



# **Core Values of Fletcher Business Group (FBG)**

The core values of the FBG Team reach worldwide to inspire and motivate each of our unique companies to strive for collaborative excellence, ensuring tested, trusted, and proven solutions that provide our customers with the highest quality products and customer service.

We are a dominant global leader of multi-market, solution-driven technologies for a wide range of industries. For more than 150 years, our dedicated FBG team has successfully developed and manufactured products that offer a diverse range of engineered capabilities and integrated solutions for cutting, joining, hanging, and automation, all supported by personalized installation, service, and training.

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Innovation for Framing

www.fletcher-terry.com 800.843.3826 Engineered solutions for double miter cutting, robotic and production frame joining and automation processes

AMP provides automated process solutions for mass customization and high volume production framing operations. Our suite of solutions include our TA-350 Auto Saw for double miter cutting, saw blade technology, our AF-500 Auto Joining Robot and high production frame joining underpinners all matched with our PowerTwist® V-Nail Fasteners. All backed with our equipment installation, training and ongoing equipment services.

# **AF-500 Frame Joining Robot System**

#### **AUTOMATED JOINING FOR HIGH PRODUCTION ENVIRONMENTS MEETS MASS CUSTOMIZATION DEMANDS**

FBG offers the AF-500 Frame Joining Robot System suited for high volume automatic frame joining of picture frame moulding and canvas stretcher bars. The system consists of a Vertical Feeder that automatically positions the moulding into the four individually controlled joining stations each inserting V-Nails simultaneously in one or multiple positions per corner. The AF-500 has production joining rates 720 to 900 pieces per hour.



#### **Machinery Technical Specifications**

#### **Machinery Dimensions:**

• 5 ft (width) x 6 ft (height) x 6 ½ ft (length)

#### Part Loading & Magazine Capacity - Vertical Feeder:

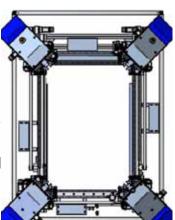
- 4 individual stations for loading pre-cut moulding
- Maximum 50 pieces per station depending on moulding height
- Estimated loading time − 3 ½ minutes

#### Part Clamping & V-Nail Insertion:

• Independent pneumatic control and air supply for each joining station for optimal performance

#### **Joining and Clamping Station**

- Proven head joining design single channel U-500 underpinner machinery platform
- Capable of using various V-Nail mm sizes depending on joining requirement
- V-Nail capacity 6,000 per joining station



AMP's Frame Robot System is programmed through a icon driven touch screen panel for controlling and adjusting all operational parameters of the system.

#### Below is a listing of the software functionality

- Icon driven touch screen control panel
- Graphic touch screen control of each joining station setup and parameter setting
- Programming V-Nail stacking
- Individual joining head positioning control for set-up flexibility
- Magazine moulding control
- Adjustable process control speed for part movement conveyors
- Automatic V-Nail insertion control



AF-500 Frame Robot System Highlights

720 to 900

Joined frames

per hour

Frame sizes Min= 8" x 8" Max= 30" x 47"





See a demo of our high volume robot





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Icon driven touch screen control panel



# **AMP V-Nail Fastener with Power Twist® Joining Technology**

AMP's brand of V-Nail Fasteners is manufactured with our Power Twist pulling power designed to improve the 45-degree miter joint strength for framed art, canvas prints or woodworking assemblies.

The Power Twist patented design pulls the joint tightly together creating greater performance strength at the corner. Manufactured from high quality steel, the V-Nail strip is applied with a proprietary silicone allowing for smooth penetration into the joining material.

AMP's V-Nails come in various mm sizes with different grinds depending on joining material. Available in small convenient packages or large volume bulk package for use with softwood, hardwood, MDF, and plastic materials.



#### **AMP V-Nail Fasteners - For all AMP Branded Underpinners**

MATERIAL DATA*	<b>Material</b> EN 10132 Cold rolled narrow steel strip	<b>Finish</b> Bright	Collation Silicone strip V- Nail type fastener
V-NAIL TYPE	<b>Width</b>	<b>Thickness</b> 0.30 mm	Strip Length
PTM GENUINE	11 mm		200 nails per strip
V-NAIL TYPE	Width	<b>Thickness</b> 0.38 mm	Strip Length
PTM GENUINE REINFORCED	11 mm		160 nails per strip
GRIND (NAIL TYPE)	<b>58 (SW)</b> For soft woods and other soft material	<b>50 (MW/HW)</b> For hard woods and other hard material	<b>DS (HDF)</b> For medium or high density fiber (MDF or HDF)
JOINING	Banak, Bass, Cedar, Obeche, Poplar,	Ash, Cherry, Hickory, Maple, Pecan,	Medium to hard MDF material,
MATERIAL	Pine, soft MDF, soft Plastic	Ramin, White Oak, Plastic	Red Oak & Walnut

