pillar

**Specifications**

| | |
|---|---|
| Products | Wind-resistant Plumb Basic (77554)<br>Wind-resistant Plumb Ⅱ with Magnetic Damper (77524) |
| Compatible Pillar Size | 3.5 - 5.5 sun |
| Material | Stainless steel, aluminum, vinyl chloride resin |

■Dial Plumb

**Features**

●Dial model allows one to see fine graduations in slope. No influence of wind.

●Slide arm (end part) is attached, allowing use even when temporary braces, etc. are on the support
●240 cm when using an extension (77575)
●Includes a useful carry case

**Use**

●For checking listing of formwork and sash frames
●For setting up of house framework and checking listing supports

**Specifications**

| | 77548 | 77549 | 77550 | 77575 |
|---|---|---|---|---|
| Accuracy* | Less than 0.5 mm/1 m | | | |
| Lean Tolerance to the Front-back Direction* | ±20 mm | ±40 mm | | |
| Material | Main Rod, Sliding Arm, Scale Plate, Indicator Fixing Lever: Aluminum<br>Unit Cover: ABS resin<br>Indicator: Steel | | | |

*Lean tolerance to the front-back direction is the maximum lean in the front-back direction in regards to the entire length of the main scale that can guarantee the accuracy during measurement.

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge | Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

## Handy Plumb Holder

77375

77377

77501

77376

77502

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77375 | Pro Auto-rewind Red | 125×100×35 | 225 | 4 960910 773752 | 5 | SP |
| 77376 | Pro Auto-rewind Red with Plumb Bob 400 g | – | – | 4 960910 773769 | | |
| 77377 | Pro Hand-rewind Blue | 125×100×45 | 185 | 4 960910 773776 | | |
| 77501 | Jr. Auto-rewind Red | 87×82×27 | 120 | 4 960910 775015 | | |
| 77502 | Jr. Auto-rewind Red with Plumb Bob 200 g | – | – | 4 960910 775022 | | |

### Features

●Can be hit with a hammer

●Pin can be changed by hand
●Spring drum is made of rust-resistant stainless steel
●Neodymium magnet sticks strongly
●Unit is covered with elastomer resin for shock-resistance

■Pro Hand-rewind Blue
●Folding handle for Pro Hand-rewind Blue

■Jr. Auto-rewind Red
●Lightweight, compact and portable

**About 40% Less**
Compared to size of Pro model

### Use

●For verifying perpendicularity of pillars, walls, and frames

### Specifications

| | 77375 | 77376 | 77377 | 77501 | 77502 |
|---|---|---|---|---|---|
| Material | Body: ABS resin, elastomer resin<br>Spring: Stainless steel<br>Pointer: Spring steel<br>Thread: Nylon<br>Magnet: Neodymium magnet | | | | |
| Thread Length | 5 m | | 10 m | 3.5 m | |
| Usable Plumb | 100 g - 850 g (1 kg with drum stopper) | | 100 g - 1 kg | 100 g - 400 g | |

## Replacement Needle/Thread

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77378 | Needle for Handy Plumb Holder Pro | 120×47×20 | 20 | 4 960910 773783 | 1 | SP |
| 77504 | Needle for Handy Plumb Holder Jr. | 81×29×20 | 8 | 4 960910 775046 | | |
| 77598 | Thread 15 m for Handy Plumb Holder | ϕ1.0×15m | – | 4 960910 775985 | 10 | C |

## Plumb Bob

77982

77979

77951

77991

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77974 | 100 g with Damper | ϕ32×96 | 100 | 4 960910 779747 | 5 | SP |
| 77981 | 150 g with Damper | ϕ32×108 | 150 | 4 960910 779815 | | |
| 77982 | 200 g with Damper | ϕ32×121 | 200 | 4 960910 779822 | | |
| 77983 | 300 g with Damper | ϕ33×148 | 300 | 4 960910 779839 | | |
| 77979 | 400 g with Damper | ϕ36×156 | 400 | 4 960910 779792 | | |
| 77975 | 600 g with Damper | ϕ42×167 | 600 | 4 960910 779754 | | |
| 77951 | 800 g with Damper | ϕ42×196 | 800 | 4 960910 779518 | | |
| 77991 | 1000 g | ϕ42×213 | 1,000 | 4 960910 779914 | | |

### Features

●Highly visible yellow colored tip
●Rubber cover to protect from scratching
●Rubber cap

Stops in 1/20 of the time of conventional products

●Full lineup offers a choice from lightweight and easy to carry, to heavy items that are not affected by wind
●Great stability against wind and durable integrated structure (77991)

### Use

●For verifying perpendicularity of pillars, walls, and frames

### Specifications

| | |
|---|---|
| Material | Tip of Body: Iron<br>Double Ring: Stainless steel<br>Cover/Protective Cap: Rubber |

## Polyester Leveling Line Reel

78483

78478

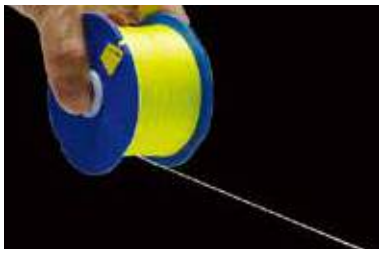
78482

78499

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78477 | 0.5 mm 500 m Yellow | φ79×48 | 120 | 4 960910 784772 | 10 | S |
| 78479 | 0.5 mm 500 m Pink | φ79×48 | 120 | 4 960910 784796 | | |
| 78481 | 0.5 mm 500 m Orange | φ79×48 | 120 | 4 960910 784819 | | |
| 78483 | 0.5 mm 500 m Green | φ79×48 | 120 | 4 960910 784833 | | |
| 78478 | 0.8 mm 270 m Yellow | φ79×48 | 126 | 4 960910 784789 | | |
| 78480 | 0.8 mm 270 m Pink | φ79×48 | 126 | 4 960910 784802 | | |
| 78482 | 0.8 mm 270 m Orange | φ79×48 | 126 | 4 960910 784826 | | |
| 78485 | 0.8 mm 270 m Green | φ79×48 | 126 | 4 960910 784857 | | |
| 78498 | 1.2 mm 120 m Yellow | φ79×48 | 127 | 4 960910 784987 | | |
| 78499 | 1.2 mm 120 m Pink | φ79×48 | 127 | 4 960910 784994 | | |

### Features

- Vivid coloring
- Polyester does not absorb water nor stretch as much as nylon. It can be pulled tight with less stretch
- Runs freely when held at the center



- Reel comes with cutter blade

With cutter blade

### Use

- For basement construction, surveying, craft, and gardening

### Specifications

| | |
|---|---|
| Material | Polyester |

## Cotton Leveling Line

78491

78494

78495

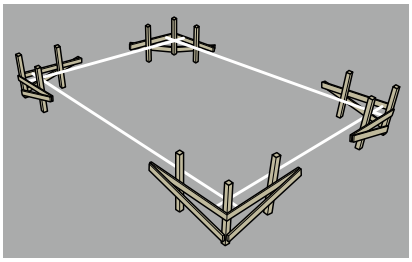
| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78488 | No.3 0.7 mm 100 m | 154×90 | 39 | 4 960910 784888 | 10 | S |
| 78489 | No.4 0.8 mm 100 m | 154×90 | 48 | 4 960910 784895 | | |
| 78490 | No.5 0.9 mm 100 m | 154×90 | 60 | 4 960910 784901 | | |
| 78491 | No.6 1.0 mm 100 m | 154×90 | 65 | 4 960910 784918 | | |
| 78493 | No.7 1.1 mm 100 m | 154×90 | 75 | 4 960910 784932 | | |
| 78494 | No.8 1.2 mm 100 m | 154×90 | 88 | 4 960910 784949 | | |
| 78495 | No.10 1.4 mm 100 m | 154×90 | 106 | 4 960910 784956 | | |

### Features

- Environmentally-friendly 100% cotton
- Easy-to-tie pure cotton yarn
- Can be used for many applications from general work to surveying
- Abundant variations in thickness

### Use

- For measuring, gardening, and kite-flying



### Specifications

| | |
|---|---|
| Material | Cotton |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Paint Marker Wide Bullet-tip

78541

78547

78542

78548

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78541 | Black | 150×25×25 | 65 | 4 960910 785410 | 10 | [B] |
| 78542 | Red | 150×25×25 | 65 | 4 960910 785427 | | |
| 78547 | White | 150×25×25 | 65 | 4 960910 785472 | | |
| 78548 | Pink | 150×25×25 | 65 | 4 960910 785489 | | |

### Features

- Writes clearly on a variety of surfaces
- Pigment ink helps to write clearly even on dark-colored surfaces
- Four colors available
- Dries quickly
- 4 mm line width

### Use

- For marking on steel material, alloy, glass, plastic, concrete, PVC pipe, etc.

### Specifications

| | |
|---|---|
| Material | Body: Aluminum<br>Cap: Polypropylene resin<br>Ink: Oil-based (pigment ink) |

## Paint Marker Fine Bullet-tip

78414

78420

78415

78515

78416

78516

78418

78419

78510

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78414 | Black | 144×15×15 | 22 | 4 960910 784147 | 10 | [B] |
| 78415 | Red | 144×15×15 | 22 | 4 960910 784154 | | |
| 78416 | Yellow | 144×15×15 | 22 | 4 960910 784161 | | |
| 78418 | White | 144×15×15 | 22 | 4 960910 784185 | | |
| 78419 | Pink | 144×15×15 | 22 | 4 960910 784192 | | |
| 78420 | Gold | 144×15×15 | 22 | 4 960910 784208 | | |
| 78515 | Blue | 144×15×15 | 22 | 4 960910 785151 | | |
| 78516 | Silver | 144×15×15 | 22 | 4 960910 785168 | | |
| 78510 | Holder for Paint Marker Fine | 90×28×46 | 21 | 4 960910 785106 | 6 | [C] |

### ■Paint Marker

#### Features

- Writes clearly on a variety of surfaces
- Pigment ink helps to write clearly even on dark-colored surfaces
- Eight colors available
- Dries quickly
- 2 mm line width

#### Use

- For marking on steel material, alloy, glass, plastic, concrete, PVC pipe, etc.

#### Specifications

| | |
|---|---|
| Material | Body: Aluminum<br>Cap: Polypropylene resin<br>Ink: Oil-based (pigment ink) |

### ■Holder for Paint Marker Fine

#### Features

- Hole for safety strap. This allows a safety cord or strap to be attached

- Clips easily onto a belt being worn. The hook on the clip prevents it from detaching.

#### Use

- For carrying paint marker

#### Specifications

| | |
|---|---|
| Material | Body: Nylon resin |
| Attachable Belt | Less than 60 mm wide and less than 4 mm thick |

*Specially made for Shinwa's fine point paint marker

## Oil-based Marking Pen Fine

78424

78430

78429

78431

78432

78434

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78424 | Bullet-tip Black | 132×17×21 | 20 | 4 960910 784246 | 10 | B |
| 78429 | Bullet-tip Red | 132×17×21 | 20 | 4 960910 784291 | | |
| 78430 | Chisel-tip Black | 132×17×21 | 20 | 4 960910 784307 | | |
| 78431 | Chisel-tip Red | 132×17×21 | 20 | 4 960910 784314 | | |

### Features

- Available in bullet-tip and chisel-tip
- Reusable by changing cartridge after ink runs out
- Dries quickly

### Use

- For marking on steel material, alloy, glass, plastic, concrete, PVC pipe, etc.

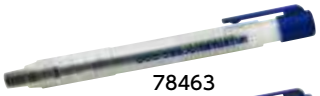
### Specifications

| | |
|---|---|
| Material | Body, Cap: Polypropylene resin<br>Ink: Oil-based (dye ink) |

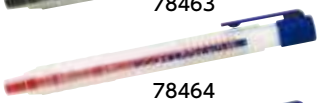
## Replacement Cartridge for Oil-based Marking Pen

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78432 | Black 2 pc-pack | 78×13×13 | 6 | 4 960910 784321 | 10 | B |
| 78434 | Red 2 pc-pack | 78×13×13 | 6 | 4 960910 784345 | | |

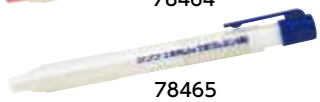
## Marking Crayon Retractable 7.0 mm


78463

78466


78464

78467


78465

78469

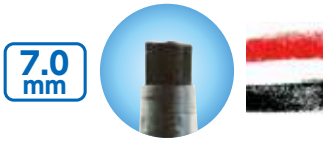
●Protector case included

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78463 | Black | 145×14×17 | 17 | 4 960910 784635 | 10 | B |
| 78464 | Red | 145×14×17 | 17 | 4 960910 784642 | | |
| 78465 | White | 145×14×17 | 17 | 4 960910 784659 | | |

### Features

- Knock type keeps your hands clean

- Easy to write




### Use

- For marking on steel material, alloy, glass, plastic, concrete, PVC pipe, etc.

### Specifications

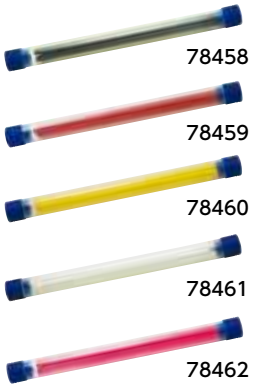
| | |
|---|---|
| Material | Body / Case: Polypropylene resin, ABS resin<br>Crayon: Oil-based (pigment ink) |

## Refill for Marking Crayon Retractable 7.0 mm

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78466 | Black 2 pc-pack | 142×17×17 | 16 | 4 960910 784666 | 10 | B |
| 78467 | Red 2 pc-pack | 142×17×17 | 16 | 4 960910 784673 | | |
| 78469 | White 2 pc-pack | 142×17×17 | 16 | 4 960910 784697 | | |

JIS JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

## Marking Crayon Retractable 4.0 mm




●Protector case included

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78445 | Black | 135×12×15 | 11 | 4 960910 784451 | 10 | [B] |
| 78446 | Red | 135×12×15 | 11 | 4 960910 784468 | | |
| 78447 | Yellow | 135×12×15 | 11 | 4 960910 784475 | | |
| 78448 | White | 135×12×15 | 11 | 4 960910 784482 | | |
| 78449 | Pink | 135×12×15 | 11 | 4 960910 784499 | | |

### Features

●Retractable type keeps your hands clean

●Easy to write

### Use

●For marking on steel material, alloy, glass, plastic, concrete, PVC pipe, etc.

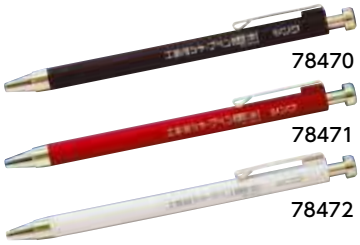
### Specifications

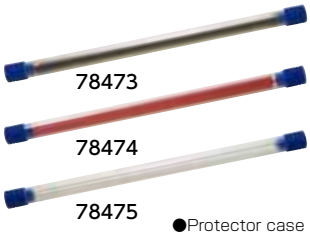
| | |
|---|---|
| Material | Body / Case: Polypropylene resin, ABS resin<br>Crayon: Oil-based (pigment ink) |

## Refill for Marking Crayon Retractable 4.0 mm

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78458 | Black 4 pc-pack | 142×17×17 | 10 | 4 960910 784581 | 10 | [B] |
| 78459 | Red 4 pc-pack | 142×17×17 | 10 | 4 960910 784598 | | |
| 78460 | Yellow 4 pc-pack | 142×17×17 | 10 | 4 960910 784604 | | |
| 78461 | White 4 pc-pack | 142×17×17 | 10 | 4 960910 784611 | | |
| 78462 | Pink 4 pc-pack | 142×17×17 | 10 | 4 960910 784628 | | |

## Marking Mechanical Pencil 2.0 mm




●Protector case included

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78470 | Black | 142×9×12 | 13 | 4 960910 784703 | 10 | [B] |
| 78471 | Red | 142×9×12 | 13 | 4 960910 784710 | | |
| 78472 | White | 142×9×12 | 13 | 4 960910 784727 | | |

### Features

●Writes smoothly, hard to break

### Use

●For marking on steel material, alloy, concrete, etc.

### Specifications

| | 78470 | 78471 | 78472 |
|---|---|---|---|
| Material | Body: ABS resin, steel<br>Crayon: Oil-based (pigment ink) | | |

| | 78473 | 78474 | 78475 |
|---|---|---|---|
| Material | Case: Polypropylene resin, ABS resin<br>Crayon: Oil-based (pigment ink) | | |

## Replacement Lead for Marking Mechanical Pencil 2.0 mm

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78473 | Black 6 pc-pack | 150×9×9 | 6 | 4 960910 784734 | 10 | [B] |
| 78474 | Red 6 pc-pack | 150×9×9 | 6 | 4 960910 784741 | | |
| 78475 | White 6 pc-pack | 150×9×9 | 6 | 4 960910 784758 | | |

## Marking Mechanical Pencil Type 2.0 mm

78511

78508
●Protector case included

78507

78509
●Protector case included

**Features**

●Easy-to-write mechanical pencil with lead
●Comes with 1x lead

**Use**

●For marking lumber and plasterboard

**Specifications**

| | 78511 | 78507 |
|---|---|---|
| Material | Body: ABS resin, steel<br>Center: Graphite | |

| | 78508 | 78509 |
|---|---|---|
| Material | Case: Polypropylene resin, ABS resin<br>Center: Graphite | |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78511 | 2H | 143×9×12 | 12 | 4 960910 785113 | 10 | [B] |
| 78507 | HB | 143×9×12 | 12 | 4 960910 785076 | | |

## Replacement Lead for Marking Mechanical Pencil Type 2.0 mm

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78508 | 2H 6 pc-pack | 150×9×9 | 7 | 4 960910 785083 | 10 | [B] |
| 78509 | HB 6 pc-pack | 150×9×9 | 7 | 4 960910 785090 | | |

## Marking Pencil PRO

78524

78517

78518

78519

78520

78521

78523

●Actual products are not sharpened.

**Features**

●Five different regular pencils available - 4H, 2H, H, HB, 2B
●Two different red pencils available - hard and soft
●Writes smoothly for professional use

**Use**

●For marking lumber and plasterboard

**Specifications**

| | 78524 | 78517 | 78518 | 78519 | 78520 |
|---|---|---|---|---|---|
| Material | Body: Wood Center: Graphite | | | | |
| Shaft Type | Hexagonal shaft | | | | |

| | 78521 | 78523 |
|---|---|---|
| Material | Body: Wood Center: Pigment, wax | |
| Shaft Type | Hexagonal shaft | |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78524 | 4H 3 pc-pack | 177×7.5×7.5 | 4 | 4 960910 785243 | 10 | [B] |
| 78517 | 2H 3 pc-pack | 177×7.5×7.5 | 4 | 4 960910 785175 | | |
| 78518 | H 3 pc-pack | 177×7.5×7.5 | 4 | 4 960910 785182 | | |
| 78519 | HB 3 pc-pack | 177×7.5×7.5 | 4 | 4 960910 785199 | | |
| 78520 | 2B 3 pc-pack | 177×7.5×7.5 | 4 | 4 960910 785205 | | |
| 78521 | Red Hard 3 pc-pack | 177×7.5×7.5 | 4 | 4 960910 785212 | | |
| 78523 | Red Soft 3 pc-pack | 177×7.5×7.5 | 4 | 4 960910 785236 | | |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Marking Crayon Pencil Type

78435 78440 78442 78443

●Actual products are not sharpened.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78435 | Black 3 pc-pack | φ8×175 | 6 | 4 960910 784352 | 10 | [B] |
| 78440 | Red 3 pc-pack | φ8×175 | 6 | 4 960910 784406 | | |
| 78442 | Yellow 3 pc-pack | φ8×175 | 6 | 4 960910 784420 | | |
| 78443 | White 3 pc-pack | φ8×175 | 6 | 4 960910 784437 | | |

### Features
●Usable on a variety of surfaces

### Use
●For marking on steel material, alloy, glass, plastic, concrete, PVC pipe, etc.

### Specifications

| | |
|---|---|
| Material | Body: Wood<br>Crayon: Oil-based (pigment ink) |
| Shaft Type | Cylindrical shaft |

## Chalk Holder

78501 78527 78528 78597

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78501 | White | 131×25×21 | 24 | 4 960910 785014 | 10 | [B] |
| 78527 | Red | 131×25×21 | 24 | 4 960910 785274 | | |
| 78528 | Yellow | 131×25×21 | 24 | 4 960910 785281 | | |
| 78597 | Blue | 131×25×21 | 24 | 4 960910 785977 | | |

### Features
●Protects chalk from breaking or getting wet
●The magnetic cap will stick on steel chalkboard

●Clear cap shows color of chalk
●Keeps your hands clean

●Retractable type makes insertion and removal of chalk easy

### Use
●As protector case for chalk

### Specifications

| | |
|---|---|
| Material | Body: Polypropylene resin<br>Cap: Acrylic resin |
| Usable Chalk | φ11 - 12 mm |

*Hold chalk as you move it in and out.
Otherwise the chalk may fall or break.

## Chalk

74141

74142

74143

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 74141 | White 10 pc-pack with Plastic Case | φ12×82 | 5.5 | 4 960910 741416 | 10 | [B] |
| 74142 | Red 10 pc-pack with Plastic Case | φ12×82 | 5.5 | 4 960910 741423 | | |
| 74143 | Yellow 10 pc-pack with Plastic Case | φ12×82 | 5.5 | 4 960910 741430 | | |

### Features
●Plastic case protects chalks from breaking or getting wet
●Compact size convenient for carrying
●Clear case shows color of chalk

●Writes smoothly and erases easily
●Not only for blackboard, also for various materials such as wood, stone, metal, or concrete
●Highly visible vivid color makes work easier

### Use
●For writing on chalkboards, wood, stone, iron and concrete

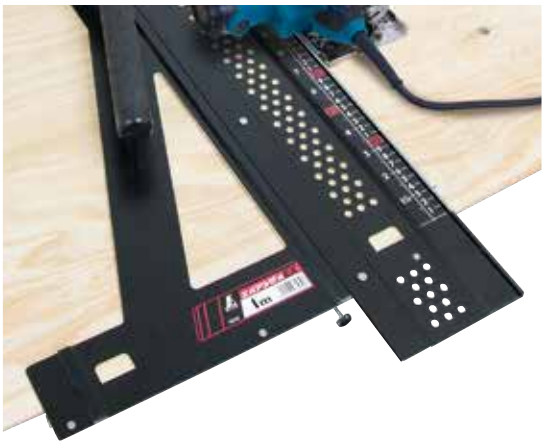
### Specifications

| | |
|---|---|
| Material | Calcium carbonate |

JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

# 13. Circular Saw Guides

# Circular Saw Guide L-Angle EX



78054

78055

78032

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78054 | 45 cm/shaku (cm/shaku) | 620×330×77 | 1,150 | 4 960910 780545 | 2 | V |
| 78055 | 60 cm/shaku (cm/shaku) | 750×330×77 | 1,250 | 4 960910 780552 | | |
| 78032 | 1 m/shaku (cm/shaku) | 1,150×400×77 | 2,000 | 4 960910 780323 | 1 | |

Refer to P. 2 about the shaku scale

## Features

●130 mm wide guide prevents accidental swinging

Strong cross-sectional shape
●Light weight
●Easy-to-read vertical graduation (with red numbers)

●Slide block that prevents an electric circular saw from coming off included

Attach the slider guide to the base of the electric circular saw. By sliding the saw on the guide's groove, it will cut without slipping

●Large and easy-to-hold handle

made of non-slip elastomer resin. 1 m model comes with an extra handle at the center point of the guide.

●Guide edge has a stainless steel plate

## Use

●As a guide rule when making square cuts on boards with an electric circular saw
●For dimension measurements

## Specifications

| | | 78054 | 78055 | 78032 |
|---|---|---|---|---|
| Perpendicularity | | Less than 0.1 mm per 100 mm | | |
| Graduation | Shaku | 1 shaku 6 sun 5 bu | 2 shaku | 3 shaku 3 sun |
| | Metric | 50 cm | 60 cm | 1 m |
| Edge Height | | 15 mm | | |
| Material | | Body: Aluminum<br>Handle: ABS resin, elastomer resin<br>Guide Edge: Stainless steel | | |
| Accessories | | Slider, Cutout positioning stick | | |

# Slider

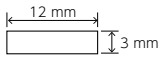
78236

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78236 | for Circular Saw Guide with Groove | 230×167×6 | 130 | 4 960910 782365 | 5 | C |

## Features

●Enables straight cuts without deviation after attaching to the electric circular saw and sliding it according to the groove of the corresponding circular saw guide

Use by inserting into the base of the electric circular saw



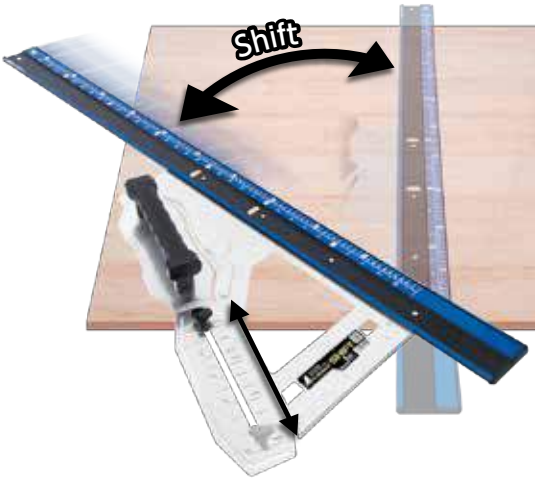
## Use

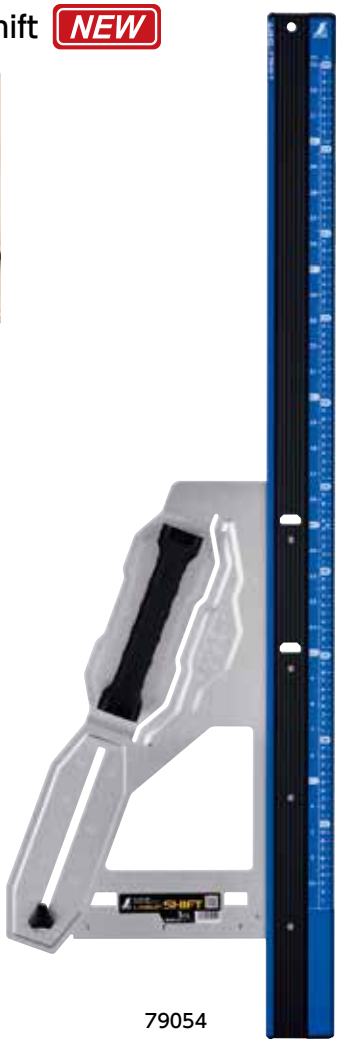
●As a guide when using an electric circular saw with a circular saw guide

## Specifications

| | |
|---|---|
| Material | Stainless steel |

# Circular Saw Guide L-Angle Plus Shift NEW



79054

79052

79053

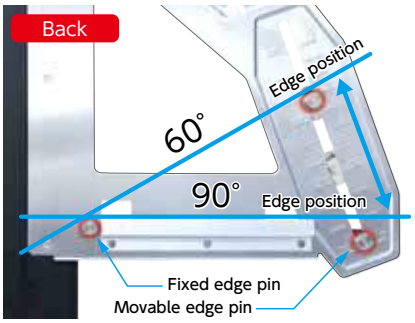
79055

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 79052 | 45 cm/shaku with Gradient Scale Cutting Function cm/shaku | 687×390×85 | 1,300 | 4 960910 790520 | 2 | B |
| 79053 | 60 cm/shaku with Gradient Scale Cutting Function cm/shaku | 817×390×85 | 1,400 | 4 960910 790537 | | |
| 79054 | 1 m/shaku with Gradient Scale Cutting Function cm/shaku | 1,217×390×85 | 1,600 | 4 960910 790544 | 1 | |
| 79055 | 1.2 m/shaku with Gradient Scale Cutting Function cm/shaku | 1,417×390×85 | 1,700 | 4 960910 790551 | | |

Refer to P. 2 about the shaku scale

## Features

- Square cuts and angular cuts can be shifted by moving the movable edge pin and changing the edge position




- Since the fixed edge pin and movable edge pin are circular, they will not dig into the material even when pressed against it

- Features a slide/stop system which can slide easily and fix securely. Since the rubber stopper is usually floating, it is able to slide smoothly. When the handle is pressed, the rubber stopper moves down and closely adheres to the material, fixing it firmly.

- Wide Hex Grip handle that can be held firmly is adopted

- Includes both metric graduations and shaku graduations convenient for carpentry
- Aluminum construction makes guide both light and sturdy. Features white graduations on a blue background.
- Groove for slider
- Non-slip rubber pad achieves high non-slip performance thanks to the use of the high-performance microcellular polymer sheet PORON, which has a high-density, delicate and uniform cell structure

## Use

- As a guide rule when making square or angular cuts with an electric circular saw
- As a guide rule when making cuts based on scribed angles from other materials
- For dimension measurements

## Specifications

| | | 79052 | 79053 | 79054 | 79055 |
|---|---|---|---|---|---|
| Perpendicularity | | Less than 0.1 mm per 100 mm | | | |
| Graduation | Shaku | 1 shaku 6 sun 5 bu | 2 shaku | 3 shaku 3 sun | 4 shaku |
| | Metric | 50 cm | 60 cm | 1 m | 1.2 m |
| Gradient Adjustment Range | | Gradient graduation from 1 sun to 10 sun | | | |
| Angle Adjustment Range | | 45 - 90° | | | |
| Edge Height | | 15 mm | | | |
| Material | | Body: Aluminum<br>Guide Surface, Fixed Edge Pin, Movable Edge Pin, Indicator arrow: Stainless steel<br>Protection end cap: ABS resin<br>Handle: ABS resin, elastomer resin<br>Angle Fine Adjustment Screw: Phenol resin, brass | | | |

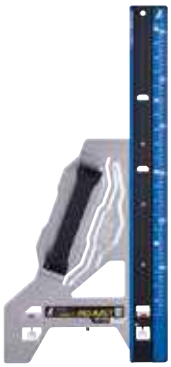
JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# Circular Saw Guide L-Angle Plus Adjust NEW

73182

●Includes an angle fine adjustment screw which is easy to rotate even while wearing gloves

73180



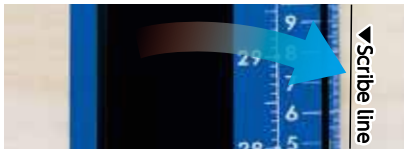
73181

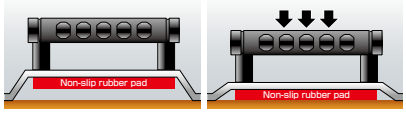
73183

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73180 | 45 cm/shaku cm/shaku | 632×350×83 | 1,200 | 4 960910 731806 | 2 | B |
| 73181 | 60 cm/shaku cm/shaku | 762×350×83 | 1,300 | 4 960910 731813 | | |
| 73182 | 1 m/shaku cm/shaku | 1,162×400×83 | 1,700 | 4 960910 731820 | 1 | |
| 73183 | 1.2 m/shaku cm/shaku | 1,362×400×83 | 1,800 | 4 960910 731837 | | |

## Features

●Combination of angle fine adjustment mechanism and slide/stop system enables smooth fine adjustment in mm units



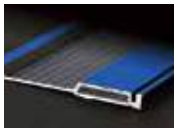




●Angular fine adjustment secures edge firmly even on thin boards such as veneer

●Straight heel shape keeps the screw from directly contacting the ground or snagging the electric circular saw's cord

●Includes both metric graduations and shaku graduations convenient for carpentry

●Aluminum construction makes guide both light and sturdy. Features white graduations on a blue background.



●Groove for slider

●Non-slip rubber pad achieves high non-slip performance thanks to the use of the high-performance microcellular polymer sheet PORON, which has a high-density, delicate and uniform cell structure

## Use

●As a guide rule when making square or angular cuts with an electric circular saw

●As a guide rule when making finishing cuts along a scribed line

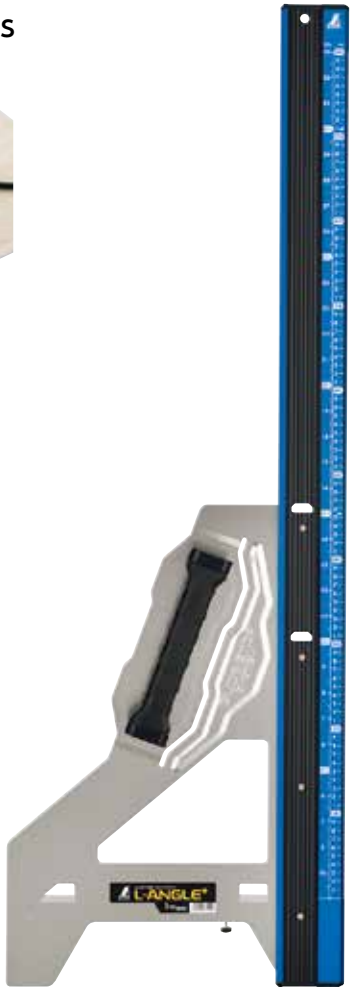
●For dimension measurements

## Specifications

| | | 73180 | 73181 | 73182 | 73183 |
|---|---|---|---|---|---|
| Perpendicularity | | Less than 0.1 mm per 100 mm | | | |
| Graduation | Shaku | 1 shaku 6 sun 5 bu | 2 shaku | 3 shaku 3 sun | 4 shaku |
| | Metric | 50 cm | 60 cm | 1 m | 1.2 m |
| Angle Fine Adjustment Range (Guide Blade Tip) | | To the left approx. 20 mm | To the left approx. 24 mm | To the left approx. 34 mm | To the left approx. 40 mm |
| | | To the right approx. 18 mm | To the right approx. 21 mm | To the right approx. 30 mm | To the right approx. 36 mm |
| Edge Height | | 15 mm | | | |
| Cutout Positioning Stick Storage Height | | 5 mm | | | |
| Material | | Body: Aluminum<br>Guide Surface: Stainless steel<br>Protection End Cap: ABS resin<br>Angle Fine Adjustment Screw: Aluminum, polypropylene resin<br>Handle: ABS resin, elastomer resin | | | |
| Accessories | | 1x Cutout positioning stick | | | |

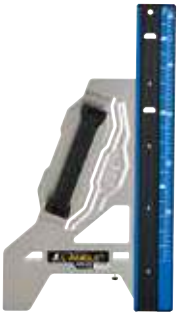
JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

# Circular Saw Guide L-Angle Plus

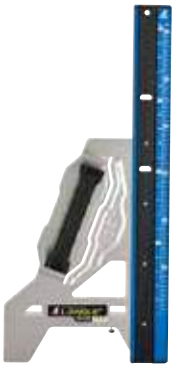


73152

●Slides in easily and secures tightly with Slide-Stop System. It slides smoothly since the non-slip rubber is normally floating above the surface. Pressing down on the handle causes the rubber portion to move down and adhere to the material, securing it tightly.



73150



73151

73153

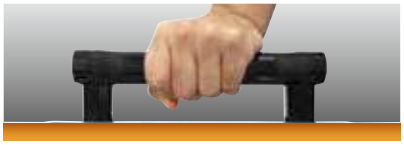
| Item Code | Description | | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 73150 | 45 cm/shaku | cm/shaku | 632×350×83 | 1,100 | 4 960910 731509 | 2 | B |
| 73151 | 60 cm/shaku | cm/shaku | 762×350×83 | 1,200 | 4 960910 731516 | | |
| 73152 | 1 m/shaku | cm/shaku | 1,162×400×83 | 1,600 | 4 960910 731523 | 1 | |
| 73153 | 1.2 m/shaku | cm/shaku | 1,362×400×83 | 1,700 | 4 960910 731530 | | |

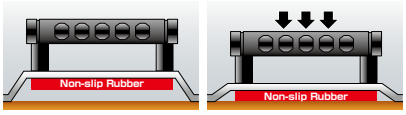
Refer to P. 2 about the shaku scale

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Features

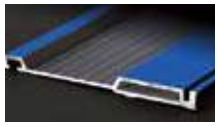
●Wide Hexa Grip that grips securely. Pressing down on the handle causes the rubber portion to move down and adhere to the material, securing it tightly.



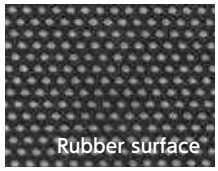



●Heel shape that stands completely straight. The product will not become diagonal when stood upright since the guide and the handle mounting board have the same height.

●Enables square cuts just by aligning base plate of electric circular saw along the edge of the guide
●Features both shaku and metric graduations to come in handy for carpenters
●Durable design with lightweight aluminum construction
●Groove for slider



●Non-slip rubber is made of high-performance microcellular polymer sheet (PORON), which is comprised of a high-density, delicate, and uniform cell structure to provide excellent non-slip performance




## Use

●As a guide rule when making square cuts on boards with an electric circular saw
●For dimension measurements

## Specifications

| | | 73150 | 73151 | 73152 | 73153 |
|---|---|---|---|---|---|
| Perpendicularity | | Less than 0.1 mm per 100 mm | | | |
| Graduation | Shaku | 1 shaku 6 sun 5 bu | 2 shaku | 3 shaku 3 sun | 4 shaku |
| | Metric | 50 cm | 60 cm | 1 m | 1.2 m |
| Edge Height | | 15 mm | | | |
| Material | | Body: Aluminum<br>Guide Surface: Stainless steel<br>Protective End Cap: ABS resin<br>Wide Handle: ABS resin, elastomer resin, polypropylene resin | | | |
| Accessories | | 1x Cutout positioning stick | | | |

## Circular Saw Guide L-Angle with Horizontal Graduations

78570

### Features

- Easily mark where to cut
- Wide base for better grip

### Use

- As a guide rule when making square cuts on boards with an electric circular saw
- For dimension measurements

### Specifications

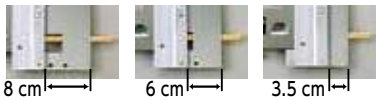
| | | |
|---|---|---|
| Perpendicularity | | Less than 0.1 mm per 100 mm |
| Blade Graduation | Shaku | 3 shaku 3 sun |
| | Metric | 1 m |
| Horizontal Graduation | Shaku | 1 shaku 6 sun 5 bu |
| | Metric | 50 cm |
| Edge Height | | 15 mm |
| Material | | Body: Aluminum<br>Guide Surface: Stainless steel<br>Handle: ABS resin, elastomer resin |
| Accessories | | 1x Cutout positioning stick / 1x Bracing fitting |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78570 | 1 m/shaku (shaku/cm) | 1,150×524×70 | 1,600 | 4 960910 785700 | 1 | |

Refer to P. 2 about the shaku scale

## Circular Saw Guide L-Angle with Support Plate

- Support plate protects material from scratching and allows uneven surfaces to be cut
- Support plate can be adjusted for different sizes of electric circular saws



77899

### Features

- Just by aligning it on an object, it helps an electric circular saw cut perpendicularly
- Features both shaku and metric graduations to come in handy for carpenters
- Durable, lightweight aluminum material
- Stainless steel plate on guide edge
- Replacement support plate is available (sold separately)

### Use

- As a guide rule when making square cuts on boards with an electric circular saw
- For dimension measurements

### Specifications

| | | 77899 | 77883 | 77901 |
|---|---|---|---|---|
| Perpendicularity | | Less than 0.1 mm per 100 mm | | |
| Graduation | Shaku | 1 shaku 6 sun 5 bu | 2 shaku | 3 shaku 3 sun |
| | Metric | 50 cm | 60.5 cm | 1 m |
| Edge Height | | 15 mm | | |
| Material | | Body: Aluminum Guide Surface: Stainless steel<br>Handle: ABS resin, elastomer resin | | |
| Accessories | | 1x Cutout positioning stick | | 1x Cutout positioning stick / 1x Brace fitting |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77899 | 45 cm/shaku (shaku/cm) | 580×335 - 380×70 | 1,360 | 4 960910 778993 | 2 | |
| 77883 | 60 cm/shaku (cm/shaku) | 750×365 - 410×70 | 1,650 | 4 960910 778832 | | |
| 77901 | 1 m/shaku (shaku/cm) | 1,150×435 - 480×70 | 2,550 | 4 960910 779013 | 1 | |

Refer to P. 2 about the shaku scale

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Circular Saw Guide L-Angle without Handle

77858

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77858 | 50 cm/shaku (shaku/cm) | 500(40)×330(35)×20(5) | 560 | 4 960910 778580 | 4 | V |

Refer to P. 2 about the shaku scale

### Features

- Find the square by aligning it to the edge

- Strong and lightweight thanks to aluminum and stainless steel bond

### Use

- As a guide rule when making square cuts on boards with an electric circular saw
- For dimension measurements

### Specifications

| | | |
|---|---|---|
| Perpendicularity | | Less than 0.1 mm per 100 mm |
| Graduation | Shaku | 1 shaku 6 sun 4 bu |
| | Metric | 46 cm |
| Edge Height | | 8.8 mm |
| Material | | Body: Aluminum, stainless steel |

## Circular Saw Guide L-Angle for Left-hander

77803

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77803 | 45 cm/shaku (shaku/cm) | 580×300×70 | 900 | 4 960910 778030 | 2 | B |
| 77805 | 60 cm/shaku (cm/shaku) | 750×330×70 | 1,100 | 4 960910 778054 | | |
| 77807 | 1 m/shaku (shaku/cm) | 1,150×400×70 | 1,500 | 4 960910 778078 | 1 | |

Refer to P. 2 about the shaku scale

### Features

- L-Angle for a left-handed person

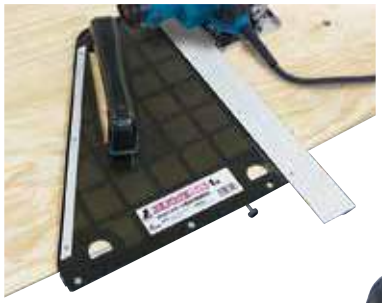
### Use

- As a guide rule when making square cuts on boards with an electric circular saw
- For dimension measurements

### Specifications

| | | 77803 | 77805 | 77807 |
|---|---|---|---|---|
| Perpendicularity | | Less than 0.1 mm per 100 mm | | |
| Graduation | Shaku | 1 shaku 6 sun 5 bu | 2 shaku | 3 shaku 3 sun |
| | Metric | 50 cm | 60.5 cm | 1 m |
| Edge Height | | 15 mm | | |
| Material | | Body: Aluminum Guide Surface: Stainless steel<br>Handle: ABS resin, elastomer resin | | |
| Accessories | | 1x Cutout positioning stick | | 1x Cutout positioning stick<br>1x Brace fitting |

## Circular Saw Guide L-Angle Light



77966

77967

77919

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77966 | 45 cm | 580×276×78 | 600 | 4 960910 779662 | 2 | B |
| 77967 | 60 cm | 750×276×78 | 700 | 4 960910 779679 | | |
| 77919 | 1 m | 1,150×355×78.5 | 1,200 | 4 960910 779198 | 1 | |

### Features

- Lightweight circular saw guide is made of aluminum, stainless steel, and polycarbonate resin
- Easy-to-grip handle
- Stainless steel plate on guide edge

### Use

- As a guide rule when making square cuts on boards with an electric circular saw

### Specifications

| | 77966 | 77967 | 77919 |
|---|---|---|---|
| Perpendicularity | Less than 0.1 mm per 100 mm<br>*at ordinary temperature | | |
| Material | Body: Aluminum, polycarbonate resin<br>Guide Surface: Stainless steel<br>Reinforcing Metal Fitting: Stainless steel (77919) | | |
| Edge Height | 15 mm | | |
| Accessories | — | | 1x Cutout positioning stick |

*The cutout positioning stick cannot be used for 45, 60 cm model.

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Circular Saw Guide L-Angle Fit

78034

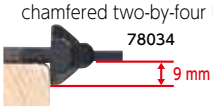
78052

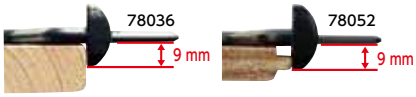
78036

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78034 | 15 cm | 220×220×24 | 250 | 4 960910 780347 | 4 | C |
| 78036 | 23 cm | 304×280×24 | 440 | 4 960910 780361 | | |
| 78052 | 30 cm | 380×280×24 | 535 | 4 960910 780521 | | |

### Features

- 9 mm high fence fixes it tightly even to chamfered two-by-four lumber or floorboards




- Extended long grip can be gripped tightly without causing interference to circular saw motor
- 15 cm and 23 cm models are suitable for cutting two-by-four lumber. 30 cm model is suitable for floorboards.

- Rubber sheet on back side prevents slipping and scratching of material (78034/78052)

- 5 mm pitch graduations

### Use

- As a guide rule when making straight cuts on lumber with an electric circular saw

### Specifications

| | 78034 | 78036 | 78052 |
|---|---|---|---|
| Perpendicularity | Less than 0.2 mm per 100 mm | | |
| Edge Height | 9 mm | | |
| Material | Body: Aluminum Guide Surface: Stainless steel | | |

## Circular Saw Guide Triangle

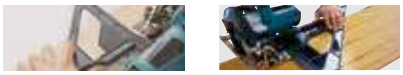
78108

78280

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78108 | AL 15 cm | 238×238×25 | 275 | 4 960910 781085 | 4 | C |
| 78280 | PC 30 cm | 372×372×25 | 340 | 4 960910 782808 | | |

### Features

- Can be used for square and 45° cuts
- Rubber is attached to the reverse side of the position where the hand presses down, allowing stable cutting at right angles and 45° angles

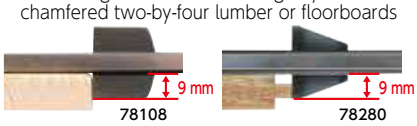


78108 78280

- Light and durable due to polycarbonate resin. This light weight comes from 44% aluminum, while strength is approximately 30x greater than acrylic. Will not scratch materials since it is made of resin. (78280)
- Long introduction part makes for stable cutting

78108 78280

- 9 mm high fence fixes it tightly even to chamfered two-by-four lumber or floorboards




78108 78280

- Stainless steel plate to protect against wear

78280

### Use

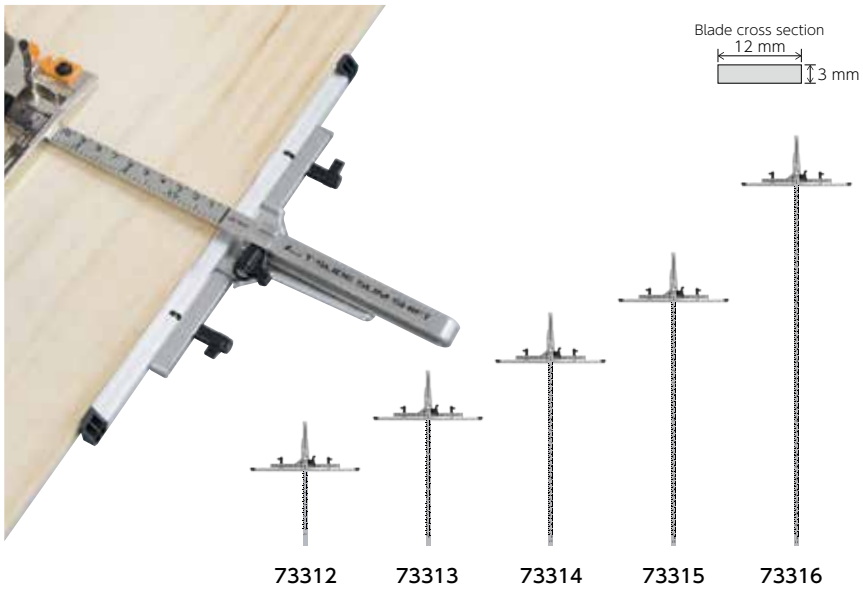
- As a guide rule when making square or 45° cuts on lumber with an electric circular saw

### Specifications

| | 78108 | 78280 |
|---|---|---|
| Angle Tolerance | Less than 0.2 mm per 100 mm at 45° and 90° | |
| Edge Height | 9 mm | |
| Material | Body: Aluminum Guide Surface: Stainless steel | Body: Polycarbonate resin Guide Surface: Stainless steel |

JIS JIS mark (red) With red numbers cm/shaku cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet With luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

## Circular Saw Guide T-Slide Slim-shift




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73312 | 15 cm/shaku (cm/shaku) | 325×275×20 | 250 | 4 960910 733121 | 6 | C |
| 73313 | 30 cm/shaku (cm/shaku) | 460×275×20 | 287 | 4 960910 733138 | | |
| 73314 | 45 cm/shaku (cm/shaku) | 610×275×20 | 326 | 4 960910 733145 | | |
| 73315 | 60 cm/shaku (cm/shaku) | 760×275×20 | 370 | 4 960910 733152 | | |
| 73316 | 90 cm/shaku (cm/shaku) | 1,060×275×20 | 451 | 4 960910 733169 | | |

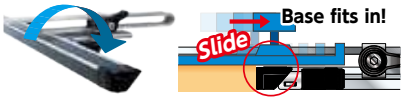
Refer to P. 2 about the shaku scale

### Features

●Can be used for both thin board and narrow width cuts. Bring edge up to cut thin boards without them moving into the T-slide itself. Or, fold the edge down for narrow width cuts.

