

AMP

**U-300 Frame
Joining Capabilities**
(Formerly Model Minigraf 3)

Moulding Width

(min to max)
1/4" to 2 3/8"
(6 to 60mm)

Moulding Height

(min to max)
1/4" to 3 1/4"
(6 to 80mm)

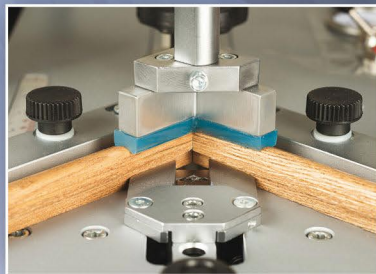
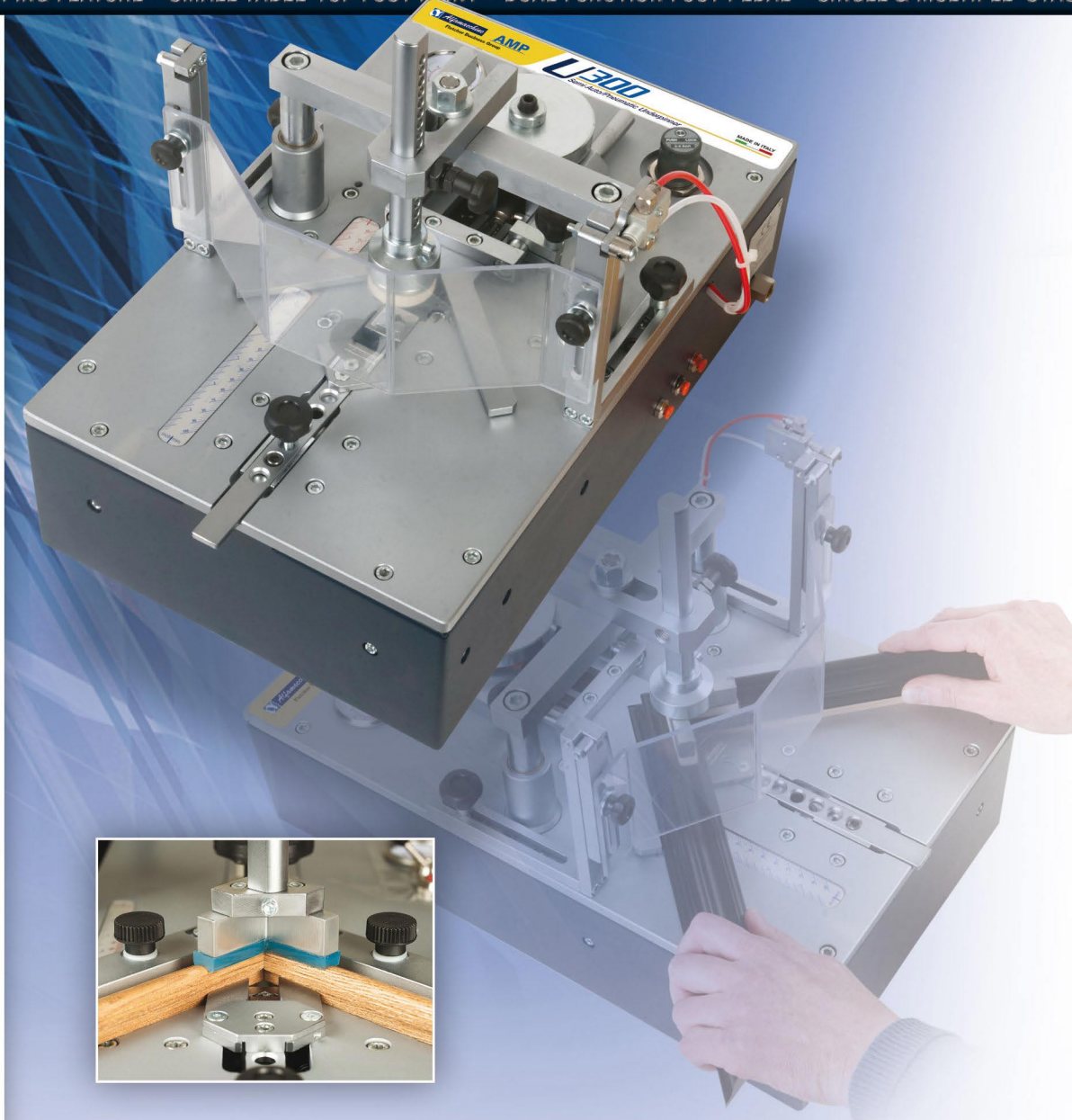
**Max Distance
Between V-Nails
(Stroke)**

3 1/4"
(80mm)

**Pre-set V-Nail
Position Stops**
Multiple

V-Nail Sizes
3, 5, 7, 10, 12, 15mm
(SW-HW-HDF)

**V-Nail
Channel Capacity**
220 V-Nails



U-300 Semi-Auto/Pneumatic Underpinner

Our U-300 is a bench top frame joining machine and the most popular model with the custom frame shops. It is compact, well constructed and built for many years of trouble free operation. The design of the U-300 allows the framer to set the front and back stops for V-Nail insertion. The frame is then moved across the nail head and V-Nails are driven or stacked anywhere along the frame joint. The V-Nail insertion is actuated through the use of a pneumatic pedal.