<sup>\*</sup>Dual Manufacturing Facilities - Italy or USA

#### **Standard Packaging Options**

V-NAIL SIZE (mm) & TYPE	V-NAIL PER BOX
(3 mm) 1003 – MW/HW	7,000/Box
(5 mm) 1005 – MW/HW	5,000/Box
(7 mm) 1007 – SW/MW/HW	4,000/Box
(7 mm) 1007 – HDF	3,200/Box
(10 mm) 1010 – SW/MW/HW	3,000/Box
(10 mm) 1010 – HDF	2,400/Box
(12 mm) 1012 – SW/MW/HW	3,000/Box
(12 mm) 1012 – HDF	2,400/Box
(15 mm) 1015 - SW/MW/HW	2000/Box
(15 mm) 1015 – HDF	1,600/Box

#### **Bulk Packaging Options**

V-NAIL SIZE (mm) & TYPE	V-NAIL PER BOX
(5 mm) 1005 – MW/HW-B	48,000/Bulk Box
(7 mm) 1007 – SW/MW/HW-B	36,000/Bulk Box
(10 mm) 1010 – MW/HW-B	24,000/Bulk Box
(12 mm) 1012 – MW/HW-B	20,000/Bulk Box
(15 mm) 1015 – SW/MW/HW-B	16,000/Bulk Box





Universal V-Nails are available for non-AMP branded underpinners. Contact customer service for information

# **FBG Service and Installation Programs**

FBG firmly stands behind our equipment by offering an array of service options available to our customers providing longevity and production uptime for their investments. Services include in field facility visits, phone and digital media support, installation and training, remote service connections for our automated equipment. Spare parts and accessories are sold through FBG's online web store.

Our service teams are located in Connecticut, Illinois and Texas areas.



#### **Categories of Field Service**

- Preventative Maintenance Service Program
- Automated Equipment in Field Services
- Semi-Auto / Manual Equipment Services
- Installation and Training
- Urgent / Emergency Service Visits

#### **Preventative Maintenance Service Program**

Comprehensive Maintenance Service Program is typically quoted at the time of a significant, automated equipment purchase. Pricing is determined by scope and quantity of machinery. Fixed fee or hourly rate plus expenses options are available.

#### **Automation Field Services**

Comprehensive Maintenance Service Program is typically quoted at the time of a significant, automated equipment purchase. Pricing is determined by scope and quantity of machinery. Fixed fee or hourly rate plus expenses with 4 scheduled facility visits per year.

Fees are based on 2-day visits and additional fees are added if more days are needed.

# **Semi-Auto/Manual Equipment Services**

These services typically involve semi-auto or manual type equipment. Preventative maintenance is performed and specific customer issues are addressed. Standard wear parts replacement and/or non-wear parts servicing is performed. (additional cost).

#### **Installation & Training**

FBG offers installation and on site training for its T-400 and MN-355 Double Miter Saws, AG-2000 Cut Measurement System and production underpinners, U-500 and U-600. Fees are determined based on the type of equipment and quantity.

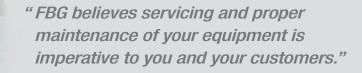
#### **URGENT / EMERGENCY Service Visits**

These types of services are performed either as a custome facility visit, phone support, Team's Meeting or Facetime media. Appropriate fees are applied.



#### **SPARE PARTS and WEAR PARTS**

FBG maintains spare part inventory at its Connecticut, Illinois, New Jersey and Forli, Italy warehousing facilities. We encourage our customers to maintain key spare components at their facility to maintain maximum production uptime and eliminate any production interruptions.









Alfamachine
Innovation for Framing

www.fletcher-terry.com 800.843.3826 45-degree miter for wood, plastics and aluminum frame cutting solutions for medium to high production requirements

AMP provides multiple options and processes for double miter cutting. Starting with our TA-350 Auto Saw, meant for high production cutting for Online Retailers, Fulfillment and Manufacturing operations. Our T-400 and MN-355 Double Miter Saws handle mid to high volume material cutting along with

Saws handle mid to high volume material cutting along with AMP's AG-2000 Cut Measurement System providing a complete process for material sizing and cutting operations.



# Extra Cut Waste Tale of the Bar Cuts A-B Trim Cut

"Miter cutting with seamless software integration for high-volume OEM and fulfillment operations."