**Thin board mode**

**Narrow width mode**




●Provides optimum end height so that even when cutting with 9 mm boards stacked on each other, it will not interfere with the second board

### Use

●As a guide rule when cutting thin wooden boards into smaller, long strips with an electric circular saw
●As a guide rule when cutting wooden boards into smaller, long strips with an electric circular saw

### Specifications

| | |
|---|---|
| Material | Beam, Joint: Stainless steel<br>End: Aluminum, UHPE tape<br>Protective Cap, Stopper Screw: Polycarbonate resin (end)<br>Mounting Position Adjustment Screw: Polyacetal resin (Guide stabilization metal fitting) |

## Circular Saw Guide T-Slide Ⅱ

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73711 | 15 cm/shaku (cm/shaku) | 327×275×30 | 368 | 4 960910 737112 | 4 | C |
| 73712 | 30 cm/shaku (cm/shaku) | 462×275×30 | 405 | 4 960910 737129 | | |
| 73713 | 45 cm/shaku (cm/shaku) | 612×275×30 | 448 | 4 960910 737136 | | |
| 73714 | 60 cm/shaku (cm/shaku) | 762×275×30 | 490 | 4 960910 737143 | | |
| 73715 | 90 cm/shaku (cm/shaku) | 1,062×275×30 | 575 | 4 960910 737150 | | |

Refer to P. 2 about the shaku scale

### Features

●Newly designed stabilizer

Stabilizer prevents arm from shaking in any direction

●Quick-shift lock mechanism fixes arm easily and tightly

●Fence high enough for 3 pieces of 9 mm thick material

### Use

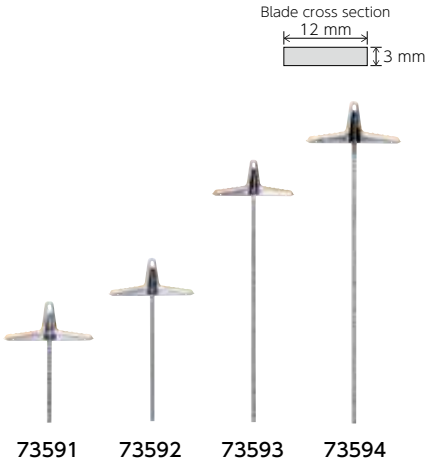
●As a guide rule when cutting wooden boards into smaller, long strips with an electric circular saw

### Specifications

| | |
|---|---|
| Material | Arm: Iron<br>Slider: Aluminum, UHPE tape<br>Protective Cap, Edge Guide, Edge Clamping Plate: ABS resin<br>Clamp Lever: Polyacetal resin |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

## Circular Saw Guide T-Slide Basic




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73591 | 15 cm/shaku (cm/shaku) | 280×220×15 | 164 | 4 960910 735910 | 8 | C |
| 73592 | 30 cm/shaku (cm/shaku) | 430×220×15 | 207 | 4 960910 735927 | | |
| 73593 | 45 cm/shaku (cm/shaku) | 580×220×15 | 249 | 4 960910 735934 | | |
| 73594 | 60 cm/shaku (cm/shaku) | 730×220×15 | 292 | 4 960910 735941 | | |

Refer to P. 2 about the shaku scale

### Features

- Since the arm comes out directly from the slider, it can be fixed securely to thin boards even less than 5 mm without any risk of the board penetrating the space between the arm and slider

- Hard-to-rust, rigid construction due to all stainless steel material (SUS304)

- 3D structure formed from a single sheet of stainless steel material makes it both strong and lightweight
- Includes holes for attaching wood as spacer with wood screws, which enables cutting to a narrow width

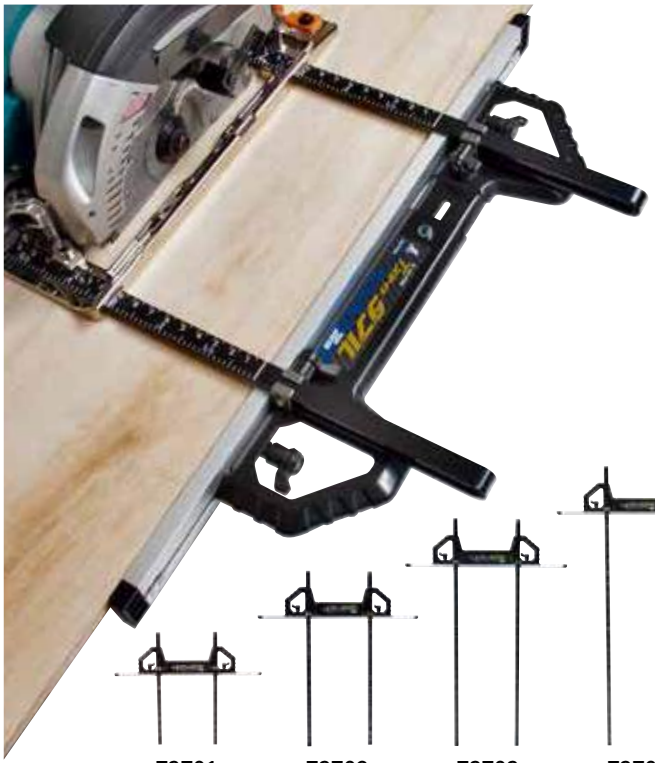
### Use

- As a guide rule when cutting wooden boards into smaller, long strips with an electric circular saw

### Specifications

| | |
|---|---|
| Material | Stainless steel |

## Circular Saw Guide T-Slide Double

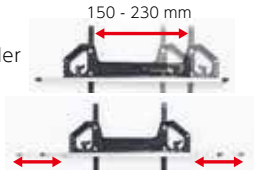


| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73701 | 15 cm/shaku (cm/shaku) | 327×425×30 | 650 | 4 960910 737013 | 4 | C |
| 73702 | 30 cm/shaku (cm/shaku) | 462×425×30 | 730 | 4 960910 737020 | | |
| 73703 | 45 cm/shaku (cm/shaku) | 612×425×30 | 830 | 4 960910 737037 | | |
| 73704 | 60 cm/shaku (cm/shaku) | 762×425×30 | 920 | 4 960910 737044 | | |
| 73705 | 90 cm/shaku (cm/shaku) | 1,062×425×30 | 1,090 | 4 960910 737051 | | |

Refer to P. 2 about the shaku scale

### Features

- Combined double slider




Interval between the two arms and the position of slider can be adjusted separately

- Newly designed stabilizer

Stabilizer prevents arm from shaking in any direction

- Quick-shift lock mechanism fixes arm easily and tightly

- Fence high enough for 3 pieces of 9 mm thick material

### Use

- As a guide rule when cutting wooden boards into smaller, long strips with an electric circular saw

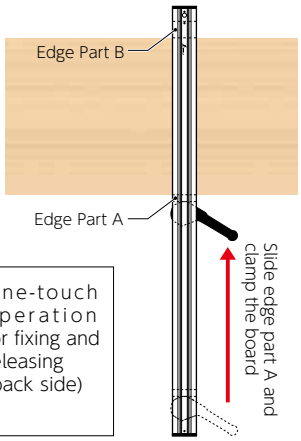
### Specifications

| | |
|---|---|
| Material | Arm: Iron<br>Slider: Aluminum, UHPE tape<br>Protective Cap/Edge Guide/<br>Edge Clamping Plate: ABS resin<br>Clamp Lever: Polyacetal resin |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Circular Saw Guide I-Clamp One-touch

77822



Fix it by pulling the one-touch lever

One-touch operation for fixing and releasing (back side)

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77822 | 1 m/shaku (cm/shaku) | 1,172×60×30 | 1,200 | 4 960910 778221 | 1 | V |
| 77821 | 1.2 m/shaku (cm/shaku) | 1,402×60×30 | 1,300 | 4 960910 778214 | | |
| 77823 | 2 m/shaku (cm/shaku) | 2,172×60×30 | 2,000 | 4 960910 778238 | | |
| 77824 | 2.4 m/shaku (cm/shaku) | 2,590×60×30 | 2,500 | 4 960910 778245 | | |

Refer to P. 2 about the shaku scale

### Features

- Fixes the rule on material with one touch. Not necessary to hold down the rule.
- Convenient not only for an electric circular saw but also as a cutter guide
- 2.4 m model can hold up to 8shaku board
- One-touch operation for fixing and releasing
- Fastens rule securely without scratching materials
- Durable and lightweight, made of aluminum and stainless steel
- Comes with both shaku and metric graduations
- Stainless steel plate on both guide edges

### Use

- As a guide rule when making straight cuts of wooden boards such as 3×6 boards and 4×8 boards with an electric circular saw
- As a cutter guide
- For dimension measurements

### Specifications

| | | 77822 | 77821 | 77823 | 77824 |
|---|---|---|---|---|---|
| Material | | Body: Aluminum<br>Mounting Part: Aluminum, urea resin, stainless steel<br>Holding Lever, Edge Cap: ABS resin | | | |
| Clamping Size | Minimum | 25 mm | | | |
| | Maximum | 1,010 mm | 1,240 mm | 2,010 mm | 2,445 mm |
| Straightness Tolerance | | Less than 0.45 mm | Less than 0.5 mm | Less than 0.6 mm | Less than 0.7 mm |
| Accessory | | 2x Cutout positioning stick (6 × 6 × 160 mm) | | | |

## Circular Saw Guide Free Angle Neo

73160

73166

73161

73162

73163

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73160 | 30 cm | 465×142×20 | 630 | 4 960910 731608 | 1 (5) | SP |
| 73166 | 37 cm | 535×142×20 | 650 | 4 960910 731660 | | |
| 73161 | 45 cm | 615×142×20 | 700 | 4 960910 731615 | | |
| 73162 | 60 cm | 765×170×20 | 880 | 4 960910 731622 | 1 | |
| 73163 | 1 m | 1,165×170×20 | 1,080 | 4 960910 731639 | | |

### Features

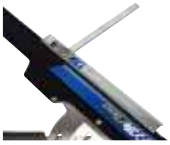
- Strong metal screw replaces the plastic one. Will not break
- Folds flat
- Easy to turn

- Rigid 3-D structure

- Hollow, wide, aluminum guide makes it light and durable

With protector caps to protect material from getting scratched

- Groove for Slider (sold separately, Item Code 78236): Just slide it in the groove to prevent shifting during cutting



Use after installing on the base of an electric circular saw

### Use

- As a guide rule when making angular cuts on lumber with an electric circular saw
- As a guide rule when making cuts based on scribed angles from other materials

### Specifications

| | 73160 | 73166 | 73161 | 73162 | 73163 |
|---|---|---|---|---|---|
| Perpendicularity (at 90°) | Less than 1 mm per 300 mm | Less than 1.3 mm per 370 mm | Less than 1.6 mm per 450 mm | Less than 2.1 mm per 600 mm | Less than 3.5 mm per 1000 mm |
| Material | Body: Stainless steel, aluminum<br>Stopper Screw: Stainless, brass<br>Protector Cap: Polyacetal resin | | | | |
| Accessory | 1x Cutout positioning stick | | | | |

## Circular Saw Guide Free Angle Multi

78232

### HOW TO USE

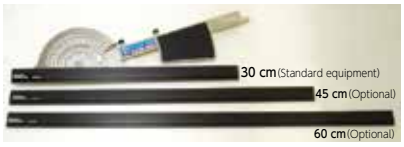
Fix slider to an electric circular saw and slide it in the groove to cut straight.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78232 | Free Angle Multi with Guide Rule30 cm | 455×145×23 | 750 | 4 960910 782327 | 4 | SP |
| 78233 | Guide Rule 30 cm for Free Angle Multi | 455×30×5 | 130 | 4 960910 782334 | 5 | VH |
| 78234 | Guide Rule 45 cm for Free Angle Multi | 605×30×5 | 171 | 4 960910 782341 | | |
| 78235 | Guide Rule 60 cm for Free Angle Multi | 755×30×5 | 213 | 4 960910 782358 | | |

### Features

- Slider comes as standard

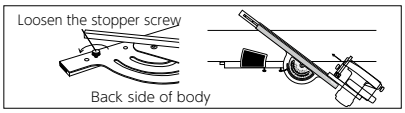
- Easily adjust length and angles
- Replacement guides enable length adjustment




*30 cm guide comes as standard. 45 cm and 60 cm guides (sold separately) can be used to extend length.

- Aluminum guide can be locked at any position

- Longer guide helps to cut at an acute angle




### Use

- As a guide rule when making angular cuts on lumber with an electric circular saw
- As a guide rule when making cuts based on scribed angles from other materials

### Specifications

| | |
|---|---|
| Perpendicularity (at 90°) | Less than 1 mm per 300 mm |
| Material | Body: Stainless steel, aluminum<br>Stopper Screw: Aluminum, brass |
| Accessory | Slider, cutout positioning stick, stopper screw (flat) |

## Circular Saw Guide Free Angle One-touch

78450

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78450 | 1 m | 1,230×425×30 | 2,200 | 4 960910 784505 | 1 | V |
| 78451 | 1.2 m | 1,460×425×30 | 2,500 | 4 960910 784512 | | |

### Features

- Fixes rule on material with one touch
- One-touch operation for fixing and releasing
- An electric circular saw can be operated with both hands

Easy-to-read gradient graduation

Clear polycarbonate board helps to see cutting point

Pin can be used to fix on soft material such as plaster board

### Use

- As a guide rule when making angular cuts on lumber with an electric circular saw

### Specifications

| | 78450 | 78451 |
|---|---|---|
| Perpendicularity (at 90°) | Less than 3.5 mm per 1,000 mm | |
| Material | Body: Stainless steel, aluminum<br>Stopper Screw: Aluminum, brass | |
| Accessory | Assist plate (polycarbonate resin) | |

## Circular Saw Guide Mini Free Angle Justy

78079

78176

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78079 | Quick Adjust 23 cm | 350×105×26 | 360 | 4 960910 780798 | 4 | B |
| 78176 | Ⅱ 23 cm | 350×105×26 | 360 | 4 960910 781764 | 5 | SP |

### Features

- Adjustable to any angles from 20 - 160°
- Gradient graduation from 3 sun to 8 sun
- Turn over to use on wider material

■Quick Adjust
- Easily lock at certain angles (45°, 90°, 135°)

■Justy Ⅱ/Mini Free Angle Ⅱ
- Easy-to-read white graduation board
- Hard-to-break, new metal type stopper screw
- Flat folding screw

### Use

- As a guide rule when making square cuts on lumber with an electric circular saw
- As a guide rule when making cuts based on angles scribed from other materials

### Specifications

■23 cm

| | 78079 | 78176 |
|---|---|---|
| Perpendicularity (at 90°) | Less than 1 mm per 300 mm | |
| Material | Body: Stainless steel<br>Stop Switch: ABS, polyacetal resin<br>Stopper Screw: Stainless steel, brass<br>Stopper Screw (flat): ABS resin | Body: Stainless steel<br>Stopper Screw: Stainless steel, brass |
| Accessory | 1x Cutout positioning stick | |
| | Stopper screw (flat) | — |

■30 cm

| | 78217 | 78179 |
|---|---|---|
| Perpendicularity (at 90°) | Less than 1 mm per 300 mm | |
| Material | Body: Stainless steel, aluminum<br>Stop Switch: ABS, polyacetal resin<br>Stopper Screw: Stainless steel, brass<br>Stopper Screw (flat): ABS resin | Body: Stainless steel, aluminum<br>Stopper Screw: Stainless steel, brass |
| Accessory | 1x Cutout positioning stick | |
| | Stopper screw (flat) | — |

## Circular Saw Guide Mini Free Angle

78217

78179

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78217 | Quick Adjust 30 cm | 439×100×26 | 460 | 4 960910 782174 | 4 (24) | SP |
| 78179 | Ⅱ 30 cm | 439×112×23 | 450 | 4 960910 781795 | 5 | |

# 14. Construction Tools

Packaging: Shrink package, Sleeve package, Box, Bag, Vinyl package + header card, Clear package, Card, Vinyl package, No package

## Stud Finder Smart

Needle : Wall thickness up to **25** mm

78585

Needle : Wall thickness up to **35** mm

78586

Needle : Wall thickness up to **35** mm
Magnet : Wall thickness up to **13** mm / ceiling thickness up to **12** mm

78592

*When finding steel material behind plaster board, the usable area of magnet can vary depending on conditions.

Needle : Wall thickness up to **45** mm

78574

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78585 | 25 mm | 113×21×17.5 | 18 | 4 960910 785854 | 10 | SP |
| 78586 | 35 mm | 133×21×17.5 | 20 | 4 960910 785861 | | |
| 78592 | 35 mm with Magnet | 161.5×21×17.5 | 28 | 4 960910 785922 | | |
| 78574 | 45 mm | 153×21×17.5 | 22 | 4 960910 785748 | | |

### Features

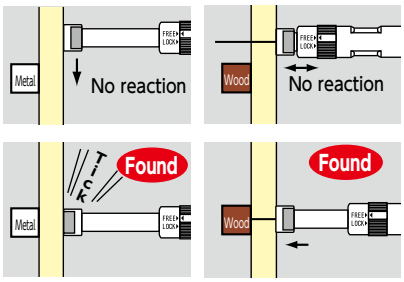
- Needle-type stud finder for plasterboard
- Handy carrying size
- Finds studs behind wall panel easily and accurately
- Graduations to measure the thickness of the wall material approximately
- Includes two replacement needles inside
- Safety lock feature prevents needle from coming out accidentally
- Keeps clean with Antibacterial body

■Magnetic model

- Can detect location of both metal and wooden studs
- Can detect location of nails or metal studs (steel) under the cross without scratching the wall

Detection with magnet
Metal studs can be found from sounds without needle

Detection with needle
Wooden studs can be found by using needle




### Use

- For finding studs behind plaster board

### Specifications

| | |
|---|---|
| Material | Body: ABS resin (with antibacterial agent)<br>Movable Needle Cover: Polycarbonate resin<br>Needle: Stainless steel |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Replacement Needle for Stud Finder Smart

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78594 | 10 pc-pack for Stud Finder Smart 25 mm | φ0.7×70 | – | 4 960910 785946 | 10 | SP |
| 78595 | 10 pc-pack for Stud Finder Smart 35/45 mm | φ0.7×80 | – | 4 960910 785953 | | |

### Use

- For Stud Finder Smart series only (Not compatible with Stud Finder series)

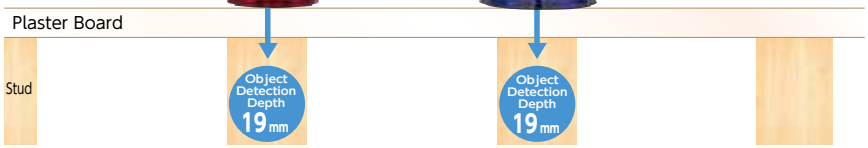
## Stud Sensor

Easy-to-use simple design

With wire detection alarm

78575

78576




Deep mode equipped

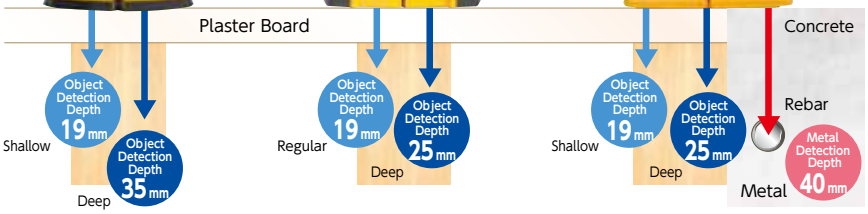
Detect the center of stud instantly

Multi-function all-purpose model

78577

78578

78657




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78575 | Basic | 136×56×35 | 101 | 4 960910 785755 | 5 | SP |
| 78576 | Super | 153×61×42 | 134 | 4 960910 785762 | | |
| 78577 | HG | 169×71×45 | 159 | 4 960910 785779 | | |
| 78578 | HG-Center Finder | 159×78×34 | 155 | 4 960910 785786 | | |
| 78657 | EX | 160×80×30 | 230 | 4 960910 786578 | | |

*Not available in certain areas. Please contact us for details.

### Features

- Detects metal, wood, plastic, and rebar in concrete (only 78657) with light and alarm
- Sensor mode can be changed depending on material and thickness of wall (78577/78578/78657)
- Easy-to-hold and non-slip rubber grip (78577/78578/78657)

### Use

- For finding studs behind walls

### Specifications

| Object | Model \ Material | Veneer + Plaster Board | ALC Board | Concrete | Mortar | Metal |
|---|---|---|---|---|---|---|
| Wood | Basic | ○ * | × | × | × | × |
| | Super | | | | | |
| | HG | | | | | |
| | HG-Center | | | | | |
| | EX | | | | | |
| Metal | Basic | ○ * | × | × | × | × |
| | Super | | | | | |
| | HG | | | | | |
| | HG-Center | | | | | |
| | EX | ○ | ○ | ○ | ○ | × |

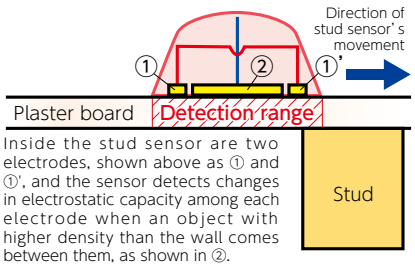
*It is not possible to determine the metal and wood.

| | 78575 | 78576 | 78577 |
|---|---|---|---|
| Material | Body: ABS resin | | |
| Power Source | 1x 9V Alkaline battery (Battery included is for trial use only and may not last as long) | | |
| Object Detection Depth (approximate) | 19 mm | 19 mm | Shallow 19 mm Deep 35 mm |
| Wire Detection Alarm | × | ○ | ○ |
| Center Detection | × | × | × |

| | 78578 | 78657 |
|---|---|---|
| Material | Body: ABS resin | |
| Power Source | 1x 9V Alkaline battery (Battery included is for trial use only and may not last as long) | |
| Object Detection Depth (approximate) | Regular 19 mm Deep 25 mm | Wood 25 mm Metal 40 mm |
| Wire Detection Alarm | ○ | ○ |
| Center Detection | ○ | × |

■Stud sensor's mechanism

- Detects changes in electrostatic capacity




Inside the stud sensor are two electrodes, shown above as ① and ①', and the sensor detects changes in electrostatic capacity among each electrode when an object with higher density than the wall comes between them, as shown in ②.

- Concept of electrostatic capacity

Electrostatic capacity refers to the amount of electric charge that is stored in the two electrodes when a DC current is run between them, and this electrostatic capacity changes when an object approaches one of the electrodes.

## Metal Stud Finder

78674

Wall thickness up to **15** mm

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78674 | Mini | 30×30×31.5 | 13 | 4 960910 786745 | 10 | SP |

**Features**

- Strong magnetic pendulum helps to find metal studs behind a wall or the position of nails or screws without scratching the wallpaper
- Easily detects with magnetic reaction
- Compact and lightweight. Great portability
- Reacts to magnetic pull from any direction with 360° rolling system

**Use**

- For detecting metal studs behind a wall

**Specifications**

| | |
|---|---|
| Material | Body: ABS resin<br>Windshield Cover: Acrylic resin<br>Magnet: Neodymium |

## Tile Percussion Hammer

With strap
(except 74106)

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 74102 | A-1 | 130×18×18 | 71 | 4 960910 741027 | 5 | SP |
| 74103 | A-2 | 165×18×18 | 90 | 4 960910 741034 | | |
| 74104 | A-3 | 220×18×18 | 111 | 4 960910 741041 | | |
| 74105 | A-4 | 300×18×18 | 126 | 4 960910 741058 | | |
| 74106 | B-1 | 147×17.5×17.5 | 61 | 4 960910 741065 | | |

**Features**

- Contracts to pocket size for great portability

**Use**

- For inspecting integrity of tiles

**Specifications**

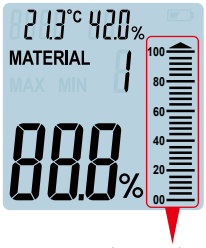
| | 74102 | 74103 | 74104 |
|---|---|---|---|
| Material | Shaft: Stainless steel Grip: Rubber<br>Globe Part: Tool steel Strap: Nylon | | |
| Size | Min - Max<br>130 - 435 mm | Min - Max<br>165 - 725 mm | Min - Max<br>220 - 1,170 mm |
| Globe Part | ϕ17.5 mm | | |

| | 74105 | 74106 |
|---|---|---|
| Material | Shaft: Stainless steel<br>Globe Part: Tool steel<br>Grip: Rubber<br>Strap: Nylon | Shaft: Stainless steel<br>Globe Part: Tool steel |
| Size | Min - Max<br>300 - 990 mm | Min - Max<br>147 - 605 mm |
| Globe Part | ϕ17.5 mm | |

## Digital Moisture Meter for Wood NEW

With protective cap

78636




Know at a glance the numerical value's increase or decrease on the moisture content bar graph

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78636 | with Maximum and Minimum Hold Function | 130×55×29 | 144 | 4 960910 786363 | 1 | B |

**Features**

- Can easily measure the moisture of wood, and supports a wide variety from building materials to firewood
- Backlight function to make LCD screen easy to see even in dark places
- Holds the measured value so the numerical value can be checked even when the LCD screen is hard to see
- Can display the highest/lowest moisture content during measurement

**Use**

- For measuring the moisture content of wood

**Specifications**

| | |
|---|---|
| Measurement Method | Electrical resistance |
| Measurement Range | Moisture content: 6.8 - 60%<br>Temperature: −10 - 50℃*1 Humidity: 10 - 90%*1 |
| Accuracy | Moisture Content: ±2% |
| Use Temperature | −10 - 50℃ |
| Storage Temperature | −40 - 60℃ |
| Resolution | Moisture Content: 0.1% Temperature: 0.1℃ Humidity: 0.1% |
| Auto Power Off | Approx. 10 min.*2 |
| Power Source | 2x AAA batteries<br>(Batteries included are for trial use only and may not last as long) |
| Material | Body: ABS resin, elastomer resin<br>Measuring Probes: Stainless steel<br>Button: Silicone rubber |
| Accessory | Storage case, 2x AAA batteries |

*1 Since the accuracy of the temperature/humidity measurement function cannot be guaranteed, please use as an approximation.
*2 When the device turns off due to the Auto Power Off function, the power button must be pressed twice to turn it on again.

## Fabric Safety Cord

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 80858 | A Black | 660×12×15 | 42 | 4 960910 808584 | 10 | C |
| 80859 | A Orange | 660×12×15 | 42 | 4 960910 808591 | | |
| 80860 | B Black | 680×15×17 | 72 | 4 960910 808607 | | |
| 80861 | B Orange | 680×15×17 | 72 | 4 960910 808614 | | |

### Features

- Cloth-made bellows structure resists tangling
- Swivel rotates 360°
- Resists spreading out when worn on the waist for greater comfort during work

### Use

- To prevent dropping and losing various tools

### Specifications

| | | 80858 | 80859 | 80860 | 80861 |
|---|---|---|---|---|---|
| Material | | Cord: Nylon Swivel: Zinc alloy | | | |
| Cord Size | Natural Length | Approx. 660 mm | | Approx. 680 mm | |
| | Stretched Length | Approx. 1,430 mm | | Approx. 1,450 mm | |
| | Width | 12 mm | | 15 mm | |
| Working Load | | Under 1 kg | | Under 3 kg | |

## Safety Cord

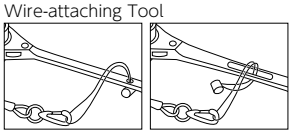
| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 80890 | A | 340×22×10 | 25 | 4 960910 808904 | 10 | SP |
| 80891 | B | 500×30×11 | 73 | 4 960910 808911 | | |

### Features

- Stainless steel wire is used as a core material for better durability, and polyurethane resin provides flexibility

- Comes with wire and ring-attaching tool

Wire-attaching Tool



Ring

### Use

- To prevent tools falling

### Specifications

| | | 80890 | 80891 |
|---|---|---|---|
| Cord Size | Diameter | ϕ1.65 mm | ϕ4.0 mm |
| | Core Diameter | ϕ0.6 mm | ϕ1.0 mm |
| | Length | Approx. 340 mm | Approx. 500 mm |
| | Maximum Extension | Approx. 1,200 mm | Approx. 1,400 mm |
| Working Load | | Under 500 g | Under 1 kg |
| Material | | Cord: Stainless steel, polyurethane resin<br>Wire-attaching Tool:<br>Stainless steel (nylon coating), brass<br>Saddle Snap: Zinc alloy<br>Ring: Iron | |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge | Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

## Folding Square

77840



Legs are detachable.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77840 | 1.8 m | 1,823×80×20 (excluding legs) | 4,300 (Including Legs) | 4 960910 778405 | 1 | B |

Refer to P. 2 about the shaku scale

### Features

●Angle and gradient graduations. Convenient for setting and reading of angle (gradient)

●Detachable legs allow use for layout of leading frames with legs and for marking on foundations or as a bevel without legs. The leg expansion from 50cm to 80 cm helps use with high ground foundations

●Storage case

### Use

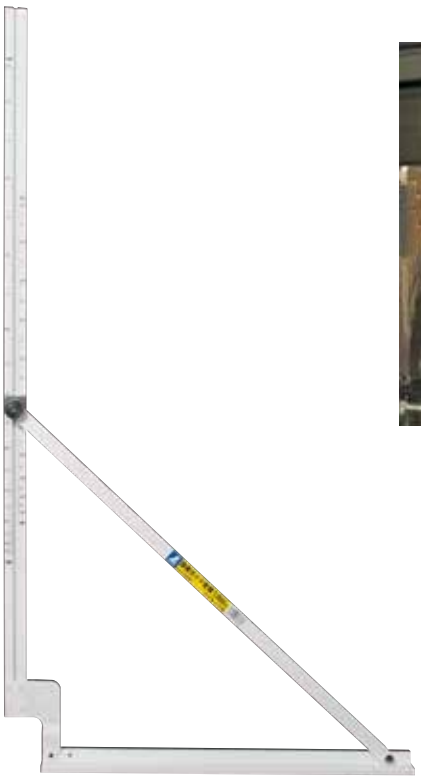
●For layout of leading frames and getting a right angle when marking on foundations

●For marking angle and gradient as a sliding bevel

### Specifications

| | |
|---|---|
| Accuracy | 90°: Less than 1 mm per 1,000 mm (±1.8 mm at 1,800 mm)<br>Other than 90°: No guaranteed accuracy. Please use as a guide. |
| Graduation | Angle: 30 - 90°,<br>Gradient: 0 - 9/10 (9 sun gradient)<br>Flat Gradient: 6/10 - 9/10 (6 sun - 9 sun gradient) |
| Material | Body: Aluminum Legs: Aluminum, stainless steel |
| Body Size (excluding legs) | At 90 degrees: 1,823 × 1,823 × 20 mm |

## Welding Guide Rule



77888

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77888 | 1 m with Magnet | 1,010×550×54 (at 90°degree) | 1,500 | 4 960910 778887 | 1 | B |

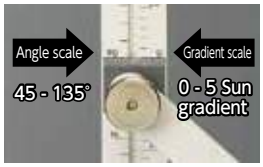
Refer to P. 2 about the shaku scale

### Features

●Insulating coating on the rule surface. This prevents sparks even if welding rods touch it.

●Body is made out of aluminum for light weight and easy use

●Angles can be changed easily. Angle/gradient graduations eliminate the need to make a mold for each building.




●Strong magnet fixes it tightly on a surface

With strong magnet

### Use

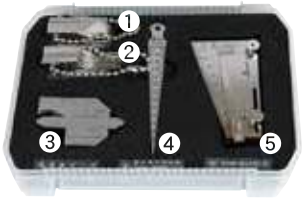
●For tack welding

●For measuring and setting of angle and gradient

### Specifications

| | |
|---|---|
| Accuracy | Perpendicular: 1 mm or less per 1,000 mm |
| Graduation | Angle: 45 - 135°<br>Gradient: Up to 5/10 (5 sun gradient) |
| Material | Body: Aluminum<br>Rivet: Stainless steel |

# Measuring Instrument Set for Steel Fabrication



97575

97794

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 97575 | 5 Items | 234×195×40 | 870 | 4 960910 975750 | 1 | B |
| 97794 | 7 Items | 425×375×70 | 3,600 | 4 960910 977945 | | |

(As a set)

| Item Code | C.D. | Description | Example Usage |
|---|---|---|---|
| 97784 | 6 | ①Bevel Angle Measuring Gauge 9 Leaves (30 - 50°) | Measuring oxygen cutting in manufacture process inspection, bevel angle inspection in beveling edge preparation |
| 97786 | 0 | ②Route Interval Measuring Gauge 9 Leaves (4 - 12 mm) | Measuring oxygen cutting in manufacture process inspection, route side inspection in beveling edge preparation |
| * 58691 | 8 | ③Welding Gauge A | For various welding inspections such as leg length and reinforcement welding |
| * 62600 | 3 | ④Taper Gauge No.700A 1 - 15 mm | Measuring various gap spaces |
| * 58695 | 6 | ⑤Undercut Gauge | Measuring depth of overlay undercut |
| 97788 | 4 | ⑥Joint Offset Measuring Gauge | Measuring joint offset |
| 97790 | 7 | ⑦Flange Bend, Gradient Measuring Gauge | Measuring gap space of flange |

*Listed separately

## Features

●Convenient gauges for appraisal of steel fabrication are packed into handy kit. Helps to have better productivity and prevents loss.

## Use

●For accuracy confirmation of steel frames

## Specifications

■Case

| | 97575 | 97794 |
|---|---|---|
| Material | Polypropylene resin | ABS resin |

■Gauge

①Bevel Angle Measuring Gauge 9 Leaves (30 - 50°)

| | 97784 |
|---|---|
| Material | Stainless steel |
| Accuracy | ±1° |
| Pitch | 2.5° |
| Body Size | 30 × 65 × 18 mm |
| Weight | 226 g |

②Route Interval Measuring Gauge 9 Leaves (4 - 12 mm)

| | 97786 |
|---|---|
| Material | Stainless steel |
| Accuracy | ±0.1 mm |
| Pitch | 1 mm |
| Body Size | 20 × 65 × 18 mm |
| Weight | 134 g |

③Welding Gauge (Refer to P. 149)

④Taper Gauge (Refer to P. 154)

⑤Undercut Gauge (Refer to P. 149)

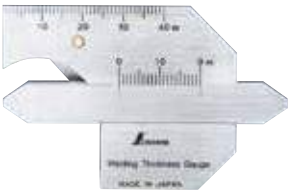
⑥Joint Offset Measuring Gauge

| | 97788 |
|---|---|
| Material | Stainless steel |
| Accuracy | Gap of less than 0.5 mm |
| Body Size | 65 × 230 × 35 mm |
| Weight | 620 g |

⑦Flange Bend Gauge

| | 97790 |
|---|---|
| Material | Stainless steel |
| Accuracy | Straightness of less than 0.2 mm, squareness of less than 0.5 mm/140 mm |
| Body Size | 217 × 335 × 12 mm |
| Weight | 794 g |

# Welding Gauge



58691

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 58691 | A | 70.5×48×7 | 85 | 4 960910 586918 | 5 | SP |

## Features

●Compact size convenient for carrying
●Able to measure easily, swiftly, and accurately

## Use

●For various welding inspections such as leg length and reinforcement welding

## Specifications

| | |
|---|---|
| Accuracy | Gap /Length: Less than ±0.2 mm (in 20 mm, 40 mm)<br>Angle: ±1.5° or less |
| Material | Stainless steel |

# Undercut Gauge

58695

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 58695 | Undercut Gauge | 115×58×18 | 86 | 4 960910 586956 | 1 | B |

## Features

●Stable foundation for easy readout

## Use

●For undercut depth measurement of weld overlay

## Specifications

| | |
|---|---|
| Accuracy | ±0.05 mm (1.0 mm or less) |
| Material | Stainless steel, brass, iron |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Crack Scale

58699

58697

58698

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 58699 | Card Type | 55×91×0.3 | 12 | 4 960910 586994 | 10 (50) | Ⓑ |
| 58698 | Rule Type 15 cm | 175×15×0.5 | 10 | 4 960910 586987 | | |
| 58697 | Clear Type | 55×91×0.2 | 1 | 4 960910 586970 | | |

**Features**

- Card and 15 cm rule models are made of stainless steel for rigidity and durability
- Clear model allows easy matching (or measuring) of cracks

**Use**

- For inspection of concrete cracks in walls and foundations

**Specifications**

| | 58699 | 58698 | 58697 |
|---|---|---|---|
| Measuring Range | Clearance: 0.10 - 1.40 mm Length: 0 - 80 mm | Clearance: 0.10 - 2.20 mm Length: 0 - 150 mm | Clearance: 0.03 - 2.20 mm Length: 0 - 80 mm |
| Accuracy | ±0.05 mm | | ±0.02 mm |
| Material | Stainless steel | | Polyester |

## Profile Gauge

77970

77971

77984

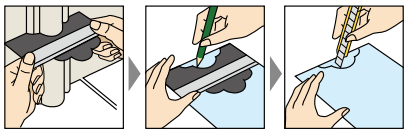
| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77970 | A 150 mm | 150×84×18 | 230 | 4 960910 779709 | 6 | Ⓢⓟ |
| 77971 | B 300 mm | 300×150×31 | 977 | 4 960910 779716 | 4 | |
| 77984 | C 200 mm | 203×120×22 | 465 | 4 960910 779846 | 5 | |

**Features**

- Gauge adapts to any shape
- Rust-resistant stainless steel pins

**Use**

- For shaping the angles of carpets/mats and curves in wood or steel



Fit the item into the object → Draw a line along the shape → Cut the object along the line

**Specifications**

| | 77970 | 77971 | 77984 |
|---|---|---|---|
| Usable Range | Approx. 148 × 49 mm (width × depth) | Approx. 293 × 106 mm (width × depth) | Approx. 190 × 81 mm (width × depth) |
| Numbers of Strings | Approx. 185 pcs | Approx. 280 pcs | Approx. 195 pcs |
| String Size | ϕ0.8 × 84 mm | ϕ1.0 × 150 mm | ϕ1.0 × 120 mm |
| Material | Pins: Stainless steel | | |

## Log Scriber

1 pc Scribing Ink Pencil included

77590

77597

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77590 | Log Scriber | 250×55×70 | 350 | 4 960910 775909 | 1 | Ⓢⓟ |
| 77597 | Replacement Scribing Ink Pencil 2 pc-pack for Log Scriber | ϕ75×183 | 7 | 4 960910 775978 | | Ⓑ |

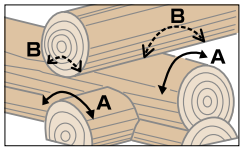
**Features**

- Essential compass for scribing to build a log house
- Works as double scriber by replacing the needle with a Scribe Ink Pencil
- Level on the front for better visibility when scribing
- Line drawn by a Scribe Ink Pencil is black and can be erased. If it gets wet, the line turns to blue and cannot be erased.
- Fine adjustment simple even after fixing scribe width

**Use**

- For scribing around lumber when building a log house

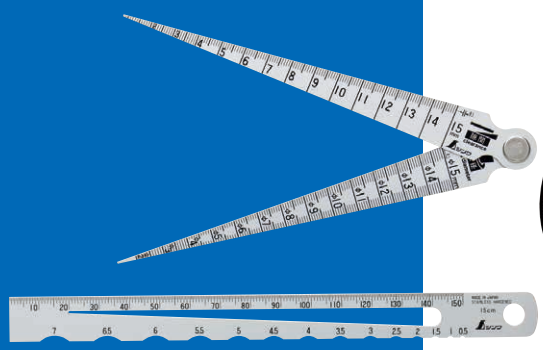
*Scribe the roundness of lower log to upper log. Scribe on A with needle and draw a line to B by holding Double Scriber horizontally.




**Specifications**

| | |
|---|---|
| Material | Body: Stainless steel<br>Level Body: ABS resin |
| Level | Sensitivity: 0.5 mm/m = ±0.0286°<br>Accuracy: ±2.5 mm/m = less than ±0.1432° |

# 15. Industrial Tools



Packaging: Shrink package (S), Sleeve package (SP), Box (B), Bag (B), Vinyl package + header card (VH), Clear package (C), Card (C), Vinyl package (V), No package

## Scribing Needle

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78638 | A | 155×6×6 | 36 | 4 960910 786387 | 10 | SP |
| 78646 | B | 217×24×7 | 38 | 4 960910 786462 | | |
| 78654 | C | 140×11×8 | 12 | 4 960910 786547 | | |
| 74444 | D | 128×10×10 | 31 | 4 960910 744448 | | |
| 74445 | E | 131×9.5×7.5 | 11 | 4 960910 744455 | | |

### Features

■A
●Comes with superhard chip

■B
●Comes with superhard chip

■C
●Comes with superhard chip
●Needle can retract for good portability
●Needle can be replaced

■D
●Compact and can be stored easily in a tool box
●Needle can be replaced

■E
●Needle can retract for good portability
●Needle can be replaced
●Needle retracts by turning body

### Use

●For scribing on general metal material, plastic, and wood

### Specifications

| | 78638 | 78646 | 78654 |
|---|---|---|---|
| Material | Body: Iron | | Body: ABS resin |
| | Tip: Superhard chip | | |

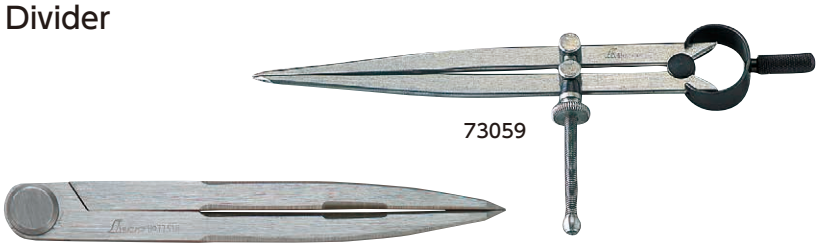
| | 74444 | 74445 |
|---|---|---|
| Material | Body: Brass | |
| | Tip: Tungsten steel | |

## Replacement of Scribing Needle

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78650 | 2 pc-pack for C | 40×2×2 | 1 | 4 960910 786509 | 10 | SP |
| 74468 | 1 pc for D | 64×3.5×3.5 | 4 | 4 960910 744684 | | |
| 74469 | 1 pc for E | 118×5×5 | 2 | 4 960910 744691 | | |

JIS JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

# Divider



73059

77518

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77518 | A 15 cm | 150×18×12.5 | 112 | 4 960910 775183 | 5 | Ⓢ |
| 77526 | B 20 cm | 200×19×12.5 | 180 | 4 960910 775268 | | |
| 77517 | C 10 cm | 100×17×12.5 | 70 | 4 960910 775176 | | |
| 77536 | D 25 cm | 250×21×12.5 | 240 | 4 960910 775367 | | |
| 77537 | E 30 cm | 300×21×12.5 | 290 | 4 960910 775374 | 3 | |
| 73059 | A 15 cm with Spring | 195×80×17.5 | 90 | 4 960910 730595 | 5 | |
| 73067 | B 20 cm with Spring | 250×94×17.5 | 112 | 4 960910 730670 | | |
| 33950 | SD-6 15 cm with Spring* | 200×85×20 | 90 | 4 960910 339507 | 1 | [B] |
| 33951 | SD-8 20 cm with Spring* | 250×100×20 | 112 | 4 960910 339514 | | |
| 33952 | SD-10 25 cm with Spring* | 310×120×25 | 161 | 4 960910 339521 | | |
| 33953 | SD-12 30 cm with Spring* | 360×120×25 | 184 | 4 960910 339538 | | |

*SD-6, 8, 10 and 12 are made-to-order items

## Features

- Hard coating is applied on the tip
- Spring models allow easy fine-adjustment with screw

## Use

- For scribing circles or copying measurement of items

## Specifications

■Divider

| | 77518 | 77526 | 77517 | 77536 | 77537 |
|---|---|---|---|---|---|
| Material | Carbon steel (superhard chip tip) | | | | |
| Usable Range | 150 mm (Radius) | 200 mm (Radius) | 100 mm (Radius) | 250 mm (Radius) | 300 mm (Radius) |

■Divider with Spring

| | 73059 | 73067 |
|---|---|---|
| Material | Carbon steel (Hardened tip) | |
| Usable Range | 150 mm (Radius) | 200 mm (Radius) |

| | 33950 | 33951 |
|---|---|---|
| Material | Carbon steel (Hardened tip) | |
| Usable Range | 150 mm (Radius) | 200 mm (Radius) |

| | 33952 | 33953 |
|---|---|---|
| Material | Carbon steel (Hardened tip) | |
| Usable Range | 250 mm (Radius) | 300 mm (Radius) |

# Divider with Super Hard Chip

77520

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77520 | A-2 15 cm | 150×22×19 | 130 | 4 960910 775206 | 5 | Ⓢ |
| 77521 | B-2 20 cm | 200×22×22.5 | 230 | 4 960910 775213 | | |
| 77516 | C-2 10 cm | 100×17×16 | 70 | 4 960910 775169 | | |
| 77543 | D-2 25 cm | 250×23×24 | 320 | 4 960910 775435 | | |
| 77545 | E-2 30 cm | 300×28×23 | 460 | 4 960910 775459 | 3 | |
| 77546 | F-2 40 cm | 400×27×25 | 785 | 4 960910 775466 | 1 | [B] |

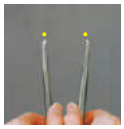
## Features

- Scribes on hard metal even with hard chrome plate finish or heat treatment
- Long-lasting tip

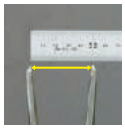
Superhard chip tip

## Use

- For scribing circles or copying measurement of items



Copying measurement



Reading measurement

Dividing equally

## Specifications

| | 77520 | 77521 | 77516 | 77543 | 77545 | 77546 |
|---|---|---|---|---|---|---|
| Material | Carbon steel (Hardened tip) | | | | | |
| Usable Range | 150 mm (Radius) | 200 mm (Radius) | 100 mm (Radius) | 250 mm (Radius) | 300 mm (Radius) | 400 mm (Radius) |

# One-side Caliper

73250

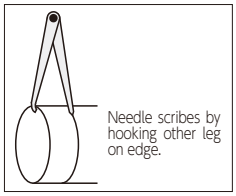
| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73250 | A 15 cm | 160×18×12 | 46 | 4 960910 732506 | 10 | Ⓢ |

## Features

- Tip of one leg is shaped as needle
- Scribe on a uneven surface

## Use

- As a scribing tool

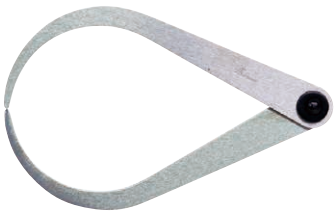



## Specifications

| | |
|---|---|
| Material | Carbon steel (Hardened tip) |
| Usable Range | 150 mm (Radius) |

## Outside Caliper

33958



73318

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73318 | A 15 cm | 165×100×12 | 62 | 4 960910 733183 | 10 | SP |
| 73326 | B 20 cm | 213×120×12 | 77 | 4 960910 733268 | 1 | |
| 33958 | OC-6 15 cm with Spring * | 175×100×20 | 83 | 4 960910 339583 | 1 | B |
| 33959 | OC-8 20 cm with Spring * | 225×130×20 | 98 | 4 960910 339590 | | |
| 33960 | OC-10 25 cm with Spring * | 285×160×25 | 153 | 4 960910 339606 | | |
| 33961 | OC-12 30 cm with Spring * | 340×160×25 | 178 | 4 960910 339613 | | |

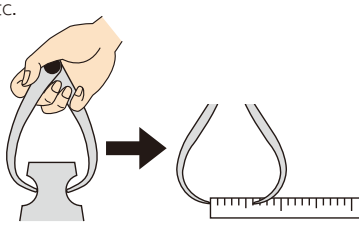
*OC-6, 8, 10 and 12 are made-to-order items.

### Features

●For outer dimension measurement that cannot be measured by vernier caliper

### Use

●For taking readings of outer dimensions, etc.



### Specifications

| | 73318 | 73326 |
|---|---|---|
| Material | Carbon steel | |
| Usable Range | 150 mm (Radius) | 200 mm (Radius) |

| | 33958 | 33959 |
|---|---|---|
| Material | Carbon steel | |
| Usable Range | 150 mm (Radius) | 200 mm (Radius) |

| | 33960 | 33961 |
|---|---|---|
| Material | Carbon steel | |
| Usable Range | 250 mm (Radius) | 300 mm (Radius) |

## Inside Caliper

73253

33954

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73253 | A 15 cm | 165×20×11.5 | 51 | 4 960910 732537 | 10 | SP |
| 73261 | B 20 cm | 210×18×11.5 | 60 | 4 960910 732612 | 1 | |
| 33954 | IC-6 15 cm with Spring * | 175×85×20 | 94 | 4 960910 339545 | 1 | B |
| 33955 | IC-8 20 cm with Spring * | 225×100×20 | 123 | 4 960910 339552 | | |
| 33956 | IC-10 25 cm with Spring * | 285×120×25 | 178 | 4 960910 339569 | | |
| 33957 | IC-12 30 cm with Spring * | 340×120×25 | 209 | 4 960910 339576 | | |

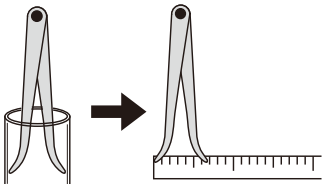
*IC-6, 8, 10 and 12 are made-to-order items.

### Features

●For inner dimension measurement of a pipe or hole

### Use

●For taking readings of inner dimensions, etc.



### Specifications

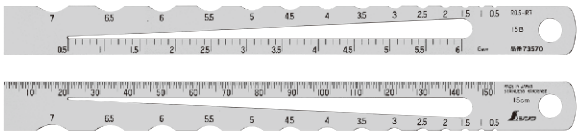
| | 73253 | 73261 |
|---|---|---|
| Material | Carbon steel | |
| Usable Range | 150 mm (Radius) | 200 mm (Radius) |

| | 33954 | 33955 |
|---|---|---|
| Material | Carbon steel | |
| Usable Range | 150 mm (Radius) | 200 mm (Radius) |

| | 33956 | 33957 |
|---|---|---|
| Material | Carbon steel | |
| Usable Range | 250 mm (Radius) | 300 mm (Radius) |

## Radius Scale

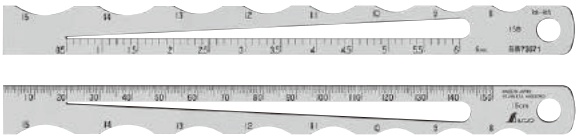
73570



Back

Front

73571



Back

Front

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73570 | A-1 R 0.5 - 7 | 175×15×0.5 | 7.5 | 4 960910 735705 | 10 | SP |
| 73571 | A-2 R 8 - 15 | 175×15×0.5 | 7.5 | 4 960910 735712 | | |

### Features

●1 scale can be used as an R gauge, diameter gauge, and as a rule
●Easy to pull out and measure due to its compact size

### Use

●Measurement of R, measurement of diameter and sheet thickness, and measurement of length

R measurement

Diameter and sheet thickness measurement (Reverse)

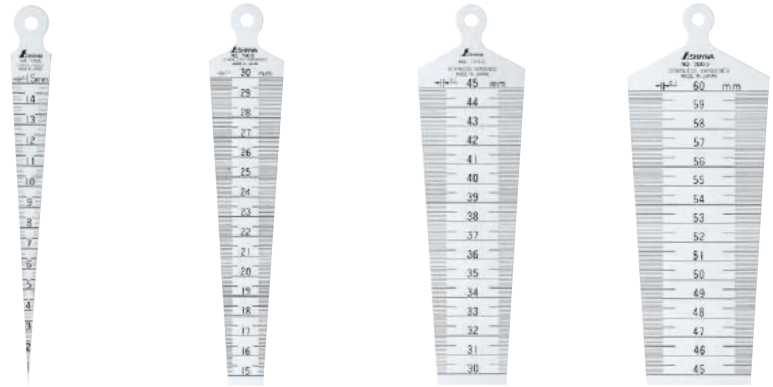
Length measurement (Front side)

### Specifications

| | 73570 | 73571 |
|---|---|---|
| Material | Stainless steel | |
| Accuracy | Radius Gauge: ±0.1 mm<br>Diameter Gauge: ±0.05 mm<br>Straight Rule: ±0.15 mm | |
| Measuring Range | Radius Gauge: R 0.5 - 7 mm<br>Diameter Gauge: 0.5 - 6 mm<br>Straight Rule: 0 - 150 mm | Radius Gauge: R 8 - 15 mm<br>Diameter Gauge: 0.5 - 6 mm<br>Straight Rule: 0 - 150 mm |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

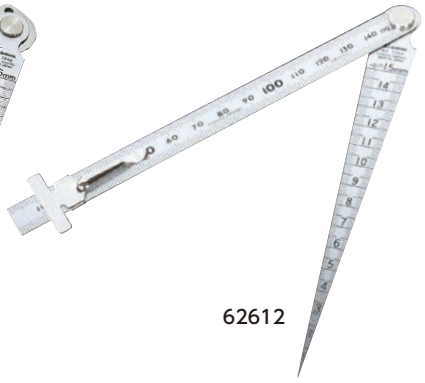
# Taper Gauge



62600 62605 62610 62615

Easy carrying

62603



62612

Front

62620

Back

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 62600 | No.700 A 1 - 15 mm | 148×17×1.2 | 11 | 4 960910 626003 | 10 | Ⓢ |
| 62605 | No.700 B 15 - 30 mm | 154×31×1.2 | 29 | 4 960910 626058 | | |
| 62610 | No.700 C 30 - 45 mm | 160×46×1.2 | 50 | 4 960910 626102 | 1 | |
| 62615 | No.700 D 45 - 60 mm | 162×60×1.2 | 70 | 4 960910 626157 | | |
| 62603 | 1 - 15 mm with Metal Case | 155×20×6 (During storage) | 25 | 4 960910 626034 | 10 | |
| 62612 | 1 - 15 mm with Rule | 160×26×4.5 (During storage) | 21 | 4 960910 626126 | | |
| 62620 | Double 1 - 15 mm for Clearance, Hole Diameter, Length | 144×16.3×5.5 | 25 | 4 960910 626201 | | |

## ■Taper Gauge No.700 and with Metal Case

### Features

●Error occurs with the thickness of the gauge itself when measuring a circular hole. Inner diameter revision chart is on the back for better accuracy (62600/62603)

●Formula for revision

$$\text{Inner diameter (B)} = \sqrt{\text{reading value (A)}^2 + 1.44}$$

Thickness of Taper Gauge (1.2 mm)

### Use

●For measurement of inner diameter or dimension of gap

Inner dimension measurement

Clearance gap measurement

### Specifications

| | 62600 | 62605 | 62610 | 62615 | 62603 |
|---|---|---|---|---|---|
| Thickness | 1.2 mm | | | | |
| Accuracy | ±0.05 mm | | | | |
| Measuring Range | 1 - 15 mm | 15 - 30 mm | 30 - 45 mm | 45 - 60 mm | 1 - 15 mm |
| Material | Stainless steel | | | | |
| Hardness | Hv400 or more | | | | |

## ■Taper Gauge with Rule

### Features

●Error occurs with the thickness of the gauge itself when measuring a circular hole. Inner diameter revision chart is on the back for better accuracy.
●Convenient portable tool combines taper gauge and rule
●Clip comes in handy for measuring depth or hanging in a pocket

### Use

●For measurement of inner diameter or dimension of gap
●For measuring length and depth

### Specifications

| | Taper Gauge | Rule |
|---|---|---|
| Accuracy | ±0.05 mm | ±0.15 mm |
| Measuring Range | 1 - 15 mm | 0 - 150 mm |
| Material | Stainless steel | |
| Hardness | Hv400 or more | |

## ■Taper Gauge Double

### Features

●Thickness when the two blades are aligned together enables stable vertical insertion that keeps measurement reference side from slipping

Unstable and wobbly with one blade

●With graduations that can be easily read simply by aligning along one side of the gap
●Hole diameter measurement graduations already compensate for error in the sheet thickness, making tedious conversion unnecessary

### Use

●For measurement of inner diameter or dimension of gap
●For measuring length and depth

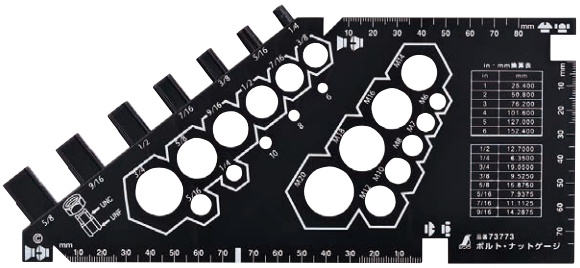
### Specifications

| | |
|---|---|
| Accuracy | Clearance: ±0.05 mm* Hole Diameter: ±0.05 mm Length: ±0.15 mm |
| Measuring Range | Clearance: 1 - 15 mm Hole Diameter: ϕ2 - 15 mm Length: 0 - 120 mm |
| Material | Stainless steel |
| Hardness | Hv400 or more |

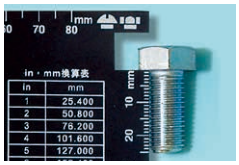
*Precision is ±0.1 mm when the two blades are together.

JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

## Bolt and Nut Gauge



73773

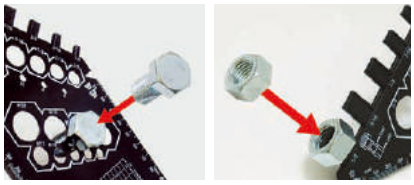


*Easily measures the length as well

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73773 | Bolt and Nut Gauge | 107×237×6 | 55 | 4 960910 737730 | 10 | SP |

### Features

- Easily measure size of nut bolt just by putting on the gauge
- Measures different shapes of screws
- Inch/mm converting chart



### Use

- For measuring size of bolt and nut

### Specifications

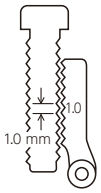
| | |
|---|---|
| Material | ABS resin |

## Pitch Gauge

73794

16 threads screw per 1 inch

73795




1.0 mm pitch screw

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73794 | A-2 for Inch Screw Thread 26 Leaves | 68×18×15 | 42 | 4 960910 737945 | 10 | SP |
| 73795 | B-2 for Metric Screw Thread 28 Leaves | 68×18×15 | 44 | 4 960910 737952 | | |

### Features

- Finds pitch by aligning to screw thread

### Use

- For pitch measurement of general screws

| | | |
|---|---|---|
| Inch | Indicates the number of threads per 1 inch on leaf | 4 - 60 |
| Metric | Indicates pitch in between two threads on leaf | 0.25 - 2.5 mm |

### Specifications

| | 73794 | 73795 |
|---|---|---|
| Material | Carbon tool steel | |
| Angle | 55° (for whitworth screw thread) | 60° |
| Leaf | 26 leaves (Number of threads per 1 inch) 4, 4 1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 40, 48, 60 | 28 leaves (mm) 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 1.0, 1.1, 1.2, 1.25, 1.3, 1.4, 1.5, 1.6, 1.7, 1.75, 1.8, 1.9, 2.0, 2.5 |

## Feeler Gauge

73776

73780

73781

73782

73796

73797

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73776 | A 75 mm 9 Leaves | 81×13×5 | 20 | 4 960910 737761 | 10 | SP |
| 73780 | B 100 mm 9 Leaves | 109×13×5 | 27 | 4 960910 737808 | | |
| 73781 | C 150 mm 9 Leaves | 156×13×5 | 40 | 4 960910 737815 | | |
| 73782 | D 65 mm 25 Leaves | 70×14×15 | 63 | 4 960910 737822 | 5 | |
| 73796 | E 100 mm 25 Leaves | 105×13×17 | 95 | 4 960910 737969 | | |
| 73797 | F 150 mm 25 Leaves | 153×13×17 | 140 | 4 960910 737976 | | |

### Features

- Variety of different length and leaves available

### Use

- For clearance gap measurement

### Specifications

| | 73776 | 73780 | 73781 | 73782 | 73796 | 73797 |
|---|---|---|---|---|---|---|
| Material | Carbon tool steel | | | | | |
| Thickness Tolerance | Over 0.03 mm below 0.15 mm: ±0.005 mm<br>Over 0.15 mm below 0.50 mm: ±0.012 mm<br>Over 0.50 mm below 3.00 mm: ±0.020 mm | | | | | |
| Leaf Thickness (mm) | 0.30 0.06 0.10 | 0.04 0.07 0.15 | 0.05 0.08 0.20 | 1.00 0.05 0.08 0.11 0.14 0.25 0.40 0.60 0.90 | 0.03 0.06 0.09 0.12 0.15 0.30 0.45 0.75 | 0.04 0.07 0.10 0.13 0.20 0.35 0.50 0.80 |

*Thickness tolerance is the tolerance for one leaf. In the case of use with multiple leaves, the tolerance is added together.

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Digital Thickness Caliper

73746

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73746 | A 0.01 mm/10 mm with Handle | 125×100×26 | 216 | 4 960910 737464 | 1 | SP |

### Features

- Digital display for quick reading
- Easy-to-read 12 mm character height LCD
- ZERO set switch gives a reference point and makes comparison measurement
- Large handle makes easy holding
- Special case included

### Use

- For measuring thin objects such as cloth or leather

### Specifications

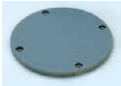
| | |
|---|---|
| Measuring Range | 0 - 10 mm |
| Graduation | 0.01 mm |
| Indication Error | ±0.02 mm |
| Maximum Insert Depth | 30 mm |
| Measuring Force | 1.1 N or less |
| Parallelism between Gauge Head and Anvil | ±8 μm |
| Diameter of Gauge Head and Anvil | ϕ10 mm |
| Power Source | 1x Silver oxide Battery SR44 (Battery included is for trial use only and may not last as long) |
| Auto Power Off | Approximately 5 min. |
| Material | Body: ABS resin<br>Lever: Iron<br>Handle: Cast iron<br>Spindle, Gauge Head, Anvil: Stainless steel |

## Dial Gauge

73750

ϕ5.2 mm

With lug
Hole diameter ϕ6.5 mm



Accessory: Flat lid

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73750 | 0.01 mm/10 mm | 107×55×44 | 100 | 4 960910 737501 | 3 | SP |

### Features

- Convenient lug to install on magnetic stand

### Use

- To measure flatness
- To measure parallelism
- To measure irregularity

### Specifications

| | |
|---|---|
| Graduation | 0.01 mm |
| Measuring Range | 0 - 10 mm |
| Outer Diameter | ϕ55 mm |
| Dial Reading | ±0 - 50 - 100 |
| Whole Measuring Range Indication Error | ±18 μm |
| Retrace Error | 5 μm |
| Adjacent Pitch Error | 8 μm |
| Measuring Force | 1.5 N or less |
| Material | Outer frame: ABS resin<br>Graduation Plate, Stem: Aluminum<br>Graduation Plate Cover: Acrylic resin<br>Clamp, Gauge Head: Brass<br>Limiter: ABS resin<br>Spindle: Stainless steel |

## Dial Indicator

73751

ϕ2.0 mm

Holds onto magnet stand by installing stem (included)

ϕ8 mm

ϕ6 mm

Accessory: Stem with dovetail × 2

Gauge head spanner

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73751 | 0.01 mm/0.8 mm | 77×39×25 | 44 | 4 960910 737518 | 3 | SP |

### Features

- Two convenient stems are included

### Use

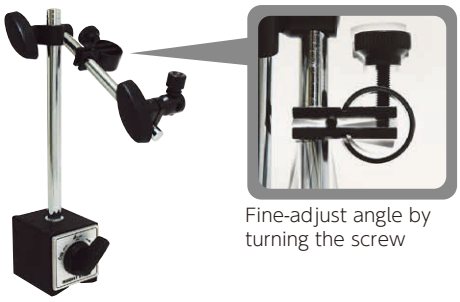
- To measure flatness
- To measure parallelism
- To measure irregularity

### Specifications

| | |
|---|---|
| Graduation | 0.01 mm |
| Measuring Range | 0 - 0.8 mm |
| Outer Diameter | ϕ38.5 mm |
| Dial Reading | 0 - 40 - 0 |
| Wide Range Accuracy | 13 μm |
| Retrace Error | 3 μm |
| Adjacent Pitch Error | 5 μm |
| Measuring Force | 0.4 N or less |
| Material | Outer Frame: Aluminum<br>Graduation Plate: Aluminum<br>Graduation Plate Cover: Acrylic resin<br>Stem: Brass, stainless steel<br>Gauge Head: Stainless steel |

## Magnetic Stand

73752



73753

Fine-adjust angle by turning the screw

| Item Code | Description | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|
| 73752 | A Standard | 1,340 | 4 960910 737525 | 1 | B |
| 73753 | A-2 Fine adjustment | 1,365 | 4 960910 737532 | | |

### Features

- Strong magnet to enable stable measurement

### Use

- For holding Dial Gauge/Dial Indicator

### Specifications

| | 73752 | 73753 |
|---|---|---|
| Magnet Base | L58 × W50 × H55 mm | |
| Central Pillar | ϕ12 × 176 mm | |
| Supportive Pillar | ϕ10 × 165 mm | ϕ10 × 150 mm |
| Installation Hole | ϕ6.0/8.1 mm | |
| Adsorption Force | 600 N (60 kgf)* | |
| Material | Body: Iron<br>Lever, Screw: ABS resin | |

*Please take extra care because absorption force varies greatly depending on thickness and material of object

## Large Inspection Mirror

75796

75797




The knob easily fixes the position of the mirror

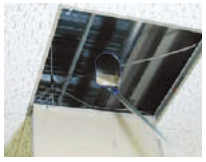
| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75796 | C-1 1.2 m Oval 80 x 120 mm | 0.5 - 1.2 | 500 | 4 960910 757967 | 1 | SP |
| 75797 | C-2 2.5 m Oval 120 x 150 mm | 0.95 - 2.5 | 750 | 4 960910 757974 | | |

### Features

- Light and durable acrylic resin mirror
- Easy-to-hold elastomer resin grip
- Three-step telescopic function makes it easy to store

### Use

For inspection under a car body



For inspection in ceiling

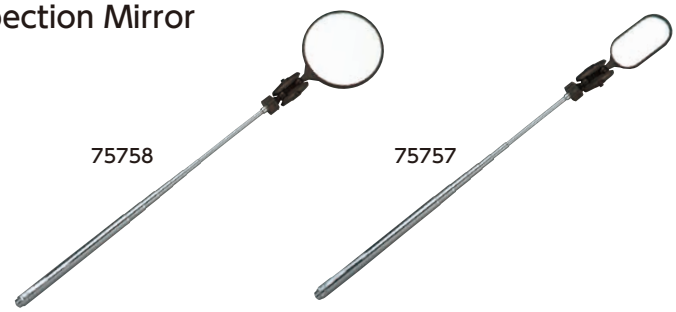
For inspection of machines

For inspection of sewer pipes

### Specifications

| | |
|---|---|
| Material | Body: Aluminum, iron, ABS resin, nylon resin, elastomer resin<br>Mirror: Acrylic resin |

## Inspection Mirror




| Item Code | Description | Shaft Length (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75758 | A-1 Circle 60 mm | 530 | 53 | 4 960910 757585 | 10 | SP |
| 75759 | A-2 Circle 36 mm | 600 | 40 | 4 960910 757592 | | |
| 75756 | A-3 Oval 50 x 80 mm | 530 | 56 | 4 960910 757561 | | |
| 75757 | A-4 Oval 25 x 50 mm | 600 | 42 | 4 960910 757578 | | |

### Features

- Mirror angle can be easily adjusted
- Telescopic handle gives access to hard-to-see places

### Use

- For inspection or observation of car engines, inside and behind machines, etc.

### Specifications

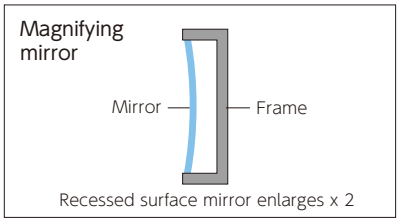
| | |
|---|---|
| Material | Shaft: Brass<br>Mirror Frame: ABS resin<br>Mirror: Glass |

## Magnifying Mirror

| Item Code | Description | Shaft Length (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75790 | B-1 Circle 60 mm 2x | 530 | 53 | 4 960910 757905 | 10 | SP |
| 75791 | B-2 Circle 36 mm 2x | 600 | 40 | 4 960910 757912 | | |
| 75788 | B-3 Oval 50 x 80 mm 2x | 530 | 56 | 4 960910 757882 | | |
| 75789 | B-4 Oval 25 x 50 mm 2x | 600 | 42 | 4 960910 757899 | | |

### Features

- Mirror angle can be easily adjusted
- Telescopic handle gives access to hard-to-see places




### Use

- For inspection or observation of car engines, inside and behind machines, etc.

### Specifications

| | |
|---|---|
| Material | Shaft: Brass<br>Mirror Frame: ABS resin<br>Mirror: Glass |

## Inspection Mirror with LED Light

| Item Code | Description | Shaft Length (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 74155 | D-1 Circle 60 mm | 530 | 70 | 4 960910 741553 | 10 | SP |
| 74156 | D-2 Circle 36 mm | 530 | 55 | 4 960910 741560 | | |
| 74157 | D-3 Oval 50 x 80 mm | 530 | 73 | 4 960910 741577 | | |
| 74158 | D-4 Oval 25 x 50 mm | 530 | 57 | 4 960910 741584 | | |

### Features

- Clear vision even in a dark and tight place
- High brightness LED light shines a light on inspection point by reflecting light in the mirror

- Compact for easy carrying
- Shaft can be extended in seven steps

Folded Approx. 160 mm
D-1

### Use

- For inspection or observation of car engines, inside and behind machines, etc.

### Specifications

| | |
|---|---|
| Material | Shaft: Brass<br>Mirror: Glass, ABS resin<br>Light: ABS resin |
| Power Source | 3x Alkaline batteries LR44 (included)<br>(Batteries included are for trial use only and may not last as long) |
| Luminosity | 30,000 mcd<br>*Varies depending on usage situation |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Inspection Scope NEW

Camera head diameter 5.8 mm | Sends video 10 m (Maximum line-of-sight distance)

74172

Camera head diameter 9.0 mm | Sends video 10 m (Maximum line-of-sight distance)

74173

Carry case

*Product is based on Japan domestic radio law (compatible with technical regulation conformity specification.) Cannot be used outside of Japan.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 74172 | A φ 5.8 Wireless 3.5 Inch LCD | 200×105×215 (Excluding cable) | 564 | 4 960910 741720 | 1 | B |
| 74173 | B φ 9 Wireless 3.5 Inch LCD | 200×105×215 (Excluding cable) | 663 | 4 960910 741737 | | |

## Inspection Scope Option NEW

Camera head diameter 5.8 mm

74175

Camera head diameter 9.0 mm

74176

74178

74179

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 74175 | Camera head φ 5.8 x 1 m | φ19×1,000 | 92 | 4 960910 741751 | 1 | B |
| 74176 | Camera head φ 9 x 1 m | φ19×1,000 | 191 | 4 960910 741768 | | |
| 74178 | Extension Cable 2 m | φ19×2,060 | 550 | 4 960910 741782 | | |
| 74179 | Extension Cable 5 m | φ19×5,060 | 1,360 | 4 960910 741799 | | |

### Features

- For inspection/checking in places that are narrow or difficult to see

### Use

- Video can be sent to the monitor wirelessly for viewing close at hand

- Videos and still images can be saved to a MicroSD card (sold separately) and transferred to a computer, etc.

- Features a zoom function that can magnify at 5 levels, actual size, 1.5x, 2x, 2.5x, and 3x
- Cable can be bent freely and inserted into the inspection area regardless of how it is bent
- Features a high-brightness LED light with the ability to variably adjust illuminance using the switch at hand
- 74173 comes with tip tools that can be used for various purposes, such as attaching a hook or magnet to pick up fallen objects, or checking reverse sides with a side view mirror

Hook

Magnet

Side view mirror

### Specifications

| | 74172 | 74173 |
|---|---|---|
| Camera Head Diameter | 5.8 mm | 9 mm |
| Cable System | Inter-lock model | |
| Cable Diameter | 4.8 mm | 7.5 mm |
| Cable Length | 1 m | |
| Lens Focal Distance | 30 - 80 mm | 80 - 150 mm |
| Lens Viewing Angle | 40° | 43° |
| Wireless Transmission Function | Transmission Frequency: 2468 MHz<br>Bandwidth: 18 MHz<br>Communication Range: Maximum of 10 m (Line-of-sight distance*1) | |
| Zoom Function | 1x, 1.5x, 2x, 2.5x, 3x | |
| Record Function | Still image, movie | |
| Video Output Format | NTSC*2 | |
| Recording Memory | MicroSD card up to 32 GB (sold separately) | |
| Illumination | High-brightness White LED (Light amount can be variably adjusted) | |
| Camera Resolution | 640 X 480 pixel*3 | |
| Monitor | 3.5 inch (Color LCD), 320 X 240 pixel definition*4 | |
| Interface | AV output (NTSC), USB output (Recorded video, still image playback) | |
| Dusrproof/ Waterproof | Camera head to cable: IP67*5<br>Main body: Not dustproof/waterproof | |
| Operating Temperature | 0 - 40℃ | |
| Operating Humidity | 15 - 85% (No bedewing) | |
| Power Source (Main Unit) | 4X AA Alkaline batteries (sold separately) | |
| LED Continuous Lighting Time | About 2 hours | |
| Power Source (Monitor) | DC rechargeable (time required for full charge: about 4 hours) | |
| Tip Tool | Unsupported | Hook, Magnet, Side view mirror |
| Material | Handle/Monitor: ABS resin, elastomer resin<br>Camera Cable: Stainless steel, glass | |

*1 This is the maximum distance for communication in an unobstructed environment where there is a straight line between the main unit and the LCD monitor. *2 An abbreviation for the video signal standard named after the National Television System Committee *3 Resolution density of the camera itself *4 Number of pixels on the display *5 Dustproof/Waterproof Performance Dustproof performance 6: Dust will not penetrate. Waterproof performance 7: Even if temporarily (within 30 minutes) submerged at a constant water depth (within 1 m), water will not enter inside.

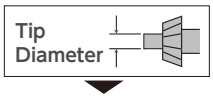
JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Chuck Wrench

78582

78596

78587




| Item Code | Description | Handle Length (mm) | Head Diameter (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 78582 | A 3 mm | 60 | 6 | 17 | 4 960910 785823 | 10 | C |
| 78596 | A-2 3 mm | 32 | 6 | 18 | 4 960910 785960 | | |
| 78584 | B 5 mm | 65 | 4 | 36 | 4 960910 785847 | | |
| 78587 | C 6.5 mm | 75 | 5.5 | 46 | 4 960910 785878 | | |
| 78590 | D 10 mm | 90 | 6.5 | 62 | 4 960910 785908 | | |
| 78593 | E 13 mm | 110 | 8 | 83 | 4 960910 785939 | | |

### Features

- Choose from a variety of types for each model

### Use

- For opening and closing the chuck of an electric drill

Please securely tighten the drill chuck with the correct chuck wrench before using electric drill

### Specifications

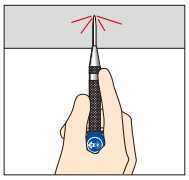
| | 78582 | 78596 | 78584 | 78587 | 78590 | 78593 |
|---|---|---|---|---|---|---|
| Drill Chuck Size | 3 mm for hobby use | | 0 - 3/16 inch 5 mm | 0 - 1/4 inch 6.5 mm | 0 - 3/8 inch 10 mm | 0 - 1/2 inch 13 mm |
| Material | Iron | | | | | |

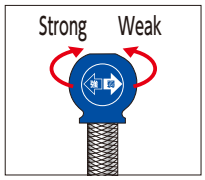
## Auto Punch

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77317 | M with Flat Grip to Prevent Rolling | 130×30×24 | 80 | 4 960910 773172 | 10 | SP |
| 77318 | L with Flat Grip to Prevent Rolling | 155×35×28 | 150 | 4 960910 773189 | 5 | |
| 77259 | M | 133×30×30 | 80 | 4 960910 772595 | 10 | |
| 77258 | L | 160×35×35 | 181 | 4 960910 772588 | 5 | |

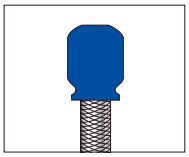
### Features

- Easily marks a surface by pushing it down with one hand
- Accurately punches even on ceiling because no hammer is needed
- Head turns to adjust punching pressure
- Durable superhard chip on the tip






- Flat grip faces to prevent rolling over (77317/77318)



### Use

- For marking steel metals, aluminum, or other materials that are not hardened

### Specifications

| | |
|---|---|
| Material | Body: Brass<br>Tip: Superhard chip<br>Grip: ABS resin |

## Deburring Tool

78665

78666

**Features**

●Compatible with three kinds of high-speed steel replacement blades for plastic, aluminum, brass, cast metal, and steel, etc.

**Use**

●For chamfering and deburring of metal parts

**Specifications**

| | |
|---|---|
| Material | Body: Plastic<br>Edge: High-speed steel |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78665 | with Replacement Blade for S-10/S-20/S-35 | 147×23×23 | 36 | 4 960910 786653 | 3 | SP |
| 78666 | Replacement Blade 2pc-pack for S-10 | 48×12×3 | 2 | 4 960910 786660 | 10 | |

## Suction Lifter

Max 25 kg

74481

Max 25 kg

74482

Max 70 kg

74483

Max 25 kg

74484

**Features**

●Convenient for transportation of items without handles

**Use**

●For transportation of refrigerators, furniture, and glass panels, etc.

74481

74482

74483

74484

**Specifications**

| | 74481 | 74482 | 74483 | 74484 |
|---|---|---|---|---|
| Adsorption Force* | 25 kg | | 70 kg | 25 kg |
| Material | Body: Aluminum<br>Lever: Aluminum<br>Adsorption Face: Rubber | Body: Aluminum<br>Lever: Plastic<br>Adsorption Face: Rubber | | Body: Aluminum<br>Lever: Iron<br>Adsorption Face: Rubber |
| Adsorption Face Size | ϕ123 mm | ϕ115 mm | | ϕ100 mm |

*Indicated adsorption force is based on use for mirror surfaces.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 74481 | Single A | 123×123×104 | 472 | 4 960910 744813 | 6 | SP |
| 74482 | Single B | 213×156×74 | 780 | 4 960910 744820 | 4 | |
| 74483 | Double A | 390×115×70 | 984 | 4 960910 744837 | | |
| 74484 | Double B One-touch | 244×100×125 | 735 | 4 960910 744844 | | B |

# Digital Counter

73310

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73310 | Digital Counter | 63×52×35 | 50 | 4 960910 733107 | 6 | SP |

## Features

- Easy-to-hold
- Easy-to-read large numbers
- Measures from -9,999 to 99,999
- Switch to multiple functions by pushing a button

## Use

- For counting the number of visitors, vehicles, bird-watching, etc.

## Specifications

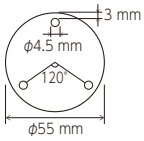
| | |
|---|---|
| Measurement Range | −9,999 - 99,999 |
| Material | Body: ABS resin, AS resin, silicone, polyacetal resin, stainless steel |
| Power Source | 2x Alkaline batteries LR44 (included) (Batteries included are for trial use only and may not last as long) |
| Auto Power Off | 30 seconds |

*"FULL" sign will be displayed if it counts over 99,999.
"-FULL" sign will be displayed if it counts below -9,999.

# Counter

75078

Hole position



75086

75090

75089

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75078 | A Metallic Model with Stand | 62×56×56 | 93 | 4 960910 750784 | 5 | SP |
| 75086 | B Metallic Model | 50×40×53 | 67 | 4 960910 750869 | | |
| 75090 | C Blue Plastic Model | 50×41×54 | 34 | 4 960910 750906 | | |
| 75089 | C Yellow Plastic Model | 50×41×54 | 34 | 4 960910 750890 | | |

## Features

- Counts numbers simply by pushing the button
- Model A is used screwed onto a mount

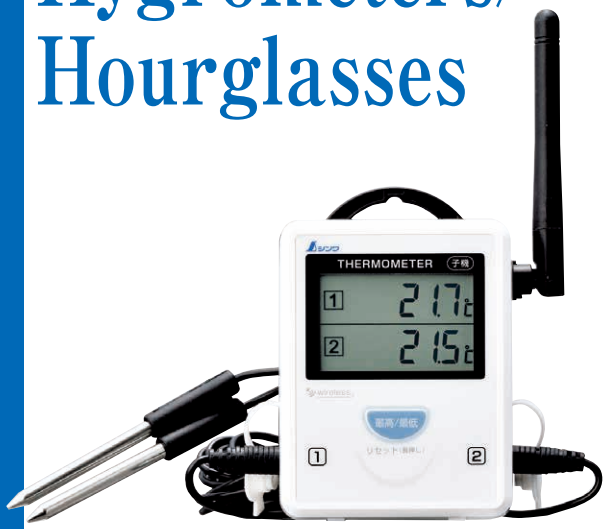
## Use

- For counting the number of visitors, vehicles, bird-watching, etc.

## Specifications

| | 75078 | 75086 | 75090 | 75089 |
|---|---|---|---|---|
| Measurement Range | 0 - 9,999 | | | |
| Material | Body: Iron Others: Synthetic resin | | Body: ABS resin Others: Synthetic resin | |

# 16. Thermometers/ Hygrometers/ Hourglasses



Packaging Ⓢ Shrink package Ⓑ Box VH Vinyl package + header card Ⓒ Card ⧄ No package
SP Sleeve package B Bag C Clear package V Vinyl package

## Thermo/Hygrometer

70494

70497

70498

72591

72605

72691

72669

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70494 | Q-1 15 cm Blue ℃% L | φ167×35 | 180 | 4 960910 704947 | 5 | SP |
| 70495 | Q-1 15 cm Gray ℃% L | φ167×35 | 180 | 4 960910 704954 | | |
| 70496 | Q-2 10 cm Blue ℃% L | φ120×33 | 95 | 4 960910 704961 | | |
| 70497 | Q-2 10 cm Gray ℃% L | φ120×33 | 95 | 4 960910 704978 | | |
| 70498 | Q-3 6.5 cm Blue ℃% L | φ88×26 | 50 | 4 960910 704985 | | |
| 70499 | Q-3 6.5 cm Gray ℃% L | φ88×26 | 50 | 4 960910 704992 | | |
| 72591 | F 15 cm ℃% L | φ156×30 | 140 | 4 960910 725911 | | |
| 72605 | G 15 cm ℃% L | φ156×30 | 140 | 4 960910 726055 | | |
| 72691 | U-1 10 cm ℃% L | φ106×30 | 70 | 4 960910 726918 | | |
| 72669 | U-3 6.5 cm ℃% L | φ71×21 | 30 | 4 960910 726697 | | |

### Features

- Measures both temperature and humidity for health management and energy saving
- Variety of sizes available from large easy-reading displays to small sizes for tight places

### Use

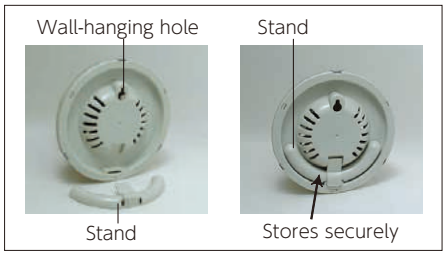
- For temperature and humidity control in the home, classroom, or office, etc.

### Specifications

| | 70494 | 70495 | 70496 | 70497 | 70498 | 70499 |
|---|---|---|---|---|---|---|
| Accuracy | Temperature: −20 - 40℃ ±2℃ Other values: ±4℃ | | | | | |
| | Humidity: 35 - 75% ±5% Other values: ±10% | | | | | |
| Measuring Range | Temperature: −30 - 50℃ | | | | | |
| | Humidity: 10 - 90% | | | | | |
| Each Graduation | Temperature: 2℃ | | | | | |
| | Humidity: 5% | | | | | |
| Material | Body, Scale Plate Cover: Polystyrene resin<br>Scale Plate: Iron<br>Pointer: Aluminum | | | | | |

| | 72591 | 72605 | 72691 | 72669 |
|---|---|---|---|---|
| Accuracy | Temperature: −20 - 40℃ ±2℃ Other values: ±4℃ | | | |
| | Humidity: 35 - 75% ±5% Other values: ±10% | | | |
| Measuring Range | Temperature: −30 - 50℃ | | | Temp: −24 - 50℃ |
| | Humidity: 10 - 100% | Humidity: 0 - 100% | Humidity: 10 - 90% | |
| Each Graduation | Temperature: 2℃ | | | |
| | Humidity: 5% | | | |
| Material | Body: Polystyrene resin, ABS resin<br>Scale Plate Cover: Polystyrene resin<br>Scale Plate: Iron<br>Pointer: Aluminum | | | |

*It can be used as a wall-mounted unit by removing the stand.
(70494/70495/70496/70497/70498/70499)




JIS JIS mark Red With red numbers cm/shaku cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
12 Japanese zodiac signs With battery shaku/cm shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad ℃% Thermometer/Hygrometer % Hygrometer L With hanging hole N Letters in English With direction arrow With grid scale Plastic lens

## Thermo/Hygrometer for Room Conditioning

70501

70506

70514

With hook hole

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70501 | F-2L 15 cm Blue | φ156×30 | 142 | 4 960910 705012 | 5 | SP |
| 70506 | F-2M 10 cm Blue | φ106×30 | 70 | 4 960910 705067 | | |
| 70514 | F-2S 6.5 cm Blue | φ71×21 | 30 | 4 960910 705142 | | |

### Features

●Ideal for saving energy with displays of suggested temperature and comfortable humidity

### Use

●For temperature and humidity control in the home, classroom, or office, etc.

### Specifications

| | 70501 | 70506 | 70514 |
|---|---|---|---|
| Accuracy | Temperature: −20 - 40℃ ±2℃ Other values : ±4℃ | | Temperature: −20 - 40℃ ±2℃ |
| | Humidity: 35 - 75% ±5% Other values: ±10% | | |
| Measuring Range | Temperature: −24 - 44℃ | | Temp. −20 - 40℃ |
| | Humidity: 5 - 95% | | Humidity: 10 - 90% |
| Each Graduation | Temperature: 2℃ Humidity: 5% | | |
| Material | Body: Polystyrene resin, ABS resin<br>Scale Plate Cover: Polystyrene resin<br>Scale Plate: Iron<br>Pointer: Aluminum | | |

## Thermo/Hygrometer for Heatstroke Warning

70505

70507

70515

With hook hole

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70505 | F-3L Ⅱ 15 cm White | φ156×30 | 150 | 4 960910 705050 | 5 | SP |
| 70507 | F-3M 10 cm White | φ106×30 | 73 | 4 960910 705074 | | |
| 70515 | F-3S 6.5 cm White | φ71×21 | 33 | 4 960910 705159 | | |

### Features

●Shows five levels of warning for heatstroke

### Use

●For temperature and humidity control in the home, classroom, or office, etc.

### Specifications

| | 70505 | 70507 | 70515 |
|---|---|---|---|
| Accuracy | Temperature: −20 - 40℃ ±2℃ | | |
| | Humidity: 35 - 75% ±5% Other values: ±10% | | |
| Measuring Range | Temperature: −20 - 40℃ | | |
| | Humidity: 10 - 90% | | |
| Each Graduation | Temperature: 2℃ Humidity: 5% | | |
| Material | Body: Polystyrene resin, ABS resin<br>Scale Plate Cover: Polystyrene resin<br>Scale Plate: Iron<br>Pointer: Aluminum | | |

## Thermo/Hygrometer for Environmental Safety

70503

70508

70516

With hook hole

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70503 | F-4L 15 cm Blue | φ156×30 | 142 | 4 960910 705036 | 5 | SP |
| 70508 | F-4M 10 cm Blue | φ106×30 | 70 | 4 960910 705081 | | |
| 70516 | F-4S 6.5 cm Blue | φ71×21 | 30 | 4 960910 705166 | | |

### Features

●Shows various warnings for each temperature range, such as risk of mold or health warnings

### Use

●For temperature and humidity control in the home, classroom, or office, etc.

### Specifications

| | 70503 | 70508 | 70516 |
|---|---|---|---|
| Accuracy | Temperature: −20 - 40℃ ±2℃ | | |
| | Humidity: 35 - 75% ±5% Other values: ±10% | | |
| Measuring Range | Temperature: −20 - 40℃ | | |
| | Humidity: 10 - 90% | | |
| Each Graduation | Temperature: 2℃ Humidity: 5% | | |
| Material | Body: Polystyrene resin, ABS resin<br>Scale Plate Cover: Polystyrene resin<br>Scale Plate: Iron<br>Pointer: Aluminum | | |

## Thermo/Hygrometer and Discomfort Index Meter

70480

70500

**What is the discomfort index?**

It is calculated with temperature and humidity to measure the degree of discomfort experienced by an individual. Keeping comfortable conditions can prevent heatstroke or flu.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70480 | R-1 Green (℃% L) | φ167×35 | 193 | 4 960910 704800 | 5 | SP |
| 70500 | R-2 Green (℃% L) | φ156×30 | 145 | 4 960910 705005 | | |

### Features

●Shows discomfort index to help health management at home

### Use

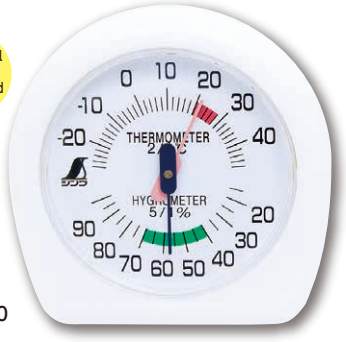
●For temperature and humidity control in the home, classroom, or office, etc.

### Specifications

| | 70480 | 70500 |
|---|---|---|
| Accuracy | Temp.: −20 - 40℃ ±2℃ Other values ±4℃ | Temp.: −20 - 40℃ ±2℃ |
| | Humidity: 35 - 75% ±5% Other values: ±10% | |
| | Discomfort Index: 60 - 80 ±2 Other values: ±4 | |
| Measuring Range | Temperature: −30 - 50℃ | Temperature: −20 - 40℃ |
| | Humidity: 10 - 90% | |
| | Discomfort Index: 45 - 95 | |
| Each Graduation | Temperature: 2℃ | |
| | Humidity: 5% | |
| | Discomfort Index: 2 | |
| Material | Body: Polystyrene resin<br>Scale Plate Cover: Polystyrene resin<br>Scale Plate: Iron<br>Pointer: Aluminum | Body: Polystyrene resin, ABS resin<br>Scale Plate Cover: Polystyrene resin<br>Scale Plate: Iron<br>Pointer: Aluminum |

## Thermo/Hygrometer

Antibacterial agent compounded



70380

With stand on the back

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70380 | P-2 12 cm White (℃% L) | 120×120×30 | 100 | 4 960910 703803 | 5 | SP |

### Features

●Measures both temperature and humidity and displays comfortable zones in colors for health management or energy saving

### Use

●For temperature and humidity control in the home, classroom, or office, etc.

### Specifications

| | |
|---|---|
| Accuracy | Temperature: −20 - 40℃ ±2℃ Other values: ±4℃ |
| | Humidity: 35 - 75% ±5% Other values: ±10% |
| Measuring Range | Temperature: −28 - 48℃ |
| | Humidity: 15 - 100% |
| Each Graduation | Temperature: 2℃ |
| | Humidity: 5% |
| Material | Body: ABS resin<br>(Antibacterial agent compounded)<br>Scale Plate Cover: Polystyrene resin<br>Pointer: Aluminum<br>Scale Plate: Iron |

## Thermo/Hygrometer

70510

With hook hole

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70510 | W-1 White (℃% L) | 165×120×20 | 145 | 4 960910 705104 | 5 | SP |

### Features

●Thin wall-mounted type

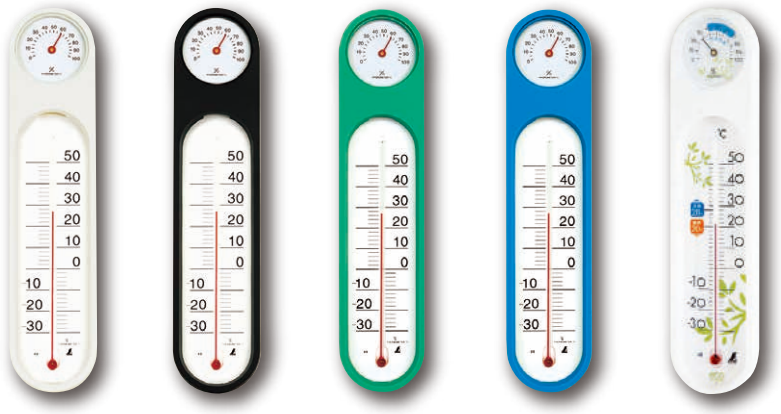
### Use

●For temperature and humidity control in the home, classroom, or office, etc.

### Specifications

| | |
|---|---|
| Accuracy | Temperature: −20 - 40℃ ±2℃ Other values: ±4℃ |
| | Humidity: 35 - 75% ±5% Other values: ±10% |
| Measuring Range | Temperature: −30 - 50℃ |
| | Humidity: 0 - 100% |
| Each Graduation | Temperature: 2℃ |
| | Humidity: 2% |
| Material | Body, Scale Plate Cover: Polystyrene resin<br>Scale Plate: Iron<br>Pointer: Aluminum |

## Thermo/Hygrometer



48927 48929 72615 48932 48975

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 48927 | White and White ℃% Ⓛ | 295×67×19 | 100 | 4 960910 489271 | 5 | Ⓢⓟ |
| 48929 | Black and White ℃% Ⓛ | 295×67×19 | 100 | 4 960910 489295 | | |
| 72615 | Green ℃% Ⓛ | 295×67×19 | 100 | 4 960910 726154 | | |
| 48932 | Blue ℃% Ⓛ | 295×67×19 | 100 | 4 960910 489325 | | |
| 48975 | ECO White ℃% Ⓛ | 295×67×19 | 100 | 4 960910 489752 | | |

### Features

- Measures both temperature and humidity to help health management or energy saving
- Choose from various colorful designs to match any rooms
- ECO White model also displays suggested air-conditioning temperature

### Use

- For temperature and humidity control at home, in classroom, office, etc.

### Specifications

| | |
|---|---|
| Accuracy | Temperature: ±2℃ |
| | Humidity: 35 - 75% ±5% Other values: ±10% |
| Measuring Range | Temperature: −30 - 50℃ |
| | Humidity: 0 - 100% |
| Each Graduation | Temperature: 2℃ |
| | Humidity: 5% |
| Material | Body: Polystyrene resin |

## Thermometer

72689

72667

72675

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72689 | S-1 10 cm ℃ Ⓛ | φ106×30 | 70 | 4 960910 726895 | 5 | Ⓢⓟ |
| 72667 | S-3 6.5 cm ℃ Ⓛ | φ71×21 | 30 | 4 960910 726673 | | |
| 72675 | S-5 3.5 cm ℃ SS | φ36×14 | 5 | 4 960910 726758 | 10 | [B] |

### Features

- Lightweight, circular thermometer
- Easy-to-read graduations
- S-5 model comes with double-sided tape for installation

### Use

- For temperature control in the home, classroom, or office, etc.

### Specifications

| | 72689 | 72667 | 72675 |
|---|---|---|---|
| Accuracy | −20 - 40℃: ±2℃ Other values: ±4℃ | | |
| Measuring Range | −30 - 50℃ | | |
| Each Graduation | 2℃ | | |
| Material | Body: Polystyrene resin, ABS resin<br>Scale Plate: Iron<br>Pointer: Aluminum | | Body : Polystyrene resin<br>Scale Plate : Iron<br>Pointer : Aluminum |

## Hygrometer

72690

72668

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72690 | T-1 10 cm % Ⓛ | φ106×30 | 70 | 4 960910 726901 | 5 | Ⓢⓟ |
| 72668 | T-3 6.5 cm % Ⓛ | φ71×21 | 30 | 4 960910 726680 | | |

### Features

- Lightweight, circular hygrometer
- Easy-to-read graduations

### Use

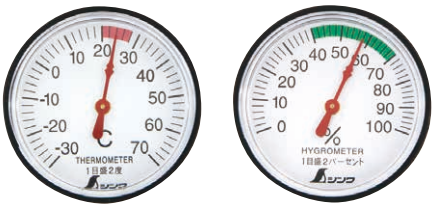
- For humidity control in the home, classroom, or office, etc.

### Specifications

| | |
|---|---|
| Accuracy | 35 - 75%: ±5%<br>Other values: ±10% |
| Measuring Range | 0 - 100% |
| Each Graduation | 2% |
| Material | Body: Polystyrene resin, ABS resin<br>Scale Plate: Iron Pointer: Aluminum |

JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet With luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

## Thermometer and Hygrometer Pair



72674

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72674 | ST-4 4.5 cm | φ48×17 | 11 | 4 960910 726741 | 5 | SP |

### Features

- Pair of compact thermometer and hygrometer
- Color indicates comfort zone
- Double-sided tape included for installation

### Use

- For temperature and humidity control in the home, classroom, or office, etc.

### Specifications

| | |
|---|---|
| Accuracy | Temp.: −20 - 40℃ ±2℃ Other values ±4℃ |
| | Humidity: 35 - 75% ±5% Other values ±10% |
| Measuring Range | Temperature: −30 - 70℃ |
| | Humidity: 0 - 100% |
| Each Graduation | Temperature: 2℃ |
| | Humidity: 2% |
| Material | Body: Polystyrene resin<br>Scale Plate: Iron<br>Pointer: Aluminum |

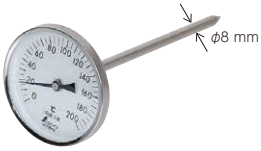
## Thermometer

72960

72610

72611

73012




73013

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72960 | V-1 0 - 100℃ φ3.5 x 13 cm | φ35×145 | 22 | 4 960910 729605 | 5 | SP |
| 72610 | V-2 −20 - 60℃ φ3.5 x 13 cm | φ35×140 | 15 | 4 960910 726109 | 10 | |
| 72611 | V-3 −20 - 100℃ φ6 x 90 cm | φ62×920 | 165 | 4 960910 726116 | 2 | C |
| 73012 | V-4 0 - 200℃ White φ8 x 20 cm | φ83×215 | 111 | 4 960910 730120 | 1 | |
| 73013 | V-4 0 - 200℃ Black φ8 x 20 cm | φ83×215 | 111 | 4 960910 730137 | | |

### Features

■V-1
- Insert into food to measure temperature while cooking
- Use the holder to measure the temperature of liquid
- 75℃ stands out in red for heat sterilization of O-157 strain

*Measurement Range: 0 - 100℃
Do not use to measure oil for deep-frying
- Rust-resistant stainless steel

■V-2
- Insert into the ground or pots to measure soil temperature
- Different colors for each temperature range for easy reading
- Rust-resistant stainless steel

■V-3
- 90 cm-long thermo-sensitive probe makes it ideal for temperature control of compost in organic farming
- Rust-resistant stainless steel

■V-4
- Easy-to-read, large scale face (available in white and black)
- Rust-resistant stainless steel
- Wide measuring range enables use in many situations

### Use

■V-1
- As a cooking thermometer to measure the temperature of food, etc.

■V-2
- For temperature control of raising seedlings and gardening, etc.

■V-3
- For temperature control of compost

■V-4
- For temperature control of asphalt and soil

For measuring temperature of asphalt

For measuring temperature of soil

### Specifications

| | 72960 | 72610 | 72611 | 73012<br>73013 |
|---|---|---|---|---|
| Accuracy | ±2℃ | | | ±5℃ |
| Measuring Range | 0 - 100℃ | −20 - 60℃ | −20 - 100℃ | 0 - 200℃ |
| Each Graduation | 2℃ | | | 5℃ |
| Material | Body: Stainless steel | | | |

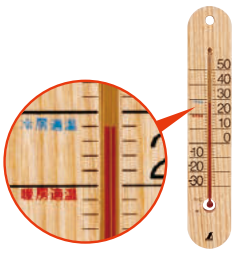
JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

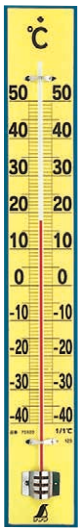
# Thermometer

72524

72526

72590


48481


75920

72993

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72524 | C | 252×43×18 | 55 | 4 960910 725249 | 10 | SP |
| 72526 | C-2 | 250×42×17 | 55 | 4 960910 725263 | | |
| 72590 | C-5 | 252×40×16 | 59 | 4 960910 725904 | | |
| 48481 | Wood M-023 | 270×50×10 | 90 | 4 960910 484818 | 5 | |
| 75919 | Wood 45 cm | 450×80×12 | 210 | 4 960910 759190 | 1 | |
| 75920 | Wood 60 cm | 600×85×12 | 380 | 4 960910 759206 | | |
| 72571 | Wood 90 cm | 900×120×15 | 1,050 | 4 960910 725713 | | |
| 72991 | Aluminum 45 cm | 465×80×20 | 320 | 4 960910 729919 | | S |
| 72992 | Aluminum 60 cm | 615×80×20 | 420 | 4 960910 729926 | | |
| 72993 | Aluminum 75 cm | 765×80×20 | 520 | 4 960910 729933 | | |

## Features

■C/C-2
●Standard thermometer

■C-5
●Beautiful pine wood finish

■M-023
●Shows suggested air-conditioning temperatures

■Wood 45 - 90 cm/Aluminum 45 - 75 cm
●Large size and clear numbers make it easy to read even from a distance

With hook hole

## Use

●For temperature control in the home, classroom, or office, etc.

## Specifications

| | 72524 | 72526 | 72590 |
|---|---|---|---|
| Accuracy | ±1℃ | | |
| Measuring Range | −30 - 50℃ | | |
| Each Graduation | 1℃ | | |
| Material | Body: Wood | Body: Polystyrene resin | Body: Wood |

| | 48481 | 75919 | 75920 | 72571 |
|---|---|---|---|---|
| Accuracy | ±2℃ | ±1℃ | | |
| Measuring Range | −30 - 50℃ | −40 - 50℃ | | |
| Each Graduation | 2℃ | 1℃ | | |
| Material | Body: Wood | | | |

| | 72991 | 72992 | 72993 |
|---|---|---|---|
| Accuracy | −29 - 50℃: ±1℃ Other values: ±2℃ | | |
| Measuring Range | −40 - 50℃ | | |
| Each Graduation | 1℃ | | |
| Material | Body: Aluminum | | |

# Plastic Thermometer

48351

48357

48361

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 48351 | 20 cm Blue | 200×43×15 | 38 | 4 960910 483514 | 10 | SP |
| 48352 | 20 cm Yellow | 200×43×15 | 38 | 4 960910 483521 | | |
| 48356 | 25 cm Blue | 250×40×15 | 48 | 4 960910 483569 | | |
| 48357 | 25 cm Yellow | 250×40×15 | 48 | 4 960910 483576 | | |
| 48361 | 30 cm Blue | 300×60×17 | 86 | 4 960910 483613 | | |
| 48362 | 30 cm Yellow | 300×60×17 | 86 | 4 960910 483620 | | |

## Features

●Easy-to-read graduations
●Colorful design adds an accent to a room. Available in various colors and sizes.

With hook hole

## Use

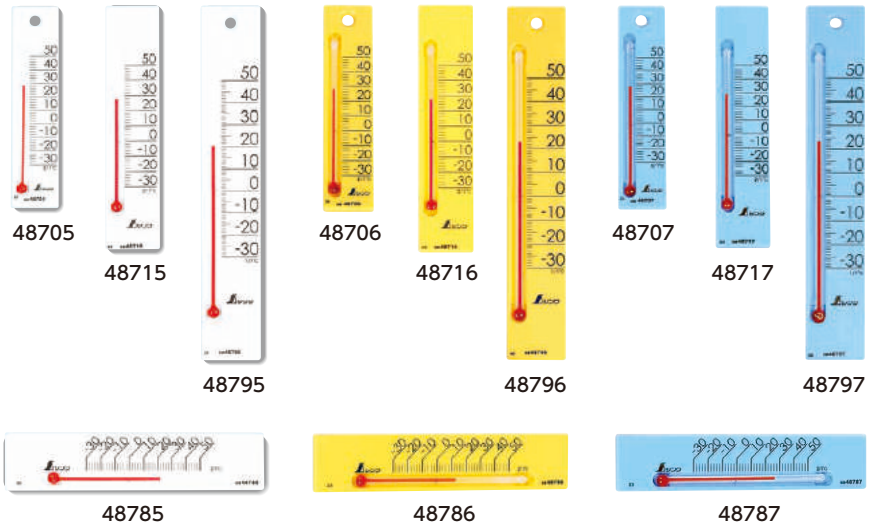
●For temperature control in the home, classroom, or office, etc.

## Specifications

| | |
|---|---|
| Accuracy | ±1℃ |
| Measuring Range | −30 - 50℃ |
| Each Graduation | 1℃ |
| Material | Body: Polystyrene resin |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

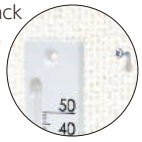
# Thermometer "Petit Thermo Square"




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 48705 | Vertical 12 cm White | 120×28×7 | 13 | 4 960910 487055 | 10 | SP |
| 48706 | Vertical 12 cm Yellow | 120×28×7 | 13 | 4 960910 487062 | | |
| 48707 | Vertical 12 cm Blue | 120×28×7 | 13 | 4 960910 487079 | | |
| 48715 | Vertical 13.5 cm with Magnet White | 135×30×7 | 12 | 4 960910 487154 | | |
| 48716 | Vertical 13.5 cm with Magnet Yellow | 135×30×7 | 12 | 4 960910 487161 | | |
| 48717 | Vertical 13.5 cm with Magnet Blue | 135×30×7 | 12 | 4 960910 487178 | | |
| 48785 | Horizontal 13.5 cm with Magnet White | 135×30×7 | 12 | 4 960910 487857 | | |
| 48786 | Horizontal 13.5 cm with Magnet Yellow | 135×30×7 | 12 | 4 960910 487864 | | |
| 48787 | Horizontal 13.5 cm with Magnet Blue | 135×30×7 | 12 | 4 960910 487871 | | |
| 48795 | Vertical 20 cm White | 200×34×7 | 28 | 4 960910 487956 | | |
| 48796 | Vertical 20 cm Yellow | 200×34×7 | 28 | 4 960910 487963 | | |
| 48797 | Vertical 20 cm Blue | 200×34×7 | 28 | 4 960910 487970 | | |

## Features

- Small, affordable thermometer
- Choose from various colors and sizes
- Vertical 12 cm and 20 cm models come with a hook hole
- Double-sided tape on the back
- Vertical 13.5 cm and horizontal 13.5 cm have magnets



## Use

- For temperature control in the home, classroom, or office, etc.

## Specifications

| | 48705 | 48706 | 48707 |
|---|---|---|---|
| Accuracy | ±2℃ | | |
| Measuring Range | −30 - 50℃ | | |
| Each Graduation | 2℃ | | |
| Material | Body: Polystyrene resin | | |

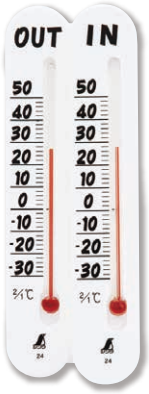
| | 48715 | 48716 | 48717 |
|---|---|---|---|
| Accuracy | ±2℃ | | |
| Measuring Range | −30 - 50℃ | | |
| Each Graduation | 2℃ | | |
| Material | Body: Polystyrene resin | | |

| | 48785 | 48786 | 48787 |
|---|---|---|---|
| Accuracy | ±2℃ | | |
| Measuring Range | −30 - 50℃ | | |
| Each Graduation | 2℃ | | |
| Material | Body: Polystyrene resin | | |

| | 48795 | 48796 | 48797 |
|---|---|---|---|
| Accuracy | ±1℃ | | |
| Measuring Range | −30 - 50℃ | | |
| Each Graduation | 1℃ | | |
| Material | Body: Polystyrene resin | | |

# Thermometer "Petit Thermo Twin" for Outside and Inside

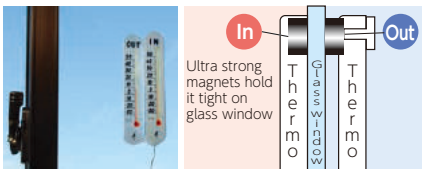
72957



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72957 | Petit Thermo Twin | 134×48×22 | 46 | 4 960910 729575 | 5 | SP |

## Features

- Displays both inside and outside temperature




## Use

- For temperature control inside and outside

## Specifications

| | |
|---|---|
| Accuracy | ±2℃ |
| Measuring Range | −30 - 50℃ |
| Each Graduation | 2℃ |
| Material | Body: Polystyrene resin |

*Not usable on double glazing and frosted glass

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge | Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Digital Thermo/Hygrometer, Thermometer Smart

73115

73116

73117

73118

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73115 | Digital Thermo/Hygrometer Smart A | 103×102×18 | 135 | 4 960910 731158 | 5 | SP |
| 73116 | Digital Thermometer Smart A | 70×102×18 | 95 | 4 960910 731165 | | |
| 73117 | Digital Thermometer Smart B for Indoor and Outdoor with Waterproof Outside Sensor | 70×102×18 | 115 | 4 960910 731172 | | |
| 73118 | Digital Thermometer Smart C Maximum and Minimum for Indoor and Outdoor with Waterproof Outside Sensor | 103×102×18 | 150 | 4 960910 731189 | | |

## Features

- Bright, low-glare liquid crystal display with wide-viewing angle and clear font

- Folding stand and hole for hook to use on a wall or desk
- Flat surface model with stylish exterior. Ideal for temperature control in a space where appearance is important.
- External sensor is water-resistant for worry-free use even on a rainy day

## Use

- For temperature and humidity control in the home, classroom, or office, etc.

