

Alfamacchine

**U-400 Frame
Joining Capabilities**
(Formerly Model M144)

Moulding Width
(min to max)
6 to 140mm
(¼" to 5 1/2")

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

**Max Distance
Between V-Nails
(Stroke)**
200mm (7 7/8")

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

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

**V-Nail
Channel Capacity**
200 V-Nails/channel

MADE IN ITALY



U-400 Semi-Auto/Pneumatic Underpinner

The U-400 has been designed for ease of operation and is particularly well suited for joining large frames up to 140mm (5 ½") in width.

Supplied with a tilting floor stand, the machine can be operated from the front or back, and has a single stage pneumatic foot pedal that activates the Horizontal Clamp securing moulding during the joining process.

After the operator sets the two position stops for measuring the max distance between strokes, a dual function hand lever is then used to position and actuate both the Vertical Holding Clamp and the V-Nail Driver Assembly inserting V-Nails anywhere along the pre-set stroke distance.



A key operating feature for the U-400 allows the operator to quickly change V-Nail mm size using an interchangeable metal magazine channel. Operator easily accesses the interchangeable channel through the rear of the machine for loading appropriate V-Nail size. This feature eliminates the added purchased cost of plastic nail cartridges.

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

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
	6 to 140mm (¼" to 5 1/2")	6 to 80mm (¼" to 3 1/4")	200mm (7 7/8")	Multiple	5, 7, 10, 12, 15mm (SW-HW-HDF)	200 V-Nails/channels

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 and single metal pressure plates
- Three different pads are available based on moulding hardness, contour, finishes or coatings



U-400 Unique Performance Features

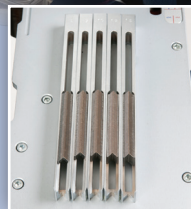
- Handles up to 140mm wide moulding – Unique competitive advantage over other industry frame joiners
- Designed with “interchangeable channel magazines” allowing operator to quickly change V-Nail sizes
- Operator controlled arm for left or right operations – allows framer to accurately position the Nail Head for inserting or stacking V-Nails anywhere along the frame joint
- Uses both a vertical and horizontal clamping method
- Adjustable working table height for operator comfort
- Easy table tilt adjustment
- Join either from back or front of machine
- CE Compliant

Machine Dimensions & Weight

Length: 600mm (23 3/4")
Width: 640mm (25 1/4")
Height: 1350mm (53")
Weight: 90 kg (198 lbs)

Power Requirements

Compressed Air 3NI at 5 Bar



Interchangeable magazines



Easy rear access

Part No Information

Part # 178690012CE

U-400 Underpinner
Semi-Auto/Pneumatic
(Formerly Model M144)

U-400 Purchase Package

- (1) “Multi-Sized” Nail Head
- (1) 7mm Channel Magazine
- (1) 10mm Channel Magazine
- (1) 12mm Channel Magazine
- (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) Adjustable Fence (2 Knobs)
- (1) Round Pressure pad - Felt
- (1) Front Horizontal Clamp
- (1) 4mm Allen Wrench
- (1) 5mm Allen Wrench
- (1) 6mm Allen Wrench
- (4) Machine base levelers
- (1) Floor Stand
- (1) Machine Manual w/warranty card

Accessories & Replacement Items

- M22000001 Extension Wings Kit
- 244120130 Magnetic Base for Clamp Assembly
- 242230300 Single Metal Pressure Plate
- 397100005 Magnetic – Single 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)
- 298390380 Single Vertical Positive Placement Clamp
- M30100059 Channel Magazine – 5mm
- M30100058 Channel Magazine – 7mm
- M30100057 Channel Magazine – 10mm
- M30100056 Channel Magazine – 12mm
- M30100055 Channel Magazine – 15mm
- 394950570 Multi-Sized Nail Head
- M29100004 Adjustable Fence (2 Knobs)

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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