# Simulation of Programmed Frame Cutting – Provides onscreen view of entered job requirements for cuts and material optimization prior to releasing the job.

# TA-350 Automatic Vertical Miter Saw

# 45° MITER FOR WOOD, PLASTICS, ALUMINUM FRAME CUTTING, AND WOOD TRIM/CASINGS FOR DOORS & WINDOWS FOR MEDIUM TO HIGH PRODUCTION ENVIRONMENTS

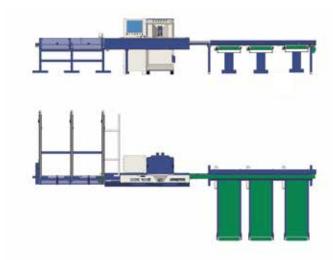
AMP offers a complete Double Miter Saw cutting system with up to six process stations including material handling, material gripper system for moving moulding to cutting station, double miter cutting and movement of cut frame pieces. The process is completed with frame joining using either U-500 or U-600 underpinners. (see pages 26 & 27).

- Automatic double miter saw cutting process
- Comes with RH/LH clamps, set of blades, control unit with operating software, Speed Feed Servo System
- Integrates part handling, double miter cutting, part movement
- Modular system is expandable, depending on facility floor layout
- Compatible with AMP's AF-500 Frame Joining Robot (see pages 6 & 7).

#### **Vertical Feeder Option:**

Ideal for cutting operations where the moulding is easily stackable **Horizontal Feeder Option:** 

Ideal for cutting operations with multiple moulding sizes and profiles



The TA-350 System is quoted based on the customer application cutting needs, system configuration, and production floor layout requirements. Above is an example of our Horizontal Hopper, Double Miter Saw station with a Three Lane Kicker Conveyor system. **Check FBG's website for complete layout options.** 



TA-350 Miter Saw Highlights

**1,900**Production output range

approx per hour

**Cuts labor** 

& production costs

Maximum moulding width

up to 3 1/2" (80 mm)

TA-350 is compatible with





Saw blade shapening services offered



Close up of RH/LH clamps



Close up of material gripper

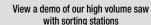




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Horizontal Feeder option



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#### T-400 Technical Specifications

Maximum Moulding Width 4" (Up to 101 mm)

Maximum Moulding Height 3 1/2" (Up to 88 mm)

Minimum Moulding Cut Length (internal dimension) 3" (75 mm)

Production
Capacity
Up to 800 Cuts/Hour

Motors
2 x 2hp/2800 rpm

Blade Size 400 mm



Saw blade shapening services offered



See the saw in use with easy to use touch screen

**AMP** 

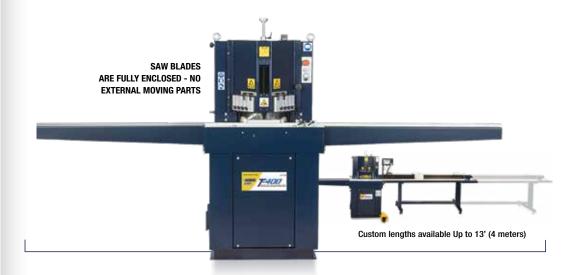
Frame Joining Technology

#### T-400 Double Miter Saw

MEDIUM TO HIGH PRODUCTION | PNEUMATIC CLAMPING SYSTEM | EMERGENCY PUSH CUT-OFF SWITCH ADJUSTABLE CUTTING SPEED AND HEIGHT | QUICK BLADE CHANGE | PUSH BUTTON OPERATION

AMP's T-400 Saw is designed to precisely cut 45° miter joints for picture framing and woodworking applications such as windows, doors, and furniture components. The T-400 can handle all wood, plastic, MDF, and metal materials with moulding height up to 3 1/2" and moulding width up to 4".

The T-400 is a heavy duty saw built for medium to high production type environments. It's designed with a unique pneumatic system that controls the down-stroke movement of dual cutting blades resulting in precise cutting with a quick return process. Two saw blades are fixed at 45° angles and vertically move up and down. With each stroke, the two miters are cut from the moulding with the least amount of material scrap. During the cutting process, the moulding is held firmly in place by four pneumatic clamps ensuring high quality cutting.



