

AMP

U-500 Frame Joining Capabilities Single-Level

(Formerly Single-Level
Model VN4MP)

Moulding Width

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

Moulding Height

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

Max Height on Stroke Length

3/4" for
Multi-Level Machine

Max Distance Between V-Nails (Stroke)

5 3/4"
(145mm)

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



Multi-Level
moulding showing V-Nail insertion

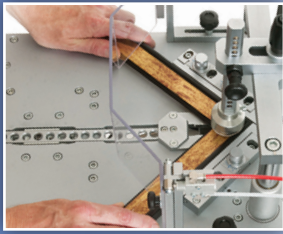


U-500 Single Channel Underpinner – Single and Multi-Level Joining

AMP's U-500 is recommended for high-volume production facilities that require the primary use of a single sized V-Nail for frame joining. The U-500 has the same user-friendly touch screen interface as our U-600 Underpinner. The only difference between the two models is the U-500 has single channel compared to a multi-channel capacity with the U-600 unit.

- The U-500 has the capability of joining single level or multi-level frames depending on the joining requirement. The maximum stroke height for multi-level joining is 3/4".
- The unit's standard software package controls all the settings and parameters for joining in a single or multi-level performance mode.
- The U-500 has the capability of joining 45 and 90 degree angles.
- Machine handles frame joining requirements commonly found in picture framing, woodworking (Door Trim), canvas stretcher bar, modular home and mirror frame joining.

Clamping Pad System



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



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



- 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
- Equipped with a Vertical Double Hydraulic Pressure Clamp for superior clamping
- Features a three knob adjustment fence for compensating moulding cuts
- Join from front or back of machine
- Machine handles all types of wood, plastics and MDF materials
- CE Compliant

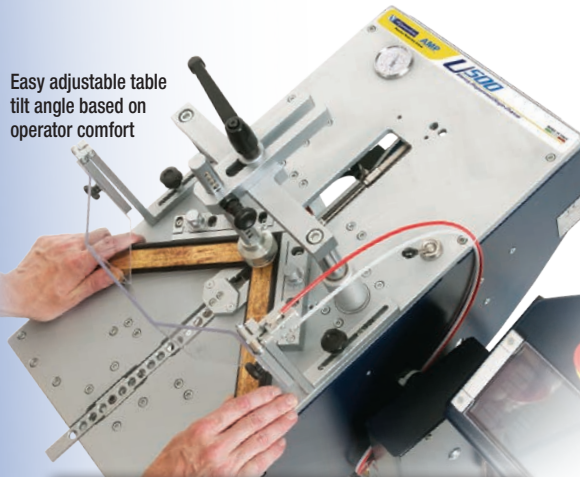
Machine Dimensions & Weight

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

Power Requirements

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

Easy adjustable table tilt angle based on operator comfort



Butt Joint Assembly - Double Hydraulic Clamp used for trim material clamping during V-Nail insertion step

Part No Information

Part # 04-006

U-500 Underpinner
Memory Programmed Single-Level
(Formerly Model VN4MP)

Part # 04-016

U-500 Underpinner
Memory Programmed Multi-Level

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) 4, 5, 6, 8mm Allen wrenches
- (1) Touch screen PC Panel
- (4) Machine base levelers
- (1) Floor Stand
- (1) Machine Manual w/warranty card
- (1) Fence Template 4-6-8 Side

Single and Multi-Level Accessories & Replacement Items

- 04-032 Extension Wings Kit
- 04-167 Magnetic Base for Clamp Assembly
- 04-020 Single Metal Pressure Plate
- 04-022 Double 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)
- 04-072 Barcode Scanner
- 41-221 Single Vertical Positive Placement Clamp
- 41-151 Double Hydraulic Clamping Mechanism
- 04-090 Single -Level Nail Head - 3mm
- 04-095 Single -Level Nail Head - 5mm
- 04-091 Single -Level Nail Head - 7mm
- 04-092 Single -Level Nail Head - 10mm
- 04-093 Single -Level Nail Head - 12mm
- 04-094 Single -Level Nail Head - 15mm

- 394950130 Multi -Level Nail Head - 5mm
- 394950190 Multi -Level Nail Head - 7mm
- 394950100 Multi -Level Nail Head - 10mm
- 394950110 Multi -Level Nail Head - 12mm
- 394950120 Multi -Level 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.



Fletcher Business Group