

PRODUCTION JOINING • SPEED • REPEATABILITY • SOFT CLAMPING • PRODUCTION JOINING SPEED • REPEATABILITY • SOFT CLAMPING



## U-300P Frame Joining Capabilities (Formerly Model M4)

**Moulding Width**  
(min to max)  
6 to 80mm  
(¼" up to 3 1/4")

**Moulding Height**  
(min to max)  
6 to 80mm  
(¼" up to 3 1/4")

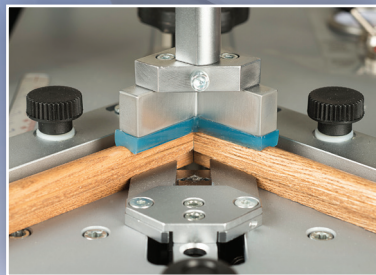
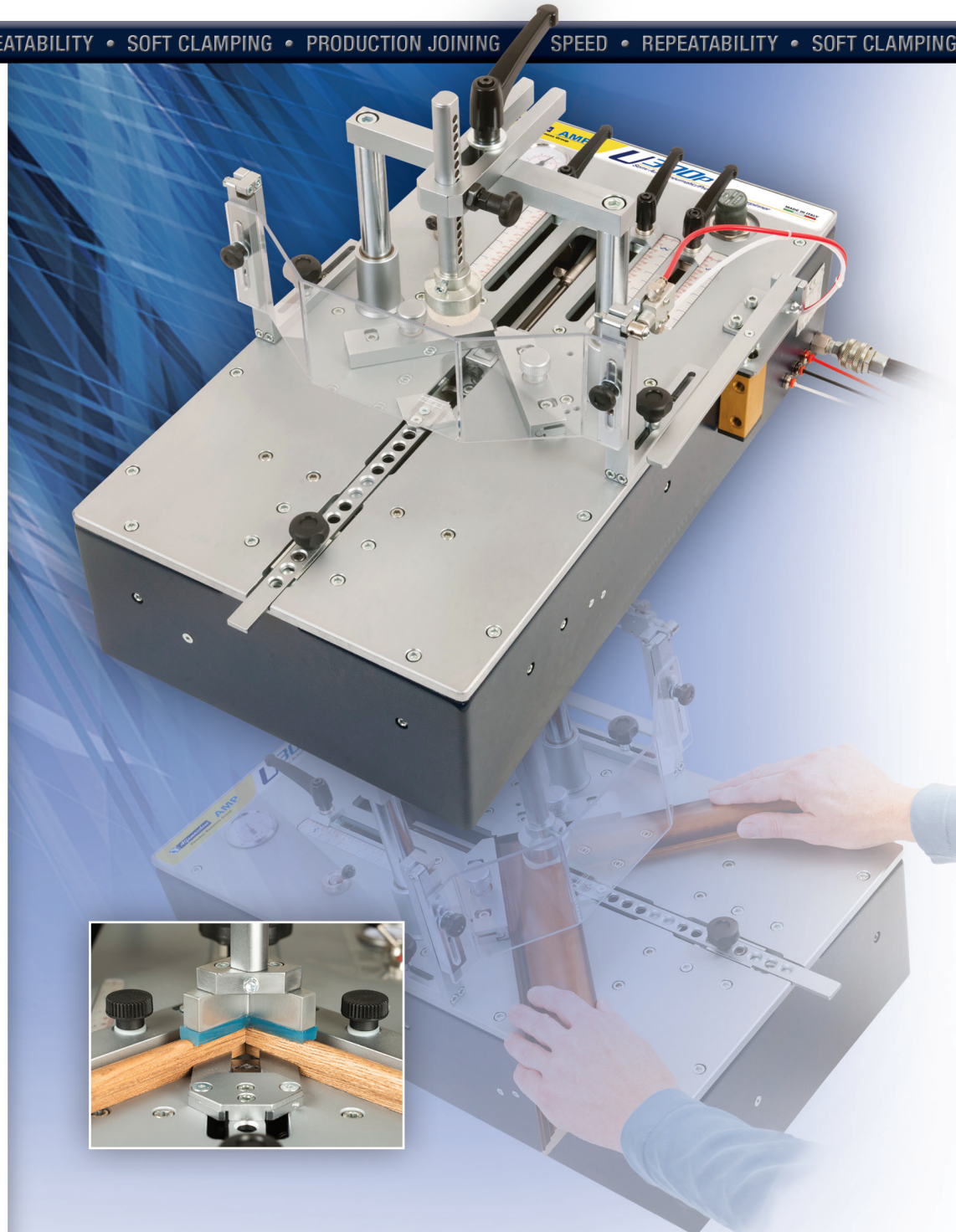
**Max Distance  
Between V-Nails  
(Stroke)**  
125mm (5")

**Pre-set V-Nail  
Position Stops**  
3

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

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

**MADE IN ITALY**



## U-300P Semi-Auto/Pneumatic/Production Underpinner

The U-300P is a bench top, base model for production joining applications where the customer is looking for speed and repeatability of joining the same sized moulding.