## Specifications

| | 73115 | 73116 | 73117 | 73118 |
|---|---|---|---|---|
| Accuracy | Temp.: 0 - 40℃ ±1℃ Other values ±2℃ Humidity: 40 - 80% ±10% Other values ±15% | 0 - 40℃: ±1℃ Other values: ±2℃ | | |
| Measuring Range | Temperature: −5 - 49℃ Humidity: 30 - 95% | −5 - 50℃ | Internal sensor: −5 - 50℃ External sensor: −49 - 70℃ | Internal sensor: −5 - 50℃ External sensor: −50 - 70℃ |
| Minimum Display | Temperature: 0.1℃ Humidity: 1% | 0.1℃ | | |
| Measuring Interval | 20 seconds | 6 seconds | 10 seconds | |
| Power Source | 1x AAA Alkaline battery (Battery included is for trial use only and may not last as long) | | | |
| Waterproof | — | | External sensor: IPX7 * | |
| Material | Body: ABS resin | | Body: ABS resin External Sensor: Stainless steel, vinyl chloride resin | |
| Cord Length | — | | 3 m | |

*Waterproof: Protected from immersion between 15 centimeters and 1 meter in depth

# Digital Thermo/Hygrometer Home A NEW

73030/73044

73048

73049

With stand

With hook hole on the back

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73030 | A Maximum and Minimum White | 80×70×20 | 65 | 4 960910 730304 | 10 | SP |
| 73044 | White with Clear Package | 80×70×20 | 65 | 4 960910 730441 | | C |
| 73048 | Blue with Clear Package | 80×70×20 | 65 | 4 960910 730489 | | |
| 73049 | Green with Clear Package | 80×70×20 | 65 | 4 960910 730496 | | |

## Features

- Bright, low-glare liquid crystal display with wide-viewing angle and clear font

- Display can switch between maximum temperature/humidity and minimum temperature/humidity
- Can be used in a wide range of locations thanks to its compact and simple design that suits any interior
- Can be propped up with its folding stand, or hung on a wall with its hook hole

On the table

On the wall

## Use

- For temperature and humidity control in the home, classroom, or office, etc.

## Specifications

| | |
|---|---|
| Accuracy | Temp.: 0 - 40℃: ±1℃ Other Values: ±2.5℃ Humidity: 40 - 80%: ±10% Other Values: ±15% |
| Measuring Range | Temp.: −5 - 49℃ Humidity: 30 - 95% |
| Minimum Display | Temp.: 0.1℃ Humidity: 1% |
| Measuring Interval | 10 seconds |
| Material | Body: ABS resin |
| Power Source | 1x AAA Alkaline battery (Battery included is for trial use only and may not last as long) |

JIS JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

# Digital Thermo/Hygrometer

72989

72985

**What is discomfort index?**
It is calculated with temperature and humidity to measure the degree of discomfort experienced by an individual. Keeping conditions comfortable can prevent heatstroke or flu.

Based on the discomfort index, you can easily see if the current temperature and humidity are in a comfortable zone

73054

73055

73056

73057

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72989 | B Maximum and Minimum with Solar Panel | 155×112×23 | 185 | 4 960910 729896 | 5 | SP |
| 72985 | C with Discomfort Index Meter | 108×102×20 | 137 | 4 960910 729858 | | |
| 73054 | D-1 Blue | 138×113×24 | 175 | 4 960910 730540 | | |
| 73055 | D-1 Orange | 138×113×24 | 175 | 4 960910 730557 | | |
| 73056 | D-2 Blue | 138×113×24 | 175 | 4 960910 730564 | | |
| 73057 | D-2 Orange | 138×113×24 | 175 | 4 960910 730571 | | |

## Features

- ●Displays both temperature and humidity in a room
- ●Folding stand and hole for hook to use on a wall or desk

■B
- ●Displays temperature and humidity with a built-in sensor
- ●Records maximum and minimum temperatures and humidity for a set period of time by pushing "MAX/MIN" button. "RESET" button will reset the record.
- ●Solar panel reduces battery use

■C
- ●Displays in five levels

■D-1/D-2
- ●Alarm can be set for certain temperature or humidity
- ●Clear, easy-to-read heatstroke warning level icon
- ●Measures the highest/lowest temperature and humidity (73056/73057)

## Use

- ●For temperature and humidity control in the home, classroom, or office, etc.

## Specifications

| | 72989 | 72985 |
|---|---|---|
| Accuracy | Temperature: 0 - 40℃ ±1℃ Other values ±2℃ | |
| | Humidity: 30 - 95% ±10% *The others are just for reference | |
| Measuring Range | Temperature: −5 - 50℃ | |
| | Humidity: 30 - 95% | |
| Power Source | Solar Panel/1x Lithium battery CR2032 *Solar panel - above 150 lux *Battery - below 150 lux | 1x AAA Alkaline battery |
| | (Battery included is for trial use only and may not last as long) | |
| Material | Body: ABS resin | |

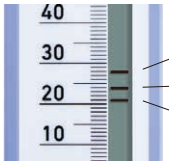
| | 73054 | 73055 | 73056 | 73057 |
|---|---|---|---|---|
| Accuracy | Temperature: 0 - 40℃ ±1℃ Other values: ±2℃ | | | |
| | Humidity: 30 - 80% ±5% Other values: ±10% | | | |
| Measuring Range | Temperature: −5 - 50℃ | | | |
| | Humidity: 25 - 95% | | | |
| Measuring Interval | 10 seconds | | | |
| Alarm Sound Interval | 1 second | | | |
| Alarm Volume | Approx. 75 dB (10 cm apart) | | | |
| Heatstroke Levels | 5 Level Icons Attention/Caution/Severe Caution/Danger, etc. | | | |
| Power Source | 2x AAA Alkaline batteries (Batteries included are for trial use only and may not last as long) | | | |
| Material | Body: ABS resin | | | |

# Digital Thermometer

72947

73043

Folding stand and hole for hook to use on a desk or wall




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72947 | E for Indoor & Outdoor | 74×102×20 | 91 | 4 960910 729476 | 5 | SP |
| 73043 | D-10 Waterproof NEW! | 217×64×19 | 108 | 4 960910 730434 | | |

## Features

■E
- ●Easy-to-read digital display with large display height (30 mm) is simple and easy to use
- ●Display switches between indoor and outdoor temperature

■D-10
- ●Simultaneously displays digital numbers and temperature bars. Temperature bars can be used to see current temperature/maximum temperature/minimum temperature at a glance.
- ●Water-resistant for worry-free use even if it gets slightly wet at warehouses or greenhouses

## Use

- ●For temperature control in the home, classroom, or office, etc.

## Specifications

| | 72947 | 73043 |
|---|---|---|
| Accuracy | 0 - 40℃: ±1℃ Other values: ±2.5℃ | 0 - 40℃: ±1℃ Other values: ±2℃ |
| Measuring Range | Inside Sensor: −5℃ - 50℃ Outside Sensor: −50℃ - 70℃ | −10 - 50℃ |
| Minimum Display | 0.1℃ | Numbers: 0.1℃ Single Bar Graduation: 1℃ |
| Measurement Interval | 10 sec | 10 sec *1 |
| Cord Length | About 3 m | — |
| Material | Body: ABS resin | Body: ABS resin LCD: Glass |
| Power Source | 1x AAA Alkaline battery (Battery included is for trial use only and may not last as long) | |
| Waterproof | — | IPX4 *2 |

*1 Numbers and bars are updated simultaneously.
*2 Waterproof: Protected from water spray from any direction

# Waterproof Digital Thermometer

73045

73046

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73045 | G-1 Maximum and Minimum Remote-reading | 129×117×24.5 | 215 | 4 960910 730458 | 5 | SP |
| 73046 | G-2 Remote-reading for 2 points | 129×117×24.5 | 245 | 4 960910 730465 | | |

## Features

- Waterproof
- Insert into the ground to measure soil temperature (Main unit does not contain temperature sensor)
- User-friendly digital thermometer with a large display

■G-1
- Displays maximum, minimum, and current temperature together

■G-2
- Two temperature sensors enable simultaneous measurement at two separate points

## Use

- For temperature control in agricultural work or at home

## Specifications

| | 73045 | 73046 |
|---|---|---|
| Accuracy | 0 - 40℃: ±1℃ Other temperature: ±2℃ | |
| Measuring Range | −50 - 90℃ | |
| Minimum Display | 0.1℃ | |
| Operating Temperature | Main Unit: −5 - 50℃, Temperature Sensor: −50 - 90℃ | |
| Measurement Interval | 10 sec | |
| Material | Main Unit: ABS resin, acrylic resin Temperature Sensor: Stainless, vinyl chloride resin | |
| Power Source | 1x AAA Alkaline battery (Battery included is for trial use only and may not last as long) | |
| Waterproof | Main Unit: IPX4*1 Temperature Sensor: IPX7*2 | |
| Size | Temperature Sensor: ϕ5 x 50 mm Cord Length: 3 m | |
| Number of Cord | 1 | 2 |

*1 Waterproof: Protected from water spray from any direction
*2 Waterproof: Protected from immersion between 15 centimeters and 1 meter in depth

# Waterproof Digital Thermometer with Remote Probe

73080

With cap

With stand

73081



With stand

Probes for H-2 sold separately

73087 73088 73089 73090

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73080 | H-1 | 103×66×25 | 105 | 4 960910 730809 | 5 | SP |
| 73081 | H-2 | 172×77×46 | 360 | 4 960910 730816 | 1 | B |
| 73087 | Remote Probe Thin Model ϕ2.0 x 185 mm for Digital Thermometer H-2 | ϕ2.0×185 | 80 | 4 960910 730878 | | V |
| 73088 | Remote Probe Standard Model ϕ3.5 x 110 mm for Digital Thermometer H-2 | ϕ3.5×110 | 80 | 4 960910 730885 | | |
| 73089 | Remote Probe Long and Thick Model ϕ5.0 x 275 mm for Digital Thermometer H-2 | ϕ5.0×275 | 92 | 4 960910 730892 | | |
| 73090 | Remote Probe Surface Model ϕ3.5 x 110 mm for H-2 | ϕ3.5×110 | 83 | 4 960910 730908 | | |

## Features

- IPX7 waterproof (*2)
- Enables user to read temperature remotely
- Includes hold function

■H-1
- HI/LOW alarm beeps at set temperature
- Probe sensor to measure internal temperature
- Includes clip and stand for use in various settings
- Includes cap to protect tip of probe

■H-2
- Able to display maximum and minimum temperature during measurement
- Replacement probes are available for various purposes
- HI/LOW alarm beeps at set temperature
- Memory records previous 10 measured values
- Backlight function

## Use

- For various uses such as cooking, facility management, or experiments, etc.

## Specifications

| | 73080 | 73081 |
|---|---|---|
| Accuracy | −20 - 150℃: ±1℃ −30 - −21℃: 151 - 250℃: ±2℃*1 | ±1℃ |
| Measuring Range | −30 - 250℃ *1 | |
| Minimum Display | 0.1℃ | −19.9 - 199.9℃ 0.1℃ Other temperature 1℃ |
| Operating Temperature | Temperature: 0 - 50℃ Humidity: Less than 80% (no bedewing) | |
| Measurement Interval | 1 sec | |
| Material | Main Unit, Cap: ABS resin Probe: Stainless steel | Main Unit, Cap: ABS resin Protecting Cover: Vinyl chloride resin Probe: Stainless steel |
| Auto Power Off | 1 hour after operation stops | |
| Power Source | 1x AAA Alkaline battery | 2x AAA Alkaline batteries |
| | (Battery included is for trial use only and may not last as long) | |
| Waterproof | IPX7 *2 | |
| Size | Probe: ϕ3.5 × 100 mm Cord Length: 1 m | Probe: ϕ3.5 × 110 mm Cord Length: 1.4 m |

*1 −50 - −31℃ and 251 - 300℃ can be indicated but the accuracy is not guaranteed.
*2 Waterproof: Protected from immersion between 15 centimeters and 1 meter in depth

# Wireless Thermometer A

**Max 5 Remote Sensors (sold separately) can communicate with Base Unit**

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73441 | Maximum and Minimum External Antenna Type with Remote Twin Probe (NEW) | 175×85×28 (Base Unit) | 180 (Base unit) | 4 960910 734418 | 5 | SP |
| 73442 | Additional Remote Sensor External Antenna Type (NEW) | 155×86×35 | 220 | 4 960910 734425 | | |

*Item Code 73441 is a base unit and remote sensor set. Item Code 73442 is only a remote sensor.

**Max 5 Remote Sensors (sold separately) can communicate with Base Unit**

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73241 | Maximum and Minimum Waterproof with Remote Twin Probe | 125×68×28 (Base unit) | 180 (Base unit) | 4 960910 732414 | 5 | SP |
| 73242 | Additional Remote Sensor | 110×70×35 | 220 | 4 960910 732421 | | |

Item code 73241 is base unit and additional remote sensor set
Item code 73242 is only the additional remote sensor

## Features

- Base unit can receive and check the temperature of the remote sensor that is in a remote location
- High-sensitivity type (73441/73442) with improved communication sensitivity thanks to external antenna
- Waterproof (73441/73242)
- Required operation is easy with few buttons
- Both base unit and remote sensor can measure temperature
- Individual alarms for each remote sensor can be set on the base unit
- With folding stand on the back of base unit to use on a desk

## Use

- Measure temperature from a remote location

## Specifications

### 73441/73442

| | Base Unit | Remote Sensor |
|---|---|---|
| Accuracy | 0 - 50℃: ±1℃<br>Other temperature: ±2℃ | |
| Measuring Range | −5 - 50℃ | −40 - 90℃ |
| Minimum Display | 0.1℃ | |
| Operating Temperature | −5 - 50℃ | |
| Measuring Interval | 1 min | |
| Material | Main Unit: ABS resin<br>Display Cover: Polycarbonate resin<br>Display: Glass | Main Unit: ABS resin<br>Display Cover: Polycarbonate resin<br>Display: Glass<br>Temperature Sensor: Stainless steel, vinyl chloride resin |
| Power Source | 4X AAA Alkaline batteries | 3X AAA Alkaline batteries |
| | (Batteries included are for trial use only and may not last as long) | |
| Battery Life | About 6 months*1 | About 6 months |
| Waterproof | – | Main Unit: -<br>Temperature Sensor: IPX7 *2 |
| Type of Radio Equipment | – | Specified low-power equipment |
| Radio Wave Frequency | – | 313.625 MHz |
| Communication Distance | – | Up to 150 m (line-of-sight distance)*3 |
| Transmission Interval | – | 4 min |
| Size | – | Main Unit: ϕ 5 x 50 mm<br>Cord Length: 3 m |

*1 Battery life can be reduced due to the sounding of the buzzer in the alarm function.
*2 IPX7 Waterproof: Protected from immersion between 15 centimeters and 1 meter in depth
*3 The line-of-sight distance is the maximum distance of transmiss ion in an unobstructed environment on a straight line connecting the base unit and a remote sensor. In some cases, the distance of transmission may decline considerably due to obstructions between the base unit and the remote sensor or other structures that inhibit the radio waves.

### 73241/73242

| | Base Unit | Remote Sensor |
|---|---|---|
| Accuracy | 0 - 50℃: ±1℃<br>Other temperature: ±2℃ | |
| Measuring Range | −5 - 50℃ | −40 - 90℃ |
| Minimum Display | 0.1℃ | |
| Operating Temperature | −5 - 50℃ | |
| Measurement Interval | 1 min | |
| Material | Main Unit: ABS resin<br>Display Cover: Polycarbonate resin<br>Display: Glass | Main Unit: ABS resin<br>Display Cover: Polycarbonate resin<br>Display: Glass<br>Temperature Sensor: Stainless steel, vinyl chloride resin |
| Power Source | 4x AAA Alkaline batteries | 3x AAA Alkaline batteries |
| | (Batteries included are for trial use only and may not last as long) | |
| Battery Life | About 6 months*1 | About 6 months |
| Waterproof*2 | IPX4*3 | Main Unit: IPX4*3<br>Temperature Sensor: IPX7*4 |
| Type of Radio Equipment | – | Specified low-power equipment |
| Radio Wave Frequency | – | 313.625 MHz |
| Communication Distance | – | Up to 150 m (line-of-sight distance)*5 |
| Transmission Interval | – | 4 min |
| Size | – | Main Unit: ϕ5 × 50 mm<br>Cord Length: 3 m |

*1 Battery life can be reduced due to the sounding of the buzzer in the alarm function.
*2 Please place a cap on the jack of the temperature sensor when probe is not in use to maintain the water-resistance feature of the additional remote sensor
*3 IPX4 Waterproof: Protected from water spray from any direction
*4 IPX7 Waterproof: Protected from immersion between 15 centimeters and 1 meter in depth
*5 Line-of-sight distance is the maximum distance of transmission in an unobstructed environment on a straight line connecting the base unit and a remote sensor. In some cases, the distance of transmission may decline considerably due to obstructions between the base unit and the remote sensor or other structures that inhibit the radio waves.

*Product is based on Japan domestic radio law (compatible with technical regulation conformity specification). Cannot be used outside of Japan.

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

## Digital Thermometer for Refrigerator

73042

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73042 | A Maximum and Minimum Remote-reading | 65×65×19 | 75 | 4 960910 730427 | 10 | Ⓢⓟ |

**Features**
- Can switch between display of temperature inside and outside the refrigerator
- Displays maximum, minimum, and current temperature together
- Waterproof
- Stand magnet and hook, making it possible to install in a variety of places

**Use**
- For temperature measuring inside and outside refrigerator

**Specifications**

| | |
|---|---|
| Accuracy | Outside Refrigerator (OUT): ±1℃ for 0 - 40℃, ±2℃ for the other temperature<br>Inside Refrigerator (IN): ±1℃ for −10 - 40℃, ±2℃ for the other temperature |
| Measuring Range | Outside Refrigerator (OUT): −5 - 50℃<br>Inside Refrigerator (IN): −50 - 70℃ |
| Minimum Display | IN/OUT: 1℃ MAX/MIN: 1℃ |
| Cord Length | 3 m |
| Material | Body: ABS resin, polycarbonate |
| Power Source | 1x Alkaline battery LR44<br>(Battery included is for trial use only and may not last as long) |
| Waterproof | IPX4*1 (for both main unit and sensor) |

*1 IPX4 Waterproof: Protected from water spray from any direction

## Thermometer for Refrigerator

Antibacterial agent compounded

72532

Antibacterial agent compounded

72703

72692

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72532 | A with Magnet | 135×24×7 | 20 | 4 960910 725324 | 10 | Ⓢⓟ |
| 72703 | A-3 5 cm | ϕ50×20 | 17 | 4 960910 727038 | 5 | |
| 72692 | A-4 Remote-reading with Magnet | 144×41×26 | 70 | 4 960910 726925 | | |

**Features**
- ■A
- Magnet and double-sided mount tape on the back
- ■A-3
- Measure by installing aluminum base and setting up thermometer on it. Two aluminum bases are included to position two different places such as refrigerator and freezer. Optimum range indicator sticker is included.
- ■A-4
- Sensor inside refrigerator measures temperature which is read on unit attached to the outside of the refrigerator (cord length: 70 cm, sensor part: 5 cm)

**Use**
- For measuring temperature inside of refrigerator

**Specifications**

| | 72532 | 72703 | 72692 |
|---|---|---|---|
| Accuracy | ±2℃ | | |
| Measuring Range | −30 - 50℃ | −34 - 50℃ | −40 - 50℃ |
| Each Graduation | 1℃ | 2℃ | |
| Material | Body: Polystyrene resin (Antibacterial agent compounded) | Body: ABS resin (Antibacterial agent compounded) Scale Plate Cover: Polystyrene resin | Body: ABS resin Scale Plate Cover: Aluminum |
| Accessories | Double-sided tape | 2x Aluminum bases Optimum range indicator seal | Holder |

## Digital Thermometer for Refrigerator T

72980

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72980 | Round-shape | ϕ50×20 | 38 | 4 960910 729803 | 10 | Ⓢⓟ |

**Features**
- Magnet on the back
- Store excess cord around unit
- Position extra long cord with suction cups

**Use**
- For measuring temperature inside of refrigerator

**Specifications**

| | |
|---|---|
| Accuracy | −10 - 30℃: ±1℃ Other values: ±2.5℃ |
| Measuring Range | −30 - 50℃ |
| Cord Length | 1.2 m |
| Material | Body: ABS resin |
| Power Source | 1x Alkaline battery LR1130 (included)<br>(Battery included is for trial use only and may not last as long) |

## Digital Thermometer for Cooking

72978

72979

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72978 | T-Pink | 213×25×15 | 21 | 4 960910 729780 | 5 | Ⓢⓟ |
| 72979 | T-Green | 213×25×25 | 21 | 4 960910 729797 | | |

**Features**
- Measures temperature with ON/OFF switch operation
- Long probe helps safe measurement
- Drip-proof design

**Use**
- For measuring temperature of food or oil for deep frying

**Specifications**

| | |
|---|---|
| Accuracy | 0 - 100℃: ±1℃ Other values: ±2℃ |
| Measuring Range | −30 - 250℃ |
| Minimum Measurement | 0.1℃ |
| Display | 4 digits character height 11 mm |
| Material | Display, Cap: ABS resin<br>Thermometer: Stainless steel |
| Power Source | 1x Alkaline battery LR44 (included)<br>(Battery included is for trial use only and may not last as long) |
| Auto Power Off | Approximately 30 minutes after turning on power |
| Accessories | Cap |

## Thermometer for Frying Oil

72967

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72967 | Chopstick Model | φ26×350 | 50 | 4 960910 729674 | 10 | SP |

### Features

- Specifically designed to measure oil for deep-frying. The chopstick shape allows temperature measurement while using as cooking chopsticks.
- Lightweight and non-slip aluminum, easy to clean

### Use

- For measuring oil temperature when cooking fried foods

### Specifications

| | |
|---|---|
| Accuracy | ±5℃ |
| Measuring Range | 100 - 200℃ |
| Each Graduation | 5℃ |
| Material | Body: ABS resin, aluminum |

## Digital Thermometer for Bath

73098

Turns on with a simple bump

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73098 | B | 95×75×30 | 55 | 4 960910 730984 | 5 | SP |

### Features

- Cute thermometer that make bath time fun
- Ideal for temperature control of a baby bath with warning display function that notifies of high/low temperature

### Use

- For health management and baby bath temperature control

### Specifications

| | |
|---|---|
| Accuracy | 25 - 45℃: ±1℃ Other values: ±2℃ |
| Measuring Range | 0 - 50℃ |
| Minumum Display | 1℃ |
| Measurement Interval | 5 sec |
| Power Source | 1x Lithium battery CR2032 (Battery included is for trial use only and may not last as long) |
| Auto Power Off | Approximately 1 hour after turning on power |
| Material | Body: Vinyl chloride resin, ABS resin Temperature Sensor: Stainless steel |

## Thermometer for Bath

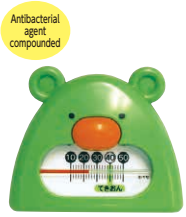
72648

72760

72651

72725

73095




73051

73052

73096

73097

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72648 | B Blue | 160×63×23 | 48 | 4 960910 726482 | 10 | SP |
| 72760 | B Pink | 160×63×23 | 48 | 4 960910 727601 | | |
| 72651 | B-3 | φ25×215 | 48 | 4 960910 726512 | | |
| 72725 | B-8 | 125×87×23 | 45 | 4 960910 727250 | | |
| 73051 | B-9 Green and White | 94×78×28 | 40 | 4 960910 730519 | 5 | |
| 73052 | B-9 White and Pink | 94×78×28 | 40 | 4 960910 730526 | | |
| 73095 | B-10 Pink | 96×91×26 | 48 | 4 960910 730953 | | |
| 73096 | B-10 Purple | 96×91×26 | 48 | 4 960910 730960 | | |
| 73097 | B-10 White | 96×91×26 | 48 | 4 960910 730977 | | |

### Features

- Cute thermometers that make bath time fun
- Antibacterial agent compounded body keeps it clean (except for 72651)
- B-10 model has a receptacle for essential oils so the aroma can be enjoyed at bath time

*Essential oils not included

### Use

- Temperature control for baby's bath
- For heat shock prevention

### Specifications

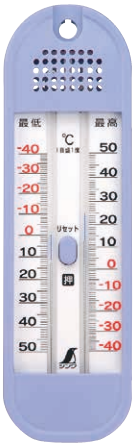
| | 72648 | 72760 | 72651 |
|---|---|---|---|
| Accuracy | ±2℃ | | ±1℃ |
| Measuring Range | 20 - 60℃ | | −5 - 55℃ |
| Each Graduation | 2℃ | | 1℃ |
| Material | Body: Polystyrene resin (Antibacterial agent compounded) | | Body: Polystyrene resin Weight: Lead |

| | 72725 | 73051 | 73052 |
|---|---|---|---|
| Accuracy | ±2℃ | | |
| Measuring Range | 20 - 50℃ | 10 - 50℃ | |
| Each Graduation | 2℃ | | |
| Material | Body: Polystyrene resin (Antibacterial agent compounded) | | |

| | 73095 | 73096 | 73097 |
|---|---|---|---|
| Accuracy | ±2℃ | | |
| Measuring Range | 10 - 50℃ | | |
| Each Graduation | 2℃ | | |
| Material | Body: Polypropylene resin (Antibacterial agent compounded) | | |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge | Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

## Maximum and Minimum Thermometer



72709

72715

*Mercury products will be discontinued at the end of 2020.

### Features

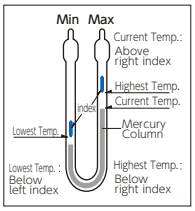
- Measures highest and lowest temperatures and current temperature at the same time

### Use

- For temperature control in various situations

### Specifications

| | 72709 | 72715 |
|---|---|---|
| Accuracy | ±2℃ | |
| Measuring Range | −40 - 50℃ | |
| Each Graduation | 1℃ | 2℃ |
| Material | Body: ABS resin<br>Thermometric Material: Mercury, creosote, alcohol | Body: Polystyrene resin |

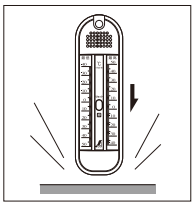



How to use

①Pull down the index to the mercury column by pushing the reset button.

②Index will be pushed up and stopped by the change in temperature.

The mercury column may split during shipping. This condition will not allow accurate measuring. Simple steps will easily restore.

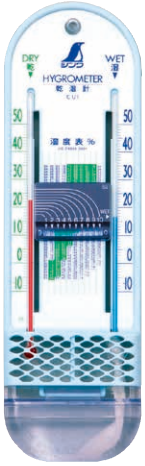


How to fix

1. Turn it upside down and push the reset button. Separate the mercury column and the index as far as possible.
2. Turn the unit back and knock it lightly on a rubber plate or shake it down multiple times.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72709 | D-7 ℃ L | 220×65×22 | 110 | 4 960910 727090 | 5 | SP |
| 72715 | D-9 ℃ L | φ106×43 | 80 | 4 960910 727151 | | |

## Psychrometer



72706

How to use

①Move the measuring plate and match ▼ to the 16℃ indication on WET side.

②Read off the value on the arrow which is pointed out from the 26℃ indication on DRY side.

WET: 16℃
DRY: 26℃ → 38%

### Features

- Two thermometers are combined to measure humidity by finding difference in temperature between the wet bulb and the dry bulb
- Special lens makes the humidity table easy to read

### Use

- For humidity control at home, in classroom, and office (also shows room temperature)

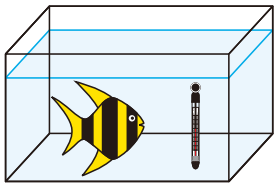
### Specifications

| | |
|---|---|
| Accuracy | Temperature: ±1℃ |
| | Humidity: ±10% |
| Measuring Range | Temperature: −10 - 50℃ |
| | Humidity: 10 - 94% |
| Each Graduation | Temperature: 1℃ |
| | Humidity: − |
| Material | Body: Polystyrene resin<br>Movable Plate, Water Tank: AS resin |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72706 | E-2 ℃% L | 285×84×26 | 100 | 4 960910 727069 | 5 | SP |

## Thermometer for Aquarium

72583



### Features

- High, low, and moderate temperatures are color coded for easy reading
- Suction cap and the lead weight stabilize the thermometer so it can be read from outside the tank

### Use

- For temperature control in a fish tank

### Specifications

| | |
|---|---|
| Accuracy | ±1℃ |
| Measuring Range | 0 - 40℃ |
| Each Graduation | 1℃ |
| Material | Body: Glass Weight: Lead |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72583 | L ℃ | φ13×150 | 18 | 4 960910 725836 | 10 | SP |

# Infrared Thermometer

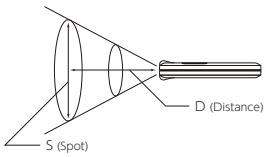
73038

D:S 1:1 | ENERGY SAVING Auto power off | MEASURING RANGE −33 -199℃

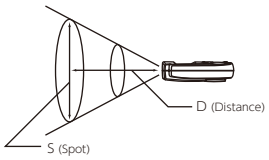
73009

With stand
Clock function
*Displays the room temperature during the clock mode

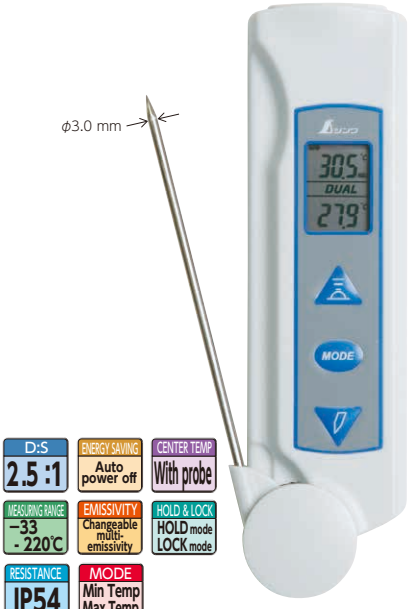
D:S 1:1 | ENERGY SAVING Auto power off (Without clock function) | CONVENIENT FUNCTION Clock Function Stopwatch Function | MODE Max Temp Min Temp Room thermometer | MEASURING RANGE −55℃ - 220℃ | EMISSIVITY Changeable multi-emissivity | HOLD & LOCK HOLD mode LOCK mode




D (Distance) : S (Spot) = 1:1
Example: 10 cm distance to the object being measured → 10 cm spot
*Measuring range minimum diameter: 7 mm

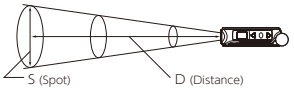



D (Distance) : S (Spot) = 1:1
Example: 10 cm distance to the object being measured → 10 cm spot
*Measuring range minimum diameter: 8 mm




D:S 2.5 :1 | ENERGY SAVING Auto power off | CENTER TEMP With probe | MEASURING RANGE −33 - 220℃ | EMISSIVITY Changeable multi-emissivity | HOLD & LOCK HOLD mode LOCK mode | RESISTANCE IP54 | MODE Min Temp Max Temp

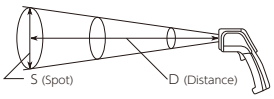
73017




D (Distance) : S (Spot) = 2.5:1
Example: 5 cm distance to the object being measured → 2 cm spot
1 m distance to the object being measured → 40 cm spot
*Measuring range minimum diameter: 10 mm

D:S 12:1 | ENERGY SAVING Auto power off | VISIBLE Laser point | MEASURING RANGE −60 - 500℃ | IN A DARK Back light

73010




D (Distance) : S (Spot) = 12:1
Example: 36 cm distance to the object being measured → 3 cm spot
6 m distance to the object being measured → 50 cm spot
*Measuring range minimum diameter: 20 mm

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73038 | F | 91×36×15 | 31 | 4 960910 730380 | 5 | SP |
| 73009 | A Emissivity Adjustable Model with Clock Function | 68×37×18 | | 4 960910 730090 | | |
| 73017 | D Emissivity Adjustable Model with Probe | 165×20×46 | 92 | 4 960910 730175 | 2 | |
| 73010 | B with Laser Pointer | 185×46×143 | 240 | 4 960910 730106 | | |

## Features

●Non-contact operation makes it safe and sanitary

■F
●Portable, compact size
●Measure quickly with simple design

■A
●Infrared thermometer to measure temperature without touching
●Portable, ultra-compact size
●Continuous measuring mode enables temperature to be displayed in a series
●Min/Max measuring mode displays the lowest and highest temperature while the key is pressed
●Adjustable emissivity

■D
●Two Measuring Methods: Non-contact (infrared), and contact (probe)

・Infrared
Able to safely measure a high-temperature object such as an engine or motor
*Adjustable emissivity according to the object to be measured

・Probe
Check cooked meat with the probe to see if the temperature reaches the point that kills E. coli

●IP54 dust and water proof
5 Dustproof: Protected from limited dust ingress
4 Waterproof: Protected from water spray from any direction

■B
●Laser helps to find the measuring point at a glance
* Center of the measuring range diameter is approximately 2 cm from the laser point.
●Backlight function

## Use

●For various temperature measurements

## Specifications

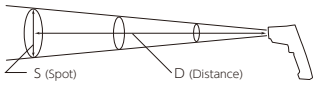
| | 73038 | 73009 |
|---|---|---|
| Accuracy | 0℃ or more: ±2.5% or ±2.5℃ (higher value) −33 - 0℃: ±(−2.5℃+(displayed value×0.05))℃ | ±2% or ±2℃ (higher value) |
| Measuring Range | −33 - 199℃ | −55 - 220℃ |
| Resolution | −9.9 - 199℃: 0.5℃ Other values: 1℃ | −9.9 - 199℃: 0.1℃ Other values: 1℃ |
| Measuring Interval | 1 sec | |
| Measurment Wavelength | 8 - 14 μm | |
| Operating Temperature | 0 - 50℃ | |
| Emissivity | 0.95 (fixed) | Adjustable 0.05 - 1 (default as 0.95) |
| Auto Power Off | 15 seconds after stopped operation | |
| Battery Life | 40 hours (continuous use) | |
| Power Source | 1x Lithium battery CR2032 (Batteries included is for trial use only and may not last as long) | |
| Material | Body: ABS resin | |

| | 73017 | 73010 |
|---|---|---|
| Accuracy | ±2% or ±2℃ (higher value) Probe 65℃ up: ±1% −5 - 65℃: ±0.5℃ −5℃ or less: ±1℃ | 0 - 500℃: ±2% or ±2℃ (higher value) −60 - 0℃: ±(−2℃+(displayed value X 0.05))℃ |
| Measuring Range | −33 - 220℃ | −60 - 500℃ |
| Resolution | −9.9 - 199.9℃: 0.1℃ Other values: 1℃ | |
| Measuring Interval | 1 sec | |
| Measurment Wavelength | 8 - 14 μm | |
| Operating Temperature | 0 - 50℃ | |
| Emissivity | Adjustable 0.1 - 1 (default as 0.95) | 0.95 (fixed) |
| Auto Power Off | 15 seconds after stopped operation | |
| Battery Life | 40 hours (continuous use) | 14 hours (continuous use) |
| Power Source | 1x Lithium battery CR2450 (Batteries included are for trial use only and may not last as long) | 2x AAA Alkaline batteries |
| Laser Wavelength | — | 635 - 660 nm |
| Output | — | 1 mW or less (JIS Class2) |
| Dust/Waterproof | IP54 | — |
| Material | Body: ABS resin | |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Infrared Thermometer

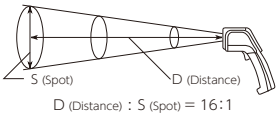
73036




D (Distance) : S (Spot) = 12:1

Example: 24 cm distance to the object being measured → 2 cm spot
6 m distance to the object being measured → 50 cm spot
*Measuring range minimum diameter: 20 mm

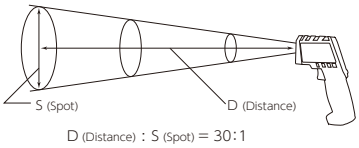
73014




D (Distance) : S (Spot) = 16:1

Example: 48 cm distance to the object being measured → 3 cm spot
8 m distance to the object being measured → 50 cm spot
*Measuring range minimum diameter: 20 mm

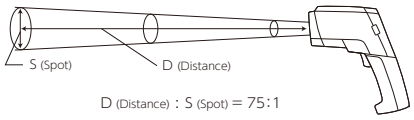
73063




D (Distance) : S (Spot) = 30:1

Example: 90 cm distance to the object being measured → 3 cm spot
15 cm distance to the object being measured → 50 cm spot
*Measuring range minimum diameter: 20 mm

73100




D (Distance) : S (Spot) = 75:1

Example: 2 m 25 cm distance to the object being measured → 3 cm spot
7 m 50 cm distance to the object being measured → 10 cm spot
*Measuring range minimum diameter: 25 mm

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73036 | E Emissivity Adjustable Model with Dual Laser Pointer | 144×43×117 | 180 | 4 960910 730366 | 2 | SP |
| 73014 | C Emissivity Adjustable Model | 185×46×143 | 245 | 4 960910 730144 | | |
| 73063 | G Shock-resistant Emissivity Adjustable Model with Dual Laser Pointer | 172×46×119 | 252 | 4 960910 730632 | | |
| 73100 | H Emissivity Adjustable Model with Dual Laser Pointer for High Temperature | 204×58×179 | 370 | 4 960910 731004 | 1 | B |

## Features

- Non-contact operation makes it safe and sanitary
- Adjustable emissivity according to the object to be measured
- Can show temperature simultaneously with maximum temperature, minimum temperature, difference between max/min temperature, or average temperature
- HI/LOW alarm function beeps and displays a notification when a set temperature is reached
- Backlight function

■E
- IP54 dust and water proof
  5 Dustproof: Penetration by a little dust will not disturb normal operation
  4 Waterproof: Drops of water from any direction do not affect normal operation

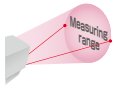
■C
- Laser helps to find the measuring point at a glance

*Center of the measuring range diameter is approximately 2 cm from the laser point.

■G
- Shock-resistant model
- Color bars indicating temperature change (Max/Min temperature mode)

■H
- Model for high temperature measurements. Measurement range is −35 - 1,500℃ to give the widest-possible range of temperature measurements.
- With memory function that records a maximum of 24 readings
- High distance coefficient of D:S=75:1 enables measurement of a narrow range even from a distant position
- Comes with convenient protector case for storage and portability

■E/G/H
- Dual-laser points show both sides of the measuring range diameter




■G/H
- Tripod socket screw for fixed point measurement

## Use

- For various temperature measurements

## Specifications

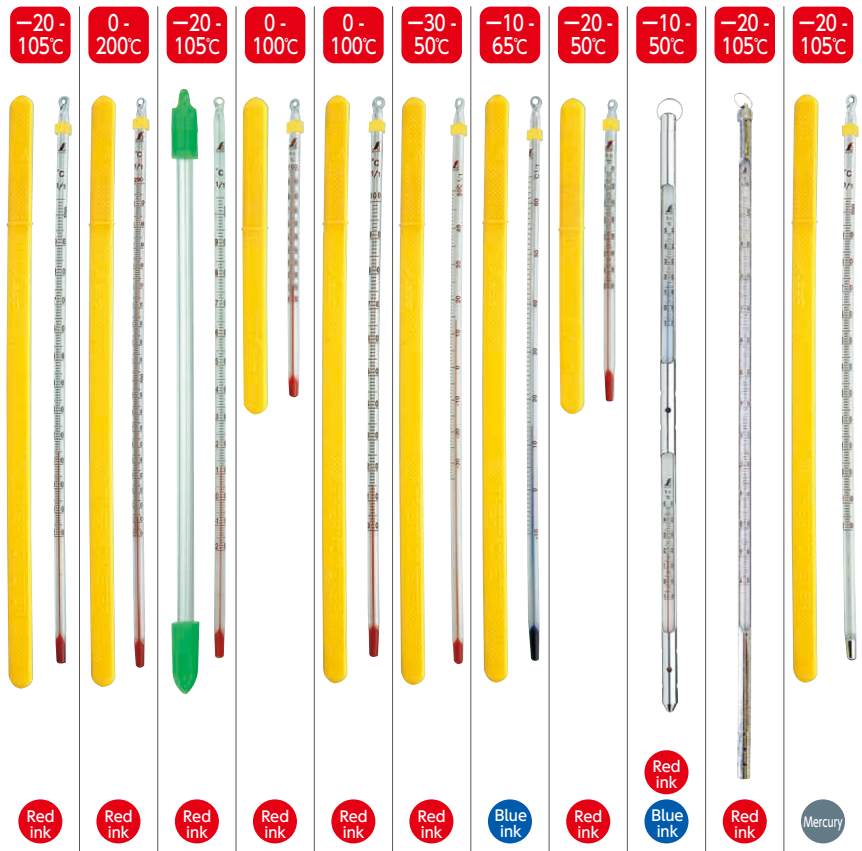
| | 73036 | 73014 |
|---|---|---|
| Accuracy | 0 - 550℃: ±2% or 2℃ (higher value)<br>−60 - 0℃: ±(−2℃+(displayed value X 0.05))℃ | 0 - 625℃: ±2% or 2℃ (higher value)<br>−60 - 0℃: ±(−2℃+(displayed value X 0.05))℃ |
| Measuring Range | −60 - 550℃ | −60 - 625℃ |
| Resolution | −9.9 - 199℃: 0.1℃ Other values: 1℃ | |
| Measuring Interval | 1 sec | |
| Measurment Wavelength | 8 - 14 μm | |
| Operating Temperature | 0 - 50℃ | |
| Emissivity | Adjustable 0.1 - 1 (default as 0.95) | |
| Auto Power Off | 60 seconds after stopped operation | |
| Battery Life | 14 hours (continuous use)*1 | |
| Power Source | 2x AAA Alkaline batteries (Batteries included are for trial use only and may not last as long) | |
| Laser Wavelength | 635 - 660 nm | |
| Output | 1 mW or less (JIS Class2) | |
| Dust/Waterproof | IP54 | — |
| Material | Body: ABS resin, elastomer resin | Body: ABS resin |

| | 73063 | 73100 |
|---|---|---|
| Accuracy | 0 - 760℃: ±2% or ±2℃ (higher value)<br>−60 - 0℃: ±(−2℃+(displayed value×0.05))℃ | 0 -1 500℃: ±2% or ±2℃ (higher value)<br>−35 - 0℃: ±(−2℃+(displayed value×0.05))℃ |
| Measuring Range | −60 - 760℃ | −35 - 1,500℃ |
| Resolution | 0.1℃ | −35-999.9℃: 0.1℃<br>Other values: 1℃ |
| Measuring Interval | 1 sec | |
| Measurment Wavelength | 8 - 14 μm | |
| Operating Temperature | 0 - 50℃ | |
| Emissivity | Adjustable 0.1 - 1 (default as 0.95) | |
| Auto Power Off | 60 seconds after stopped operation | |
| Battery Life | 7 hours (continuous use) *2 | 12 hours (continuous use) *1 |
| Power Source | 2x AAA Alkaline batteries (Batteries included are for trial use only and may not last as long) | |
| Laser Wavelength | 635 - 660 nm | |
| Output | 1 mW or less (JIS Class2) | |
| Tripod Screw | 1/4 inch | |
| Material | Body: ABS resin | |

*1 140 hours of continuous use when not using the laser pointer and backlight
*2 30 hours of continuous use when not using the laser pointer

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Stick Thermometer Alcohol/Mercury Individually Packaged




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72508 | H −20 - 105℃ 30 cm ℃ | 300×6×6 | 21 | 4 960910 725089 | 10 | SP |
| 72510 | H-2 0 - 200℃ 30 cm ℃ | 300×6×6 | 21 | 4 960910 725102 | | |
| 72511 | H-3 −20 - 105℃ 30 cm ℃ | 300×6×6 | 21 | 4 960910 725119 | | |
| 72514 | H-4 0 - 100℃ 15 cm ℃ | 153×6×6 | 11 | 4 960910 725140 | | |
| 72547 | H-5 0 - 100℃ 30 cm ℃ | 300×6×6 | 21 | 4 960910 725478 | | |
| 72574 | H-6 −30 - 50℃ 30 cm ℃ | 300×6×6 | 21 | 4 960910 725744 | | |
| 72577 | H-7 −10 - 65℃ 30 cm ℃ | 300×6×6 | 21 | 4 960910 725775 | | |
| 72579 | H-8 −20 - 50℃ 15 cm ℃ | 153×6×6 | 11 | 4 960910 725799 | | |
| 72581 | H-9 −10 - 50℃ 15 cm x 2 pc-set ℃ | 347×15×9 | 68 | 4 960910 725812 | | |
| 72604 | H-10 −20 - 105℃ 45 cm ℃ | 480×14×12 | 93 | 4 960910 726048 | | |
| 72516 | I −20 - 105℃ 30 cm ℃ | 300×6×6 | 23 | 4 960910 725164 | | |

### Features

- Alcohol model is easy to read
- Mercury model is watertight. Due to its high boiling point, it is good for measuring high temperature.
- Can be used inside its transparent protective case (72581)
- Can simultaneously measure ground temperature + air temperature, or water temperature + air temperature, etc. Can be used inside its metal protective case. (72511)
- Rubber stopper to prevent rolling (except 72511/72581/72604)

### Use

For melting chocolate over hot water in cooking

For measuring temperature of solution, etc.

For measuring ground temperature

For measuring temperature of cooking oil, etc. (72510)

### Specifications

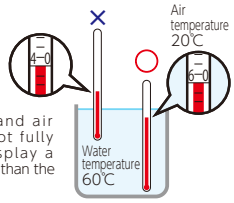
| | 72508 | 72510 | 72511 |
|---|---|---|---|
| Accuracy | ±1℃ | | |
| Each Graduation | 1℃ | | |
| Material | Body: Glass<br>Temperature Sensitive Liquid: Colored refined white kerosene<br>Case: Polyethylene resin | | Body: Glass<br>Temperature Sensitive Liquid: Colored refined white kerosene<br>Case: Polypropylene resin |

| | 72514 | 72547 | 72574 |
|---|---|---|---|
| Accuracy | ±1℃ | | |
| Each Graduation | 1℃ | | |
| Material | Body: Glass<br>Temperature Sensitive Liquid: Colored refined white kerosene<br>Case: Polyethylene resin | | |

| | 72577 | 72579 | 72581 |
|---|---|---|---|
| Accuracy | ±1℃ | | |
| Each Graduation | 1℃ | | |
| Material | Body: Glass<br>Temperature Sensitive Liquid: Colored refined white kerosene<br>Case: Polyethylene resin | | Body: Glass<br>Temperature Sensitive Liquid: Colored refined white kerosene<br>Case: Brass |

| | 72604 | 72516 |
|---|---|---|
| Accuracy | ±1℃ | |
| Each Graduation | 1℃ | |
| Material | Body: Glass<br>Temperature Sensitive Liquid: Colored refined white kerosene<br>Case: Brass | Body: Glass<br>Temperature Sensitive Liquid: Mercury<br>Case: Polyethylene resin |

*Stick thermometer is a fully immersive thermometer – it only indicates the correct temperature after temperature gauge is fully immersed. Since it simultaneously measures water temperature and air temperature when not fully immersed, it may display a temperature that is lower than the actual water temperature.




## Metal Case for Stick Thermometer

72729

72731

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72729 | for 30 cm | 341×14×16 | 44 | 4 960910 727298 | 10 | SP |
| 72731 | for 15 cm | 190×14×16 | 28 | 4 960910 727311 | | |

### Features

- Case window allows measuring and reading of the scale while thermometer stays in the case

### Use

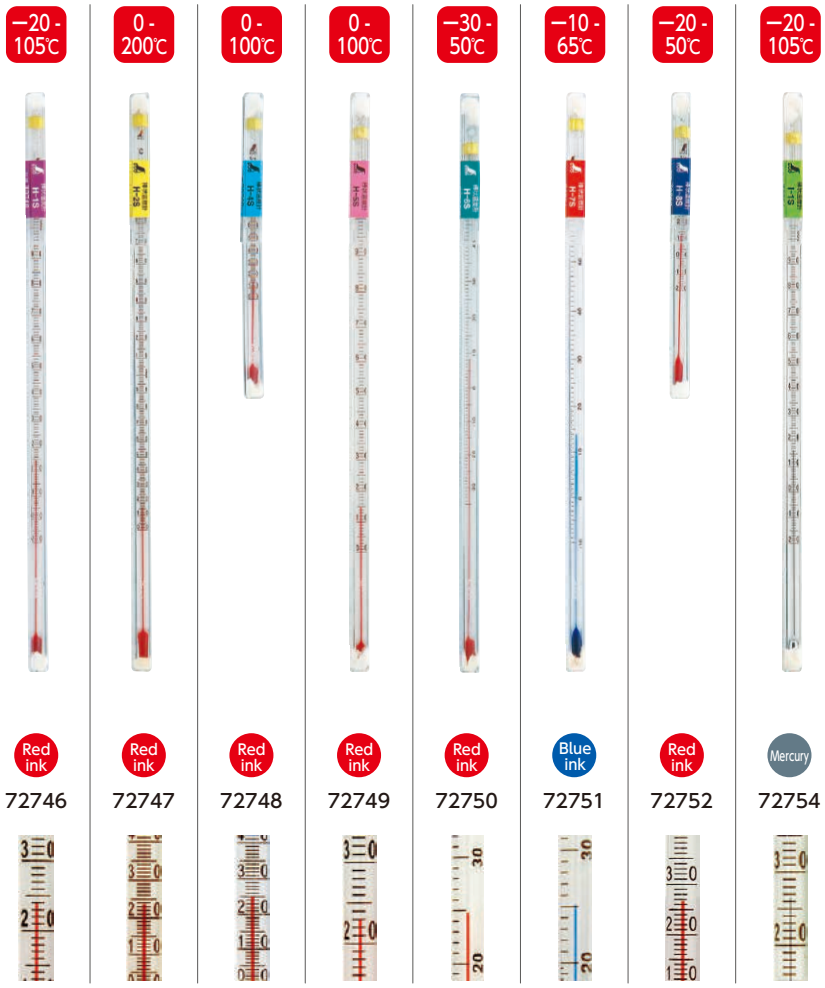
- For protection of glass material stick thermometers

### Specifications

| | |
|---|---|
| Material | Brass |
| Operating Temperature | −30 - 200℃ |

JIS JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

# Stick Thermometer Alcohol/Mercury Bulk Packaged




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72746 | H-1S −20 - 105℃ 30 cm ℃ | 300×6×6 | 21 | 4 960910 727465 | 10 | ☑ |
| 72747 | H-2S 0 - 200℃ 30 cm ℃ | 300×6×6 | 21 | 4 960910 727472 | | |
| 72748 | H-4S 0 - 100℃ 15 cm ℃ | 153×6×6 | 11 | 4 960910 727489 | | |
| 72749 | H-5S 0 - 100℃ 30 cm ℃ | 300×6×6 | 21 | 4 960910 727496 | | |
| 72750 | H-6S −30 - 50℃ 30 cm ℃ | 300×6×6 | 21 | 4 960910 727502 | | |
| 72751 | H-7S −10 - 65℃ 30 cm Blue ℃ | 300×6×6 | 21 | 4 960910 727519 | | |
| 72752 | H-8S −20 - 50℃ 15 cm ℃ | 153×6×6 | 11 | 4 960910 727526 | | |
| 72754 | I-1S −20 - 105℃ 30 cm ℃ | 300×6×6 | 23 | 4 960910 727540 | | |

## Features

- Affordable price with simple packaging
- Rubber stopper to prevent rolling

## Use

For melting chocolate over hot water in cooking

For measuring temperature of solution, etc.

For measuring ground temperature

For measuring temperature of cooking oil, etc. (72747)

## Specifications

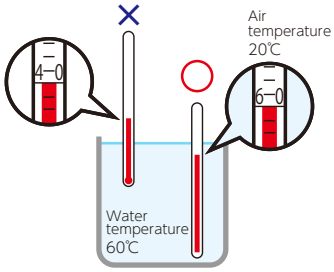
| | 72746 | 72747 | 72748 |
|---|---|---|---|
| Accuracy | ±1℃ | | |
| Each Graduation | 1℃ | | |
| Material | Body: Glass<br>Temperature Sensitive Liquid: Colored refined white kerosene | | |

| | 72749 | 72750 | 72751 |
|---|---|---|---|
| Accuracy | ±1℃ | | |
| Each Graduation | 1℃ | | |
| Material | Body: Glass<br>Temperature Sensitive Liquid: Colored refined white kerosene | | |

| | 72752 | 72754 |
|---|---|---|
| Accuracy | ±1℃ | |
| Each Graduation | 1℃ | |
| Material | Body: Glass<br>Temperature Sensitive Liquid: Colored refined white kerosene | Body: Glass<br>Temperature Sensitive Liquid: Mercury |

Packaging:
With hook pin

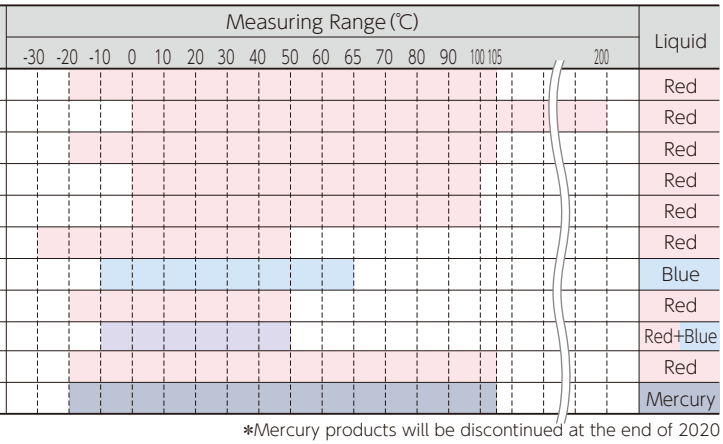
*Stick thermometer is a fully immersive thermometer – it only indicates the correct temperature after temperature gauge is fully immersed.