PNEUMATICALLY OPERATED • SOFT CLAMPING FEATURE • SMALL TABLE-TOP FOOT PRINT • DUAL FUNCTION FOOT PEDAL • SINGLE & MULTIPLE ST

Frame Joining Capabilities:	Moulding Width (min to max)	Moulding Height (min to max)	Max Distance Between V-Nails (Stroke)	Pre-set V-Nail Position Stops	V-Nail Sizes	V-Nail Channel Capacity
	1/4" to 2 3/8" (6 to 60mm)	1/4" to 3 1/4" (6 to 80mm)	3 1/4" (80mm)	Multiple	3, 5, 7, 10, 12, 15mm (SW-HW-HDF)	220 V-Nails

Clamping Pad System



Positive Placement Vertical Clamping

- Improves clamping by incorporating pre-drilled positioning adjustments
- Spring loaded pull pin locking mechanism eliminates slippage, wear on vertical rod and allows quick adjustments



Easy Field Replacement

Enables a quick change to a different clamping pad depending on joining applications



Clamping Pads

- All clamping pads are interchangeable with magnetic, single and double metal pressure plates
- Three different pads are available based on moulding hardness, contour, finishes or coatings

U-300 Unique Performance Features

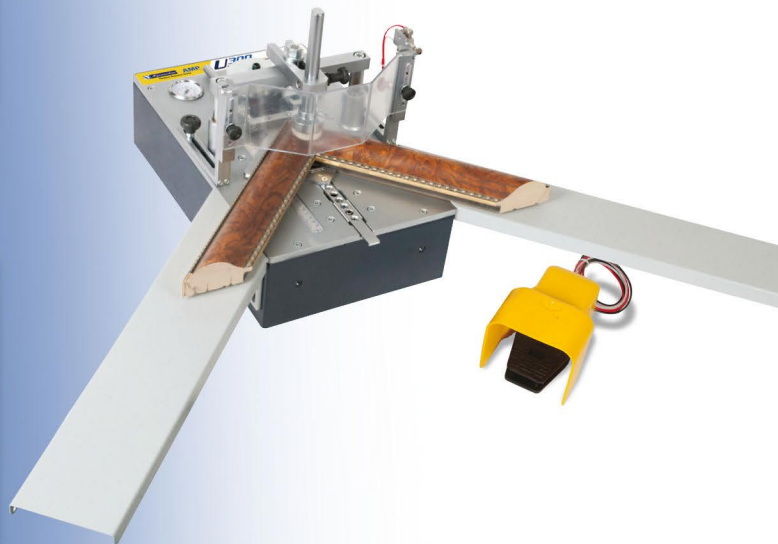
- Features pneumatic loader to eliminate nail jams
- "Soft Clamping" pneumatic feature for damage free joints
- Quick-change magnetic pad hold down feature fitting most moulding profiles
- Small table-top foot print needed – 305mm (12") wide x 483mm (19") length x 356mm (14") high
- Operates only with pneumatic air, no electrical hook-up needed
- Dual function foot pedal for separate control of mould clamping and V-Nail insertion
- Designed with a unique trouble free piston V-Nail driver block-blade system for years of dependable single and multi-stacking operations
- CE Compliant

Machine Dimensions & Weight

Length: 19" (485mm)
Width: 11 3/4" (300mm)
Height: 18" (456mm)
Weight: 70 lbs. (32 kg.)

Compressed Air Requirements

3NI at 5 Bar



Part No Information

Part # 04-001

U-300 Underpinner
Semi-Auto/Pneumatic
(Formerly Model Minigraf 3)

U-300 Purchase Package

- (1) 7mm Nail Head
- (1) 10mm Nail Head
- (1) 12mm Nail Head
- (1) Fixed Fence 90°
- (1) Single Vertical Positive Placement Clamp
- (1) Magnetic Base for Clamp Assembly
- (1) Single Metal pressure plate
- (1) Blue Rubber Pad (SW)
- (1) Yellow Rubber Pad (MW)
- (1) Black Rubber Pad (HW)
- (1) Round Pressure pad - Felt
- (1) Front Horizontal Clamp
- (1) 4mm Allen wrench
- (1) 5mm Allen wrench
- (1) Machine Manual w/warranty card

Accessories & Replacement Items

- 04-032 Extension Wings Kit
- 04-167 Magnetic Base for Clamp Assembly
- 41-221 Single Vertical Positive Placement Clamp
- 04-047 Floor Stand Option
- 04-020 Single Metal Pressure Plate
- 04-023 Magnetic – Single Metal Pressure Plate
- 04-026 Blue Replacement Rubber Pad (recommended for SW)
- 04-025 Yellow Replacement Rubber Pad (recommended for MW)
- 04-024 Black Replacement Rubber Pad (recommended for HW)
- 41-157 Adjustable Fence (2 Knobs)
- 41-333 Fixed Fence - 120°
- 41-334 Fixed Fence - 135°
- 04-090 Nail Head – 3mm
- 04-095 Nail Head – 5mm
- 04-091 Nail Head – 7mm
- 04-092 Nail Head – 10mm
- 04-093 Nail Head – 12mm
- 04-094 Nail Head – 15mm

AMP "Power Twist®" pulling power V-Nails are designed to improve the mitre joint quality for framed art or woodworking type assemblies. Available in 3, 5, 7, 10, 12, and 15 mm sizes. Offered in convenient packages for the custom framers or large volume production package for use with softwood, hardwood, MDF and plastic framing materials.

