

## Match your joining requirements with this U-Series selection guide

**U200**  
Manual Underpinner



**7009**

**Manual, Free Standing**

Ideal for Retail Framing Shops –  
Foot pedal actuated for V-Nail insertion

**Bespoke Framing**

**U300**  
Semi-Auto/Pneumatic Underpinner



**7010**

**Semi-Automatic, Bench-top or Free Standing**

Operation looking for flexibility in joining multiple custom sized frames, pneumatic foot actuated for V-Nail insertion

**Low Production Usage**

**U300P**  
Semi-Auto/Pneumatic/Production Underpinner



**5084**

**Semi-Automatic, Bench-top or Free Standing**

Production joining with speed and repeatability for same sized moulding

**Up to 200 joined frames per hour\***

**U400**  
Semi-Auto/Pneumatic Underpinner



Suited for joining large frames up to 140mm (5 1/2") wide

**Special order**

**U400s**  
Semi-Auto/Pneumatic Underpinner



Suited for joining large frames up to 80mm (3 1/2") wide

**9476**

**Semi-Automatic, Free Standing**

Both machines use a dual hand lever for V-Nail positioning and actuation

**Low Production Usage**

**U500**  
Memory Programmed/Single-Channel



**3839**

**Production Joining**

Joining operations requiring the use of a single sized V-Nail for high production output – memory programmed for frame profile recall

**Up to 300 joined frames per hour\***

**U600**  
Memory Programmed/Multi-Channel



**5827**

**Production Joining**

Joining operations requiring flexibility of multiple sized fasteners or a common mm size for high production output – memory programmed for frame profile recall

**Up to 300 joined frames per hour\***



\* Hourly production rates are determined based on 3 positions per corner, single V-Nail insertion per position, 20cm x 25cm frame size (8" x 10")

### Technology for Joining: Wood & Plastic Frames | Wood Doors, Windows & Trim

This selection guide is intended to assist in choosing the appropriate Underpinner based on key performance requirements for your application. For more information contact Lion at [info@lionpic.co.uk](mailto:info@lionpic.co.uk)

For complete details on maximum moulding height and width, maximum distance between V-Nail strokes, etc., see Lion website.



All U-Series use:  
**PowerTwist® PTM V-Nail Technology**

Authorised  
Alfamacchine Distributor

**Acorn**  
Picture Framing Supplies

COLOR CODED FOR EASY IDENTIFICATION • EASY FIELD REPLACEABLE • QUICK CHANGE TO DIFFERENT CLAMPING PAD • CONFORMS TO MOULDING CONTOUR

## Clamping Pad System



**Black Polymer Pad**  
For harder wood  
**9465 #397100001**

**White Polymer Pad**  
For medium wood  
**9464 #397100002**

**Blue Polymer Pad**  
For softer wood  
**9463 #397100003**

Adaptable with  
Alfamacchine's full range of  
Metal Pressure Plates



**Magnetic – Single Metal Pressure**  
**9462 #397100005**



**Single Metal Pressure Plate**  
**9461 #242230300**



**Double Metal Pressure Plate**  
**9506 #242230320**

See over for the  
U-Series Selection Guide



Contours to Moulding

Easy Field Replaceable

### Positive Placement Vertical Clamping

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

## Clamping Pad System for Alfamacchine U-Series Underpinners

Alfamacchine's Clamping Pad System incorporates different clamping pad firmness based on moulding hardness. Available in soft, medium and hard, the system offers significant benefits to users.

- Three different pads are available to match moulding hardness, contour, finishes or coatings to improve joining performance
- Swappable pads are made with varying degrees of elasticity to conform to the contour of the moulding, thus improving clamping without damaging delicate surfaces
- Color coded – Blue for softer wood, White for medium wood and Black for harder wood
- Easy field swappable depending on joining application
- All clamping pads fit magnetic, single and double metal pressure plates
- Adaptable to Single or Double hydraulic clamping mechanisms
- Clamping Pad System also adapts to most older Alfamacchine and MiniGraf Underpinners

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