

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

## AMP

### U-400 Frame Joining Capabilities (Formerly Model VN144S)

**Moulding Width**  
(min to max)  
1/4" to 5 1/2"  
(6 to 140mm)

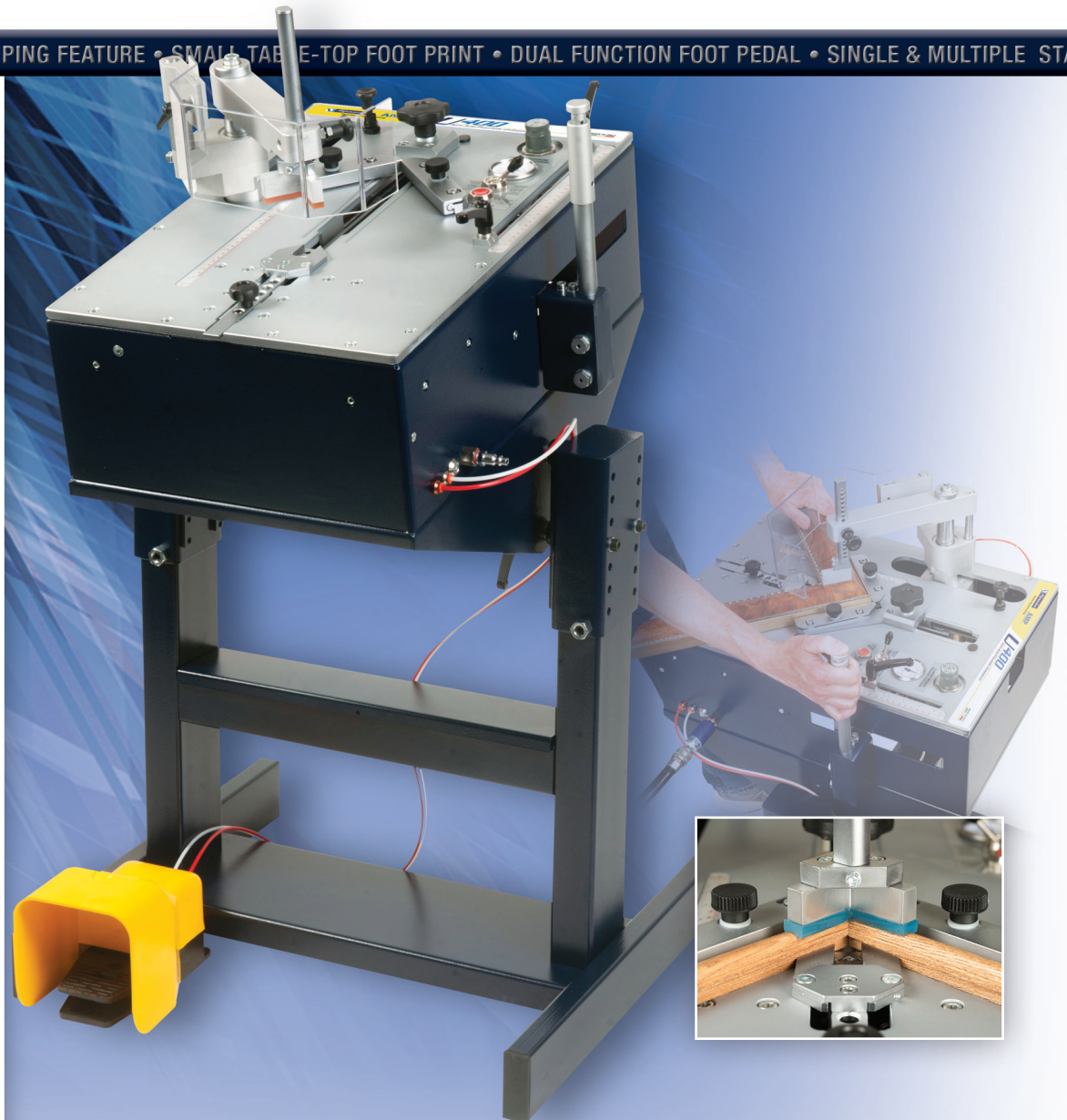
**Moulding Height**  
(min to max)  
1/4" to 3 1/4"  
(6 to 80mm)

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

**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



## 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 5 1/2" (140mm) 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.



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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
	¼" to 5 1/2" (6 to 140mm)	¼" to 3 1/4" (6 to 80mm)	7 7/8" (200mm)	Multiple	5, 7, 10, 12, 15mm	200 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



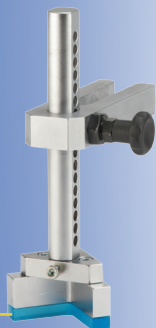
### Easy Field Replacement

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



### Clamping Pads

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



## U-400 Unique Performance Features

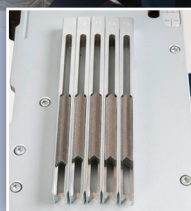
- Handles up to 5 ½" wide moulding – Unique competitive advantage over other industry frame joiners
- Designed with “interchangeable channel magazines” allowing operator to quickly change V-Nail sizes
- Operator controlled arm for left or right operations – allows framer to accurately position the Nail 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: 23 ¾" (600mm)  
 Width: 15 ¼" (400mm)  
 Height: 53" (1350mm)  
 Weight: 198 lbs (90kg)

### Power Requirements

Compressed Air 3NI at 5 Bar



Interchangeable magazines



Easy rear access

## Part No Information

### Part # 04-002

U-400 Underpinner  
 Semi-Auto/Pneumatic  
 (Formerly Model VN144S)

### 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
- (1) Fence Template 4-6-8 Side

### Accessories & Replacement Items

- 04-037 Extension Wings Kit
- 04-167 Magnetic Base for Clamp Assembly
- 04-020 Single Metal Pressure Plate
- 04-023 Magnetic – Single Metal Pressure Plate
- 41-221 Single Vertical Positive Placement Clamp
- 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)
- 04-043 Channel Magazine – 5mm
- 04-042 Channel Magazine – 7mm
- 04-041 Channel Magazine – 10mm
- 04-040 Channel Magazine – 12mm
- 04-039 Channel Magazine – 15mm
- 04-069 Multi-Sized Nail Head

AMP “Power Twist<sup>®</sup>” 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.



For OEM inquiries contact our  
 OEM Framing Group at 847.821.2170

## Fletcher Business Group