Since it simultaneously measures water temperature and air temperature when not fully immersed, it may display a temperature that is lower than the actual water temperature

# Stick Thermometer Specifications

| Item Code | Description | Size | Measuring Range (℃) | Liquid |
|---|---|---|---|---|
| 72508/72746 | H/H-1S | 30 cm | | Red |
| 72510/72747 | H-2/H-2S | 30 cm | | Red |
| 72511 | H-3 | 30 cm | | Red |
| 72514/72748 | H-4/H-4S | 15 cm | | Red |
| 72547/72749 | H-5/H-5S | 30 cm | | Red |
| 72574/72750 | H-6/H-6S | 30 cm | | Red |
| 72577/72751 | H-7/H-7S | 30 cm | | Blue |
| 72579/72752 | H-8/H-8S | 15 cm | | Red |
| 72581 | H-9 | 15 cm × 2 | | Red+Blue |
| 72604 | H-10 | 45 cm | | Red |
| 72516/72754 | I/I-1S | 30 cm | | Mercury |




*Mercury products will be discontinued at the end of 2020

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Thermometer for Ground Temperature

72627 72623 72639

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72622 | O-2 White | 190×25×7 | 20 | 4 960910 726222 | 10 | SP |
| 72627 | O-2 Yellow | 190×25×7 | 20 | 4 960910 726277 | | |
| 72630 | O-2 Blue | 190×25×7 | 20 | 4 960910 726307 | | |
| 72623 | O-3 Mini A 3 pc-pack (Red, Orange, Purple) | 56×17×3 | 1 | 4 960910 726239 | | |
| 72633 | O-3 Mini B 3 pc-pack (Black, Blue, Green) | 56×17×3 | 1 | 4 960910 726338 | | |
| 72624 | O-4 White with Air Temperature | 245×35×7 | 36 | 4 960910 726246 | | |
| 72636 | O-4 Yellow with Air Temperature | 245×35×7 | 36 | 4 960910 726369 | | |
| 72639 | O-4 Blue with Air Temperature | 245×35×7 | 36 | 4 960910 726390 | | |

### Features

- Use by sticking into the ground or the soil in a pot for temperature control of germination, raising seedlings, and potting
- Growth of plants have a strong relation to ground temperature. This thermometer helps effective cultivation.
- O-3 models are colorful, small three-piece sets
- O-4 models can measure air and ground temperature at the same time

| | 15 - 25℃ | 25 - 30℃ |
|---|---|---|
| Growing Temp. | Morning glory<br>Amaryllis<br>Potato | Tomato<br>Corn<br>Pumpkin |
| Germination Temp. | Tulip<br>Sweet pea<br>Spinach | Zinnia<br>Cosmos<br>Chinese cabbage |

### Use

- For temperature control of soil in gardening and vegetable cultivation, etc.

### Specifications

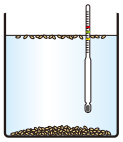
| | 72622 | 72627 | 72630 |
|---|---|---|---|
| Accuracy | ±1℃ | | |
| Measuring Range | −10 - 50℃ | | |
| Each Graduation | 1℃ | | |
| Material | Body: Polystyrene resin | | |

| | 72623 | 72633 |
|---|---|---|
| Accuracy | ±2℃ | |
| Measuring Range | 10 - 50℃ | |
| Each Graduation | 2℃ | |
| Material | Body: Yupo paper | |

| | 72624 | 72636 | 72639 |
|---|---|---|---|
| Accuracy | ±1℃ | | |
| Measuring Range | Ground Temperature: −10 - 50℃ Air Temperature: −20 - 50℃ | | |
| Each Graduation | 1℃ | | |
| Material | Body: Polystyrene resin | | |

## Salt Hydrometer

72718



Floating seeds: The ones that pull out only small buds
Sunken seeds: The good ones which pull out nice buds

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72718 | Salt Hydrometer | ϕ11×205 | 11 | 4 960910 727182 | 5 | SP |

### Features

- Measures the concentration of salt water to separate seeds or unshelled rice
- Color coded to find the ideal gravity for each species of seed

### Use

- For separating seeds or unshelled rice

### Specifications

| | |
|---|---|
| Accuracy | ±1 Heavy Baume degree |
| Measuring Range | 0 - 35 Heavy Baume degree |
| Each Graduation | 1 Heavy Baume degree |
| Material | Body: Glass |

## Soil pH Meter

72724

Easy-reading meter

*This unit cannot measure liquid acidity.
*When measuring, please make sure soil has sufficient moisture as if a mud ball was to be made

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72724 | A | 160×47×47 | 100 | 4 960910 727243 | 6 | SP |

### Features

- Easy operation without battery - simply stick into the soil for a minute to measure
- Cone-shaped end gives the sensor firm contact with the soil and a large measurement area for high accuracy
- Meter stays horizontal for optimum functioning when inserted vertically into soil.

### Use

- For measuring soil acidity

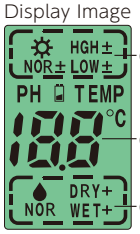
### Specifications

| | |
|---|---|
| Accuracy | ±pH 0.5 |
| Measuring Range | pH 4 - 7 |
| Each Graduation | pH 0.2 |
| Material | Body: ABS resin |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Digital Soil pH Meter

Display Image




*This unit cannot measure liquid acidity.

*When measuring, please make sure soil has sufficient moisture as if a mud ball was to be made

## Features

- Digital display soil pH meter with multi-functions measuring ground temperature, soil moisture, and illuminance
- With backlight
- Switch allows easy change between soil acidity (pH) and temperature (℃)

Reverse side

pH is an index of acidity in soil.
Growth of crops depends significantly on soil pH.

## Use

- For measurement of soil acidity, ground temperature, soil moisture, illuminance in cultivation environment

## Specifications

| | |
|---|---|
| Measuring Target | Acidity of soil, temperature of soil, moisture of soil, illuminance |
| Measuring Range Luminous Intensity (9 levels) | LOW−, LOW, LOW+, NOR−, NOR, NOR+, HGH−, HGH, HGH+ |
| Moisture of Soil (5 levels) | DRY+, DRY, NOR, WET, WET+ |
| Acidity of Soil (14 levels) | pH 3.5 - 9.0 (minimum pH 0.5, accuracy ±pH 0.5) |
| Temperature of Soil | −9 - 50℃ (minimum 1℃, accuracy ±1℃) |
| Power Source | 1x 9 V battery (Battery included is for trial use only and may not last as long) |
| Auto Power Off (approx.) | 5 minutes after stopped operation |
| Auto Backlight Off (approx.) | 1.5 minutes after stopped operation |
| Operating Temperature | 5 - 40℃ |
| Probe Size | ϕ6 × 200 mm |
| Material | Body: ABS resin |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72716 | A | 322×63×36 | 117 | 4 960910 727168 | 2 | SP |

# Digital Soil EC Meter

Carry case

Carry case

## Features

- Easy-to-read liquid crystal display with large lettering (72976)
- Ideal for detailed measurement with a resolution of 1 μS/cm

- Easy operation with just one push of the button
- Liquid temperature measurement function
- Compact, pocket-sized
- Hold function (only for soil EC Measurement Mode)
- Automatic Temperature Compensation (ATC) function
- IPX5 rating means it can be used safely even if it gets wet

*Waterproof: Protected from low pressure water jets from any direction

ATC is an abbreviation for Automatic Temperature Compensation, which is a function that compensates for temperature changes in the liquid being measured by changing the measurement value. This allows precise measurement even without conversion.

EC means Electric Conductivity.
If the EC value of soil is too high (above 1,500 μS/cm), crops cannot absorb nutrition effectively and it affects how they grow.

## Use

- For soil conditioning in gardening or agricultural works

## Specifications

| | 72976 | 72758 |
|---|---|---|
| Measuring Range | Soil conductivity 0 - 1,999 μS/cm Temperature 0 - 60℃ | Soil conductivity 0 - 1,999 μS/cm Temperature 0 - 80℃ |
| Accuracy* | Soil conductivity ±20 μS/cm Temperature ±1℃ | |
| Automatic Temperature Compensation (ATC) | Available | |
| Resolution | 1 μS/cm | |
| Waterproof | IPX5 | |
| Power Source | 3x Alkaline batteries LR44 or 3x Silver oxide batteries SR44 (Batteries included are for trial use only and may not last as long) | |
| Auto Power Off | Approx. 5 minutes | |
| Material | Body: ABS resin Sensor Part: Glass | |

*Accuracy is the repeatability of measurements in the standard solution after calibration in the same standard solution.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72976 | Digital Soil EC Meter Ⅱ | ϕ40×185 | 98 | 4 960910 729766 | 1 | B |
| 72758 | Digital Soil EC Meter | ϕ37×180 | 83 | 4 960910 727588 | | |

## Digital pH Meter

72788

Carry case

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72788 | Digital pH Meter | φ40×185 | 110 | 4 960910 727885 | 1 | B |

### Features

- Compact size convenient for carrying
- Hold function
- IPX5* rating means it can be used safely even if it gets wet

*Protected from low pressure water jets from any direction

### Use

- For measurement of pH
- For water quality tests in pools, drinking water tests, and fish farming management
- For pH management of soil in agricultural fields. (When measuring soil pH, measure the top clear layer of the solution mixed with a ratio of 1 part soil to 2.5 parts water.)

### Specifications

| | |
|---|---|
| Measuring Range | pH 1.0 - 14.0 |
| Accuracy* | ±pH 0.1 |
| Usable Liquid Temperature Range | 5 - 35℃ |
| Resolution | pH 0.1 |
| Waterproof | IPX5 |
| Power Source | 3x Alkaline batteries LR44 or 3x Silver oxide batteries SR44 (Batteries included are for trial use only and may not last as long) |
| Auto Power Off | Approx. 8 minutes |
| Material | Body: ABS resin Sensor Part: Glass |

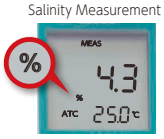
*Accuracy is the repeatability of measurements in the standard solution after calibration in the same standard solution.

## Digital Salinity Meter

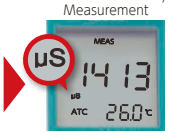
72799

Carry case

Salinity Measurement




Electric Conductivity Measurement




Can switch from salinity measurement to electric conductivity (EC) measurement with one button

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72799 | Digital Salinity Meter | φ40×185 | 114 | 4 960910 727991 | 1 | B |

### Features

- Compact size convenient for carrying
- Hold function
- Automatic Temperature Compensation (ATC) function
- Electric conductivity measurement function
- Liquid temperature measurement function
- IPX5* rating means it can be used safely even if it gets wet

*Protected from low pressure water jets from any direction

ATC is an abbreviation for Automatic Temperature Compensation, which is a function that compensates for temperature changes in the liquid being measured by changing the measurement value. This allows precise measurement even without conversion.

### Use

- For management of fish farming and drinking water
- Measure salinity of liquids

### Specifications

| | | |
|---|---|---|
| Measuring Range | | Salinity: 0 - 8.0% |
| | | Electric Conductivity: 0 - 200 mS/cm*1 |
| | | Temperature: 0 - 60℃ |
| Accuracy*2 | | Salinity: ±0.2% |
| | Electric Conductivity | 0 - 1999 µS/cm*1: ±20 µS/cm<br>2 - 200 mS/cm: ±2 mS/cm |
| | | Temperature: ±1℃ |
| Automatic Temperature Compensation (ATC) | | Available |
| Resolution | | Salinity: 0.1% |
| | | Electric Conductivity: 1 µS/cm |
| | | Temperature: 0.1℃ |
| Waterproof | | IPX5 |
| Power Source | | 2x AAA Alkaline batteries (Batteries included are for trial use only and may not last as long) |
| Auto Power Off | | Approx. 8 minutes |
| Material | | Body: ABS resin Sensor Part: Glass |

*1 Will automatically switch to mS/cm if measurement value exceeds 1999µS/cm
*2 Accuracy is the repeatability of measurements in the standard solution after calibration in the same standard solution.

## Solutions

73033

73034

73035

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73033 | Calibration Buffer Solution pH 4.01, pH 7.01 3 Each | 148×70×5 | 23×6 | 4 960910 730335 | 5 | B |
| 73034 | Calibration Buffer Solution pH 10.01, pH 7.01 3 Each | 148×70×5 | 23×6 | 4 960910 730342 | | |
| 73035 | Conductivity Solution 1413 µS/cm 6 Sachets | 148×70×5 | 23×6 | 4 960910 730359 | | |

### Features

- Disposable type with just the right amount for one-time calibration
- Preparing a beaker is unnecessary since the sensor can be dipped into the pouch as is

### Use

- For calibration of pH Meter and EC Measurement

### Specifications

| | 73033 | 73034 | 73035 |
|---|---|---|---|
| Accuracy* | ±pH 0.01 | | — |
| Volume | 1 sachet 20 ml | | |
| Compatible Products | 72788 | | 72976/72758 72799 |

*Accuracy at 25℃

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

# Digital Lux Meter

78747

Storage case

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78747 | Digital Lux Meter | Display Part: 130×72×30<br>Receiver Part: 106×57×26 | 210 | 4 960910 787476 | 1 | B |

## Features

- Separate light sensor allows sensor to be pointed towards light source while reading LCD display for better accuracy
- Measuring range switch enables switching between three different measurement ranges
- Peak hold function that locks screen at the maximum measured value
- Easy-to-read, large letter LCD screen (17 mm)

## Use

- For luminance control at office, factory, or inside greenhouse

## Specifications

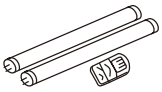
| | |
|---|---|
| Measuring Range | 0 - 40,000 lux |
| Resolution | 0.1 lux |
| Sensitivity | 0 - 10,000 lux: ±(4%+10 dgt)<br>10,001 - 40,000 lux: ±(5%+10 dgt) |
| Repeatability | ±2% |
| Measurement Cycle | Twice/second |
| Light Receiver | Photodiode sensor |
| Operation Requirement | Temperature: 0 - 40℃ Humidity: Below 70% |
| Storage Requirement | Temperature: −10 - 50℃ Humidity: Below 80% |
| Power Source | 1x 9V Battery (included)<br>(Battery included is for trial use only and may not last as long) |
| Material | Body: ABS resin Cover: Rubber |

# Lux Meter

78604

### Note

Low luminance fluorescent light wastes electricity. Measure the light's luminance by turning conversion switch on to the right (×10) and directly facing it. If it shows below 13,000 lux, it's time to replace the tube no matter what watt value it usually shows.



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78604 | Lux Meter | 100×64×24 | 70 | 4 960910 786042 | 5 | SP |

## Features

- Instantly finds the brightness of a room
- Illuminometer with solar battery
- Proper luminance reading chart

## Use

- For luminance control in a room, etc.

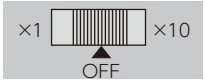
Example of proper luminance (lux)

| | |
|---|---|
| Gathering/Dinner | 300 - 500 |
| Reading/Studying | 550 - 1,000 |
| PC/Detail Work | 1,000 - 1,500 |

## Specifications

| | |
|---|---|
| Material | Body: ABS resin |
| Measuring Range | 0 - 15,000 lux |

Conversion Switch




×1 (left side) 0 - 1,500 lux
×10 (right side) 0 - 15,000 lux

# Digital UV Light Meter

78642

Carry case

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78642 | Digital UV Light Meter | Display Part: 130×72×30<br>Receiver Part: 164×50×32 | 219 | 4 960910 786424 | 1 | B |

## Features

- Ideal for control and confirmation of ultraviolet light intensity
- Separate light sensor allows sensor to be pointed towards light source while reading LCD screen for better accuracy
- Measuring range switch enables switching between three different measurement ranges
- Peak hold function that locks screen at the maximum measured value
- Easy-to-read, large letter LCD screen (17 mm)

## Use

- For industrial use facility management
- For control of UV lamps such as UV dryers
- Simple confirmation for products that cut UV light

## Specifications

| | |
|---|---|
| Measuring Range | 0 - 20.00 mW/cm² |
| Display Mode Range | Range 0 - 400.0 μW/cm²<br>Range 0 - 4000 μW/cm²<br>Range 0 - 20.00 mW/cm² |
| Resolution | Range 0 - 400.0 μW/cm² : 0.1 μW/cm²<br>Range 0 - 4000 μW/cm² : 1 μW/cm²<br>Range 0 - 20.00 mW/cm² : 0.01 mW/cm² |
| Accuracy | Range 0 - 400.0 μW/cm² : ±16.2 μW/cm²<br>Range 0 - 4000 μW/cm² : ±162 μW/cm²<br>Range 0 - 20.00 mW/cm² : ±1.62 mW/cm² |
| Measurement Wavelength | 290 - 390 nm (Supports UVA-UVB) |
| Use Environment | Temperature: 0 - 40℃ Humidity: Below 70% |
| Power Source | 1x 9V Battery (included)<br>(Battery included is for trial use only and may not last as long) |
| Material | Body: ABS resin Cover: Rubber |

## Digital Noise Meter

78588

Carry case

Cushioned case

### Features

- Able to keep displaying maximum value during measurement
- 3 measuring ranges
- Portable, compact size
- Works right out of the box; user friendly

### Use

- For checking noise level at construction sites or factories

### Specifications

| | |
|---|---|
| Measuring Range | 30 - 130 dB |
| Resolution | 0.1 dB |
| Accuracy | ±1.5 dB (at 94 dB and 1 KHz) |
| Frequency Range | 31.5 Hz - 8 KHz |
| Frequency Weighting | A/C switchable |
| Display Mode Range | 30 - 70 dB |
| | 60 - 100 dB |
| | 90 - 130 dB |
| Response Speed | FAST (125 ms) SLOW (1 s) |
| Operation Requirements | Temperature: 0 - 40℃ Humidity: 10 - 90% |
| Storage Requirements | Temperature: −10 - 60℃ Humidity: 10 - 75% |
| Power Source | 1x 9V Battery (included) (Battery included is for trial use only and may not last as long) |
| Material | Body: ABS resin |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78588 | with Maximum Value Holding Function | 185×63×35 | 150 | 4 960910 785885 | 1 | B |

## Metallic Hourglass

70304

### Features

- Sleek design
- Feel the passing of time with smooth falling sand
- Durable metal frame makes it usable professionally in restaurant or kitchen

### Use

- For a variety of time management tasks
- As an interior decoration or accessory

*Not for use in a sauna

### Specifications

| | |
|---|---|
| Accuracy | Within ±20 seconds |
| Material | Body: Zinc alloy die cast, glass<br>Sand: Glass |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70304 | for 3-minute | 93×35×24 | 141 | 4 960910 703049 | 5 | SP |

## Hourglass

70550

70551

70552

### Features

- Various sizes to choose from - one minute, three minutes, and five minutes
- Nice to have as an interior decoration as well

### Use

- For a variety of time management such as brushing teeth, calling time, or training, etc.

*Not for use in a sauna

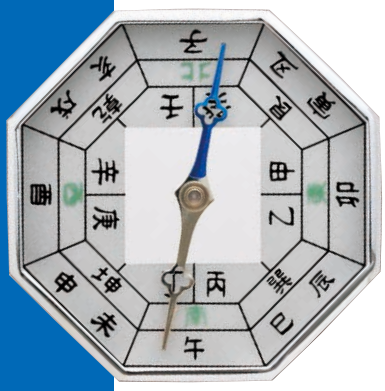
### Specifications

| | 70550 | 70551 | 70552 |
|---|---|---|---|
| Accuracy | Within ±10 secs | Within ±30 secs | Within ±50 secs |
| Material | Body: Wood, glass<br>Sand: Glass | | |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70550 | for 1-minute | ϕ45×88 | 33 | 4 960910 705500 | 5 | SP |
| 70551 | for 3-minute | ϕ50×100 | 43 | 4 960910 705517 | | |
| 70552 | for 5-minute | ϕ55×112 | 53 | 4 960910 705524 | | |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

# 17. Outdoor Products



Packaging: Shrink package, Sleeve package, Box, Bag, Vinyl package + header card, Clear package, Card, Vinyl package, No package

## Pedometer

74132

74133

**Features**

●Large letters for easy reading

**Use**

●For health management

**Specifications**

| | |
|---|---|
| Display | LCD 5-digit display<br>Minimum 1/Max 99,999 |
| Accuracy | Within ±5% |
| Power | 1x Alkaline battery LR44 (included)<br>(Battery included is for trial use only and may not last as long) |
| Material | Body: ABS resin |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 74132 | Q Black | 40×46×21 | 16 | 4 960910 741324 | 5 | SP |
| 74133 | Q White | 40×46×21 | 16 | 4 960910 741331 | | |

## Dry Compass

75602

75603

**Features**

●Most commonly used dry compass

**Use**

●For checking directions of East, West, South, and North

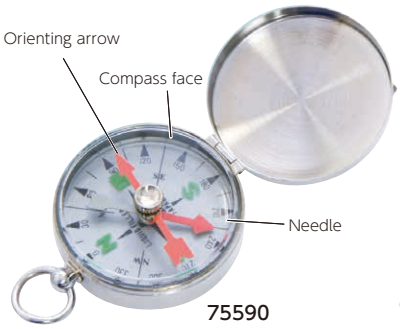
**Specifications**

| | 75602 | 75603 |
|---|---|---|
| Material | Body: Aluminum | Body: Stainless steel, brass |
| | Display Surface: Glass | |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75602 | A-3 Japanese | ϕ45×13 | 18 | 4 960910 756021 | 10 | SP |
| 75603 | B-2 Roman Alphabet | ϕ45×13 | 22 | 4 960910 756038 | | |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge
Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Oil-filled Compass



75590

75592

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75590 | C Roman Alphabet N → Oil | φ45×16 | 39 | 4 960910 755901 | 10 | SP |
| 75592 | C-2 Japanese 北 12 Oil | φ45×15 | 23 | 4 960910 755925 | | |

**Features**

- Oil compass moves the needle slowly and enables a better reading

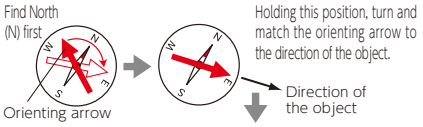
**Use**

- For checking directions of East, West, South, and North
- As a compass for orientating (C)

**Specifications**

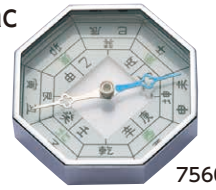
| | 75590 | 75592 |
|---|---|---|
| Material | Body: Brass<br>Display Surface: Acetate resin | Body: ABS resin<br>Display Surface: Acrylic resin |

### ■Using a compass with orienting arrow




If you lose the direction of the object after starting to walk, you can check it by finding North (N) again and following the direction of the orienting arrow.

## Compass Chinese Zodiac


75604

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75604 | D 北 12 | 55×55×13 | 35 | 4 960910 756045 | 10 | SP |

**Features**

- Ideal for finding directions in building sites as you can see map or drawing through the compass

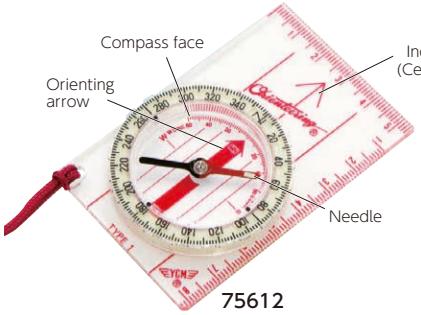
**Use**

- For checking directions of East, West, South, and North
- For checking directions for Feng Shui

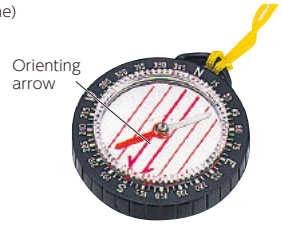
**Specifications**

| | |
|---|---|
| Material | Body: Brass<br>Display Surface: Glass |

## Oil-filled Compass for Orienteering



75612



75614

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75612 | E N → Oil | φ50 (84×54) ×10 | 27 | 4 960910 756120 | 10 | SP |
| 75614 | E-2 Round N → Oil | φ48×12 | 16 | 4 960910 756144 | | |

**Features**

- With neck strap

**Use**

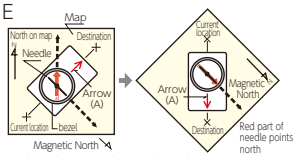
- As a compass for orienteering
- For checking directions of East, West, South, and North
- For mountain climbing, camping, and hiking

**Specifications**

| | 75612 | 75614 |
|---|---|---|
| Material | Body: Acrylic resin<br>Display Surface: Acetate resin | |

### ■How to use E

1. Draw a line between the current location and destination on a map and put the red arrow (A) of compass on the line.
2. Next, turn the rotating bezel to match North on the map.
3. While the compass is still on the map, turn the map to align with Magnetic North. The destination will be in the direction of the red arrow (A).




## Oil-filled Compass for Military

75620

### ■How to use

Hold the compass horizontally and point the lid to a target. Capture the target through the sight of lid's line and the lens holder.

Look at the dial and read off the scale. That scale is the direction of the target.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75620 | F N Oil | φ56×27 | 66 | 4 960910 756205 | 10 | SP |

**Features**

- Four directions of the compass are luminous to show direction even in the dark

**Use**

- For checking directions of East, West, South, and North
- As a military compass

**Specifications**

| | |
|---|---|
| Material | Body: ABS resin<br>Display surface: Glass |
| Display | Outer Side: Mil Inner: Degree |

JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge | Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

## Oil-filled Wood Compass Japanese

75662

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75662 | J 北 Oil | 57×50×13 | 20 | 4 960910 756625 | 10 | SP |

**Features**

- Made of high-quality natural material - "KEYAKI" Japanese zelkova
- Floats on water with 10 atm water resistance
- With 1 m neck strap

**Use**

- For checking directions of East, West, South, and North

**Specifications**

| | |
|---|---|
| Material | Body: Wood (Japanese zelkova)<br>Display Surface: Acetate resin |

## Other Compass

75686

75672

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75686 | I for Zipper ℃ N Oil | 50×28×8.5 | 9 | 4 960910 756861 | 10 | SP |
| 75672 | K-2 Japanese 北 | ϕ44×11 | 12 | 4 960910 756724 | | B |

**Features**

■ I
- Combined unit of compass and alcohol thermometer
- Entire luminous surface glows in the dark
- Use as a key chain or attach to a zipper

■K-2
- Standard compass that can be used as teaching material

**Use**

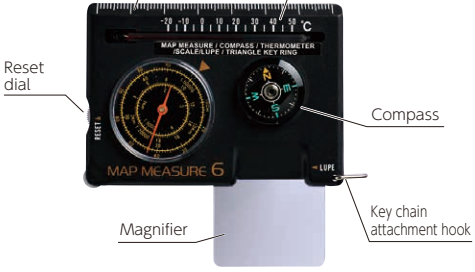
- For checking directions of East, West, South, and North

**Specifications**

| | 75686 | 75672 |
|---|---|---|
| Temperature Measuring Range | Thermometer: −20 - 60℃ | — |
| Material | Body: Acrylic resin<br>Nameplate: Hard vinyl chloride (noctilucous surface)<br>Thermometer: Glass, paraffin | Body: Aluminum<br>Display Surface: Glass |

## Map Measure

71310




71320

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 71310 | C Keyring Model N | 76×52×11 | 26 | 4 960910 713109 | 1 | SP |
| 71320 | D Multi-function Model ℃ N Oil | 76×54×12 | 25 | 4 960910 713208 | 10 | |

**Features**

■C
- Compass to check direction
- Keyring for portability

■D
- Six different functions such as thermometer, magnifier, etc.

**Use**

- For measuring distance on a map

**Specifications**

| | 71310 | 71320 |
|---|---|---|
| Reduction Scale | Outer(1division): Outside circle 1:1 (1 cm)<br>Inside circle 1:50,000 (1 km)<br>Inner(1division): Outside circle 1:20,000 (200 m)<br>Inside circle 1:5,000 (100 m) | |
| Specification | Direction compass | Direction compass<br>Thermometer: −20 - 50℃<br>Scale: 0 - 70 mm<br>Loupe: Magnification 3X |
| Material | Body: ABS resin | |

■If the reduction scale of a map and the Map Measure do not fit

Use 1:1 scale and multiply the reduction scale of the map to find the actual distance (Example) In a case that Map Measure indicates 25 cm on a map with 1:17,500 reduction scale, 17,500 X 25=437,500 cm (approx. 4.4 km).

JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

# 18. Magnifying Glasses

Packaging: Shrink package (S), Sleeve package (SP), Box (B), Bag (B), Vinyl package + header card (VH), Clear package (C), Card (C), Vinyl package (V), No package

## Reading Glass

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75509 | A-2 65 mm 2.5x | 155×65×12 | 70 | 4 960910 755093 | 5 | SP |
| 75792 | A-3 65 mm 3x | 182×74×17 | 83 | 4 960910 757929 | | |
| 75793 | A-4 75 mm 2.5x | 192×83×17 | 96 | 4 960910 757936 | | |
| 75794 | A-5 100 mm 2x | 228×107×17 | 178 | 4 960910 757943 | | |
| 75517 | B-2 75 mm 2x | 185×75×13 | 104 | 4 960910 755178 | | |
| 75520 | B-3 75 mm 2x and 4x Double Focus | 185×85×18 | 56 | 4 960910 755208 | | |
| 75521 | B-4 100 mm 2x and 4x Double Focus | 235×115×22 | 128 | 4 960910 755215 | | |

### Features

- Easy-to-hold
- High-quality glass is scratch resistant (Except 75520 and 75521)
- B-3, B-4 models have a lightweight bifocal lens that gives two or four times magnification (75520/75521)

### Use

- For reading small letters on a newspaper or dictionary

### Specifications

| | 75509 | 75517 |
|---|---|---|
| Lens Diameter (mm) | ϕ65 | ϕ75 |
| Magnification | 2.5x | 2x |
| Material | Body (frame): Brass<br>Body (handle): Vinyl chloride resin | |

| | 75792 | 75793 | 75794 | 75520 | 75521 |
|---|---|---|---|---|---|
| Lens Diameter (mm) | ϕ65 | ϕ75 | ϕ100 | ϕ75 | ϕ100 |
| Magnification | 3x | 2.5x | 2x | 2x and 4x | |
| Material | Body (frame, handle): ABS resin | | | | |

- Focal Length= $\frac{\text{Visibility Distance (250 mm)}}{\text{Magnification}-1}$
- Magnification= $\frac{\text{Visibility Distance (250 mm)}}{\text{Focal Length}}+1$
- Accuracy Error of Magnification ±20%

(not applicable for aspherical lens and power magnifier with 2 or more lenses)

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Reading Glass with LED Light

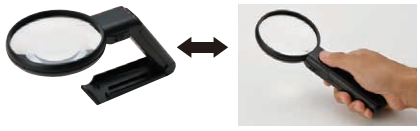
75751

75755

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75751 | A-6 110 mm 2x and 4x | 240×117×24 | 118 | 4 960910 757516 | 5 | SP |
| 75755 | A-7 90 mm 2x and 4x | 220×97×21 | 163 | 4 960910 757554 | | |

### Features

- Comes with bright LED light
- Easy-to-grip handle (75751)
- Comes with a hands-free stand (75755)



### Use

- For reading small letters on a newspaper or dictionary

### Specifications

| | 75751 | 75755 |
|---|---|---|
| Lens Diameter (mm) | ϕ110 | ϕ90 |
| Magnification | 2x and 4x | |
| Material | Body: ABS resin | |
| Power | 2x AAA Alkaline batteries (included) (Batteries included are for trial use only and may not last as long) | 2x AA Alkaline batteries (included) |

## Magnifier with Light for Reading

75761

75762

75708

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75761 | E 50 mm 3x | 151×55×31 | 101 | 4 960910 757615 | 5 | SP |
| 75762 | F 65 mm 3x | 175×68×31 | 109 | 4 960910 757622 | | |
| 75708 | E-3 28 mm 10x | 180×53×48 | 95 | 4 960910 757080 | | |

### Features

- Light for easy reading even in the dark

### Use

- For reading small letters on a newspaper or dictionary (75761/75762)
- For looking at stamps, jewelry, or inside clocks, etc. (75708)

■E-3

- How to use:
  Put it directly on an object and look through by putting your eye close to the lens
- Scale on the bottom for measurement
- Two lenses are used
  Inside lens: Plastic Outside Lens: Glass

### Specifications

| | 75761 | 75762 | 75708 |
|---|---|---|---|
| Lens Diameter (mm) | ϕ50 | ϕ65 | ϕ28 |
| Magnification | 3x | | 10x |
| Material | Body: ABS resin | | |
| Power | 2x AA batteries (included) (Batteries included are for trial use only and may not last as long) | | 2x C batteries (not included) |
| Light Bulb | 2.2V/0.25A | | LED |

## Compact Reading Glass

75557

75556

75555

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75557 | S-3 30 mm 3x | 36×77×5 | 3 | 4 960910 755574 | 10 | B |
| 75556 | S-2 45 mm 3.5x | 55×115×8 | 27 | 4 960910 755567 | | |
| 75555 | S-1 60 mm 2x | 70×155×15 | 35 | 4 960910 755550 | | |

### Features

- Pocket-sized for easy carry

### Use

- For reading small letters on a newspaper or dictionary

### Specifications

| | 75557 | 75556 | 75555 |
|---|---|---|---|
| Lens Diameter (mm) | ϕ30 | ϕ45 | ϕ60 |
| Magnification | 3x | 3.5x | 2x |
| Material | Body: Acrylic resin | Body: Polyethylene resin | Body: Polypropylene resin |

## Desk Magnifier

2×

75767

8× and 30×

75727

3.5×

75529

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75767 | K 25 x 150 mm 2x | 172×25×12 | 44 | 4 960910 757677 | 5 | SP |
| 75727 | L-3 8x and 30x | φ17×120 | 16 | 4 960910 757271 | | |
| 75529 | M-1 60 mm 3.5x | 78×78×55 | 118 | 4 960910 755291 | | |

### Features

- Convenient for reading data numbers with the center red guide line Comes with a convenient portable plastic case (75767)
- Combined unit of 8x telescopes and 30x microscopes (75727)
- Can also be used as a paper weight (75529)

### Use

- For reading small letters on a newspaper or dictionary (75767/75529)
- For viewing scenery with a telescope, examining minerals or small specimens with a microscope, or for inspection of printed items (75727)

### Specifications

| | 75767 | 75727 | 75529 |
|---|---|---|---|
| Lens Diameter (mm) | 25 × 150 | φ11 | φ60 |
| Magnification | 2x | 8x and 30x | 3.5x |
| Material | Body: Acrylic resin | Body: ABS resin, acrylic resin | |

## Pocket Magnifier

2.5×

75534

3.5×

75535

2 and 4×

75536

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75534 | N-1 65 x 45 mm 2.5x | 67×48×17 | 57 | 4 960910 755345 | 5 | SP |
| 75535 | N-2 45 mm 3.5x | 59×59×15 | 33 | 4 960910 755352 | | |
| 75536 | N-3 65 mm 2x and 4x Double Focus | 86×70×15 | 33 | 4 960910 755369 | | |

### Features

- Convenient pocket size for carrying
- Case protecting lens
- N-3 has a bifocal lens (75536)

### Use

- For reading small letters on a newspaper or dictionary

### Specifications

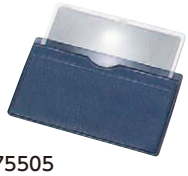
| | 75534 | 75535 | 75536 |
|---|---|---|---|
| Lens Diameter (mm) | 65 × 45 | φ45 | φ65 |
| Magnification | 2.5x | 3.5x | 2x and 4x |
| Material | Case: Synthetic leather | | |

## Sheet Magnifier

3.5×

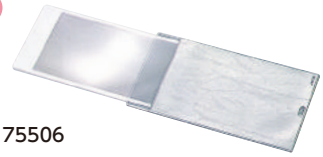
75503

3.5×



75505

2×



75506

2×

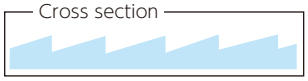
75522

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75503 | U-2 3.5x Bookmark Size | 140×38 | 3 | 4 960910 755031 | 10 | B |
| 75505 | U-3 3.5x Card Size | 85×55 | 3 | 4 960910 755055 | | |
| 75506 | U-4 2x Pocket Notebook Size | 150×78 | 7 | 4 960910 755062 | | |
| 75522 | U-5 2x A4 Size | 280×215 | 40 | 4 960910 755222 | | |

### Features

- Uses a Fresnel lens

Cross section



Fresnel lens allows thinness even with a large surface area

- Comes with a convenient, portable plastic case (75502/75505/75506)

### Use

- For reading a book, map, or chart, etc.

### Specifications

| | 75503 | 75505 | 75506 | 75522 |
|---|---|---|---|---|
| Magnification | 3.5x | | 2x | |
| Material | Body: Vinyl chloride resin | | | |

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## Precision Work Magnifier

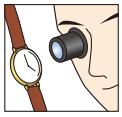
4.5×

75537

Enlarges the tip of the tweezer

5×

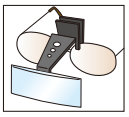
75572



Use by putting on your eyelid

2.5×

75636



Use by putting the clip on your glasses

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75537 | O-1 with Tweezer 30 mm 4.5x | 110×36×13 | 27 | 4 960910 755376 | 5 | SP |
| 75572 | T-3 Watchmaker's Loupe 23 mm 5x | ϕ36×32 | 7 | 4 960910 755727 | | |
| 75636 | X Attachment to Glasses 2.5x | 65×74×26 | 18 | 4 960910 756366 | | |

### Features

- Helps to increase productivity when performing detailed work

### Use

- For detailed work such as pulling a thorn out, maintaining bonsai, etc. (75537)
- For repair or inspection of precision parts (75572)
- For assembling work in personal hobby use (75636)

### Specifications

| | 75537 | 75572 | 75636 |
|---|---|---|---|
| Lens Diameter (mm) | ϕ30 | ϕ23 | 28 × 74 |
| Magnification | 4.5x | 5x | 2.5x |
| Material | Body: Stainless steel, polyethylene resin | Body: Polystyrene resin | Body: ABS resin |

## High Magnification Model

15×

75543

Put it over the place to be looked and use at the angle that light comes in

Light

15×

75564

10×

75565

15×

6 mm side

75570

10×

10 mm side

75571

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75543 | Q 10 mm 15x | ϕ15×35 | 10 | 4 960910 755437 | 10 | SP |
| 75564 | R-1 18 mm 15x | 27×85×20 | 28 | 4 960910 755642 | 5 | |
| 75565 | R-2 28 mm 10x | 33×102×20 | 36 | 4 960910 755659 | 1 | |
| 75570 | T-1 20 mm 15x | ϕ34×26 | 14 | 4 960910 755703 | 5 | |
| 75571 | T-2 28 mm 10x | ϕ34×41 | 19 | 4 960910 755710 | | |

### Features

- High magnification
- Compact size convenient for carrying

### Use

- For inspection of jewelry and printing (75543/75564/75565)
- 75570 and 75571 have divisions of 0.1 mm and 0.2 mm respectively for detailed measurement
- As a key chain (75543)

### Specifications

| | 75543 | 75564 | 75565 |
|---|---|---|---|
| Lens Diameter (mm) | ϕ10 | ϕ18 | ϕ28 |
| Magnification | 15x | | 10x |
| Material | Body: Brass Hood: Acrylic resin | Body: Aluminum, vinyl chloride resin | |

| | 75570 | 75571 |
|---|---|---|
| Lens Diameter (mm) | ϕ20 | ϕ28 |
| Magnification | 15x | 10x |
| Material | Body: ABS resin, acrylic resin | |

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## Stowed High Magnification Model

### Features

- Small, portable, fold-away style with high magnification
- Can increase its magnification by using multiple lenses
  75531…7X with two lenses, 10.5X with three lenses
  75766…7X with 3X + 4X, 8X with 3X + 5X, 9X with 4X + 5X, 12X with three lenses

### Use

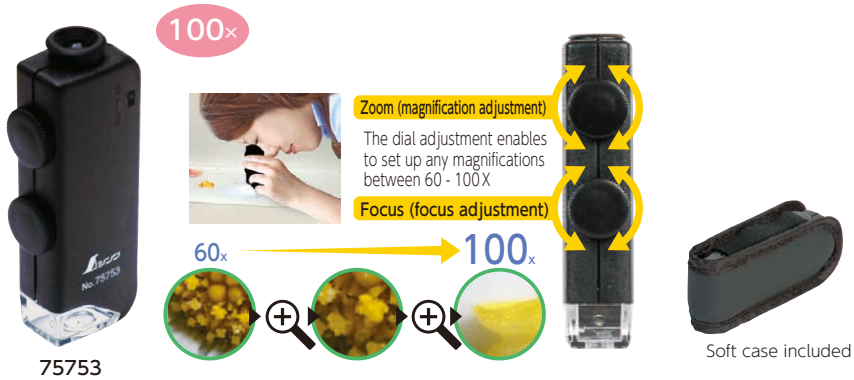
- For high-magnification work such as jewelry inspection, or observation, drafting, etc.

### Specifications

| | 75523 | 75531 | 75765 | 75766 |
|---|---|---|---|---|
| Lens Diameter (mm) | φ7/φ13 | φ23 | φ19 | |
| Magnification | 10x/20x | 3.5x | 10x | 3x/4x/5x |
| Material | Body: Brass | Body: ABS resin | Body: Iron, zinc | Body: Iron, aluminum |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75523 | C Double Lens 10x/20x | 58×23×16 | 30 | 4 960910 755239 | 5 | SP |
| 75531 | D Triplet Lens 3.5x | 59×28×15 | 16 | 4 960910 755314 | | |
| 75765 | I 10x with Chain | 44×27×16 | 46 | 4 960910 757653 | | |
| 75766 | J 3x/4x/5x with Chain | 44×27×16 | 47 | 4 960910 757660 | | |

## Pocket Microscope




### Features

- Pocket-sized microscope with LED light

### Use

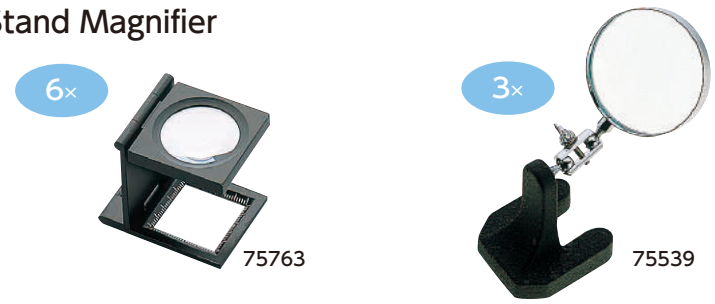
- For observation outdoors or inspection of printing, etc.

### Specifications

| | |
|---|---|
| Magnification | 60 - 100x (tolerance 20%) |
| Light | White LED |
| Luminous Intensity | 12,900 mcd |
| Material | Body: ABS resin Lens: Acrylic resin |
| Power Source | 3x Alkaline batteries LR1130 (included) (Batteries included are for trial use only and may not last as long) |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75753 | H 60x - 100x with LED Light | 83×33×20 | 31 | 4 960910 757530 | 5 | SP |

## Stand Magnifier




### Features

- Stand model frees up both hands

### Use

- For measuring small objects with 25 mm graduation (75763)
- For working on a desk with the adjustable angle lens (75539)

### Specifications

| | 75763 | 75539 |
|---|---|---|
| Lens Diameter (mm) | φ25 | φ65 |
| Magnification | 6x | 3x |
| Material | Body: Aluminum | Body: Brass Base: Cast metal |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75763 | G 25 mm 6x | 51×38×50 | 43 | 4 960910 757639 | 5 | SP |
| 75539 | P-1 65 mm 3x | 166×54×60 | 384 | 4 960910 755390 | 2 | |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Binocular

2.5×

75646

1.5× 2.5× 3.0×

●1.5 X, 3.0 X additional lenses included

75656

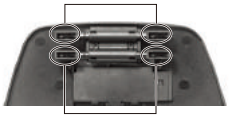
2.2× 3.3×

75735

1.2× 1.8× 2.5× 3.5×

75737

Switch magnification levels by exchanging with a lens stored inside of the unit




To replace, simply insert the lens until it clicks

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75646 | W-2 2.5x | 220×200×40 | 95 | 4 960910 756465 | 1 | SP |
| 75650 | Replacement Lens 1.5x for W-2 | 75×28×3.5 | 8 | 4 960910 756502 | | B |
| 75651 | Replacement Lens 2.5x for W-2 | 75×28×4.5 | 10 | 4 960910 756519 | | |
| 75652 | Replacement Lens 3.0x for W-2 | 75×28×8 | 16 | 4 960910 756526 | | |
| 75656 | W-3 1.5x - 3.0x with Light | 230×190×60 | 100 | 4 960910 756564 | | |
| 75735 | W-4 2.2x/3.3x | 230×195×65 | 129 | 4 960910 757356 | | SP |
| 75737 | W-5 1.2x - 3.5x with LED Light | 240×195×55 | 127 | 4 960910 757370 | | |

### Features

- ●Both hands are freed by setting it on your head
- ●Usable with glasses on

■W-2

- ●Lightweight for comfort

■W-4

- ●Magnification level can be switched while being worn

■W-3/W-5

- ●Light for better visibility and night work. Additional lenses for a variety of uses included.

### Use

- ●For handicraft, reading, gardening, assembling a model, pulling a thorn out, etc.

| | |
|---|---|
| 1.5 X | For reading (a book, dictionary, phone book, map, document, etc.) |
| 2.5 X | For assembling (precision parts, handicrafts, tackles for fishing, etc.) |
| 3.0 X | For inspecting (processing of precision parts, plate-making precious metals, etc.) |

### Specifications

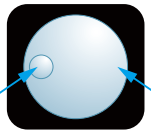
| | 75646 | 75656 |
|---|---|---|
| Lens Diameter (mm) | 28 × 75 | |
| Magnification | 2.5x | 1.5x/2.5x/3.0x |
| Material | Body: ABS resin | |
| Power Source | — | 2x Lithium batteries CR1220 included (Batteries included are for trial use only and may not last as long) |

| | 75735 | 75737 |
|---|---|---|
| Lens Diameter (mm) | 29 × 88 | 100 × 49 |
| Magnification | 2.2x/3.3x | 1.2x/1.8x/2.5x/3.5x |
| Material | Body: ABS resin | |
| Power Source | — | 2x AAA batteries included (Batteries included are for trial use only and may not last as long) |

## Stand Magnifier

2x and 4x

75659



4x
Lens Diameter
ϕ25 mm

2x
Lens Diameter
ϕ123 mm

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75659 | Y 123 mm 2x and 4x Double Focus | Overall Length : 940<br>Arm : 740 | 725 | 4 960910 756595 | 1 | B |

### Features

- ●Large glass to use with both eyes. Fixes to a desk for hands-free use.
- ●Lens turns 360° to adjust at any angle
- ●Protective sticker so that it will not scratch even when clamp is securely fastened (75659)
- ●Bifocal so magnification level can be changed without having to switch lenses (75659)

### Use

- ●For precision work or inspection

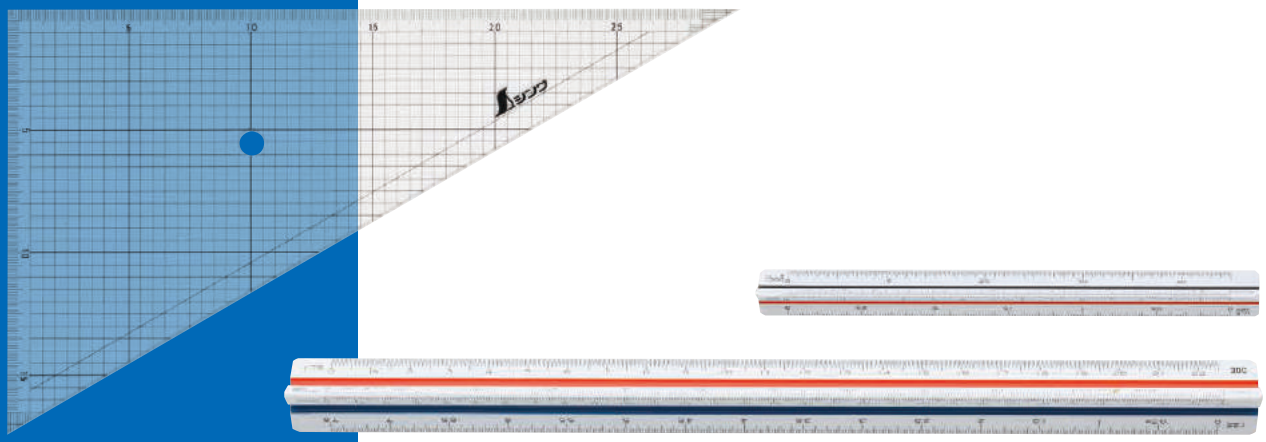
### Specifications

| | |
|---|---|
| Lens Diameter (mm) | ϕ123 |
| Magnification | 2x (Double Focus 4x) |
| Material | Lens: Acrylic resin<br>Lens Frame: ABS resin<br>Arm: Iron<br>Clamp: Aluminum, iron |



JIS JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

# 19. Drawing Tools



Packaging: Shrink package / Sleeve package / Box / Bag / Vinyl package + header card / Clear package / Card / Vinyl package / No package

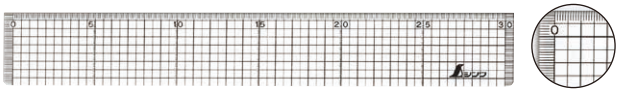
*Acrylic resin has high transparency and is easy to clean. However, please do not wipe it off with thinner.