The design of the U-300P allows the operator to set up to 3 position stops for V-Nail insertion. The Nail Head pneumatically moves underneath the fixed frame and the joining cycle is actuated first by the hand lever locating the pre-set V-Nail position and then the V-Nail is inserted by actuating the foot pedal.

For those customers looking for a similar type of joining machinery but require flexibility of joining different moulding sizes, refer to our U-300 unit.



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 (SW-HW-HDF)	V-Nail Channel Capacity
	6 to 80mm (¼" to 3 1/4")	6 to 80mm (¼" to 3 1/4")	125mm (5")	3	3, 5, 7, 10, 12, 15mm	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-300P Unique Performance Features

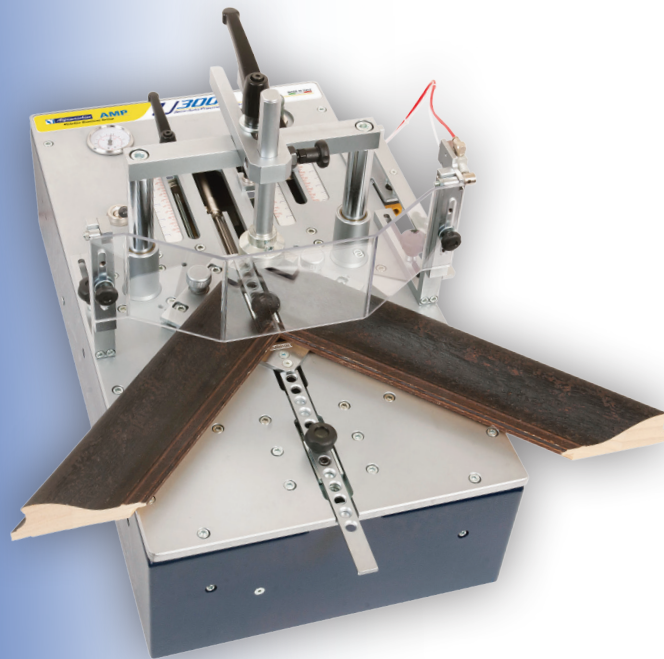
- Features pneumatic loader to eliminate nail jams
- "Soft Clamping" pneumatic feature for damage free joints
- Quick-change magnetic pad hold down feature fitting most moulding profiles
- Operates only with pneumatic air, no electrical hook-up needed
- Dual actuation functions for V-Nail position and pre-set V-Nail insertion
- Designed with a unique trouble free piston V-Nail driver block-blade – up to 1 million cycles
- CE Compliant

### Machine Dimensions & Weight

Width: 350mm (14")  
Length: 640mm (25")  
Height: 500mm (20")  
Weight: 36kg. (79lbs.)

### Power Requirements

Compressed Air 3NI at 5 Bar



## Part No Information

### International Market Part # 178660007CE

U-300P Underpinner  
Semi-Auto/Pneumatic/ Production Underpinner  
(Formerly Model M4)

### U-300P Purchase Package

- (1) 7mm Nail Head
- (1) 10mm Nail Head
- (1) 12mm Nail Head
- (1) Single Vertical Positive Placement Clamp
- (1) Single Metal pressure plate
- (1) Magnetic Base for Clamp Assembly
- (1) Blue Rubber Pad (SW)
- (1) Yellow Rubber Pad (MW)
- (1) Black Rubber Pad (HW)
- (1) Front Horizontal Clamp
- (1) Round Pressure pad - Felt
- (1) 4mm Allen Wrench
- (1) 5mm Allen Wrench
- (1) Adjustable Fence (3 knobs)
- (1) Machine Manual w/warranty card

### Accessories & Replacement Items

- 291650010 Extension Wings Kit
- 244120130 Magnetic Base for Clamp Assembly
- 240450041 Floor Stand Option
- 242230300 Single Metal Pressure Plate
- 397100005 Magnetic – Single Metal Pressure Plate
- 242230320 Double Metal Pressure Plate
- 397100003 Blue Replacement Rubber Pad (recommended for SW)
- 397100002 Yellow Replacement Rubber Pad (recommended for MW)
- 397100001 Black Replacement Rubber Pad (recommended for HW)
- 243160030 Adjustable Fence (3 knobs)
- 243140020 Fixed Fence 90° Raise H10
- 298390380 Single Vertical Positive Placement Clamp
- 242230271 Double Hydraulic Clamping Mechanism
- 394950010 Nail Head – 3mm
- 394950060 Nail Head – 5mm
- 394950020 Nail Head – 7mm
- 394950030 Nail Head – 10mm
- 394950040 Nail Head – 12mm
- 394950050 Nail Head – 15mm



Alfamacchine "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.

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