

Alfamacchine

**U-500 Frame
Joining Capabilities**
(Formerly Model
M4 Memory Program)

Moulding Width
(min to max)
6 to 105mm
(1/4" to 4 1/2")

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

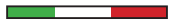
**Max Distance
Between V-Nails
(Stroke)**
145mm (5 3/4")

**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

MADE IN ITALY



U-500 Memory Programmed/Single Channel Underpinner Framing Machine

Our U-500 is recommended for high volume production facilities that require the primary use of a single sized V-Nail for joining picture, doors and window frames. The U-500 has the same user-friendly, touch screen interface as our U-600 Underpinner, only difference being the U-500 has single V-Nail channel compared to a multi-channel capacity with the U-600 unit.

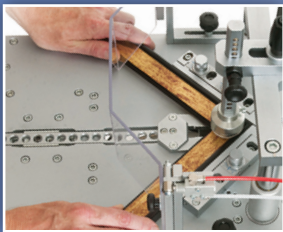
With data storage of 5,000 different frame profiles, the operator can easily recall any frame profile either alphabetically, numerically or scanned using the bar code reading option.

Alfamacchine's U-500 Computerized Air Pressure System (C.A.P.S.), is the latest operating feature for frame joining, eliminating the need to making manual air pressure adjustments for the Vertical Clamping Mechanism. The software includes the functionality of applying a soft vertical clamping motion reducing moulding damage with soft materials or delicate finishes.

• 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 105mm (¼" to 4 1/2")	6 to 80mm (¼" to 3 1/4")	145mm (5 3/4")	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-500 Unique Performance Features

- Speed and repeatability for production requirements
- User friendly touch-screen P.C. operation with data storage for 5,000 frame profiles
- Integrates Bar Code Scanner option for production efficiency
- Features a three knob adjustment fence for compensating moulding cuts
- Join either from front or back of machine
- Easy table tilt adjustment
- Machine handles all types of wood, plastics and MDF materials
- CE Compliant

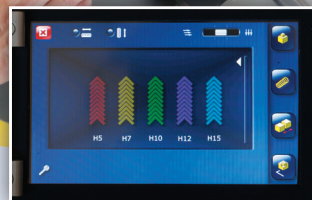
Machine Dimensions & Weight

Length: 680mm (27")
Width: 800mm (31 1/2")
Height: 1310mm (51 1/2")
Weight: 140kg (309lbs)

Power Requirements

115/220 Volt 50/60 Hz.
Compressed Air 4NI at 5 Bar

Easy adjustable table tilt angle based on operator comfort



Touch Screen P.C. Memory Programming - stores up to 5,000 frame profiles

Part No Information

Part # 178610004CE

U-500 Underpinner
Memory Programmed Single-Channel
(Formerly Model M4 Memory Program)

U-500 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) Double Metal Pressure Plate
- (2) Blue Rubber Pads (SW)
- (2) Yellow Rubber Pads (MW)
- (2) Black Rubber Pads (HW)
- (1) CAPS Operating Software
- (1) 3 Stage Air Pressure Filter Regulator
- (1) Adjustable Fence (3 knobs)
- (1) Front Horizontal Clamp
- (1) 4mm Allen wrench
- (1) 5mm Allen wrench
- (1) 6mm Allen wrench
- (1) 8mm Allen wrench
- (1) Touch screen PC Panel
- (4) Machine base levelers
- (1) Floor Stand
- (1) Machine Manual w/warranty card

Accessories & Replacement Items

- 291650010 Extension Wings Kit
- 244120130 Magnetic Base for Clamp Assembly
- 242230300 Single Metal Pressure Plate
- 242230320 Double 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)
- 805500002 Barcode Scanner
- 298390380 Single Vertical Positive Placement Clamp
- 243140020 Fixed Fence 90° Raise H10
- 242230092 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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