## Acrylic Straight Rule

77041

75329

77089



**Features**

- Improves productivity of layout work and line drawing with grid scale

**Use**

- Ideal for layout work or line drawing with horizontal lines

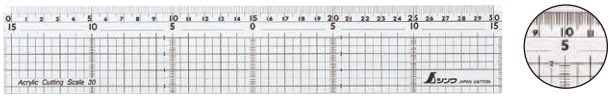
**Specifications**

| | |
|---|---|
| Material | Acrylic resin |
| Elasticity Ratio | 7 - 8 × $10^{-5}$ mm elastic per 1 mm in 1℃ change |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77041 | 15 cm | 160×30×2 | 11 | 4 960910 770416 | 10 | B |
| 75310 | 30 cm | 309×32×3 | 33 | 4 960910 753105 | | V |
| 75329 | 45 cm | 459×43×3 | 67 | 4 960910 753297 | | |
| 77089 | 30 cm with Grid Scale | 311×45×3 | 48 | 4 960910 770898 | | |
| 77097 | 45 cm with Grid Scale | 459×50×3 | 81 | 4 960910 770973 | | |

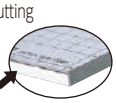
## Acrylic Cutting Rule with Stainless Steel Edge

77085



**Features**

- Cutter edge has a tough stainless steel plate to prevent the blade from cutting in and enable smooth cutting
- Improves productivity of layout work and line drawing with grid scale



With stainless steel plate

**Use**

- For line drawing and cutting work

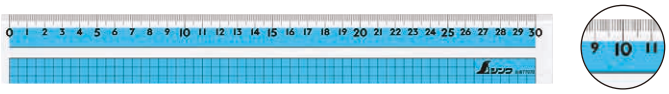
**Specifications**

| | |
|---|---|
| Material | Body: Acrylic resin Cutter: Stainless steel |
| Elasticity Ratio | 7 - 8 × $10^{-5}$ mm elastic per 1 mm in 1℃ change |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77085 | 30 cm | 310×55×5 | 110 | 4 960910 770850 | 5 | V |
| 77086 | 50 cm | 510×60×5 | 165 | 4 960910 770867 | | |

## Acrylic Rule

77070



**Features**

- Colored bar makes it easier to read data

**Use**

- For line drawing and data reading

**Specifications**

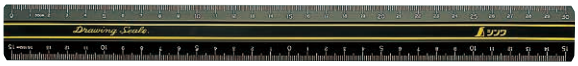
| | |
|---|---|
| Material | Acrylic resin |
| Elasticity Ratio | 7 - 8 × $10^{-5}$ mm elastic per 1 mm in 1℃ change |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77070 | 30 cm | 316×40×3 | 42 | 4 960910 770706 | 10 | V |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Black Drawing Scale

77038



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77038 | 30 cm | 310×30×3 | 27 | 4 960910 770386 | 10 | V |

**Features**

●Upper Graduation: Left base point with 0 - 30 cm straight graduation
Lower Graduation: Center base point with divided graduation of 15 cm to each side

**Use**

●For drawing lines

**Specifications**

| | |
|---|---|
| Material | Vinyl chloride resin |
| Elasticity Ratio | $5 \times 10^{-5}$ mm elastic per 1 mm in 1℃ change |

## Acrylic Dot-line Drawing Rule

70726

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70734 | 15 cm | 200×45×3 | 23 | 4 960910 707344 | 10 | V |
| 70726 | 30 cm | 321×51×5 | 67 | 4 960910 707269 | | |

**Features**

●Easily draw a dotted line and dot-dash line

**Use**

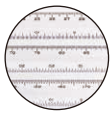
●For drawing lines, dotted lines and dot-dash lines

**Specifications**

| | |
|---|---|
| Material | Acrylic resin |
| Elasticity Ratio | 7 - 8 × $10^{-5}$ mm elastic per 1 mm in 1℃ change |

## Acrylic Scale Reduction Rule

70769



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70750 | 15 cm | 210×64×4 | 39 | 4 960910 707504 | 10 | V |
| 70769 | 30 cm | 370×64×5 | 80 | 4 960910 707696 | | |

**Features**

●Scale with triangular-scale functions
●See through the flat transparent surface while drawing

**Use**

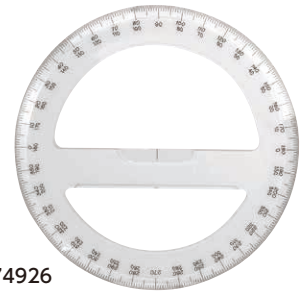
●For drawing lines and reading sketches

**Specifications**

| | |
|---|---|
| Material | Acrylic resin |
| Elasticity Ratio | 7 - 8 × $10^{-5}$ mm elastic per 1 mm in 1℃ change |
| Contraction Scale | 1/100, 1/200, 1/250<br>1/300, 1/500, 1/600 |

## Acrylic Protractor

74918



74926

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 74918 | 180-degree Semicircle 15 cm | 152×98×2 | 16 | 4 960910 749184 | 10 | V |
| 74926 | 360-degree Circle 15 cm | ϕ152×2 | 25 | 4 960910 749269 | | |

**Features**

●Measures angles to semicircle or full circle

**Use**

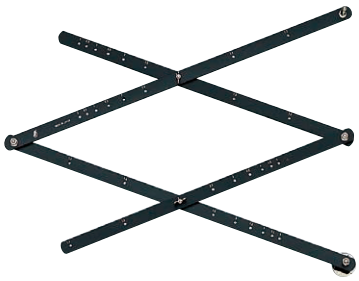
●For measuring angle of sketches

**Specifications**

| | |
|---|---|
| Material | Acrylic resin |

## Pantagraph

75426



Replacement Lead 2 mm

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75426 | Aluminum Pantagraph 5x | 423×55×35 | 211 | 4 960910 754263 | 5 | SP |

**Features**

●Enlarges an original drawing five times or shrinks it by one fifth
●To start, decide desired magnification of enlargement or reduction, then just simply trace the original drawing to make an enlarged or reduced version

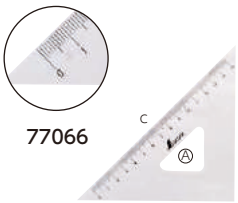
**Use**

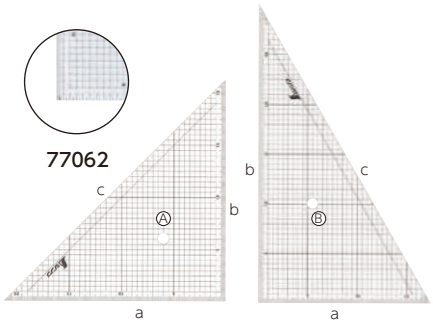
●For enlargement and reduction of illustration, photo, painting, sketch, etc.

**Specifications**

| | |
|---|---|
| Material | Arm: Aluminum<br>Fixing: Brass, iron |

## Acrylic Triangle Scale




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77066 | 18 cm 2 pc-pack | Ⓐ128×128×2 Ⓑ180×104×2 | Ⓐ17 Ⓑ19 | 4 960910 770669 | 10 | V |
| 75256 | 24 cm 2 pc-pack | Ⓐ171×171×2 Ⓑ240×140×2 | Ⓐ31 Ⓑ33 | 4 960910 752566 | | |
| 75264 | 30 cm 2 pc-pack | Ⓐ213×213×2 Ⓑ300×174×2 | Ⓐ46 Ⓑ54 | 4 960910 752641 | | |
| 77062 | 30 cm 2 pc-pack with Grid Scale | Ⓐ213×213×2 Ⓑ300×174×2 | Ⓐ53 Ⓑ63 | 4 960910 770621 | | |

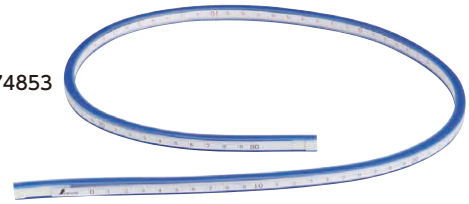
### Features
- Improves productivity of layout work and line drawing with grid scale

### Use
- For drafting and line drawing

### Specifications

| | 77066 | 75256 | 75264 | 77062 |
|---|---|---|---|---|
| Material | Acrylic resin | | | |
| Elasticity Ratio | 7 - 8 × $10^{-5}$ mm elastic per 1 mm in 1℃ change | | | |
| Length of Each Sides | Ⓐ | | | |
| | a: 128 mm b: 128 mm c: 180 mm | a: 171 mm b: 171 mm c: 240 mm | a: 213 mm b: 213 mm c: 300 mm | a: 213 mm b: 213 mm c: 300 mm |
| | Ⓑ | | | |
| | a: 104 mm b: 180 mm c: 208 mm | a: 140 mm b: 240 mm c: 277 mm | a: 174 mm b: 300 mm c: 348 mm | a: 174 mm b: 300 mm c: 348 mm |

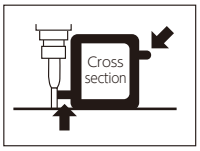
## Flexible Rule



The unique edge prevents ink from running off and enables drawing without making the drawing surface dirty.

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 74845 | 40 cm with Scale T | 465×7×10 | 84 | 4 960910 748453 | 5 | SP |
| 74853 | 80 cm with Scale T | 865×7×10 | 164 | 4 960910 748538 | | |

### Features
- Flexible rule that can be bent in any shape
- Convenient to use with a bow pen or pen with ink edge

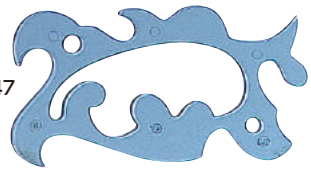



### Use
- For making a mold by matching the shape
- For drafting and making a graph

### Specifications

| | 74845 | 74853 |
|---|---|---|
| Material | Outside Pipe, Side Cap: Vinyl chloride resin<br>Scale Plate: Iron<br>Middle Plate: Lead | |

## Curved Rule




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77003 | 6 pc-pack | 180×58×1 | 38 | 4 960910 770034 | 10 | SP |
| 70947 | Middle-size | 165×85×2 | 15 | 4 960910 709478 | | |

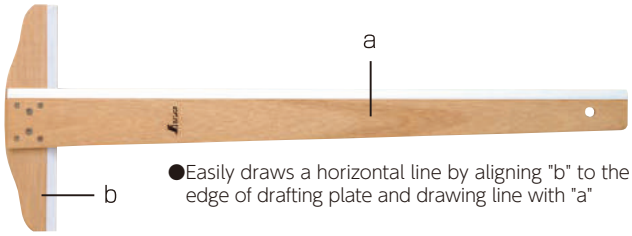
### Features
- Draws various curved lines
- Draw a curve by freehand in advance, then match the appropriate curve of the Curved Rule to finish the curved line

### Use
- For drawing and checking curved lines

### Specifications

| | 77003 | 70947 |
|---|---|---|
| Material | Vinyl chloride resin | Acrylic resin |

## T-shaped Scale




- Easily draws a horizontal line by aligning "b" to the edge of drafting plate and drawing line with "a"

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 76759 | Wood 60 cm | a: 655×65(45)×6 b: 240×55×9 | 184 | 4 960910 767591 | 5 | V |

### Features
- Ideal as teaching material

### Use
- For drawing a horizontal line on drafting

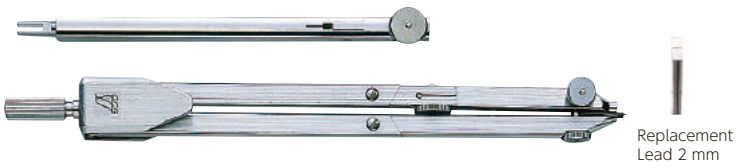
### Specifications

| | |
|---|---|
| Material | Body: Wood |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Drawing Compass

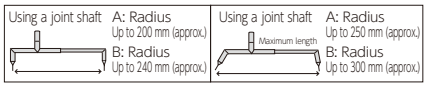
75396




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75388 | A 115 mm | 120×13×10 | 47 | 4 960910 753884 | 10 | SP |
| 75396 | B 155 mm | 150×13×10 | 60 | 4 960910 753969 | | |

**Features**

- Draws a large circle by using a joint shaft
- Joint shaft and replacement lead are included (both A and B)

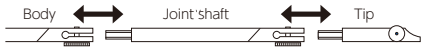



**Use**

- For drawing circles

**Specifications**

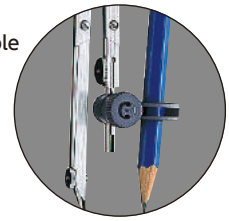
| | |
|---|---|
| Material | Brass |




## Compass Attachment

70920

Usage Example



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70920 | Compass Attachment | 42×47×11 | 6 | 4 960910 709201 | 10 | SP |

**Features**

- Uses compass with a pencil, pen, brush, or cutter
- Use by attaching to a drawing compass

**Use**

- For installing a pencil, pen, brush or cutter, etc. on a compass

**Specifications**

| | |
|---|---|
| Usable Size | Maximum diameter of 11.5 mm |
| Material | Body: ABS resin |

## Drawing Divider

75450

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75442 | A 115 mm | 124×13×10 | 46 | 4 960910 754423 | 10 | SP |
| 75450 | B 155 mm | 154×13×10 | 59 | 4 960910 754508 | | |

**Features**

- Gear type opens both shafts equally

**Use**

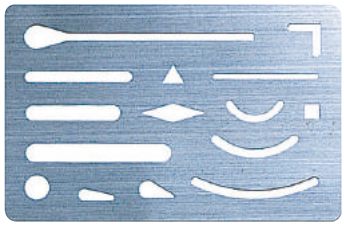
- For dividing lines and copying any dimensions

**Specifications**

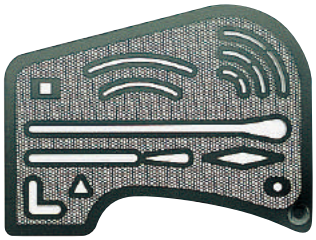
| | |
|---|---|
| Material | Brass |

## Erasing Shield

70963



70961



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70963 | Stainless Steel Erasing Shield | 93×60×0.1 | 4 | 4 960910 709638 | 10 | B |
| 70961 | Stainless Steel Mesh Erasing Shield | 80×60×0.1 | 2 | 4 960910 709614 | | |

**Features**

- Erases only desired area
- Easily see where to erase by looking through the shield (70961)

**Use**

- For intricate erasing

**Specifications**

| | 70963 | 70961 |
|---|---|---|
| Material | Stainless steel | |

# Triangle Scale

70777

74969

74950

For architects qualification exam

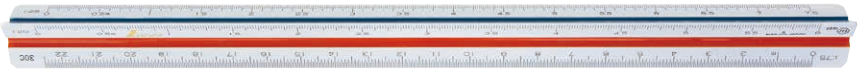
74961

For architects qualification exam

74962

70802

70803



74987

74988

| Item Code | Description | | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|---|
| 70777 | A-10 10 cm | JIS | Length: 120 Cross section: 16×16×16 | 9 | 4 960910 707771 | 10 | |
| 74969 | A-15 15 cm for Real-estate Surveyors | JIS | Length: 170 Cross section: 16×16×16 | 13 | 4 960910 749696 | | |
| 74950 | A-30 30 cm for Real-estate Surveyors | JIS | Length: 326 Cross section: 25×25×25 | 58 | 4 960910 749504 | 5 | |
| 74961 | B-15 15 cm for Architects | | Length: 170 Cross section: 16×16×16 | 13 | 4 960910 749610 | 10 | |
| 74962 | B-30 30 cm for Architects | | Length: 326 Cross section: 25×25×25 | 58 | 4 960910 749627 | 5 | SP |
| 70802 | C-15 15 cm for Microcopy | | Length: 170 Cross section: 16×16×16 | 13 | 4 960910 708020 | 10 | |
| 70803 | C-30 30 cm for Microcopy | | Length: 326 Cross section: 25×25×25 | 58 | 4 960910 708037 | 5 | |
| 74987 | D-30 30 cm for Architects, Shipbuilders | JIS | Length: 327 Cross section: 25×25×25 | 60 | 4 960910 749870 | | |
| 74988 | E-30 30 cm for Shipbuilders | | Length: 327 Cross section: 25×25×25 | 60 | 4 960910 749887 | | |

## Features

●Convenient for drawing and reading measurements
●30 cm models comes with a plastic case

■A-10
●Convenient pocket size for portability

■A-15/A-30
●Convenient for drawing and reading required material during a registration process such as an acreage survey map or a building ground plan

■B-15/B-30
●Shows the most essential scales for architectural design
●Most essential drawing and reduction scale for architectural design

| City Plan/Area Measurement |
|---|
| 1/250 |
| Arrangement Plan/Ground Plan/Elevation Plan |
| 1/100, 1/200, 1/300 |
| Sectional Detail Drawing/Detail Drawing |
| 1/20, 1/30 (double in 1/300), 1/50 |

■C-15/C-30
●Reads a reduced copy drawing as a stencil size
●Reduction Scale

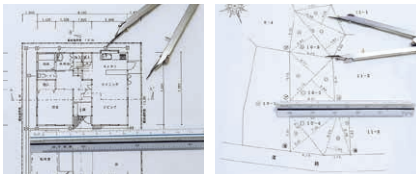
A format→A format (70.7%) A format→B format (86.6%)

■D-30
●Convenient for drawing and reading required material in architecture or shipbuilding

■E-30
●Convenient for drawing and reading required material in shipbuilding

## Use

●For drawing and taking readings



## Specifications

| | 70777 | 74969 | 74950 |
|---|---|---|---|
| Reduction Scale | 1/100, 1/200, 1/300 1/400, 1/500, 1/600 | 1/100, 1/200, 1/250 1/300, 1/500, 1/600 | |
| Length Tolerance | ±0.2 mm | ±0.3 mm | ±0.4 mm |
| Material | ABS resin | | |

| | 74961 | 74962 |
|---|---|---|
| Reduction Scale | 1/20, 1/50, 1/100 1/200, 1/250, 1/300 | |
| Length Tolerance | ±0.3 mm | ±0.4 mm |
| Material | ABS resin | |

| | 70802 | 70803 |
|---|---|---|
| Reduction Scale | A format → A format | 1/50, 1/100, 1/200 |
| | A format → B format | 1/50, 1/100, 1/200 |
| Material | ABS resin | |

A format means paper size such as A4, A3, A2, etc.
B format means B5, B4, etc.

| | 74987 |
|---|---|
| Reduction Scale | 1/20, 1/25, 1/50 1/75, 1/100, 1/125 |
| Length Tolerance | ±0.4 mm |
| Material | ABS resin |

| | 74988 |
|---|---|
| Reduction Scale | 1/10, 1/15, 1/20 1/25, 1/50, 1/75 |
| Length Tolerance | ±0.4 mm |
| Material | ABS resin |

*Length tolerance is the accurace measured at 20℃.

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# Triangle Rotation Scale

74980

74979

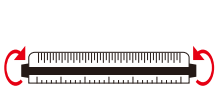
74940

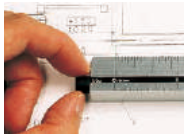
74941

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 74980 | 15 cm | Length: 185<br>Cross section: 22.5×22.5×12 | 61 | 4 960910 749801 | 6 | Ⓢⓟ |
| 74979 | 15 cm/shaku | Length: 185<br>Cross section: 22.5×22.5×12 | 61 | 4 960910 749795 | | |
| 74940 | 30 cm | Length: 335.5<br>Cross section: 22.5×22.5×12 | 115 | 4 960910 749405 | | |
| 74941 | 30 cm/shaku | Length: 335.5<br>Cross section: 22.5×22.5×12 | 115 | 4 960910 749412 | | |

## Features

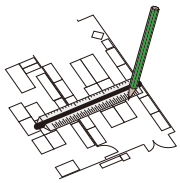
●Choose six sizes of reduction simply by positioning the unit and turning the knobs located on both sides. No need to turn the unit itself.





## Use

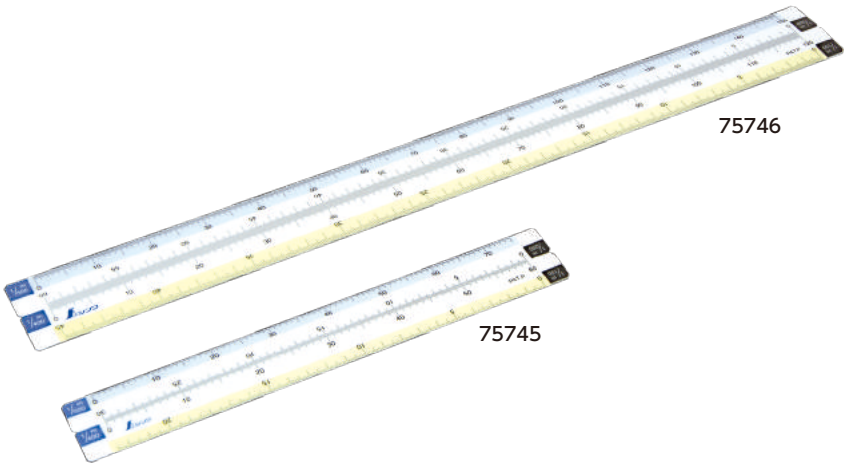
●For drawing and reading required material during a registration process such as an acreage survey map or a building ground plan



## Specifications

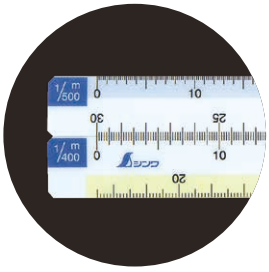
| | 74980 | 74979 | 74940 | 74941 |
|---|---|---|---|---|
| Length Tolerance | 15 cm: ±0.16 mm | | 30 cm: ±0.19 mm | |
| Reduction Scale | Upper row<br>1/50, 1/100<br>1/200, 1/250<br>1/500<br>Lower row<br>1/300 | Upper row<br>1/20, 1/50<br>1/100, 1/200<br>1/250<br>Lower row<br>1/30 | Upper row<br>1/100, 1/200<br>1/250, 1/500<br>Lower row<br>1/300, 1/600 | Upper row<br>1/20, 1/50<br>1/100, 1/200<br>1/250<br>Lower row<br>1/30 |
| Material | Body: Aluminum Knob: Rubber | | | |

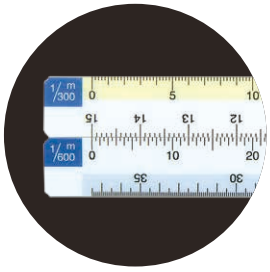
# Folding Scale 8-scales



75746

75745





| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 75745 | 15 cm | 170×25×0.9 | 5 | 4 960910 757455 | 10 | [B] |
| 75746 | 30 cm | 320×32×0.9 | 11 | 4 960910 757462 | | |

## Features

●Folds flat for carrying
●Laminate keeps from fading

## Use

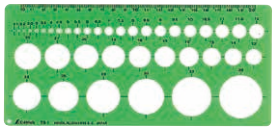
●For drawing and reading required material during a registration process such as an acreage survey map or a building ground plan

Fold and use by facing the desired reduction scale outside

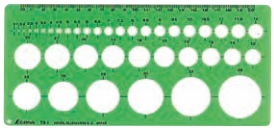
## Specifications

| | 75745 | 75746 |
|---|---|---|
| Length Tolerance | 15 cm: ±0.10 mm | 30 cm: ±0.15 mm |
| Reduction Scale | 1/100, 1/150, 1/200, 1/250<br>1/300, 1/400, 1/500, 1/600 | |
| Material | PET resin | |

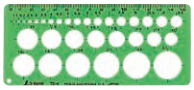
## Template [Circle]



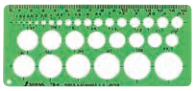
**66002** φ1-36 mm



**66004** φ1-36 mm



**66003** φ1-23 mm



**66005** φ1-23 mm

| Item Code | Description | Body Size (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|
| 66002 | TA-1E Circle with Edge Medium T | 105×230×1.0 | 4 960910 660021 | 5 | [B] |
| 66003 | TA-4E Circle with Edge Small T | 70×160×1.0 | 4 960910 660038 | | |
| 66004 | TB-1 Circle Medium | 105×230×0.75 | 4 960910 660045 | | |
| 66005 | TB-4 Circle Small | 70×160×0.75 | 4 960910 660052 | | |

### Features

- Great durability with IR resin material that makes it hard to break
- Easy color on eyes even during prolonged use
- Because they are cut by NC automatic engraving machine that is controlled by computer, the lag from the indicated line is minimal and the surface is smooth for more accurate drawing
- Ring hole helps prevent loss

- Unique edge prevents ink from running off and enables drawing without making the ink bleed (66002/66003)

### Use

- For drafting such as design and drawing

### Specifications

| Material | IR resin |
|---|---|

## Template [Number/Alphabet]

**66013** Character height 3.0/4.0/5.0 mm

**66014** Character height 2.5/3.5/4.5 mm

**66015** JIS B-type Roman font Character height 3.15/4.5 mm

| Item Code | Description | Body Size (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|
| 66013 | TE-5 Number/Alphabet | 60×160×0.5 | 4 960910 660137 | 5 | [B] |
| 66014 | TE-6 Number/Alphabet | 60×160×0.5 | 4 960910 660144 | | |
| 66015 | TE-7 Number/Alphabet | 60×160×0.5 | 4 960910 660151 | | |

### Features

- Great durability with IR resin material that makes it hard to break
- Easy color on eyes even during prolonged use
- Because they are cut by NC automatic engraving machine that is controlled by computer, the lag from the indicated line is minimal and the surface is smooth for more accurate drawing
- Ring hole helps prevent loss

### Use

- For drafting such as design and drawing

### Specifications

| Material | IR resin |
|---|---|

## Template [Number]

**66016**
Middle, tall
Character height 2.5/3.0/3.5/4.0/5.0 mm

**66017**
Middle JIS letter J-type italic font
Character height 2.5/3.0/3.5/4.0/5.0 mm

**66018**
Middle JIS letter B-type Roman font, B-type italic font, J-type italic font
Character height 3.0/4.0/3.15/4.5/6.3 mm

| Item Code | Description | Body Size (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|
| 66016 | TE-9 Number | 60×160×0.5 | 4 960910 660168 | 5 | [B] |
| 66017 | TE-10 Number | 60×160×0.5 | 4 960910 660175 | | |
| 66018 | TE-11 Number | 60×160×0.5 | 4 960910 660182 | | |

### Features

- Great durability with IR resin material that makes it hard to break
- Easy color on eyes even during prolonged use
- Because they are cut by NC automatic engraving machine that is controlled by computer, the lag from the indicated line is minimal and the surface is smooth for more accurate drawing
- Ring hole helps prevent loss

### Use

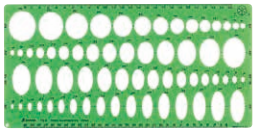
- For drafting such as design and drawing

### Specifications

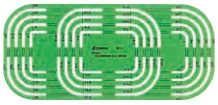
| Material | IR resin |
|---|---|

## Template [Oval/Arc/Corner]

**66020**
Oval 25°/35°16'/45°/60°



**66031**
R0.5 – 38.0 mm



| Item Code | Description | Body Size (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|
| 66020 | TG-3 Oval | 150×300×0.75 | 4 960910 660205 | 5 | [B] |
| 66031 | TP-1 Corner | 105×230×0.75 | 4 960910 660311 | | |

### Features

- Great durability with IR resin material that makes it hard to break
- Easy color on eyes even during prolonged use
- Because they are cut by NC automatic engraving machine that is controlled by computer, the lag from the indicated line is minimal and the surface is smooth for more accurate drawing
- Ring hole helps prevent loss (66020)

### Use

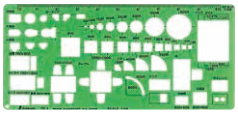
- For drafting such as design and drawing

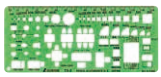
### Specifications

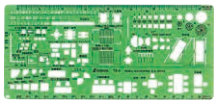
| Material | IR resin |
|---|---|

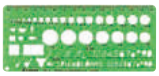
JIS JIS mark | With red numbers | cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) | With magnet | Vial with luminous sheet | Thermometer | Double-sided tape | Letters in Japanese | With stopper | Oil | Glass lens | With edge
Japanese zodiac signs | With battery | shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) | With non-slip pad | Thermometer/Hygrometer | Hygrometer | With hanging hole | Letters in English | With direction arrow | With grid scale | Plastic lens

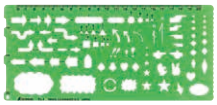
## Template [Sign]


66007


66008


66010


66027


66029

| Item Code | Description | Body Size (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|
| 66007 | TD-1 Furniture Large 1/50 | 105×230×0.75 | 4 960910 660076 | 5 | [B] |
| 66008 | TD-2 Furniture Small 1/100 | 70×160×0.75 | 4 960910 660083 | | |
| 66010 | TD-4 Architecture 1/100 and 1/200 | 105×230×0.75 | 4 960910 660106 | | |
| 66027 | TK-1 Finish Mark | 70×160×0.75 | 4 960910 660274 | | |
| 66029 | TL-1 Arrow | 105×230×0.75 | 4 960910 660298 | | |

**Features**

- Great durability with IR resin material that makes it hard to break
- Easy color on eyes even during prolonged use
- Because they are cut by NC automatic engraving machine that is controlled by computer, the lag from the indicated line is minimal and the surface is smooth for more accurate drawing
- Ring hole helps prevent loss

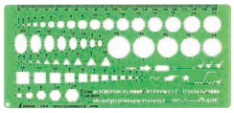
**Use**

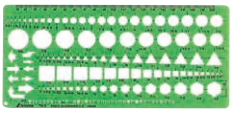
- For drafting such as design and drawing

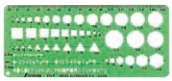
**Specifications**

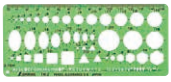
| | |
|---|---|
| Material | IR resin |

## Template [General Shape]


66024
Circle 1-22, Triangle 1-10, Square 1-12,
Hexagon 4-12, Isometric 6-20,
JIS letter 3.15 mm


66025
Circle 0.5-20, Triangle 1-15, Square 1-15
Hexagon 1-15, Arrow symbol,
Alphabet 3.0 mm


66021
Circle 1-17, Triangle 1-10, Square 1-10
Hexagon 2-12, Number 2.5/3.0/3.5, Alphabet 3.5 mm


66022
Circle 1-20, Triangle 2-10, Square 2-12
Hexagon 2-12, Isometric 6-20, Alphabet 3.15 mm

| Item Code | Description | Body Size (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|
| 66021 | TH-1 General Shape Small | 70×160×0.75 | 4 960910 660212 | 5 | [B] |
| 66022 | TH-2 General Shape Small | 70×160×0.75 | 4 960910 660229 | | |
| 66024 | TH-4 General Shape Medium | 105×230×0.75 | 4 960910 660243 | | |
| 66025 | TH-5 General Shape Medium | 105×230×0.75 | 4 960910 660250 | | |

**Features**

- Great durability with IR resin material that makes it hard to break
- Easy color on eyes even during prolonged use
- Because they are cut by NC automatic engraving machine that is controlled by computer, the lag from the indicated line is minimal and the surface is smooth for more accurate drawing
- Ring hole helps prevent loss

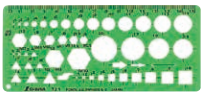
**Use**

- For drafting such as design and drawing

**Specifications**

| | |
|---|---|
| Material | IR resin |

## Template [Other]

66026


66033
For pencil or ball-point pen

| Item Code | Description | Body Size (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|
| 66026 | TJ-1 Nut and Bolt | 70×160×0.75 | 4 960910 660267 | 5 | [B] |
| 66033 | TQ-1 Japanese and Roman Letter | 60×160×0.5 | 4 960910 660335 | | |

**Features**

- Great durability with IR resin material that makes it hard to break
- Easy color on eyes even during prolonged use
- Because they are cut by NC automatic engraving machine that is controlled by computer, the lag from the indicated line is minimal and the surface is smooth for more accurate drawing
- Ring hole helps prevent loss

**Use**

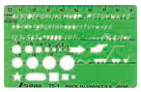
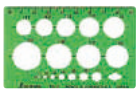
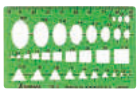
- For drafting such as design and drawing

**Specifications**

| | |
|---|---|
| Material | IR resin |

## Template[3 pc Card-size Set]

66034
IS letter,
Character height 3.15 mm
with isometric

| Item Code | Description | Body Size (mm) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|
| 66034 | TS-A 3 pc-pack Card-size Set | 60×97×0.5 | 4 960910 660342 | 5 | [B] |

**Features**

- Great durability with IR resin material that makes it hard to break
- Easy color on eyes even during prolonged use
- Because they are cut by NC automatic engraving machine that is controlled by computer, the lag from the indicated line is minimal and the surface is smooth for more accurate drawing
- 3 pc-pack Card-size Set which can be stored in a pocket, pen case, or system notebook, etc.

**Use**

- For drafting such as design and drawing

**Specifications**

| | |
|---|---|
| Material | IR resin |

## Mechanical Drawing Pencil

77798

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77798 | 0.5 mm | ϕ10×142 | 17 | 4 960910 777989 | 10 | B |

**Features**
- Ideal for drawing

**Use**
- For drawing a plan

**Specifications**

| | |
|---|---|
| Material | Body: Aluminum |

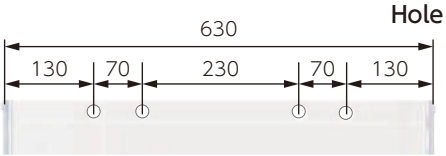
## Transparent Case

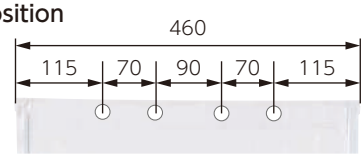


78197

78198

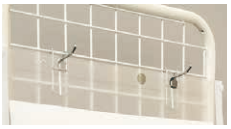
Hole position




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 78197 | With Zipper A1 | 900×630×0.4 | 300 | 4 960910 781979 | 10 | B |
| 78198 | With Zipper A2 | 670×460×0.4 | 170 | 4 960910 781986 | | |

**Features**
- Clearly shows materials inside from the transparent side. The other side is semi-transparent to prevent papers and sheets from sticking together and to help get them in and out smoothly.
- Both sides have fasteners for better accessibility
- Comes with holes positioned symmetrically for storage



**Use**
- For presenting, keeping, and filing posters or drawings

**Specifications**

| | 78197 | 79198 |
|---|---|---|
| Material | Vinyl chloride | |
| Inner Dimension | 870 × 610 mm | 640 × 440 mm |

## Drawing Sheet Case A

77030

■Paper size

| | |
|---|---|
| 0 step | 530 mm |
| 1 step | 580 mm |
| 2 step | 615 mm (A−1) |
| 3 step | 655 mm |
| 4 step | 695 mm |
| 5 step | 735 mm (B−1) |
| 6 step | 775 mm |
| 7 step | 845 mm (A−0) |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 77030 | 7-step Slide | ϕ86 mm | 290 | 4 960910 770300 | 10 | B |

**Features**
- Has a lock function on body and a cap to hold heavy items
- Seven-step expansion allows for various sizes of papers

**Use**
- For keeping and carrying posters or drawings

**Specifications**

| | |
|---|---|
| Material | Polypropylene resin |

## Drawing Brush

70874

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 70874 | Drawing Brush | 203×75×10 | 36 | 4 960910 708747 | 10 | SP |

**Features**
- Made of soft, high quality horsehair

**Use**
- For cleaning eraser dust on a desk or drawing

**Specifications**

| | |
|---|---|
| Material | Wood, horsehair |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge / Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# 20. Magnets

Packaging: Shrink package, Sleeve package, Box, Bag, Vinyl package + header card, Clear package, Card, Vinyl package, No package

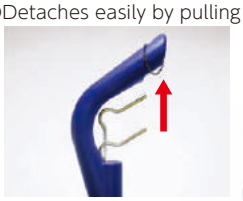
## Hand Magnet

Adsorption power 30 N 3 kgf

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73558 | A-3 | 360×115×115 | 550 | 4 960910 735583 | 5 | |
| 73559 | B-3 with Handle | 830×115×115 | 730 | 4 960910 735590 | | |
| 73553 | A-2 | 160×98×52 | 315 | 4 960910 735538 | 10 | |
| 73554 | B-2 with Handle | 680×110×52 | 475 | 4 960910 735545 | | |

### Features

- Detachable magnet enables fast, safe picking up of metals such as screws
- Comes with a shaft handle for better accessibility (73559/73554)
- Convenient for sorting empty cans between steel or aluminum for recycling
- Strong aluminum body (73558/73559)
- Detaches easily by pulling up the lever



- Designed to be easy to handle (73558/73559)

### Use

- For collecting screws, nails, or other metal pieces, etc.

### Specifications

| | 73558 | 73559 | 73553 | 73554 |
|---|---|---|---|---|
| Material | Body/Adsorption Face: Aluminum Lever: Iron | | Body: Polystyrene resin Lever: Iron Adsorption Face: Stainless steel | |
| Orientation | Anisotropy | | | |
| Adsorption Power | 30 N (3 kgf) | | | |

## Hand Magnet with Casters

Adsorption power 50 N 5 kgf

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73556 | C | 715 - 1,015 ×320×130 | 1,100 | 4 960910 735569 | 1 | |

### Features

- Collect metal pieces quickly over a wide area
- Single-handed lever operation
- Turns freely in any direction
- Strong aluminum body

Two-step expansion Length 715 mm

1,015 mm

### Use

- For collecting screws, nails, or other metal pieces, etc.

### Specifications

| | |
|---|---|
| Material | Body: Aluminum, ABS resin |
| Orientation | Anisotropy |
| Adsorption Power | 50 N (5 kgf) |

JIS mark, With red numbers, cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku), With magnet, Vial with luminous sheet, Thermometer, Double-sided tape, Letters in Japanese, With stopper, Oil, Glass lens, With edge, Japanese zodiac signs, With battery, shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric), With non-slip pad, Thermometer/Hygrometer, Hygrometer, With hanging hole, Letters in English, With direction arrow, With grid scale, Plastic lens

## Magnetic Pick-up Tool

Adsorption power 10 N 1 kgf

72290

ϕ11 mm

Adsorption power 15 N 1.5 kgf

72291

ϕ13 mm

Adsorption power 20 N 2 kgf

72456

ϕ18 mm

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72290 | H-2 | 133×11×14 | 28 | 4 960910 722903 | 10 | SP |
| 72291 | H-3 | 134×13×13 | 29 | 4 960910 722910 | | |
| 72456 | H-4 with Light | 186×18×18 | 88 | 4 960910 724563 | 5 | |

### Features

- Made with a strong anisotropic magnet
- Telescopic antenna with a clip makes it easy to use, carry, and store (72290/72291)
- Magnetic part can be moved to any direction (72291)
- Comes with a bright, long-lasting white LED light (72456)
- Strong stainless steel shaft (72456)
- Easy-to-hold and non-slip large rubber grip (72456)

### Use

- For picking up screws in hard-to-reach places
- For sorting out ferrous and nonferrous metals, and removing metal flakes

### Specifications

| | 72290 | 72291 | 72456 |
|---|---|---|---|
| Material | Body: Brass | | Body: Stainless steel, rubber, brass |
| Orientation | Anisotropy | | |
| Adsorption Power | 10 N (1 kgf) | 15 N (1.5 kgf) | 20 N (2 kgf) |
| Antenna Length | 645 mm | 540 mm | 660 mm |
| Power Source | – | | 3x Alkaline batteries LR44 (included) (Batteries included are for trial use only and may not last as long) |

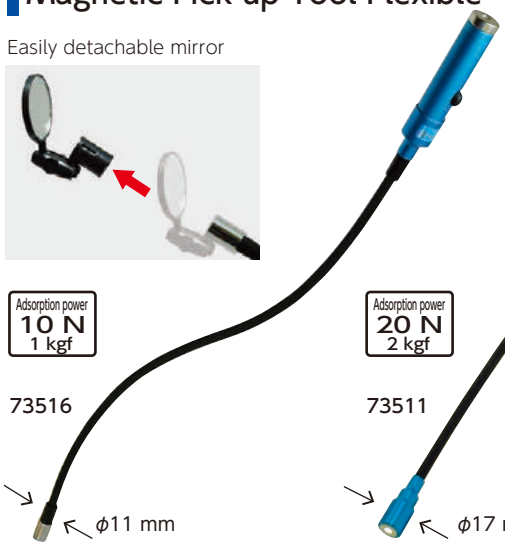
## Magnetic Pick-up Tool Flexible

Easily detachable mirror



Adsorption power 10 N 1 kgf

73516

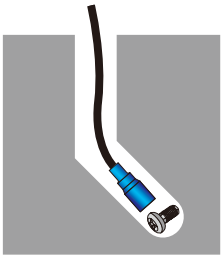


ϕ11 mm

Adsorption power 20 N 2 kgf

73511

ϕ17 mm



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73511 | H-5 with Light | 607×20×20 | 227 | 4 960910 735118 | 5 | SP |
| 73516 | H-6 with Light and Mirror | 560×18×18 | 150 | 4 960910 735163 | | |

### Features

- Usable even in narrow, winding, and dark places
- Accessible switch for easy turning on and off to extend battery life
- Strong neodymium magnet
- Flexible type that can bend freely
- Strong aluminum grip with colored alumite finish
- Comes with a bright, long-lasting white LED light
- Use as an inspection mirror by attaching the accessory mirror to the end and check places that are hard to see (73516)

### Use

- For picking up screws in hard-to-reach places
- For sorting out ferrous and nonferrous metals, and removing metal flakes

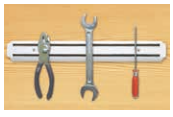
### Specifications

| | 73511 | 73516 |
|---|---|---|
| Material | Grip: Aluminum<br>Flexible Tube: Iron<br>Magnet: Neodymium | Grip: Aluminum<br>Flexible Tube: Iron<br>Mirror: Glass, ABS resin, polypropylene resin<br>Magnet: Neodymium |
| Orientation | Anisotropy | |
| Adsorption Power | 20 N (2 kgf) | Tip 10 N (1 kgf)<br>Base 20 N (2 kgf) |
| Power Source | 2x AA Alkaline batteries (included) | 3x Alkaline batteries LR44 (included) |
| | (Batteries included are for trial use only and may not last as long) | |
| Luminosity | 27,000 mcd | |

## Magnetic Holder

Withstand load 1.3 kg

72008



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72008 | 38 cm | 380×49×14 | 306 | 4 960910 720084 | 5 | SP |

### Features

- Quickly attach and detach a required tool to increase productivity

### Use

- Convenient for putting tools in order

### Specifications

| | |
|---|---|
| Material | Body: ABS resin |
| Orientation | Anisotropy |
| Withstand Load | 1.3 kg |

## Welding Magnet

Adsorption power 80 N 8 kgf

72293

Adsorption power 200 N 20 kgf

72294

Adsorption power 200 N 20 kgf

72295

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72293 | S | 120×82×15 | 293 | 4 960910 722934 | 5 | SP |
| 72294 | M | 156×100×17 | 598 | 4 960910 722941 | 4 | |
| 72295 | L | 190×122×25 | 1,202 | 4 960910 722958 | 3 | |

### Features

- Sticks with strong magnetic force. Convenient 45° and 90° shape
- *Use the angle of 45° and 90° only as a guide. If more precision is needed, fine-adjust.

### Use

- For temporary holding in welding works

### Specifications

| | 72293 | 72294 | 72295 |
|---|---|---|---|
| Material | Body: ABS resin, iron | | |
| Orientation | Anisotropy | | |
| Adsorption Power | 80 N (8 kgf) | 200 N (20 kgf) | |

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## T-shaped Magnet

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73520 | C ϕ25 | ϕ25×30 | 80 | 4 960910 735200 | 5 | VH |
| 73539 | D ϕ40 | ϕ40×35 | 240 | 4 960910 735392 | | |
| 73547 | E ϕ50 | ϕ50×35 | 330 | 4 960910 735477 | 3 | |

**Features**

- Ideal for various maintenance work with its strong adsorption power

**Use**

- For holding scales or as an anchor
- As a magnetic hook

**Specifications**

| | 73520 | 73539 | 73547 |
|---|---|---|---|
| Material | Body: Zinc alloy<br>Handle: Iron<br>Magnet: Ferrite | | |
| Orientation | Anisotropy | | |
| Adsorption Power | 25 N (2.5 kgf) | 150 N (15 kgf) | 250 N (25 kgf) |
| Size of Screw | M6 (1.0pitch) | M8 (1.25pitch) | |

## Magnetic Chips Circle

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72150 | A-1 ϕ10 6 pc-pack | ϕ10×5 | 1.8 | 4 960910 721500 | 10 | SP |
| 72151 | A-2 ϕ15 6 pc-pack | ϕ15×4 | 3.5 | 4 960910 721517 | | |
| 72152 | A-3 ϕ20 3 pc-pack | ϕ20×4 | 6.2 | 4 960910 721524 | | |
| 72219 | A-4 ϕ25 2 pc-pack | ϕ25×4 | 9 | 4 960910 722194 | | |
| 72220 | A-5 ϕ30 2 pc-pack | ϕ30×5 | 16 | 4 960910 722200 | | |

**Features**

- Double-sided tape for use in a variety of applications

**Use**

- For putting small things on a chalkboard or whiteboard
- For personal hobby use

**Specifications**

| | 72150 | 72151 |
|---|---|---|
| Material | Ferrite | |
| Orientation | Isotropy | |
| Adsorption Power | 0.6 N (60 gf) | 0.5 N (50 gf) |

| | 72152 | 72219 | 72220 |
|---|---|---|---|
| Material | Ferrite | | |
| Orientation | Isotropy | | |
| Adsorption Power | 0.75 N (75 gf) | 1 N (100 gf) | 1.4 N (140 gf) |

## Magnetic Chips Square

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72153 | B-1 15 x 16 mm 3 pc-pack | 15×16×4 | 4.6 | 4 960910 721531 | 10 | SP |
| 72154 | B-2 15 x 20 mm 2 pc-pack | 15×20×4 | 5.6 | 4 960910 721548 | | |
| 72155 | B-3 19 x 25 mm 2 pc-pack | 19×25×4 | 9.2 | 4 960910 721555 | | |
| 72156 | B-4 10.5 x 30 mm 2 pc-pack | 10.5×30×5 | 7.6 | 4 960910 721562 | | |
| 72221 | B-5 20 x 30 mm 2 pc-pack | 20×30×5 | 14 | 4 960910 722217 | | |

**Features**

- Double-sided tape for use in a variety of applications

**Use**

- For putting small things on a chalkboard or whiteboard
- For personal hobby use

**Specifications**

| | 72153 | 72154 |
|---|---|---|
| Material | Ferrite | |
| Orientation | Isotropy | |
| Adsorption Power | 0.75 N (75 gf) | |

| | 72155 | 72156 | 72221 |
|---|---|---|---|
| Material | Ferrite | | |
| Orientation | Isotropy | | |
| Adsorption Power | 1 N (100 gf) | 0.85 N (85 gf) | 1.4 N (140 gf) |

## Magnetic Chips Square with Yoke

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73501 | E-1 13 x 22 mm 2 pc-pack | 13×22×5.5 | 7 | 4 960910 735019 | 10 | SP |
| 73502 | E-2 23 x 26 mm 2 pc-pack | 23×26×7 | 21 | 4 960910 735026 | | |
| 73503 | E-3 30 x 44 mm 2 pc-pack | 30×44×7 | 42 | 4 960910 735033 | | |

**Features**

- Strong magnet with yoke
- Double-sided tape for use in a variety of applications

**Use**

- For putting small things on a chalkboard or whiteboard
- For personal hobby use

**Specifications**

| | 73501 | 73502 | 73503 |
|---|---|---|---|
| Material | Ferrite | | |
| Orientation | Anisotropy | | |
| Adsorption Power | 7 N (0.7 kgf) | 25 N (2.5 kgf) | 32 N (3.2 kgf) |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge

Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

# Strong Color Magnets with Yoke

Adsorption power 1 N 100 gf

ϕ20

72052

Adsorption power 3 N 300 gf

ϕ25

72058

Adsorption power 4 N 400 gf

ϕ30

72079

Adsorption power 4.5 N 450 gf

ϕ40

72071

Adsorption power 5 N 500 gf

ϕ50

72072

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72052 | ϕ20 Red 6 pc-pack | ϕ20×9 | 4 | 4 960910 720527 | 10 | SP |
| 72053 | ϕ20 White 6 pc-pack | ϕ20×9 | 4 | 4 960910 720534 | | |
| 72077 | ϕ20 Blue 6 pc-pack | ϕ20×9 | 4 | 4 960910 720770 | | |
| 72056 | ϕ20 Yellow 6 pc-pack | ϕ20×9 | 4 | 4 960910 720565 | | |
| 72057 | ϕ25 Red 5 pc-pack | ϕ25×10 | 9 | 4 960910 720572 | | |
| 72058 | ϕ25 White 5 pc-pack | ϕ25×10 | 9 | 4 960910 720589 | | |
| 72078 | ϕ25 Blue 5 pc-pack | ϕ25×10 | 9 | 4 960910 720787 | | |
| 72061 | ϕ25 Yellow 5 pc-pack | ϕ25×10 | 9 | 4 960910 720619 | | |
| 72062 | ϕ30 Red 4 pc-pack | ϕ30×10 | 12 | 4 960910 720626 | | |
| 72063 | ϕ30 White 4 pc-pack | ϕ30×10 | 12 | 4 960910 720633 | | |
| 72079 | ϕ30 Blue 4 pc-pack | ϕ30×10 | 12 | 4 960910 720794 | | |
| 72066 | ϕ30 Yellow 4 pc-pack | ϕ30×10 | 12 | 4 960910 720664 | | |
| 72067 | ϕ40 Red 3 pc-pack | ϕ40×11 | 18 | 4 960910 720671 | | |
| 72068 | ϕ40 White 3 pc-pack | ϕ40×11 | 18 | 4 960910 720688 | | |
| 72080 | ϕ40 Blue 3 pc-pack | ϕ40×11 | 18 | 4 960910 720800 | | |
| 72071 | ϕ40 Yellow 3 pc-pack | ϕ40×11 | 18 | 4 960910 720718 | | |
| 72072 | ϕ50 Red 2 pc-pack | ϕ50×12 | 28 | 4 960910 720725 | | |
| 72073 | ϕ50 White 2 pc-pack | ϕ50×12 | 28 | 4 960910 720732 | | |
| 72081 | ϕ50 Blue 2 pc-pack | ϕ50×12 | 28 | 4 960910 720817 | | |
| 72076 | ϕ50 Yellow 2 pc-pack | ϕ50×12 | 28 | 4 960910 720763 | | |

## Features

●Strong magnet with yoke

## Use

●As a memo holder on a chalkboard, steel object, and refrigerator

## Specifications

| | 72052 | 72053 | 72077 | 72056 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin<br>Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 1 N (100 gf) | | | |

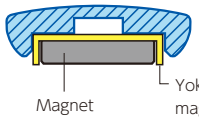
| | 72057 | 72058 | 72078 | 72061 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin<br>Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 3 N (300 gf) | | | |

| | 72062 | 72063 | 72079 | 72066 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin<br>Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 4 N (400 gf) | | | |

| | 72067 | 72068 | 72080 | 72071 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin<br>Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 4.5 N (450 gf) | | | |

| | 72072 | 72073 | 72081 | 72076 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin<br>Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 5 N (500 gf) | | | |

Strong color magnet cross section




JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Strong Color Magnets with Yoke in Vinyl Bag

Adsorption power 1 N 100 gf

ϕ20

71827

Adsorption power 4 N 400 gf

ϕ30

71830

Adsorption power 4.5 N 450 gf

ϕ40

71832

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 71824 | ϕ20 Red 6 pc-pack | ϕ20×9 | 4 | 4 960910 718241 | 10 | [B] |
| 71825 | ϕ20 White 6 pc-pack | ϕ20×9 | 4 | 4 960910 718258 | | |
| 71826 | ϕ20 Blue 6 pc-pack | ϕ20×9 | 4 | 4 960910 718265 | | |
| 71827 | ϕ20 Yellow 6 pc-pack | ϕ20×9 | 4 | 4 960910 718272 | | |
| 71828 | ϕ30 Red 6 pc-pack | ϕ30×10 | 12 | 4 960910 718289 | | |
| 71829 | ϕ30 White 6 pc-pack | ϕ30×10 | 12 | 4 960910 718296 | | |
| 71830 | ϕ30 Blue 6 pc-pack | ϕ30×10 | 12 | 4 960910 718302 | | |
| 71831 | ϕ30 Yellow 6 pc-pack | ϕ30×10 | 12 | 4 960910 718319 | | |
| 71832 | ϕ40 Red 6 pc-pack | ϕ40×11 | 18 | 4 960910 718326 | | |
| 71833 | ϕ40 White 6 pc-pack | ϕ40×11 | 18 | 4 960910 718333 | | |
| 71834 | ϕ40 Blue 6 pc-pack | ϕ40×11 | 18 | 4 960910 718340 | | |
| 71835 | ϕ40 Yellow 6 pc-pack | ϕ40×11 | 18 | 4 960910 718357 | | |

### Features

●Strong magnet with yoke

### Use

●As a memo holder on a chalkboard, steel object, and refrigerator

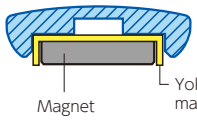
### Specifications

| | 71824 | 71825 | 71826 | 71827 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 1 N (100 gf) | | | |

| | 71828 | 71829 | 71830 | 71831 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 4 N (400 gf) | | | |

| | 71832 | 71833 | 71834 | 71835 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 4.5 N (450 gf) | | | |

Strong color magnet cross section




## Color Magnets

Adsorption power 0.8 N 80 gf

ϕ20

72012

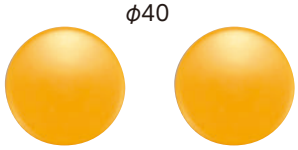
Adsorption power 1 N 100 gf

ϕ30

72015

Adsorption power 3 N 300 gf

ϕ40



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72010 | ϕ20 Red 5 pc-pack | ϕ20×9 | 4 | 4 960910 720107 | 10 | SP |
| 72011 | ϕ20 White 5 pc-pack | ϕ20×9 | 4 | 4 960910 720114 | | |
| 72012 | ϕ20 Blue 5 pc-pack | ϕ20×9 | 4 | 4 960910 720121 | | |
| 72014 | ϕ20 Yellow 5 pc-pack | ϕ20×9 | 4 | 4 960910 720145 | | |
| 72015 | ϕ30 Red 3 pc-pack | ϕ30×9 | 8 | 4 960910 720152 | | |
| 72016 | ϕ30 White 3 pc-pack | ϕ30×9 | 8 | 4 960910 720169 | | |
| 72017 | ϕ30 Blue 3 pc-pack | ϕ30×9 | 8 | 4 960910 720176 | | |
| 72019 | ϕ30 Yellow 3 pc-pack | ϕ30×9 | 8 | 4 960910 720190 | | |
| 72020 | ϕ40 Red 2 pc-pack | ϕ40×10 | 14 | 4 960910 720206 | | |
| 72021 | ϕ40 White 2 pc-pack | ϕ40×10 | 14 | 4 960910 720213 | | |
| 72022 | ϕ40 Blue 2 pc-pack | ϕ40×10 | 14 | 4 960910 720220 | | |
| 72024 | ϕ40 Yellow 2 pc-pack | ϕ40×10 | 14 | 4 960910 720244 | | |

### Features

●Convenient memo holder

### Use

●As a memo holder on a chalkboard, metal object, and refrigerator

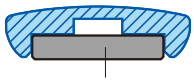
### Specifications

| | 72010 | 72011 | 72012 | 72014 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 0.8 N (80 gf) | | | |

| | 72015 | 72016 | 72017 | 72019 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 1 N (100 gf) | | | |

| | 72020 | 72021 | 72022 | 72024 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 3 N (300 gf) | | | |

Color magnet cross section




JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

## Color Magnets in Vinyl Bag

Adsorption power 0.8 N 80 gf

φ20

71812

Adsorption power 1 N 100 gf

φ30

71818

Adsorption power 3 N 300 gf

φ40

71823

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 71812 | φ20 Red 10 pc-pack | φ20×9 | 4 | 4 960910 718128 | 10 | B |
| 71813 | φ20 White10 pc-pack | φ20×9 | 4 | 4 960910 718135 | | |
| 71814 | φ20 Blue 10 pc-pack | φ20×9 | 4 | 4 960910 718142 | | |
| 71815 | φ20 Yellow 10 pc-pack | φ20×9 | 4 | 4 960910 718159 | | |
| 71816 | φ30 Red 10 pc-pack | φ30×9 | 8 | 4 960910 718166 | | |
| 71817 | φ30 White10 pc-pack | φ30×9 | 8 | 4 960910 718173 | | |
| 71818 | φ30 Blue 10 pc-pack | φ30×9 | 8 | 4 960910 718180 | | |
| 71819 | φ30 Yellow 10 pc-pack | φ30×9 | 8 | 4 960910 718197 | | |
| 71820 | φ40 Red 10 pc-pack | φ40×10 | 14 | 4 960910 718203 | | |
| 71821 | φ40 White10 pc-pack | φ40×10 | 14 | 4 960910 718210 | | |
| 71822 | φ40 Blue 10 pc-pack | φ40×10 | 14 | 4 960910 718227 | | |
| 71823 | φ40 Yellow 10 pc-pack | φ40×10 | 14 | 4 960910 718234 | | |

### Features

●Standard magnet

### Use

●As a memo holder on a chalkboard, steel object, and refrigerator

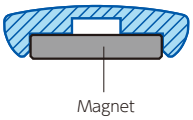
### Specifications

| | 71812 | 71813 | 71814 | 71815 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin<br>Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 0.8 N (80 gf) | | | |

| | 71816 | 71817 | 71818 | 71819 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin<br>Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 1 N (100 gf) | | | |

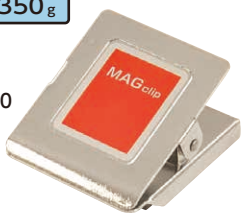
| | 71820 | 71821 | 71822 | 71823 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin<br>Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 3 N (300 gf) | | | |

Color magnet cross section




## Magnetic Clip Square

Withstand load 350 g




72040

Withstand load 400 g

72041

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72040 | B Small | 42×36×24 | 45 | 4 960910 720404 | 10 | SP |
| 72041 | C Large | 51×45×25 | 79 | 4 960910 720411 | | |

### Features

●Holds papers and sticks on a refrigerator
●Convenient to hold several papers or thick papers together
●Easy-to-hold square type

### Use

●As a memo holder on a chalkboard, metal object, or refrigerator

### Specifications

| | 72040 | 72041 |
|---|---|---|
| Material | Body (cover): Iron<br>Magnet: Ferrite | |
| Orientation | Isotropy | |
| Withstand Load | 350 g | 400 g |

## Magnetic Clips Circle

Withstand load 150 g

72036 72037 72038 72039

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72036 | A Green 2 pc-pack | φ30×17 | 16 | 4 960910 720367 | 10 | SP |
| 72037 | A Blue 2 pc-pack | φ30×17 | 16 | 4 960910 720374 | | |
| 72038 | A Yellow 2 pc-pack | φ30×17 | 16 | 4 960910 720381 | | |
| 72039 | A Red 2 pc-pack | φ30×17 | 16 | 4 960910 720398 | | |

### Features

●Holds papers and sticks on a refrigerator
●Four colorful patterns to choose from

### Use

●As a memo holder on a chalkboard, metal object, and refrigerator

### Specifications

| | 72036 | 72037 | 72038 | 72039 |
|---|---|---|---|---|
| Material | Body (cover): Polystyrene resin, iron<br>Magnet: Ferrite | | | |
| Orientation | Isotropy | | | |
| Withstand Load | 150 g | | | |

JIS JIS mark / With red numbers / cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) / With magnet / Vial with luminous sheet / Thermometer / Double-sided tape / Letters in Japanese / With stopper / Oil / Glass lens / With edge
Japanese zodiac signs / With battery / shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) / With non-slip pad / Thermometer/Hygrometer / Hygrometer / With hanging hole / Letters in English / With direction arrow / With grid scale / Plastic lens

## Magnetic Clips Flexible

Adsorption power 10 N 1 kgf

72126

### Features

- Displays memo or price tag at any angle
- Protective tape on the magnetic face protects the surface from getting scratched

### Use

- For placing memos, prices and POP displays on a chalkboard, steel object, and refrigerator, etc.

### Specifications

| | |
|---|---|
| Material | Body (clip part): ABS resin<br>Magnet: Ferrite |
| Orientation | Isotropy |
| Adsorption Power | 10 N (1 kgf) |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72126 | D White 2 pc-pack | 44×36×25 | 21 | 4 960910 721265 | 10 | Ⓢⓟ |

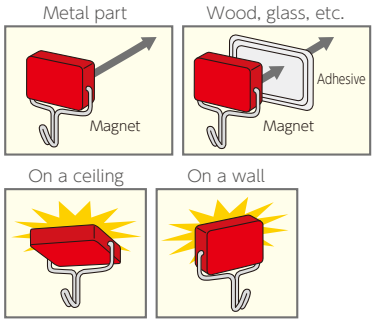
## Magnetic Hanger Square

Withstand load 2 kg

72032 72084 72085

### Features

- Magnet with a hook that will hold a bag, key, or any small thing
- Adhesive for sticking to non-metallic surfaces
- Unfixed hook makes it usable on a ceiling as well




### Use

- For hanging bags or small articles

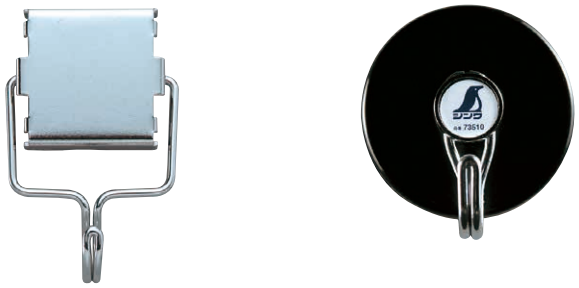
### Specifications

| | 72032 | 72084 | 72085 |
|---|---|---|---|
| Material | Body (cover): Iron Magnet: Ferrite | | |
| Accessories | Steel plate with adhesive | | |
| Orientation | Isotropy | | |
| Withstand Load | 2 kg | | |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72032 | B Yellow | 33×26×15 | 62 | 4 960910 720329 | 10 | Ⓢⓟ |
| 72084 | B Red | 33×26×15 | 62 | 4 960910 720848 | | |
| 72085 | B Blue | 33×26×15 | 62 | 4 960910 720855 | | |

## Ultra Strong Magnetic Hanger

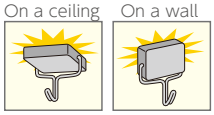
Maximum withstand load 5 kg



73500 73510

### Features

- Ultra strong model with an anisotropic magnet
- Protective tape on the magnetic face protects the surface from getting scratched. If stronger magnetic force is required, use without the tape.
  *Load capacity with tape: 3 kg
  without tape: 5 kg
- Unfixed hook makes it usable on a ceiling as well (73500)




### Use

- For hanging bags or small articles

### Specifications

| | 73500 | 73510 |
|---|---|---|
| Material | Body: Iron Magnet: Ferrite | |
| Orientation | Anisotropy | |
| Withstand Load | 3 - 5 kg | |

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73500 | Square C | 47×50×13 | 135 | 4 960910 735002 | 10 | Ⓢⓟ |
| 73510 | Circle D | ϕ76×10 | 323 | 4 960910 735101 | | |

JIS JIS mark Red With red numbers cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) With magnet Vial with luminous sheet Thermometer Double-sided tape Letters in Japanese With stopper Oil Glass lens With edge
Japanese zodiac signs With battery shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) With non-slip pad Thermometer/Hygrometer Hygrometer With hanging hole Letters in English With direction arrow With grid scale Plastic lens

## Magnetic Bar 25 cm

Adsorption power
4 N
400 gf

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72033 | Red | 250×15×7.5 | 50 | 4 960910 720336 | 10 | SP |
| 72034 | Blue | 250×15×7.5 | 50 | 4 960910 720343 | | |
| 72035 | Yellow | 250×15×7.5 | 50 | 4 960910 720350 | | |

### Features

- Makes it easy to display large paper materials such as maps, graphs, charts, documents and memos

### Use

- For displaying maps, graphs and documents

### Specifications

| | 72033 | 72034 | 72035 |
|---|---|---|---|
| Material | Body (cover): Vinyl chloride resin<br>Magnet: Ferrite | | |
| Orientation | Isotropy | | |
| Adsorption Power | 4 N (400 gf) | | |

## Magnet Stick

Adsorption power
0.2 N
20 gf

73514

Adsorption power
0.5 N
50 gf

73515

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73514 | Pair of Circle A | φ9×90 | 45 | 4 960910 735149 | 10 | VH |
| 73515 | Pair of Square B | 150×19×6 | 125 | 4 960910 735156 | | |

### Features

- Pair of NS magnets
- Stick type can be stored in narrow spaces

### Use

- As a teaching aid in science class, etc.

### Specifications

| | 73514 | 73515 |
|---|---|---|
| Material | Body: High carbon steel | |
| Adsorption Power | 0.2 N (20 gf) | 0.5 N (50 gf) |

## U-shaped Magnet

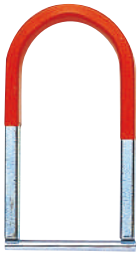
Adsorption power
6 N
600 gf

73530

Adsorption power
4.5 N
450 gf

73532

Adsorption power
2.5 N
250 gf



73531

Adsorption power
1 N
100 gf

73533

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 73530 | A-1 | 100×65×8 | 300 | 4 960910 735309 | 5 | SP |
| 73532 | A-2 | 77×57×8 | 250 | 4 960910 735323 | | |
| 73531 | B-1 | 90×52×5 | 150 | 4 960910 735316 | 10 | |
| 73533 | B-2 | 62×44×4 | 50 | 4 960910 735330 | | |

### Features

- NS magnet
- Strong force type (73530/73532)
- Lightweight, compact type (73531/73533)

### Use

- As a tool for collecting nails, etc. (73530/73532)
- As a teaching aid in science class, etc. (73531/73533)

### Specifications

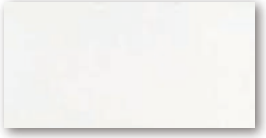
| | 73530 | 73532 |
|---|---|---|
| Material | Body: High carbon steel | |
| Adsorption Power | 6 N (600 gf) | 4.5 N (450 gf) |

| | 73531 | 73533 |
|---|---|---|
| Material | Body: High carbon steel | |
| Adsorption Power | 2.5 N (250 gf) | 1 N (100 gf) |

JIS JIS mark · With red numbers · cm/shaku (Upper side (or Front) metric/ Lower side (or Back) shaku) · With magnet · Vial with luminous sheet · Thermometer · Double-sided tape · Letters in Japanese · With stopper · Oil · Glass lens · With edge · Japanese zodiac signs · With battery · shaku/cm (Upper side (or Front) shaku/ Lower side (or Back) metric) · With non-slip pad · Thermometer/Hygrometer · Hygrometer · With hanging hole · Letters in English · With direction arrow · With grid scale · Plastic lens

## Steel Sheet 10 x 20 cm 0.2 mm Thick with Adhesive

72200



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72200 | Steel Sheet 2 pc-pack | 100×200×0.2 | 13 | 4 960910 722002 | 5 | [B] |

**Features**

- Non-magnetic surfaces such as wood, glass, and acrylic become magnetic by attaching the sheet
- Easy-to-cut in any desired shape with scissors or cutter
- Sheet type can be attached even to a curved surface

**Use**

- As a base for affixing magnets

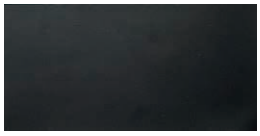
**Specifications**

| | |
|---|---|
| Material | Iron |

## Magnetic Sheet 10 x 20 cm 1.2 mm Thick with Adhesive

Adsorption power 0.13 N/cm² 13 gf/cm²

72009



| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72009 | 10 × 20 cm | 100×200×1.2 | 80 | 4 960910 720091 | 5 | [B] |

**Features**

- Easy-to-cut in any shape with scissors or cutter. Adhere the magnetic sheet to an object and it can be attached to steel, etc.
- Sheet type can be attached even to a curved surface

**Use**

- For sticking up a poster, calendar, and posting material, etc.

**Specifications**

| | |
|---|---|
| Material | Storontium ferrite, chlorinated polyethylene |
| Orientation | Isotropy |
| Adsorption Power | 0.13 N/cm² (13 gf/cm²) |

## Magnetic Sheet Piece 10 x 20 mm 0.8 mm Thick with Adhesive

Adsorption power 0.11 N/cm² 11 gf/cm²

72182

Size of 1 piece: 10 × 20 mm

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72182 | C-1 100 pc-pack | 100×200×0.8 | 51 | 4 960910 721821 | 5 | [B] |

**Features**

- Adhere a piece of magnetic sheet to an object and it can be attached to steel, etc.
- Already cut-out pieces come in handy for using on small objects

**Use**

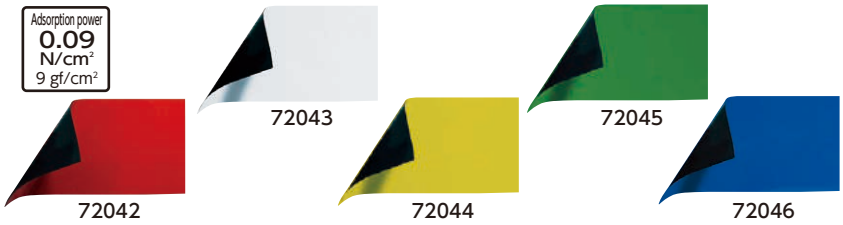
- For sticking up a poster, calendar, or posting material, etc.

**Specifications**

| | |
|---|---|
| Material | Storontium ferrite, chlorinated polyethylene |
| Orientation | Isotropy |
| Adsorption Power | 0.11 N/cm² (11 gf/cm²) |

## Magnetic Sheet 0.8 mm Thick

Adsorption power 0.09 N/cm² 9 gf/cm²




| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72042 | Gloss A Red 10 × 20 cm | 100×200×0.8 | 48 | 4 960910 720428 | 5 | [B] |
| 72043 | Gloss A White 10 × 20 cm | 100×200×0.8 | 48 | 4 960910 720435 | | |
| 72044 | Gloss A Yellow 10 × 20 cm | 100×200×0.8 | 48 | 4 960910 720442 | | |
| 72045 | Gloss A Green 10 × 20 cm | 100×200×0.8 | 48 | 4 960910 720459 | | |
| 72046 | Gloss A Blue 10 × 20 cm | 100×200×0.8 | 48 | 4 960910 720466 | | |
| 72047 | Mat B Red 10 × 30 cm | 100×300×0.8 | 80 | 4 960910 720473 | | |
| 72048 | Mat B White 10 × 30 cm | 100×300×0.8 | 80 | 4 960910 720480 | | |
| 72049 | Mat B Yellow 10 × 30 cm | 100×300×0.8 | 80 | 4 960910 720497 | | |
| 72050 | Mat B Green 10 × 30 cm | 100×300×0.8 | 80 | 4 960910 720503 | | |
| 72051 | Mat B Blue 10 × 30 cm | 100×300×0.8 | 80 | 4 960910 720510 | | |

**Features**

- Easily cut out any desired shape with scissors or cutter and stick on a chalkboard, steel, or refrigerator, etc.
- Sheet allows attaching even to a curved surface
- Gloss enables it to use as a whiteboard
- Convenient to write on for displays
- Uses are only limited by your ideas, such as sticking on a car, displaying a price of an item, etc.

**Use**

- For various displays

**Specifications**

| | 72042 | 72043 | 72044 |
|---|---|---|---|
| Material | Magnet: Storontium ferrite, chlorinated polyethylene<br>Surface: Chlorinated polyvinyl chloride resin | | |
| Orientation | Isotropy | | |
| Adsorption Power | 0.09 N/cm² (9 gf/cm²) | | |

| | 72045 | 72046 | 72047 |
|---|---|---|---|
| Material | Magnet: Storontium ferrite, chlorinated polyethylene<br>Surface: Chlorinated polyvinyl chloride resin | | |
| Orientation | Isotropy | | |
| Adsorption Power | 0.09 N/cm² (9 gf/cm²) | | |

| | 72048 | 72049 | 72050 | 72051 |
|---|---|---|---|---|
| Material | Magnet: Storontium ferrite, chlorinated polyethylene<br>Surface: Chlorinated polyvinyl chloride resin | | | |
| Orientation | Isotropy | | | |
| Adsorption Power | 0.09 N/cm² (9 gf/cm²) | | | |

## Fluorescent Magnetic Sheet Gloss A 10 x 20 cm 0.8 mm Thick

Adsorption power
0.11 N/cm²
11 gf/cm²

72204

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72204 | Yellow | 100×200×0.8 | 55 | 4 960910 722040 | 5 | B |

### Features

- Stands out with fluorescent color
- Stronger type with semi-anisotropic magnet
- Easily cut out any desired shape with scissors or cutter and stick on a chalkboard, steel, or refrigerator, etc.
- Sheet can be attached even to a curved surface
- Gloss enables it to use as a whiteboard
- Convenient to write on for displays
- Uses are only limited by your ideas, such as sticking on a car, displaying a price of an item, etc.

### Use

- For various displays

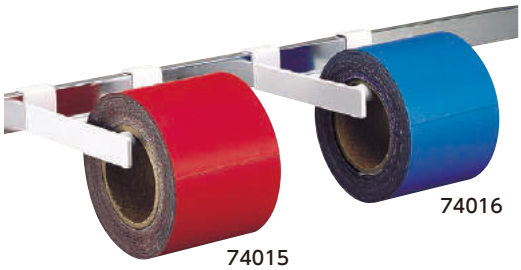
### Specifications

| | |
|---|---|
| Material | Magnet: Storontium ferrite, chlorinated polyethylene<br>Surface: Chlorinated polyvinyl chloride resin |
| Orientation | Semi-anisotropic |
| Adsorption Power | 0.11 N/cm² (11 gf/cm²) |

## Magnetic Sheet Mat 10 cm x 10 m 0.8 mm Thick

Adsorption power
0.09 N/cm²
9 gf/cm²

72215



74015

74016

*Please contact us separately about a display

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72215 | White Roll | 10 cm×10 m t =0.8 mm | 3,100 | 4 960910 722156 | 1 | |
| 74015 | Red Roll | 10 cm×10 m t =0.8 mm | 3,100 | 4 960910 740150 | | |
| 74016 | Blue Roll | 10 cm×10 m t =0.8 mm | 3,100 | 4 960910 740167 | | |

### Features

- 10 m roll allows cutting and selling in desired lengths at a store
- Easily cut out any desired shape with scissors or cutter and stick on a chalkboard, steel, or refrigerator, etc.
- Sheet can be attached even to a curved surface
- Convenient to write on for displays
- Uses are only limited by your ideas, such as sticking on a car, displaying a price of an item, etc.

### Use

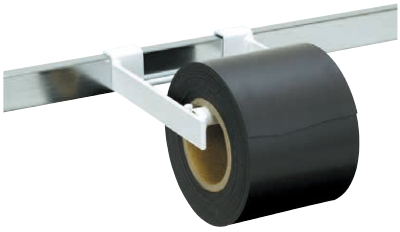
- For various displays

### Specifications

| | 72215 | 74015 | 74016 |
|---|---|---|---|
| Material | Magnet: Storontium ferrite, chlorinated polyethylene<br>Surface: Chlorinated polyvinyl chloride resin | | |
| Orientation | Isotropy | | |
| Adsorption Power | 0.09 N/cm² (9 gf/cm²) | | |

## Rubber Magnetic Sheet 10 cm x 10 m 0.8 mm Thick

Adsorption power
0.09 N/cm²
9 gf/cm²



72086

*Please contact us separately about a display

| Item Code | Description | Body Size (mm) | Weight (g) | JAN Code | Packing Unit | Packaging |
|---|---|---|---|---|---|---|
| 72086 | Black Roll | 10 cm×10 m t =0.8 mm | 3,000 | 4 960910 720862 | 1 | |

### Features

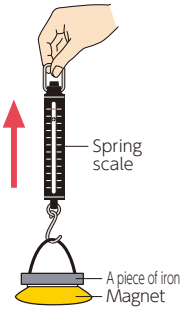
- 10 m roll type allows cutting and selling in desired lengths at a store
- Easily cut out any desired shape with scissors or cutter and stick on a chalkboard, steel, or refrigerator, etc.
- Sheet can be attached even to a curved surface

### Use

- For sticking up a poster, calendar, or posting material, etc.

### Specifications

| | |
|---|---|
| Material | Strontium ferrite, chlorinated polyethylene |
| Orientation | Isotropy |
| Adsorption Power | 0.09 N/cm² (9 gf/cm²) |




### ■Method of measuring adsorption power

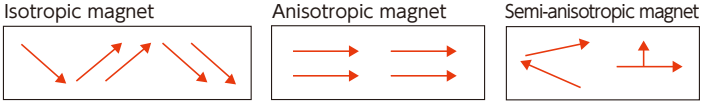
Let a magnet stick to a piece of iron (adsorption area 14 X 20 mm). Pull it straight up from the adsorption face and read the measurement value when the piece of metal comes off the magnet.

- Adsorption power: 1 gf=0.0098 N
- Load capacity: maximum weight that can be put on a hook.

*Adsorption power and load capacity are listed as references. Please be cautious as they can vary depending on the thickness of iron or coating.

### ■Orientation

Isotropic magnet / Anisotropic magnet / Semi-anisotropic magnet



Ferrite magnet and rubber magnet sheet can be classified roughly into isotropic magnets or anisotropic magnets depending on types of magnetic materials and shapes of crystals.

- An isotropic magnet has a random structure of ferrite (crystal) and its direction is not fixed, so its adsorption is uniformly strong from any direction.
- An anisotropic magnet has a stable structure of ferrite that forms in the same direction and has better magnetic characteristics compared to isotropic magnet.
- Semi-anisotropic magnet has an intermediate character.

# Parts List

## Carpenter's Square with Fence

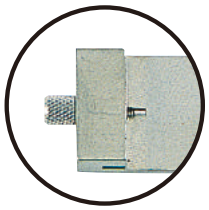
99080

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 99080 | 7 | 23 | Countersunk screws for Carpenter's Square with Fence |

## Rule Stopper

82415

82873



| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 82415 | 7 | 32 | Stopper screw for Rule Stopper for 15, 30, 60 cm |
| 82873 | 5 | 32 | Stopper screw for Rule Stopper for 1, 1.5, 2 m |

## Aluminum Rule Non-Slip Pad

84270

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 84270 | 0 | 38 | Non-slip pad for Aluminum Rule 30 - 60 cm, 1 m |

## Aluminum Cutting Rule

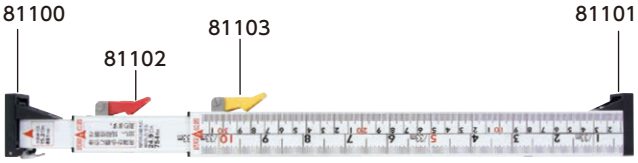
85518

99556

84259

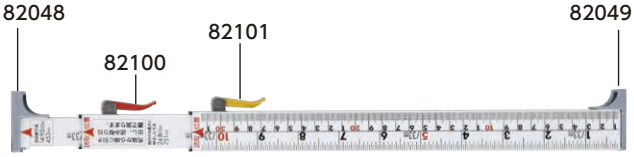
| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 85518 | 2 | 39 | Handle, screw set for Aluminum Cutting Rule EX |
| 99556 | 7 | 40 | Handle, screw set for Aluminum Cutting Rule |
| 84259 | 5 | 40 | Handle for Aluminum Cutting Rule Light |
| 80741 | 9 | 39 | Non-slip rubber sheet for Aluminum Cutting Rule EX 60 cm, 1 m |
| 82650 | 2 | 39 | Non-slip rubber sheet for Aluminum Cutting Rule EX 1.5 cm, 2 m |
| 73930 | 7 | 40 | Non-slip rubber for Aluminum Cutting Rule |

## Telescopic Measure One Direction II



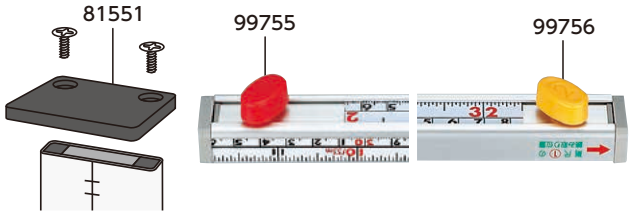

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 81102 | 7 | 41 | Stopper lever 1 red, shaft, screw set for Telescopic Measure One Direction Ⅱ |
| 81103 | 4 | 41 | Stopper lever 2 yellow, shaft, screw set for Telescopic Measure One Direction Ⅱ |
| 81100 | 3 | 41 | Plastic end A with hook, nut, screw set for Telescopic Measure One Direction Ⅱ |
| 81101 | 0 | 41 | Plastic end B, nut, screw set for Telescopic Measure One Direction Ⅱ |

## Telescopic Measure One Direction



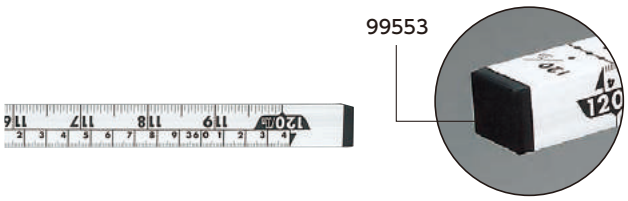

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 82100 | 2 | 41 | Stopper lever ① red, shaft, screw set for Telescopic Measure One Direction |
| 82101 | 9 | 41 | Stopper lever ② yellow, shaft, screw set for Telescopic Measure One Direction |
| 82048 | 7 | 41 | Upper cap, screw set for Telescopic Measure One Direction |
| 82049 | 4 | 41 | Lower cap, screw set for Telescopic Measure One Direction |

## Telescopic Measure Two Directions




| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 81551 | 3 | 42 | Side cap, screw set for Telescopic Measure Two Directions |
| 99755 | 4 | 42 | Stopper knob ① red for Telescopic Measure Two Directions |
| 99756 | 1 | 42 | Stopper knob ② yellow for Telescopic Measure Two Directions |

## Shaku Measure, Ken Measure, Sumiki Shaku Measure




| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 99553 | 6 | 42/43 | Rubber cap for Shaku Measure, Ken Measure, Sumiki Shaku Measure |

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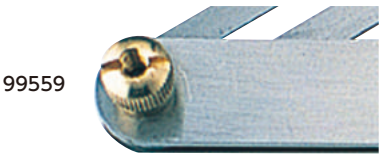
JAN code number is "4960910 + item code + C.D."

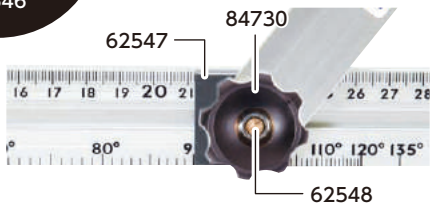
Parts List
Japan Calibration Service System (JCSS)
Etching
Sheet Heaters
Custom-Made Items
Name Printing
Index Item Code Description
Index Description Item Code

## Japanese Sliding Bevel




| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 99559 | 8 | 48 | Nut, center screw set for Japanese Sliding Bevel |

## Aluminum Sliding Bevel



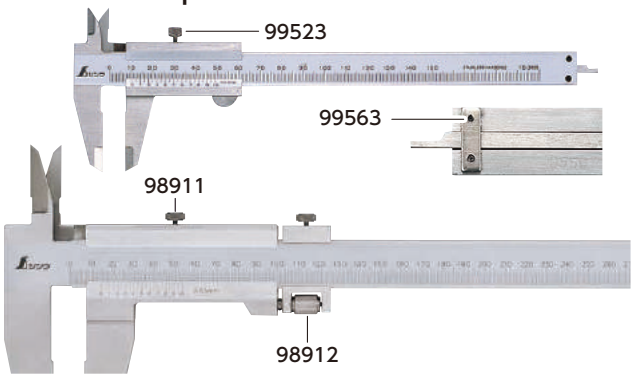
*The nut and plastic washer can also be used for Welding Guide Rule.

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 84730 | 9 | 49 | Grip Nut for Aluminum Sliding Bevel |
| 62546 | 4 | 49/148 | Nut for Aluminum Sliding Bevel and Welding Guide Rule |
| 62547 | 1 | 49/148 | Plastic washer for Aluminum Sliding Bevel and Welding Guide Rule |
| 62548 | 8 | 49 | Center screw for Aluminum Sliding Bevel |

## Protractor

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 99505 | 5 | 51/52 | Nut, washer set for Protractor No.19 |
| 99506 | 2 | 51 | Nut, washer, brass washer set for Protractor No.30 |
| 99507 | 9 | 51 | Nut, center screw set for Protractor No.101 |
| 99516 | 1 | 51 | End nut, iron bolt set for Protractor No.300 Double-blade |
| 99517 | 8 | 51 | End nut, iron bolt set for Protractor No.600 Double-blade |
| 99518 | 5 | 51 | End nut, iron bolt set for Protractor No.1000 Double-blade |

## Vernier Caliper




| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 99523 | 9 | 53 | Stopper knob for Vernier Caliper 150 mm |
| 99563 | 5 | 53 | Depth probe holding plate, screw set for Vernier Caliper 150 mm |
| 99524 | 6 | 53 | Stopper knob for Vernier Caliper 200 mm |
| 99564 | 2 | 53 | Depth probe holding plate, screw set for Vernier Caliper 200 mm |
| 99567 | 3 | 53 | Depth probe holding plate, screw set for Vernier Caliper 300 mm |
| 98911 | 5 | 53 | Stopper knob for Vernier Caliper 450, 600 mm |
| 98912 | 2 | 53 | Fine adjustment knob for Vernier Caliper 450, 600 mm |
| 98913 | 9 | 53 | Stopper knob for Vernier Caliper 1000 mm |
| 98914 | 6 | 53 | Fine adjustment knob for Vernier Caliper 1000 mm |
| 99525 | 3 | 54 | Stopper knob for Mini Vernier Caliper 100 mm |
| 99565 | 9 | 54 | Depth probe holding plate, screw set for Mini Vernier Caliper 100 mm |
| 82890 | 2 | 54 | Stopper knob for Mini Vernier Caliper 70 mm |

## Digital Vernier Caliper

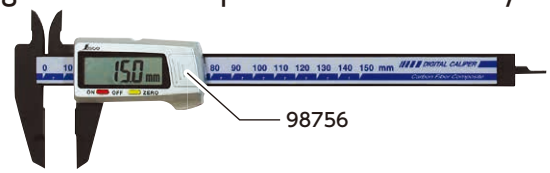
| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 98771 | 5 | 55 | Battery cap, screw set for Digital Vernier Caliper Mini |
| 98764 | 7 | 55 | Battery cap, screw set for Digital Vernier Caliper 150 - 300 mm |
| 98907 | 8 | 55 | Battery cap for Digital Vernier Caliper 450, 600 mm |
| 98908 | 5 | 55 | Battery cap for Digital Vernier Caliper 1000 mm |
| 98765 | 4 | 55 | Depth probe holding plate, screw set for Digital Vernier Caliper 150 mm and 200 mm |
| 98766 | 1 | 55 | Depth probe holding plate, screw set for Digital Vernier Caliper 300 mm |
| 98767 | 8 | 55 | Stopper knob for Digital Vernier Caliper 150 - 300 mm |
| 98909 | 2 | 55 | Fine adjustment knob for Digital Vernier Caliper 450, 600 mm |
| 98910 | 8 | 55 | Fine adjustment knob for Digital Vernier Caliper 1000 mm |
| 98774 | 6 | 55 | Digital part replacement for Digital Vernier Caliper Mini * |
| 98768 | 5 | 55 | Digital part replacement for Digital Vernier Caliper 150 mm* |
| 98769 | 2 | 55 | Digital part replacement for Digital Vernier Caliper 200 m* |
| 98770 | 8 | 55 | Digital part replacement for Digital Vernier Caliper 300 mm* |
| 98905 | 4 | 55 | Digital part replacement for Digital Vernier Caliper 450, 600 mm* |
| 98906 | 1 | 55 | Digital part replacement for Digital Vernier Caliper 1000 mm* |

*Please ask about digital unit replacement service

Please be aware that we will no longer provide components for discontinued products once the inventory runs out after discontinuation (however, this is limited to three years after discontinuation)

JAN code number is "4960910 + item code + C.D."

## Digital Vernier Caliper Carbon Fiber Body




| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 98755 | 5 | 56 | Battery cap for Digital Vernier Caliper Carbon Fiber Body 100 mm |
| 98756 | 2 | 56/57 | Battery cap for Digital Vernier Caliper Carbon Fiber Body 150 mm and Digital Depth Gauge |

## Telescopic Leveling Staff

76963

73269

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 76963 | 2 | 66 | Lock button for Telescopic Leveling Staff |
| 73269 | 8 | 66 | Lock button for Telescopic Leveling Staff Ⅱ |

## Measuring Wheel

77199

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 77199 | 4 | — | Rubber wheel for Measuring Wheel B20-S |

## Digital Scale with Plate

70120



70121

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 70120 | 5 | 81 | Stainless steel plate for Digital Scale |
| 70121 | 2 | 81 | Plastic plate for Digital Scale |

## Digital Scale with Stand

97217

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 97217 | 9 | 82 | AC adapter for Digital Scale with Stand 100 kg |

## Scale

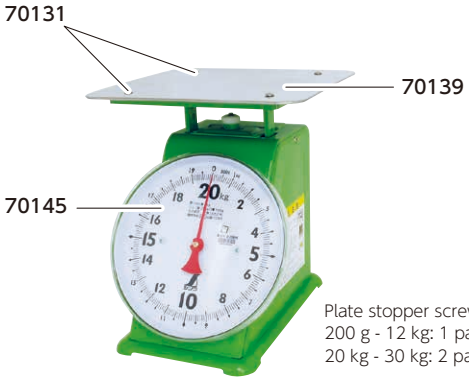



Plate stopper screws for
200 g - 12 kg: 1 pair needed
20 kg - 30 kg: 2 pairs needed

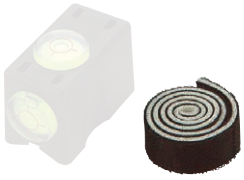
| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 70128 | 1 | 83 | Plate flat type for Scale 200 g - 1 kg |
| 70129 | 8 | 83 | Plate flat type for Scale 2 kg - 12 kg |
| 70139 | 7 | 83 | Plate flat type for Scale 20 kg |
| 70140 | 3 | 83 | Plate flat type for Scale 30 kg |
| 70143 | 4 | 83 | Plastic cover for Scale 200 g - 1 kg |
| 70144 | 1 | 83 | Plastic cover for Scale 2 kg - 12 kg |
| 70145 | 8 | 83 | Plastic cover for Scale 20 kg |
| 70146 | 5 | 83 | Plastic cover for Scale 30 kg |
| 81521 | 6 | 83 | Plastic cover for Scale 50 kg |
| 70131 | 1 | 83 | Plate fixing screw one pair (2 pc-set) for Scale 200 g - 30 kg |

## Slope Level

47049

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 47049 | 1 | 87 | Vial cover for Slope Level |

## Mini Level



84267

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 84267 | 0 | 91 | Band for Mini Level H |

## Blue Level Digital

46967

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 46967 | 9 | 92 | Digital part replacement for Blue Level Digital* |
| 98925 | 2 | 92 | Battery cap for Blue Level Digital |

*Please ask about digital unit replacement service

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JAN code number is "4960910 + item code + C.D."

Parts List
Japan Calibration Service System (JCSS)
Etching
Sheet Heaters
Custom-Made Items
Name Printing
Index Item Code Description
Index Description Item Code

## Laser ROBO

Level adjustment tripod adapter

76768

76924

Emitting port protective cap

80826

Battery storage cap

80802

80800

80713

80773

80801

80799

80732

81210

Handle

80733

67823

Toe

80781

Aluminum case

82228

82235

76925

Receiver holder

76659

83832

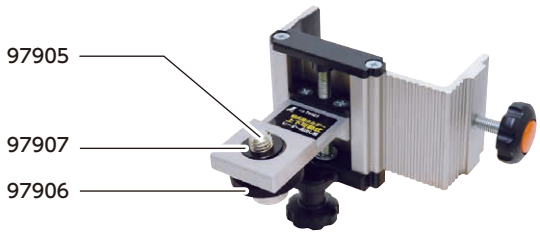
AC adapter

76791

76962

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 76768 | 3 | 97 - | Level adjustment tripod adapter for Laser ROBO Neo, E Sensor and X line |
| 76924 | 3 | 109 | Level adjustment tripod adapter for Laser ROBO Fine BRIGHT |
| 80826 | 3 | 97 | Emitting port protective cap for Laser ROBO X line |
| 80802 | 7 | 97 | Battery storage cap for Laser ROBO X line Green |
| 80801 | 0 | 97 | Battery storage cap for Laser ROBO X line Red |
| 80800 | 3 | 100 | Battery storage cap for Laser ROBO Green Neo E Sensor |
| 80799 | 0 | 101 | Battery storage cap for Laser ROBO Neo E Sensor |
| 80713 | 6 | 104 | Battery storage cap for Laser ROBO Green Neo AR BRIGHT |
| 80732 | 7 | 105 | Battery storage cap for Laser ROBO Neo AR BRIGHT |
| 80773 | 0 | 106 | Battery storage cap for Laser ROBO Green Neo BRIGHT |
| 81210 | 9 | 107 | Battery storage cap for Laser ROBO Neo BRIGHT |
| 80733 | 4 | 104/105 | Handle for Laser ROBO Neo AR BRIGHT |
| 67823 | 1 | 100 - | Handle for Laser ROBO Neo BRIGHT and E Sensor |
| 80781 | 5 | 97 - | Toe for Laser ROBO Neo BRIGHT, E Sensor and X line |
| 82228 | 3 | 97 | Aluminum case for Laser ROBO X line |
| 82235 | 1 | 100 - | Aluminum case for Laser ROBO Neo BRIGHT and E Sensor |
| 76925 | 0 | 109 | Aluminum case for Laser ROBO Fine BRIGHT |
| 76659 | 4 | 110 | Holder for Laser Receiver, model II and Plus |
| 83832 | 1 | 112 | Receiver holder for Rotating Laser H-2, HV-2 |
| 76791 | 1 | 97 - | AC adapter for Laser ROBO Green, E Sensor and X line |
| 76962 | 5 | 109 | AC adapter for Laser ROBO Fine 3C |

## Laser Holder




| Item Code | C. D. | Catalog Printing Page | Description of Product |
|---|---|---|---|
| 97905 | 5 | 111 | Fixing screw for Laser Holder |
| 97906 | 2 | 111 | Aluminum nut large for Laser Holder |
| 97907 | 9 | 111 | Aluminum nut small for Laser Holder |

## Auto Level

73844

46804

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 73844 | 7 | 112 | Storage case for Auto Level SA-24A and 28A |
| 46804 | 7 | 112 | Protective cap for Auto Level SA-24A and 28A |

## Tripod

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 83701 | 0 | 113 | Handle for Tripod with Handle A |
| 98917 | 7 | 113 | Handle for Tripod with Handle B |
| 98919 | 1 | 113 | Handle for Tripod with Handle C |
| 81570 | 4 | 113 | Stopper screw for Tripod with Handle A |
| 81856 | 9 | 113 | Carrying case for Tripod with Handle A |
| 97531 | 6 | 113 | Adjustment core for Tripod Spherical Head |
| 97533 | 0 | 113 | Stopper screw on adjustment core rail for Tripod Spherical Head |

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JAN code number is "4960910 + item code + C.D."

## Handy Ink Line Marker PRO/Jr. Plus

93287

93297

93280

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 93287 | 6 | 115 | Spring set (with string) for Handy Ink Line Marker PRO Plus Tough Line |
| 93288 | 3 | 115 | Spring set (with string) for Handy Ink Line Marker Jr. Plus Tough Line |
| 93297 | 5 | 115 | Spring set (with string) for Handy Ink Line Marker Pro Plus Sharp Line |
| 93298 | 2 | 115 | Spring set (with string) for Handy Ink Line Marker Jr. Plus Sharp Line |
| 93280 | 7 | 116 | Spring set (with string) for Handy Ink Line Marker PRO Plus |
| 93281 | 4 | 116 | Spring set (with string) for Handy Ink Line Marker Jr. Plus |

## Handy Ink Line Marker Pro/Jr. LITE

93300

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 93300 | 2 | 117 | Spring set (with string) for Handy Ink Line Marker PRO LITE |
| 93301 | 9 | 117 | Spring set (with string) for Handy Ink Line Marker Jr. LITE |

## Handy Ink Line Marker Mini α

80790

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 80790 | 7 | — | Threader for Handy Ink Line Marker Mini α |

## Handy Ink Line Marker SUMIWAZA

77907

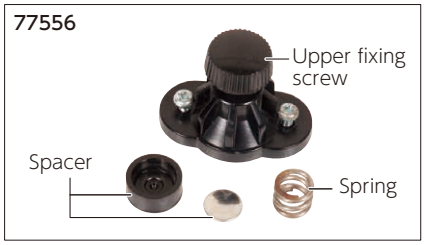
83653

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 77907 | 5 | 118 | Ratchet ring for Handy Ink Line Marker SUMIWAZA and Mini α |
| 83653 | 2 | 118 | Thread holding guide for Handy Ink Line Marker SUMIWAZA |

## Handy Chalk Line Neo

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 80665 | 8 | 119 | Screw for Handy Chalk Line Neo |

## Wind-resistant Plumb



| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 77553 | 4 | 123 | Rubber band for Wind-resistant Plumb |
| 77556 | 5 | 123 | Upper fixing screw, spacer, spring set for Wind-resistant Plumb |
| 77559 | 6 | 123 | Lower fixing screw, spacer, spring set for Wind-resistant Plumb |
| 77604 | 3 | 123 | Carrying case for Wind-resistant Plumb |

## Holder for Wind-resistant Plumb with Quick Arm

77648

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 77648 | 7 | 123 | Arm for Holder for Wind-resistant Plumb with Quick Arm |

## Handy Plumb Holder Pro

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 77926 | 6 | 124 | Pin cover for Handy Plumb Holder Pro Auto-rewind Red |
| 77959 | 4 | 124 | Pin cover for Handy Plumb Holder Pro Hand-rewind Blue |
| 77811 | 5 | 124 | Coil Spring for Handy Plumb Holder Pro |

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JAN code number is "4960910 + item code + C.D."

Parts List
Japan Calibration Service System (JCSS)
Etching
Sheet Heaters
Custom-Made Items
Name Printing
Index Item Code Description
Index Description Item Code

## Handy Plumb Holder Jr.

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 78094 | 1 | 124 | Pin cover for Handy Plumb Holder Jr. |
| 77956 | 3 | 124 | Coil Spring for Handy Plumb Holder Jr. |

## Circular Saw Guide L-Angle Series Handle

83737
L-Angle Ⅱ
L-Angle Adjust

99608
L-Angle with Support Plate
L-Angle with Horizontal Graduations
L-Angle for Left Hand

99552
L-Angle/L-Angle Ⅱ
L-Angle Adjust
L-Angle EX

98790
L-Angle EX 45 cm and 60 cm

98791
L-Angle EX 1 m

93310
L-Angle Plus

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 83737 | 9 | — | Handle for L-Angle Ⅱ and L-Angle Adjust |
| 99608 | 3 | 136/137 | Handle for L-Angle with Support Plate, with Horizontal Graduations, and for Left Hand |
| 99552 | 9 | 132 - | Handle installing screw for L-Angle Ⅱ, Adjust, and EX |
| 98790 | 6 | 132 | Handle screw set for L-Angle EX 45 cm and 60 cm |
| 98791 | 3 | 132 | Handle screw set for L-Angle EX 1 m |
| 93310 | 1 | 133 - | Handle non-slip rubber, screw set for L-Angle Plus |

## Circular Saw Guide L-Angle Series

99606

84231

83464
Mini Free Angle Ⅱ
L-Angle Ⅱ
L-Angle EX

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 77894 | 8 | 136 | Support plate for L-Angle with Support Plate 45 cm |
| 77884 | 9 | 136 | Support plate for L-Angle with Support Plate 60 cm |
| 77893 | 1 | 136 | Support plate for L-Angle with Support Plate 1 m |
| 84231 | 1 | 136 | Support plate installing screw for L-Angle with Support Plate |
| 99249 | 8 | 135 - | Cutout positioning stick fixing screw for L-Angle Ⅱ, Plus, with Support Plate, with Horizontal Graduations, and for Left Hand |
| 80925 | 3 | 134/141 | Cutout positioning stick fixing screw for L-Angle Adjust and Free Angle Neo |
| 99606 | 9 | 136/136 | Bracing fitting for L-Angle for L-Angle with Support Plate, with Horizontal Graduations, and for Left-hander 1 m |
| 93316 | 3 | 133 | Adjustment knob, movable pin, indicator, washer set for L-Angle Plus Shift |
| 93401 | 6 | 134 | Fine adjustment screw set for L-Angle Plus Adjust |
| 80908 | 6 | 138 | Stainless steel plate for L-Angle Mini 15 cm and Fit 15 cm |
| 84020 | 1 | 137 | Stainless steel plate for L-Angle 45 cm, Ⅱ 45 cm and Adjust 45 cm |
| 85273 | 0 | 132 - | Stainless steel plate for L-Angle EX 45 cm and Plus 45 cm |
| 73877 | 5 | 132 - | Stainless steel plate for L-Angle Ⅱ 60 cm, Adjust 60 cm, EX 60 cm and Plus 60 cm |
| 84287 | 8 | 132 - | Stainless steel plate for L-Angle Ⅱ 1 m, Adjust 1 m, EX 1 m and Plus 1 m |
| 93313 | 2 | 134 - | Stainless steel plate for L-Angle Adjust 1.2 m and Plus 1.2 m |
| 47234 | 1 | 134/141 | Cutout positioning stick for L- Angle Adjust 45 - 60 cm and Free Angle Neo 30 - 45 cm |
| 47235 | 8 | 134/141 | Cutout positioning stick for L- Angle Adjust 1 - 1.2 m and Free Angle Neo 60 - 1 m |
| 99203 | 0 | 135 - | Cutout positioning stick for Mini Free Angle Justy 23 cm, L-Angle Ⅱ 45 cm - 60 cm and L-Angle Plus |
| 99232 | 0 | 132 - | Cutout positioning stick for Mini Free Angle, L-Angle Ⅱ 1 m and EX 1 m |
| 83464 | 4 | 132 - | Non-slip rubber triangle for Mini Free Angle Ⅱ, L-Angle Ⅱ and EX |
| 93311 | 8 | 133 - | Upper protective cap for L-Angle Plus |
| 93312 | 5 | 133 - | Lower protective cap for L-Angle Plus |

Please be aware that we will no longer provide components for discontinued products once the inventory runs out after discontinuation (however, this is limited to three years after discontinuation)

JAN code number is "4960910 + item code + C.D."

## Circular Saw Guide T-Slide Series

**47358**
T-Slide Ⅱ
T-Slide Double
T-Slide Slim shift

**47364**
T-Slide Ⅱ

**47359**
T-Slide Ⅱ
T-Slide Double

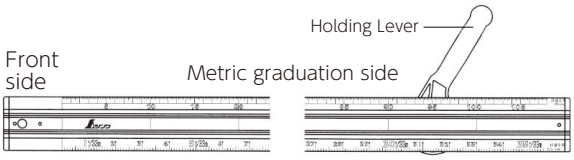
**47365**
T-Slide Double

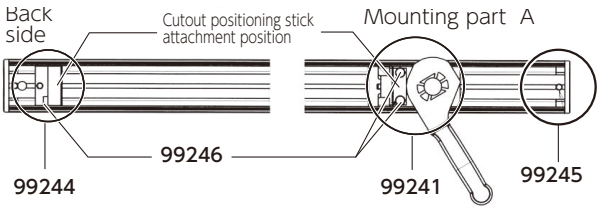
**47386**
T-Slide Slim shift

**47383**
T-Slide Slim shift

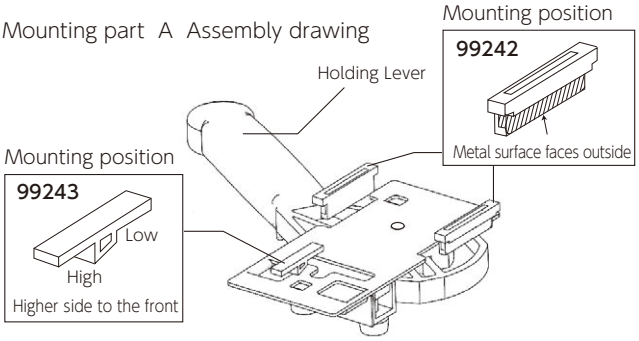
| Item Code | C.D. | Catalog Printing Page | Description |
|---|---|---|---|
| 47358 | 4 | 139/140 | Guide stabilization metal fitting for T-Slide Ⅱ, Double and Slim-shift |
| 47359 | 1 | 139/140 | Mounting position adjustment screw for T-slide Ⅱ and Double |
| 47364 | 5 | 139 | Slider for T-Slide Ⅱ |
| 47365 | 2 | 140 | Slider for T-Slide Double |
| 47383 | 6 | 139 | Slider for T-Slide Slim-shift |
| 47386 | 7 | 139 | Mounting position adjustment screw for T-Slide Slim-shift |

## Circular Saw Guide I-Clamp One-touch



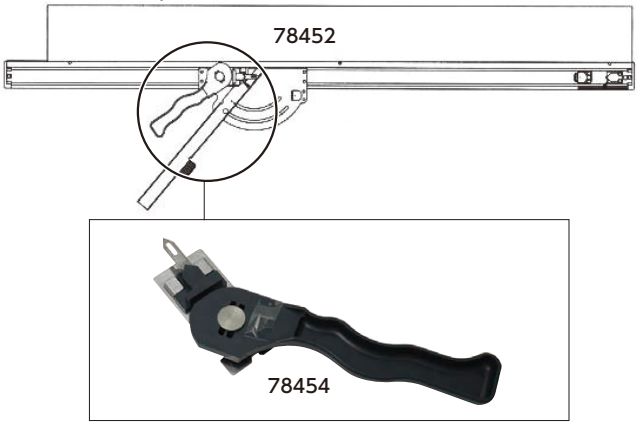

Mounting part A Assembly drawing




| Item Code | C.D. | Catalog Printing Page | Description |
|---|---|---|---|
| 99246 | 7 | 141 | Cutout positioning stick fixing screw for I-Clamp One-touch |
| 99241 | 2 | 141 | Mounting part A for I-Clamp One-touch |
| 99244 | 3 | 141 | Mounting part B, screw set for I-Clamp One-touch |
| 99243 | 6 | 141 | Wedge for I-Clamp One-touch |
| 99242 | 9 | 141 | Spreading plate 2 pc-set for I-Clamp One-touch and Free Angle One-touch |
| 99245 | 0 | 141 | Edge cap, screw set for I-Clamp One-touch |

## Circular Saw Guide Free Angle One-touch

Name of each part (Back)




| Item Code | C.D. | Catalog Printing Page | Description |
|---|---|---|---|
| 78452 | 9 | 142 | Assist plate, screw set for Free Angle One-touch 1 m |
| 78453 | 6 | 142 | Assist plate, screw set for Free Angle One-touch 1.2 m |
| 78454 | 3 | 142 | Front side hanging part with spring for Free Angle One-touch |

## Circular Saw Guide Free Angle Series

**85959**
Mini Free Angle II
Mini Free Angle Justy Ⅱ
Free Angle Neo

**99604**
Mini Free Angle Quick Adjust
Mini Free Angle Justy Quick Adjust

**99602**
Free Angle One-touch
Free Angle Multi

**99251**
Mini Free Angle Justy
Free Angle Series

**78237**

*Cutout positioning stick for Mini Free Angle II 23 cm/L-AngleⅡ45 - 60 cm/ L-Angle Plus, cutout positioning stick for Mini Free Angle Ⅱ/L-Angle Ⅱ1 m/EX1 m, and anti-slip rubber triangle for Mini Free AngleⅡ/L-Angle II/EX are listed under the L-Angle Series (P219).

| Item Code | C.D. | Catalog Printing Page | Description |
|---|---|---|---|
| 85959 | 3 | 141 - | Stopper screw, bolt, metal washer set for Mini Free Angle II, Justy Ⅱ and Neo |
| 99604 | 5 | 143 | Stopper screw, bolt, metal washer set for Mini Free Angle Quick Adjust and Justy Quick Adjust |
| 99602 | 1 | 142 | Stopper screw, bolt, metal washer set for Free Angle One-touch and Multi |
| 99251 | 1 | 141 - | Thin stopper screw, bolt, metal washer set for Mini Free Angle Justy and Free Angle |
| 78237 | 2 | 142 | Aluminum guide fixing screw for Free Angle Multi |
| 99605 | 2 | 143 | Cutout positioning stick fixing screw for Mini Free Angle Ⅱ and Justy Ⅱ |

## Stud Finder

**80697**

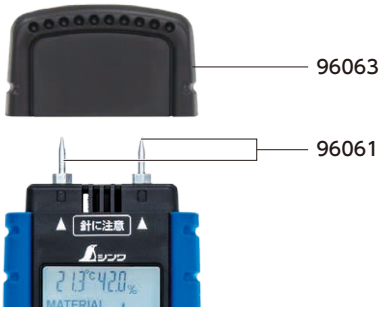
| Item Code | C.D. | Catalog Printing Page | Description |
|---|---|---|---|
| 80620 | 7 | — | Spring for Stud Finder L |
| 80697 | 9 | — | Spring for Stud Finder L with Magnet |
| 80634 | 4 | — | Spring for Stud Finder LL |

Please be aware that we will no longer provide components for discontinued products once the inventory runs out after discontinuation (however, this is limited to three years after discontinuation)

JAN code number is "4960910 + item code + C.D."

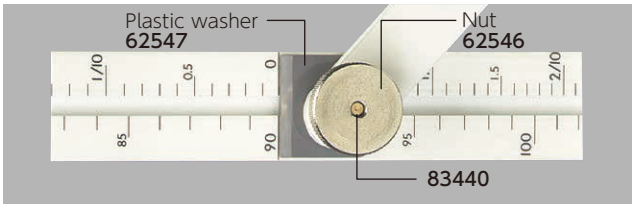
Parts List
Japan Calibration Service System (JCSS)
Etching
Sheet Heaters
Custom-Made Items
Name Printing
Index Item Code Description
Index Description Item Code

## Digital Moisture Meter for Wood




| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 96061 | 9 | 146 | Needle pin 2 pc-pack for Digital Moisture Meter for Wood |
| 96063 | 3 | 146 | Protective cap for Digital Moisture Meter for Wood |

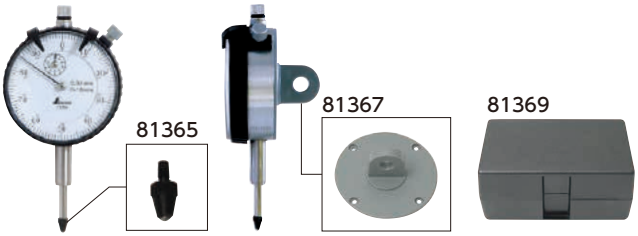
## Welding Guide Rule




*The nut and plastic washer can also be used for Aluminum Sliding Bevel as well (P215).

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 83440 | 8 | 148 | Center screw for Welding Guide Rule |
| 83525 | 2 | 148 | Magnet for Welding Guide Rule |

## Dial Gauge

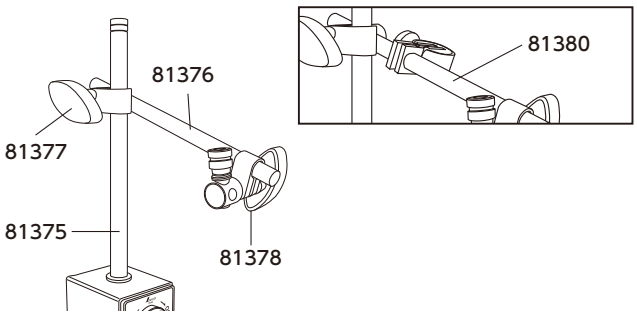



| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 81365 | 6 | 156 | Gauge head for Dial Gauge |
| 81367 | 0 | 156 | Back cover with lug for Dial Gauge |
| 81369 | 4 | 156 | Plastic case for Dial Gauge |

## Dial Indicator

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 81370 | 0 | 156 | Stem $\phi$6 for Dial Indicator |
| 81371 | 7 | 156 | Stem $\phi$8 for Dial Indicator |
| 81372 | 4 | 156 | Gauge head spanner for Dial Indicator |
| 81373 | 1 | 156 | Gauge head for Dial Indicator |
| 81374 | 8 | 156 | Plastic case for Dial Indicator |

## Magnetic Stand




| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 81375 | 5 | 157 | Post for Magnetic Stand A and A-2 |
| 81376 | 2 | 157 | Arm for Stand for Magnetic Stand A Standard |
| 81380 | 9 | 157 | Arm for Magnetic Stand A-2 Fine Adjustment |
| 81377 | 9 | 157 | Stopper screws complete set with knobs for Magnetic Stand A and A-2 |
| 81378 | 6 | 157 | Gauge installation complete set for Magnetic Stand A and A-2 |

## Large Inspection Mirror

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 84116 | 1 | 157 | Mirror with frame for Large Inspection Mirror C-1 |
| 84117 | 8 | 157 | Mirror with frame for Large Inspection Mirror C-2 |

## Inspection Mirror

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 84171 | 0 | 158 | Mirror with frame for Inspection Mirror A-1 and D-1 |
| 78946 | 3 | 158 | Mirror with frame for Inspection Mirror A-2 and D-2 |
| 70720 | 7 | 158 | Mirror with frame for Inspection Mirror A-3 and D-3 |
| 84159 | 8 | 158 | Mirror with frame for Inspection Mirror A-4 and D-4 |
| 84160 | 4 | 158 | Mirror with frame for Magnifying Mirror B-1 |
| 84161 | 1 | 158 | Mirror with frame for Magnifying Mirror B-2 |
| 84162 | 8 | 158 | Mirror with frame for Magnifying Mirror B-3 |
| 84163 | 5 | 158 | Mirror with frame for Magnifying Mirror B-4 |
| 80941 | 3 | 158 | Joint for Inspection Mirror A, D, Magnifying Mirror |

## Inspection Scope

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 74180 | 5 | 159 | Battery replacement for Inspection Scope * |

*Battery change will be handled as a repair.

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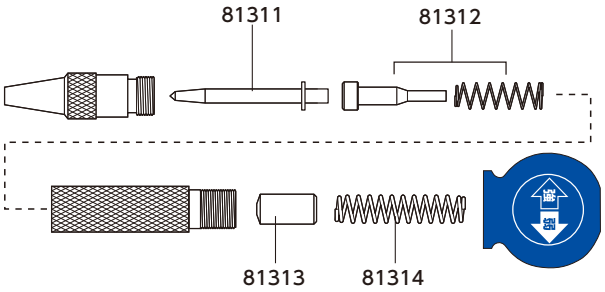
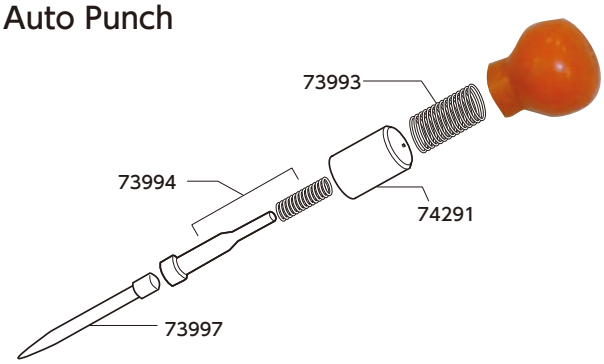
JAN code number is "4960910 + item code + C.D."

## Auto Punch with Flat Grip to Prevent Rolling




| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 81311 | 3 | 160 | Tip with superhard chip for Auto Punch M with Flat Grip to Prevent Rolling |
| 81312 | 0 | 160 | Front spring with guide pin for Auto Punch M with Flat Grip to Prevent Rolling |
| 81313 | 7 | 160 | Hammer pin for Auto Punch M with Flat Grip to Prevent Rolling |
| 81314 | 4 | 160 | Rear spring for Auto Punch M with Flat Grip to Prevent Rolling |
| 81315 | 1 | 160 | Tip with superhard chip for Auto Punch L with Flat Grip to Prevent Rolling |
| 81316 | 8 | 160 | Front spring with guide pin for Auto Punch L with Flat Grip to Prevent Rolling |
| 81317 | 5 | 160 | Hammer pin for Auto Punch L with Flat Grip to Prevent Rolling |
| 81318 | 2 | 160 | Rear spring for Auto Punch L with Flat Grip to Prevent Rolling |

## Auto Punch




| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 73997 | 0 | 160 | Tip with superhard chip for Auto Punch M |
| 73994 | 9 | 160 | Front spring and guide pin set for Auto Punch M |
| 74291 | 8 | 160 | Hammer pin for Auto Punch M |
| 73993 | 2 | 160 | Rear spring for Auto Punch M |
| 73992 | 5 | 160 | Tip with superhard chip for Auto Punch L |
| 73996 | 3 | 160 | Front spring and guide pin set for Auto Punch L |
| 85773 | 5 | 160 | Hammer pin for Auto Punch L |
| 73995 | 6 | 160 | Rear spring for Auto Punch L |

## Suction Lifter

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 81623 | 7 | 161 | Stopper for Suction Lifter Double A and Single B |

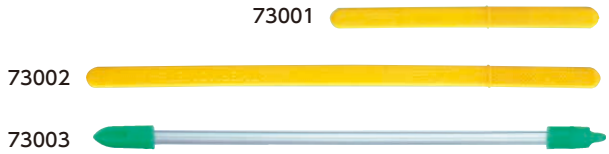
## Digital Thermometer

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 73047 | 2 | 172/173 | Sensor probe for Digital Thermometer G and Wireless Thermometer A |

## Psychrometer

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 46845 | 0 | 176 | Water tank for Psychrometer E-2 |

## Stick Thermometer

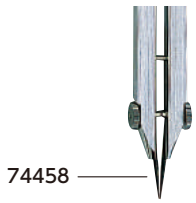



| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 73001 | 4 | 179 | Case for Stick Thermometer 15 cm |
| 73002 | 1 | 179 | Case for Stick Thermometer 30 cm |
| 73003 | 8 | 179 | Clear Case for Stick Thermometer H-3 30 cm |

## Magnifying Glass

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 76507 | 8 | 190 | Light bulb for Magnifier with Light for Reading E and F |

## Drawing Divider




| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 74458 | 5 | 198 | Replacement lead for Drawing Divider |

## Hand Magnet

| Item Code | C. D. | Catalog Printing Page | Description |
|---|---|---|---|
| 84297 | 7 | 204 | Handle and screws set for Hand Magnet B-2 |

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JAN code number is "4960910 + item code + C.D."

# ■Japan Calibration Service System (JCSS)

## What is JCSS (Japan Calibration Service System)?

JCSS consists of the National Standards Provision System and the Calibration Laboratory Accreditation System introduced by the revised Measurement Law that was enforced in November 1993. Calibration laboratories are assessed and accredited for their technological capabilities and traceability by the National Institute of Technology and Evaluation (NITE) to meet the requirements of certified international standard, ISO/IEC 17025.

## What is MRA?

MRA (Mutual Recognition Arrangement) is an international agreement by which two or more countries agree to recognize one another's traceability system. JCSS signed an MRA with APLAC (Asia Pacific Laboratory Accreditation Cooperation) in December 1999, and signed an MRA with ILAC (International Laboratory Accreditation Cooperation) in November 2000. JCSS has been accepted as an accreditation operator conforming to international criteria.

## JCSS Calibration Service (Stainless Steel Rule, Steel Tape Measure, Vernier Caliper, Micrometer)

The Quality Assurance Department at Shinwa Rules Co., Ltd. was registered as a registered calibration laboratory in the "length" field in February 2001 and accredited as an MRA conforming JCSS laboratory in November 2013. Under this program, we are able to issue a JCSS calibration certificate with an MRA accreditation symbol. This certificate is internationally accepted to conform to one of the MRA signatory countries.

## Contents of Business
## Shinwa Rules Co., Ltd. Quality Assurance Department Registration number 0092

| Item / Scope of Service | | Maximum Measurement Capability (Minimum Uncertainty of Measurement*) | Remark |
|---|---|---|---|
| Stainless Steel Rule Up to 1,000 mm | | 0.02 mm | Calibrated by Working Standard<br>Calibratable graduation is 50 mm pitch |
| Stainless Steel Rule (The base point on the edge) Up to 1,000 mm | | 0.02 mm | |
| Stainless Steel Rule from 1,000 mm up to 2,000 mm | | 0.05 mm | |
| Stainless Steel Rule (The base point on the edge) from 1,000 mm up to 2,000 mm | | 0.06 mm | |
| Stainless Steel Rule (Precision type) Up to 1,000 mm | | 11 μm | Calibrated by Laboratory Reference Standard (Our highest rank gauge)<br>Calibratable graduation is 100 mm pitch |
| Steel Tape Measure Up to 100 m | | Up to 5 m: 0.08 mm<br>More than 5 m up to 100 m: 0.08 mm added to the above value in every 5 m increase | Limited to tensile strength of more than 10 N up to 100 N Compact tape measures (with a hook and auto roll up function) are not included.<br>Calibratable graduation is 1 m pitch |
| Vernier Caliper Up to 300mm | Scale Interval 0.10 mm | 0.08 mm | Calibratable graduation is 20, 50, 100, 150, 200, 250, 300 mm<br>*"Depth probe zero point deviation" is not applicable |
| | Scale Interval 0.05 mm | 0.06 mm | |
| | Scale Interval 0.02 mm | 0.04 mm | |
| | Scale Interval 0.01 mm | 0.03 mm | |
| Outside Micrometer Up to 50 mm | | 3 μm | Combination of 16-piece set of gauge blocks from 1 - 50 mm |

*Uncertainty is based on the assumption that the absolute true value cannot be known, so variation etc. is comprehensively evaluated, and the value is statistically estimated to be within the range thought to include the true value.

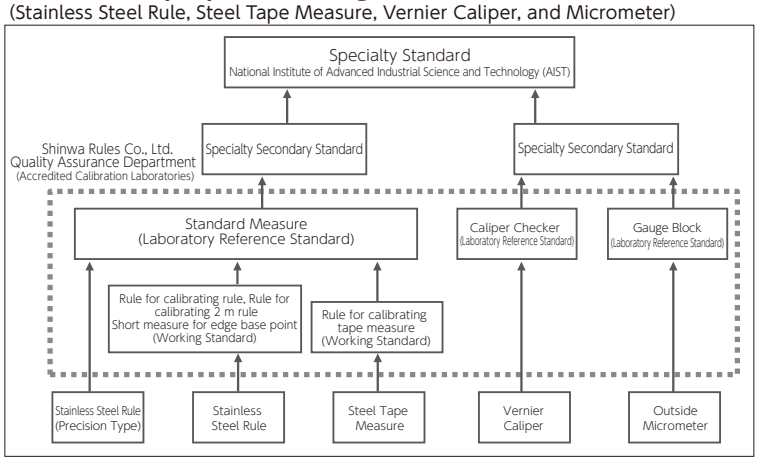
## Measuring Point

| Applicable Calibration | | Measuring Point | Additional Measuring Point |
|---|---|---|---|
| Stainless Steel Rule | Up to 2,000 mm | Basic 4 points are at 100 mm and the entire length on the upper and lower graduations. For 100 mm rules, they are at 50 mm and 100 mm on the upper and lower graduations. Please inquire about rules with only one side graduations or ones with graduations on both faces. | Measuring point can be added if requested, which will incur an extra chargeto the package price. (Please see the next page for details.) |
| Stainless Steel Rule (Precision Type) | Up to 1,000 mm | 1 point at every 100 mm (one side graduation)<br>10 points for 1,000 mm rules | |
| Steel Tape Measure | Up to 5 m | 1 point per 1 m. 5 points for the total length of 5 m. | |
| | From 5 m – 20 m | 1 point per 1 m up to 5 m, 1 point per 5 m for 5 m or more<br>For the total length of 20 m, total 8 points at 1,2,3,4,5,10,15,20 m | |
| | From 20 m – 50 m | 1 point per 1 m up to 5 m, 1 point per 5 m for 5 m or more<br>For the total length of 50 m, total 14 points at 1,2,3,4,5,10,15,20…45, 50 m | |
| | From 50 m – 100 m | Set package is not available. Please specify your requirements. | Since there is no set package available, please inquire for an quote. |
| Vernier Caliper | 70 mm | 4 points at 20 mm and 50 mm for inside and outside | Measuring points can be added if requested, which will incur an extra chargeto the package price. (Please see the next page for details.) |
| | 100 mm | 6 points at 20 mm, 50 mm, and 100 mm for inside and outside | |
| | 150 mm | 6 points at 50 mm, 100 mm, and 150 mm for inside and outside | |
| | 200 mm | 6 points at 50 mm, 100 mm, and 200 mm for inside and outside | |
| | 300 mm | 6 points at 100 mm, 200 mm, and 300 mm for inside and outside | |
| Micrometer | 0 – 25 mm | Total 3 points at 1.25, 11.5, 25 mm | |
| | 25 – 50 mm | Total 3 points at 25.25, 36.5, 50 mm | |

## JCSS Calibration Certificate

## Traceability System Diagram

(Stainless Steel Rule, Steel Tape Measure, Vernier Caliper, and Micrometer)




## Calibration Service List

### Received Products (JCSS Calibration Certificate only)

This is the price list when we handle a product that you already have and issue a JCSS calibration certificate.

#### JCSS Calibration Certificate for Stainless Steel Rules

| Item Code | C.D. | Description |
|---|---|---|
| 19010 | 8 | 10 cm |
| 19034 | 4 | 15 cm |
| 19035 | 1 | 30 cm |
| 19036 | 8 | 60 cm |
| 19037 | 5 | 1 m |
| 19075 | 7 | 1.5 m |
| 19076 | 4 | 2 m |
| 19044 | 3 | Over 1 m under 2 m |
| 19045 | 0 | Under 1 m |

#### JCSS Calibration Certificate for Precision Stainless Steel Rules

| Item Code | C.D. | Description |
|---|---|---|
| 83702 | 7 | 30 cm |
| 83802 | 4 | 60 cm |
| 83502 | 3 | 1 m |

#### JCSS Calibration Certificate for Steel Tape Measures

| Item Code | C.D. | Description |
|---|---|---|
| 19039 | 9 | under 5 m |
| 19047 | 4 | Over 5 m under 20 m |
| 19048 | 1 | Over 20 m under 50 m |
| 19049 | 8 | Over 50 m under 100 m |

#### JCSS Calibration Certificate for Vernier Calipers

| Item Code | C.D. | Description |
|---|---|---|
| 19060 | 3 | 70 mm |
| 19061 | 0 | 100 mm |
| 19056 | 6 | 150 mm |
| 19057 | 3 | 200 mm |
| 19058 | 0 | 300 mm |

#### JCSS Calibration Certificate for Micrometers

| Item Code | C.D. | Description |
|---|---|---|
| 19082 | 5 | 0 - 25 mm |
| 19083 | 2 | 25 - 50 mm |

### Manufactured Products with Certificate (Product and JCSS Calibration Certificate)

This is the price list when a JCSS calibration certificate is attached at the time a new product is newly purchased. ∗Please confirm the use of each product on each page

#### Stainless Steel Rule Hard Chrome Finish ∗Refer to P30

| Item Code | C.D. | Description |
|---|---|---|
| 19014 | 6 | 15 cm |
| 19015 | 3 | 30 cm |
| 19016 | 0 | 60 cm |
| 19017 | 7 | 1 m |
| 19063 | 4 | 1.5 m |
| 19064 | 1 | 2 m |

#### Stainless Steel Rule Polish Finish ∗Refer to P30

| Item Code | C.D. | Description |
|---|---|---|
| 19018 | 4 | 15 cm |
| 19019 | 1 | 30 cm |
| 19020 | 7 | 60 cm |
| 19021 | 4 | 1 m |
| 19065 | 8 | 1.5 m |
| 19066 | 5 | 2 m |

#### Vernier Caliper ∗Refer to P53/54

| Item Code | C.D. | Description |
|---|---|---|
| 19054 | 2 | Mini 70 mm |
| 19055 | 9 | Mini 100 mm |
| 19051 | 1 | 150 mm |
| 19052 | 8 | 200 mm |
| 19053 | 5 | 300 mm |

#### Stainless Steel Pickup Rule Hard Chrome Finish ∗Refer to P30

| Item Code | C.D. | Description |
|---|---|---|
| 19012 | 2 | 10 cm |
| 19022 | 1 | 15 cm |
| 19023 | 8 | 30 cm |
| 19024 | 5 | 60 cm |
| 19025 | 2 | 1 m |

#### Flexible Stainless Steel Rule Hard Chrome Finish ∗Refer to P31

| Item Code | C.D. | Description |
|---|---|---|
| 19026 | 9 | 30 cm |
| 19027 | 6 | 60 cm |
| 19028 | 3 | 1 m |
| 19067 | 2 | 1.5 m |
| 19068 | 9 | 2 m |

#### Digital Vernier Caliper ∗Refer to P55

| Item Code | C.D. | Description |
|---|---|---|
| 19084 | 9 | Mini 100 mm |
| 19085 | 6 | 150 mm |
| 19086 | 3 | 200 mm |
| 19087 | 0 | 300 mm |

#### Digital Vernier Caliper with Solar Panel ∗Refer to P56

| Item Code | C.D. | Description |
|---|---|---|
| 47293 | 8 | 150 mm |
| 81484 | 4 | 150 mm |

∗Only stainless steel body products are calibratable for vernier calipers.
(Except for item number 19518 Pocket Vernier Caliper)

#### Stainless Steel Rule Hard Chrome Finish with Magnet ∗Refer to P31

| Item Code | C.D. | Description |
|---|---|---|
| 81741 | 8 | 15 cm |
| 80288 | 9 | 30 cm |
| 82826 | 1 | 60 cm |
| 83249 | 7 | 1 m |

#### Stainless Steel Rule Hard Chrome Finish 1 mm Dividing

∗Made-to-order
∗Refer to P32

| Item Code | C.D. | Description |
|---|---|---|
| 47032 | 3 | 15 cm |
| 81838 | 5 | 30 cm |
| 81476 | 9 | 60 cm |
| 50027 | 3 | 1 m |

#### Micrometer ∗Refer to P58

| Item Code | C.D. | Description |
|---|---|---|
| 19080 | 1 | 0 - 25 mm |
| 19081 | 8 | 25 - 50 mm |

#### Additional Measuring Point (Optional)

The above prices are listed for calibration with basic measuring points. Added measuring points will incur an extra charge.

| Item Code | C.D. | Description |
|---|---|---|
| 84058 | 4 | 1 additional measuring point |

#### Calibration Certificate Reissue (Within three years from the date of issue)

A reissue fee will be charged for an additional certificate requested.
There will be no fee for reissuing a copy of a JCSS accession certificate.

| Item Code | C.D. | Description |
|---|---|---|
| 96106 | 7 | Reissue of JCSS Calibration Certificate, Private Examination Result |

#### Digital Micrometer ∗Refer to P58

| Item Code | C.D. | Description |
|---|---|---|
| 19088 | 7 | 0 - 25 mm |

∗Customer's name and address are required to issue a JCSS calibration certificate. Please let us know with your order.
∗Calibration certificate and traceability system diagram comes with a product. If a JCSS accession certificate is required, please contact us.
∗Please request calibration certificates for products other than the above through suppliers. We will provide a separate estimate (it will be for a general calibration certificate, not a JCSS calibration certificate).

Parts List
Japan Calibration Service System (JCSS)
Etching
Sheet Heaters
Custom-Made Items
Name Printing
Index Item Code Description
Index Description Item Code

# ■Etching

## What is Etching?

Etching is an application of a photomechanical process technique and a process of grooving, engraving, and drilling by chemical treatment on the surface of metals, such as stainless steel, iron, and copper. It enables us to process a variety of precision parts or ornaments to match a customer's needs.

## Features

### 1 Fine Processing

Enables fine processing which pressing can not create

### 2 Finishing

No burrs, residual strain, or work hardening

### 3 Design Effect

Name plates or metal ornament items can utilize the design effect from the contrast between the metal surface and the etched concave satin finish surface

### 4 Low Cost

Provides low initial cost without using molds or jigs unlike pressing

### 5 Early delivery date

Enables the process of multiple pieces at the same time

## ■Main Usage Examples

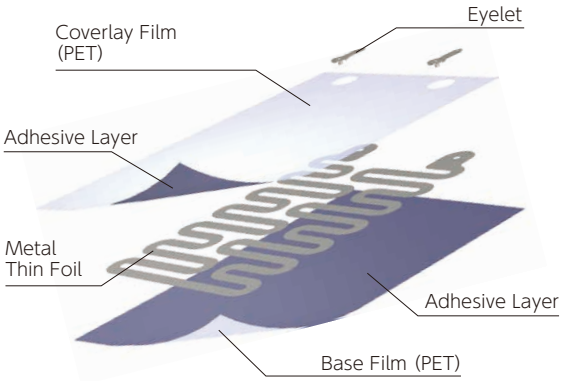
- ●Filter
- ●Mesh or perforated plate
- ●Metal ornament items
- ●Sales promotion (Clip/Bookmark)
- ●Spacer, shim plate
- ●Art and craft work, ornament
- ●Name plate, name tag, sign, etc.

For etching please contact…

Shinwa Rules Co., Ltd. FE Department
3485 Koike, Tsubame-shi, Niigata-ken, Japan Postal code 959-1276
TEL. +81-256-61-1114 FAX. +81-256-61-1114

# ■Sheet Heaters

Shinwa's surface heating element is a thin heating sheet that generates heat by running electricity through a thin metal foil. It is very soft and flexible, which makes it ideal to heat a curved surface or narrow space.
Additionally, making the circuit from etching, it is easy to get the ideal heat distribution that a designer intends. Everything is made-to-order, designed and manufactured, in a way that matches a customer's needs.




## Features

### 1 Free Shape

Making a circuit by etching enables design and manufacture in any required shapes

### 2 Thin

The minimum thickness of approximately 0.1 mm makes it ideal for weight-saving and simplifying a machine

### 3 Flexible

The flexibility allows it to be attached to a curved surface

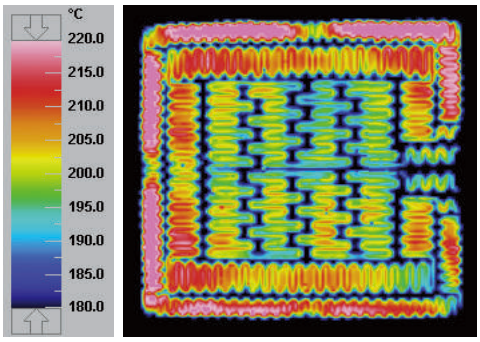
### 4 Changeable Heat Distribution

Because the distribution and shape of the heater circuit can be changed, calorific value can be uniform or partially changed

### 5 Quick Start

The shape and small heat capacity help it to heat up quickly

### Heat Distribution




## Usage Examples

Widely being used for medical equipment, motor vehicles, airplanes, rockets, etc.

For sheet heaters please contact…

Shinwa Rules Co., Ltd. FE Department
3485 Koike, Tsubame-shi, Niigata-ken, Japan Postal code 959-1276
TEL. +81-256-61-1114 FAX. +81-256-61-1114
http://www.shinwasokutei.co.jp/menpatsu1

Parts List
Japan Calibration Service System (JCSS)
Etching
Sheet Heaters
Custom-Made Items
Name Printing
Index Item Code Description
Index Description Item Code

# ■Custom-made Items

**We produce custom-made items, such as stainless steel rules, carpenter's squares, special scales, etc., based on requested sizes and graduations.**
**Please feel free to contact us about quantity, delivery date, price and more.**

## Custom-made Stainless Steel Rules

◎Production Examples

●Stainless Steel Rule 15 cm Gold Finish

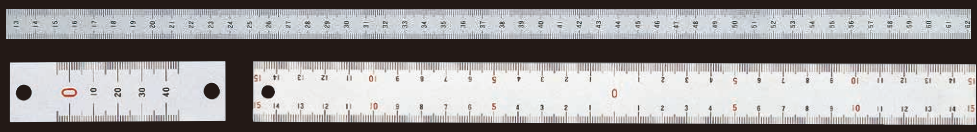
●Stainless Steel Rule 15 cm One Side Graduation

●Stainless Steel Rule 15 cm with Inch Graduation (for export)

| | Manufacturing Range |
|---|---|
| Thickness | 0.5 - 4.0 mm |
| Length | Hard Chrome Finish 3,000 mm<br>Polish Finish 6,000 mm<br>*Up to 2,000 mm length for items with less than 1.0 mm thickness |
| Width | 10 mm - 100 mm |

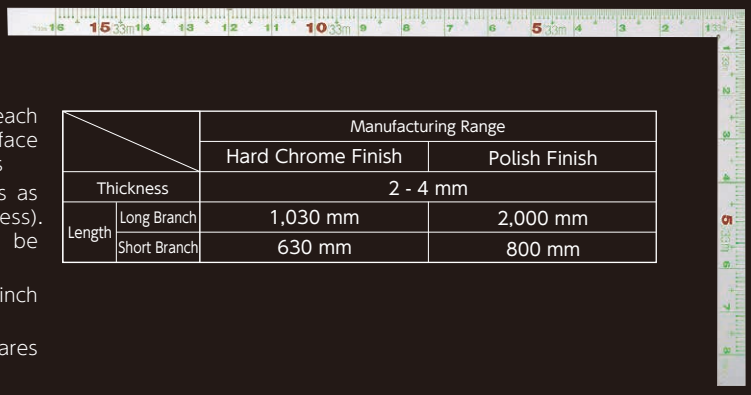
●Special Vertical Graduation

●Other Stainless Steel Rules　Special Scales



## Custom-made Carpenter's Squares

◎Production Examples



●Thick Wide Shaku 6 Graduation　Fluorescence

■We also create fluorescent graduations on each carpenter's square model. However, surface processing is only for hard chrome finish models
■We produce custom-made carpenter's squares as well with your size request (length, thickness). Because the manufacturing range has to be considered, please contact us for details.
■Left-handed model, slope carpenter's square, inch graduation model for export are also available
■Custom-made items of large carpenter's squares are also available

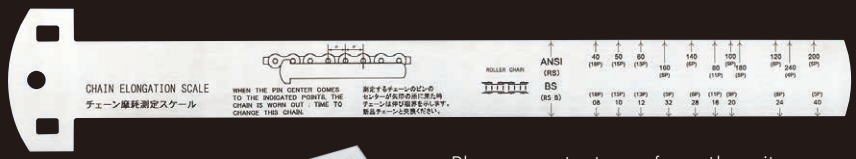
| | | Manufacturing Range | |
|---|---|---|---|
| | | Hard Chrome Finish | Polish Finish |
| Thickness | | 2 - 4 mm | |
| Length | Long Branch | 1,030 mm | 2,000 mm |
| | Short Branch | 630 mm | 800 mm |

## Other Custom-made Items

◎Production Examples

●Camera Scale

●Chain friction measuring scale




●Special scale L-shape type

Please contact us for other items, such as artifact measuring gauges, custom-made protractors, main scale of height gauges, computer scales, etc. The graduation printing can be done by an etching treatment or screen printing. Screen printing can be applied to any materials other than stainless steel such as aluminum.

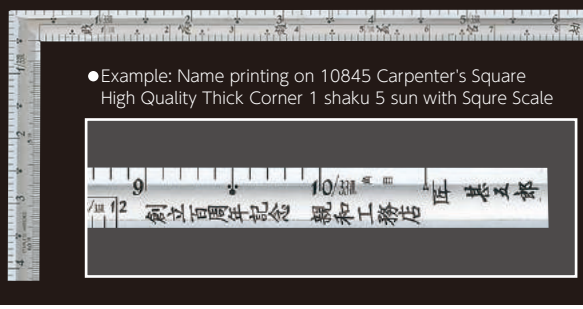
■Inch graduation models can not be manufactured or sold for the domestic market, which manufactures based on the metric system. Items for export will be made based on applicable graduations for each destination.
<Note>　Forms and molds of custom-made items will be discarded after three years from the last order.

# ■Name Printing

## Perfect for business gifts or personal gifts

Types of name printing Etching Treatment Silkscreen Printing Sticker

## Carpenter's Square Etching Treatment



●Example: Name printing on 10845 Carpenter's Square
High Quality Thick Corner 1 shaku 5 sun with Squre Scale

Space for printing name

"TAKUMI JINGOROU" shaku 6 80 × 7 mm

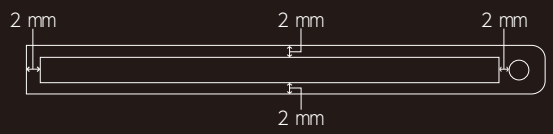
"TAKUMI JINGORO" 50 cm, shaku 5 70 × 7 mm

*Name can be printed to other carpenter's squares besides the ones listed above. Please feel free to contact us.

## Stainless Steel Rule Etching Treatment or Silkscreen Printing

●Example: Name printing on 13005 Hard Chrome Finish 15 cm

Space for printing name




*Name can be printed on sizes from 10 cm up to 1 m as long as it is located 2 mm away from each edge.

## Tape Measure Sticker

●Example: Name printing on 78007 High-touch H-163

High-touch series
Space for printing name
2 m φ36.5 mm
3.5 m φ40 mm

●Example: Name printing on 80880 Smart Gear 19 - 5.5 m

Smart Gear series
Space for printing name
φ32 mm

## Name Printing on Other Products

Specified symbols or marks can be printed on other Shinwa products besides the ones listed above. Please feel free to contact us.

*May not be applicable to some products due to shape and other restrictions

## Individual Paper Box

Tape measure sold separately

| Item Code | Description | Packing Unit | JAN Code |
|---|---|---|---|
| 67983 | 80 × 75 × 45 mm<br>White | 1 | 4 960910 679832 |

<Note> Forms of name printing products will be discarded after two years from the last order.

Parts List
Japan Calibration Service System (JCSS)
Etching
Sheet Heaters
Custom-Made Items
Name Printing
Index Item Code ➡ Description
Index Description ➡ Item Code

## 10000～10999


| Item Code | Description | Page |
|---|---|---|
| 10007 | Carpenter's Square Flat Hard Chrome Finish 15 cm | 15 |
| 10008 | Carpenter's Square Flat Hard Chrome Finish 5 sun | 15 |
| 10011 | Carpenter's Square Thick Corner Hard Chrome Finish 50 cm/1 shaku 5 sun | 8 |
| 10012 | Carpenter's Square Thick Corner Hard Chrome Finish 50 cm/1 shaku 6 sun | 8 |
| 10014 | Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale 50 cm | 8 |
| 10016 | Carpenter's Square Flat Hard Chrome Finish with Square Scale 50 cm | 15 |
| 10027 | Carpenter's Square Thick Corner Hard Chrome Finish 30 cm/1 shaku | 8 |
| 10028 | Carpenter's Square Thick Corner Hard Chrome Finish 1 shaku/30 cm | 8 |
| 10030 | Carpenter's Square Thick Corner Hard Chrome Finish 50 cm | 8 |
| 10032 | Carpenter's Square Flat Hard Chrome Finish 50 cm | 15 |
| 10033 | Carpenter's Square Flat Hard Chrome Finish 50 cm/1 shaku 6 sun | 15 |
| 10034 | Carpenter's Square Wide and Flexible Hard Chrome Finish 50 cm | 17 |
| 10037 | Carpenter's Square Flat Hard Chrome Finish 15 cm/5 sun | 15 |
| 10038 | Carpenter's Square Flat Hard Chrome Finish 5 sun/15 cm | 15 |
| 10044 | Carpenter's Square Flat Hard Chrome Finish 50 cm/1 shaku 5 sun | 15 |
| 10045 | Carpenter's Square Flat Hard Chrome Finish 1 shaku 5 sun/50 cm | 15 |
| 10046 | Carpenter's Square Flat Hard Chrome Finish 1 shaku 6 sun/50 cm | 15 |
| 10047 | Carpenter's Square Flat Hard Chrome Finish 30 cm/1 shaku | 15 |
| 10048 | Carpenter's Square Flat Hard Chrome Finish 1 shaku/30 cm | 15 |
| 10055 | Carpenter's Square Hard Chrome Finish for Two-by-Four 50 cm | 17 |
| 10056 | Carpenter's Square Hard Chrome Finish for Two-by-Four 1 shaku 5 sun | 17 |
| 10175 | Carpenter's Square Hard Chrome Finish with Magnet Flat Corner 50 cm | 18 |
| 10181 | Carpenter's Square Hard Chrome Finish with Magnet Flat Corner 1 shaku 6 sun | 18 |
| 10286 | Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale 30 cm | 8 |
| 10294 | Carpenter's Square Thick Corner Hard Chrome Finish 30 cm | 8 |
| 10297 | Carpenter's Square Flat Hard Chrome Finish 30 cm | 15 |
| 10332 | Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale and Inside Scale 1 shaku 5 sun | 9 |
| 10340 | Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale and Inside Scale 1 shaku 6 sun | 9 |
| 10359 | Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale and Inside Scale 50 cm | 9 |
| 10370 | Carpenter's Square Thick Corner Hard Chrome Finish with Inside Scales 50 cm | 9 |
| 10371 | Carpenter's Square Thick Corner Hard Chrome Finish with Inside Scales and Square Scale 1 shaku 5 sun | 9 |
| 10372 | Carpenter's Square Thick Corner Hard Chrome Finish with Inside Scales and Square Scale 1 shaku 6 sun | 9 |
| 10373 | Carpenter's Square Thick Corner Hard Chrome Finish with Inside Scales and Square Scale 50 cm | 9 |
| 10405 | Carpenter's Square Wide Hard Chrome Finish 50 cm with 6 Scales | 13 |
| 10414 | Carpenter's Square Wide Hard Chrome Finish 50 cm/1 shaku 6 sun with 5 Scales | 13 |
| 10421 | Carpenter's Square Wide Hard Chrome Finish 30 cm with 8 Scales | 13 |
| 10424 | Carpenter's Square Wide Hard Chrome Finish 15 cm with 8 Scales cm Notation | 13 |
| 10425 | Carpenter's Square Hard Chrome Finish with Magnet Wide 30 cm with 8 Scales | 18 |
| 10435 | Carpenter's Square Hard Chrome Finish with Magnet Wide 15 cm with 8 Scales cm Notation | 18 |
| 10445 | Carpenter's Square Hard Chrome Finish with Magnet Wide 50 cm with 6 Scales | 18 |
| 10450 | Carpenter's Square Wide Hard Chrome Finish 50 cm with 8 Scales cm Notation | 13 |
| 10451 | Carpenter's Square Wide Hard Chrome Finish 30 cm with 8 Scales cm Notation | 13 |
| 10456 | Carpenter's Square Wide Hard Chrome Finish 1 shaku 6 sun with 4 Scales | 13 |
| 10464 | Carpenter's Square Wide Hard Chrome Finish 1 shaku with 4 Scales | 13 |
| 10510 | Carpenter's Square Rigid Hard Chrome Finish with Square Scale 30 cm | 18 |
| 10511 | Carpenter's Square Rigid Hard Chrome Finish 30 cm/1 shaku | 18 |
| 10529 | Carpenter's Square Rigid Hard Chrome Finish with Square Scale 1 shaku | 18 |
| 10545 | Carpenter's Square Rigid Hard Chrome Finish 1 shaku | 18 |
| 10553 | Carpenter's Square Thick Corner Hard Chrome Finish 1 shaku 5 sun | 8 |
| 10555 | Carpenter's Square Thick Corner Hard Chrome Finish 1 shaku 5 sun/50 cm | 8 |
| 10556 | Carpenter's Square Thick Corner Hard Chrome Finish 1 shaku 6 sun/50 cm | 8 |
| 10561 | Carpenter's Square Thick Corner Hard Chrome Finish 1 shaku 6 sun | 8 |
| 10588 | Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale 1 shaku 5 sun | 8 |
| 10590 | Carpenter's Square Flat Hard Chrome Finish with Square Scale 1 shaku 5 sun | 15 |
| 10592 | Carpenter's Square Flat Hard Chrome Finish 1 shaku 5 sun | 15 |
| 10595 | Carpenter's Square Flat Hard Chrome Finish 1 shaku 6 sun | 15 |
| 10596 | Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale 1 shaku 6 sun | 8 |
| 10598 | Carpenter's Square Flat Hard Chrome Finish with Square Scale 1 shaku 6 sun | 15 |
| 10600 | Carpenter's Square Wide and Flexible Hard Chrome Finish 1 shaku 6 sun | 17 |
| 10618 | Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale 1 shaku | 8 |
| 10620 | Carpenter's Square Flat Hard Chrome Finish 1 shaku | 15 |
| 10626 | Carpenter's Square Thick Corner Hard Chrome Finish 1 shaku | 8 |
| 10634 | Carpenter's Square Rigid Hard Chrome Finish 30 cm | 18 |
| 10638 | Carpenter's Square Flat Corner Hard Chrome Finish 50 cm/1 shaku 5 sun | 11 |
| 10639 | Carpenter's Square Flat Corner Hard Chrome Finish 50 cm/1 shaku 6 sun | 11 |
| 10640 | Carpenter's Square Flat Corner Hard Chrome Finish 50 cm | 11 |
| 10642 | Carpenter's Square Flat Corner Hard Chrome Finish 30 cm/1 shaku | 11 |
| 10643 | Carpenter's Square Flat Corner Hard Chrome Finish 1 shaku 5 sun | 11 |
| 10644 | Carpenter's Square Flat Corner Hard Chrome Finish 1 shaku 5 sun/50 cm | 11 |
| 10645 | Carpenter's Square Flat Corner Hard Chrome Finish 1 shaku 6 sun/50 cm | 11 |
| 10646 | Carpenter's Square Flat Corner Hard Chrome Finish 1 shaku 6 sun | 11 |
| 10647 | Carpenter's Square Flat Corner Hard Chrome Finish 30 cm | 11 |
| 10648 | Carpenter's Square Flat Corner Hard Chrome Finish 1 shaku | 11 |
| 10649 | Carpenter's Square Flat Corner Hard Chrome Finish 1 shaku/30 cm | 11 |
| 10650 | Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale for Left-hander 1 shaku 5 sun | 9 |
| 10652 | Carpenter's Square Flat Corner Hard Chrome Finish with Square Scale 30 cm | 11 |
| 10653 | Carpenter's Square Flat Corner Hard Chrome Finish with Square Scale 50 cm | 11 |
| 10654 | Carpenter's Square Flat Corner Hard Chrome Finish with Square Scale 1 shaku 5 sun | 11 |
| 10655 | Carpenter's Square Flat Corner Hard Chrome Finish with Square Scale 1 shaku 6 sun | 11 |
| 10657 | Carpenter's Square Flat Corner Hard Chrome Finish with Square Scale 1 shaku | 11 |
| 10669 | Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale for Left-hander 1 shaku 6 sun | 9 |
| 10677 | Carpenter's Square Thick Corner Hard Chrome Finish with Square Scale for Left-hander 50 cm | 9 |
| 10758 | Carpenter's Square Thick Corner Black Color with Square Scale 1 shaku 5 sun | 10 |
| 10837 | Carpenter's Square High Quality Thin Corner Hard Chrome Finish with Square Scale 50 cm | 13 |
| 10839 | Carpenter's Square High Quality Thick Corner Hard Chrome Finish with Square Scale 50 cm | 12 |
| 10845 | Carpenter's Square High Quality Thin Corner Hard Chrome Finish with Square Scale 1 shaku 5 sun | 13 |
| 10847 | Carpenter's Square High Quality Thick Corner Hard Chrome Finish with Square Scale 1 shaku 5 sun | 12 |
| 10855 | Carpenter's Square High Quality Thick Corner Hard Chrome Finish with Square Scale 1 shaku 6 sun | 12 |
| 10860 | Carpenter's Square High Quality Thin Corner Hard Chrome Finish with Square Scale 1 shaku 6 sun | 13 |
| 10871 | Carpenter's Square Thick Corner Black Color with Square Scale 50 cm | 10 |
| 10876 | Carpenter's Square High Quality Thick Corner Hard Chrome Finish with Square Scale 50 cm Flexible | 12 |
| 10877 | Carpenter's Square High Quality Thick Corner Hard Chrome Finish with Square Scale 1 shaku 5 sun Flexible | 12 |
| 10878 | Carpenter's Square High Quality Thick Corner Hard Chrome Finish with Square Scal 1 shaku 6 sun Flexible | 12 |


## 11000～11999


| Item Code | Description | Page |
|---|---|---|
| 11002 | Carpenter's Square Thick Corner Polish Finish with Square Scale 50 cm | 10 |
| 11010 | Carpenter's Square Thick Corner Polish Finish 50 cm | 10 |
| 11100 | Carpenter's Square Flat Corner White 30 cm | 12 |
| 11101 | Carpenter's Square Flat Corner White 50 cm | 12 |
| 11102 | Carpenter's Square Flat Corner White 1 shaku | 12 |
| 11103 | Carpenter's Square Flat Corner White 1 shaku 6 sun | 12 |
| 11104 | Carpenter's Square Flat Corner White 30 cm/1 shaku | 12 |
| 11105 | Carpenter's Square Flat Corner White 1 shaku/30 cm | 12 |
| 11106 | Carpenter's Square Flat Corner White 50 cm/1 shaku 6 sun | 12 |
| 11107 | Carpenter's Square Flat Corner White 1 shaku 6 sun/50 cm | 12 |

| | | |
|---|---|---|
| 11108 | Carpenter's Square Flat Corner White 1 shaku 5 sun | 12 |
| 11109 | Carpenter's Square Flat Corner White 50 cm/1 shaku 5 sun | 12 |
| 11110 | Carpenter's Square Flat Corner White 1 shaku 5 sun/50 cm | 12 |
| 11160 | Carpenter's Square Wide White 30 cm with 8 Scales | 14 |
| 11161 | Carpenter's Square Wide White 50 cm with 8 Scales | 14 |
| 11170 | Carpenter's Square Flat White 15 cm | 16 |
| 11171 | Carpenter's Square Flat White 30 cm | 16 |
| 11172 | Carpenter's Square Flat White 50 cm | 16 |
| 11173 | Carpenter's Square Flat White 5 sun | 16 |
| 11174 | Carpenter's Square Flat White 1 shaku | 16 |
| 11175 | Carpenter's Square Flat White 1 shaku 5 sun | 16 |
| 11176 | Carpenter's Square Flat White 1 shaku 6 sun | 16 |
| 11177 | Carpenter's Square Flat White 15 cm/5 sun | 16 |
| 11178 | Carpenter's Square Flat White 5 sun/15 cm | 16 |
| 11179 | Carpenter's Square Flat White 30 cm/1 shaku | 16 |
| 11180 | Carpenter's Square Flat White 1 shaku/30 cm | 16 |
| 11181 | Carpenter's Square Flat White 50 cm/1 shaku 5 sun | 16 |
| 11182 | Carpenter's Square Flat White 1 shaku 5 sun/50 cm | 16 |
| 11183 | Carpenter's Square Flat White 50 cm/1 shaku 6 sun | 16 |
| 11184 | Carpenter's Square Flat White 1 shaku 6 sun/50 cm | 16 |
| 11207 | Carpenter's Square Wide Polish Finish 50 cm with 6 Scales | 14 |
| 11215 | Carpenter's Square Wide Polish Finish 30 cm with 8 Scales | 14 |
| 11481 | Carpenter's Square Wide Hard Chrome Finish 50 cm with 8 Scales | 13 |
| 11487 | Carpenter's Square Wide Hard Chrome Finish 50 cm with 4 Scales | 13 |
| 11754 | Carpenter's Square Thick Corner Polish Finish Fluorescent with Square Scale 1 shaku 5 sun | 10 |
| 11762 | Carpenter's Square Thick Corner Polish Finish Fluorescent with Square Scale 1 shaku 6 sun | 10 |
| 11770 | Carpenter's Square Thick Corner Polish Finish Fluorescent with Square Scale 50 cm | 10 |
| 11777 | Carpenter's Square Thick Corner Polish Finish Fluorescent 50 cm | 10 |


## 12000～12999


| Item Code | Description | Page |
|---|---|---|
| 12017 | Small Square Grooved Polish Finish with Square Scale 30 x 15 cm | 19 |
| 12101 | Small Square Polish Finish 10 x 5 cm | 19 |
| 12102 | Small Square Polish Finish 3 x 1.5 sun | 19 |
| 12103 | Small Square Polish Finish 15 x 7.5 cm | 19 |
| 12104 | Small Square Polish Finish 5 x 2.5 sun | 19 |
| 12114 | Small Square Flat Polish Finish with Square Scale 30 x 15 cm | 19 |
| 12130 | Small Square Grooved Polish Finish 30 x 15 cm | 19 |
| 12325 | Small Square Flat Polish Finish 30 x 15 cm | 19 |
| 12416 | Small Square Black with Square Scale 30 x 15 cm | 19 |
| 12427 | Carpenter's Square Holder with Magnet | 20 |
| 12435 | Small Square Black 30 x 15 cm | 19 |
| 12476 | Small Square White with Square Scale 30 x 15 cm | 19 |


## 13000～13999


| Item Code | Description | Page |
|---|---|---|
| 13005 | Stainless Steel Rule Hard Chrome Finish 15 cm | 30 |
| 13013 | Stainless Steel Rule Hard Chrome Finish 30 cm | 30 |
| 13021 | Stainless Steel Rule Hard Chrome Finish 60 cm | 30 |
| 13048 | Stainless Steel Rule Hard Chrome Finish 1 m | 30 |
| 13056 | Stainless Steel Rule Hard Chrome Finish 1.5 m | 30 |
| 13064 | Stainless Steel Rule Hard Chrome Finish 2 m | 30 |
| 13072 | Stainless Steel Rule Hard Chrome Finish 3 m | 30 |
| 13128 | Stainless Pickup Rule Hard Chrome Finish 10 cm | 30 |
| 13131 | Stainless Pickup Rule Hard Chrome Finish 15 cm | 30 |
| 13134 | Stainless Pickup Rule Hard Chrome Finish 30 cm | 30 |
| 13137 | Stainless Pickup Rule Hard Chrome Finish 60 cm | 30 |
| 13140 | Stainless Pickup Rule Hard Chrome Finish 1 m | 30 |
| 13202 | Stainless Steel Rule Hard Chrome Finish Metric/Shaku 15 cm Double-left Reference Point | 31 |
| 13203 | Stainless Steel Rule Hard Chrome Finish Metric/Shaku 30 cm Double-left Reference Point | 31 |
| 13204 | Stainless Steel Rule Hard Chrome Finish Metric/Shaku 60 cm Double-left Reference Point | 31 |
| 13205 | Stainless Steel Rule Hard Chrome Finish Metric/Shaku 1 m Double-left Reference Point | 31 |
| 13210 | Stainless Steel Rule Hard Chrome Finish Metric/Shaku 1 m Right Reference Point | 31 |
| 13242 | Stainless Steel Rule Mini Hard Chrome Finish 15 cm | 33 |
| 13250 | Flexible Stainless Steel Rule Hard Chrome Finish 30 cm | 31 |
| 13269 | Flexible Stainless Steel Rule Hard Chrome Finish 60 cm | 31 |
| 13277 | Flexible Stainless Steel Rule Hard Chrome Finish 1 m | 31 |
| 13285 | Flexible Stainless Steel Rule Hard Chrome Finish 1.5 m | 31 |
| 13293 | Flexible Stainless Steel Rule Hard Chrome Finish 2 m | 31 |
| 13404 | Stainless Steel Rule Hard Chrome Finish 1 mm Dividing 15 cm | 32 |
| 13412 | Stainless Steel Rule Hard Chrome Finish 1 mm Dividing 60 cm | 32 |
| 13463 | Stainless Steel Rule Hard Chrome Finish 1 mm Dividing 30 cm | 32 |
| 13498 | Stainless Steel Rule Hard Chrome Finish 1 mm Dividing 1 m | 32 |
| 13501 | Stainless Steel Rule Hard Chrome Finish with Magnet 15 cm | 31 |
| 13528 | Stainless Steel Rule Hard Chrome Finish with Magnet 30 cm | 31 |
| 13536 | Stainless Steel Rule Hard Chrome Finish with Magnet 60 cm | 31 |
| 13544 | Stainless Steel Rule Hard Chrome Finish with Magnet 1 m | 31 |


## 14000～14999


| Item Code | Description | Page |
|---|---|---|
| 14001 | Stainless Steel Rule Polish Finish 15 cm | 30 |
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