PRODUCT	PART	PART FRAME DIMENSIONS/WEIGHT		INSTALLATION		
FNUDUGI	NUMBER	MATERIALS	in	mm	REQUIREMENTS	
T-400		Wood	Length: 39 3/8"	1000 mm	Dust Collection Scrap Chute 2 Ports 80mm	
Double Miter Saw		Wood Plastic	Width: 39 3/8"	1000 mm	Power Requirement 3 Phases 230/400 Volt – 50/60Hz - 3Kw	
Cutting Action: Pneumatic/Vertical	04-081		MDF	Height: 71"	1800 mm	Min Air Requirements 7 bar - 4 cfm - 8 NL/min
			Weight: 1100 lbs	500 kg	100 psi Oil filter pressure regulator	

#### **AG-2000 Automatic Gauge - Cut Measurement System**

PRECISELY CUTS 45° MITER JOINTS | AUTOMATIC POSITIONING SYSTEM | AUTOMATIC SET-UP TIME ELECTRONIC POSITIONING STOPS

The AG 2000 Auto Gauge System integrates with the AMP double miter saw technology to provide a complete system that automatically measures moulding lengths, and precisely cuts 45° miter joints for picture framing, canvas framing and mirror fabrication.

The Auto Gauge simplifies and speeds up the process with quick change over to different lengths by recalling stored programs initiated through the controller's key pad. Up to 5000 programs can be created and stored.

For OEM operations requiring the need for mass customization, and who produce many different frame sizes customized to specific customer needs, the AG 2000 offers production operations flexibility and quick change over efficiency to different frame sizes while controlling production cost.



PRODUCT	PART	P.C.DATA	DIMENSION	S/WEIGHT	POWER
	NUMBER	NUMBER STORAGE		mm	REQUIREMENTS
AG 2000  Automatic Gauge 5,000   with 04-086   Measurement Profiles   Device	Length: 112"	2850 mm			
	04.000	_,-,	Width: 23"	590 mm	Single Phase 110/230
	04-086		Height: 60"	1524 mm	Volt 50/60Hz-1Kw
			Weight: 3081 lbs	140 kg	



Standard Auto Gauge size is 78.5" (2,000 mm). 98" (2,500 mm) and 118" (3,000 mm) are available as special order.



Automatic moulding width reader

AG 2000 Technical Specifications

Maximum Internal Cut 78.5" (2000 mm)

Maximum External Cut 87" (2200 mm)

Minimum External Cut 6" (150 mm)

Measuring Accuracy ±.004" ( ± 0.1 mm)

Positioning Speed 2,363"/ Minute

Maximum Moulding Width Up to 4" (100 mm)

Maximum Moulding Height Up to 3 1/2" (80 mm)





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Adjustable safety guards



Double miter cutting



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Inside cabinet view of pneumatic hold down clamps



Precision machined cast table, saw head, pivot assemblies and motor bases



Pneumatic hold down clamping mechanism

# MN-355 Heavy Duty Double Miter Saw

#### HEAVY DUTY DESIGN | FOOT PEDAL ACTIVATED | METAL CUTTING | MADE IN USA

AMP's MN-355 is a heavy duty double miter saw designed to cut 45° miter joints in wood, MDF, plastics and aluminum materials. The MN-355 can cut materials up to 6" wide and 4" high. The heavy duty design is achieved using precision machined cast components for saw head, pivot assembly and motor base. All portions of the saw base are fabricated with a heavy gauge steel and normalized, a metallurgical process to ensure all stress is removed before machining and drilling for saw cutting heads and guide fence. The cutting process is foot pedal actuated for production output speed, and ensures consistent, accurate and repeatable cutting. A standard set-up for the MN-355 saw system consists of a 1.5Hp motor, vertical clamps, 96" manual measuring table and a set of saw blades.

#### MN-355 Unique Performance Features

- Timing belt driven saw blades with precision machined spindles and double bearing support
- Dual magnetic motor starter with push button control
- Adjustable saw feed rate control
- Balanced and pinned saw blade assemblies for quiet production operations



PROPUST	PART	PRODUCTION	P.C.	DIMENSION	IS/WEIGHT	ELECTRICAL & PNEUMATIC					
PRODUCT	NUMBER	CAPACITY	DATA Storage	in	mm	REQUIREMENTS					
				Up to 800 5,000					Length: 48"	1220 mm	Electrical: 230VAC / 3 Phase /
MN-355	04.050				Width: 24"	610 mm	60Hz / 15FLA				
Miter Saw				Height: 54"	1372 mm	Pneumatic 85PSI / 3CFM					
				Weight: 500 lbs	227 kg	Air Filter/Regulator/ Lubricator					

MN-355 Technical Specifications

Maximum Moulding Width 6" W x 1" H

Maximum Moulding Height 4" W x 4" H

**Production Capacity**Up to 800 Cuts/Hour

Single Motion Cycle
(2) Cuts per Cycle



Saw blade Dia, 355 mm

Blade Motor 1.5HP / 3450RPM / TEFC

> Blade Speed 12,000 SFM



Saw blade shapening services offered



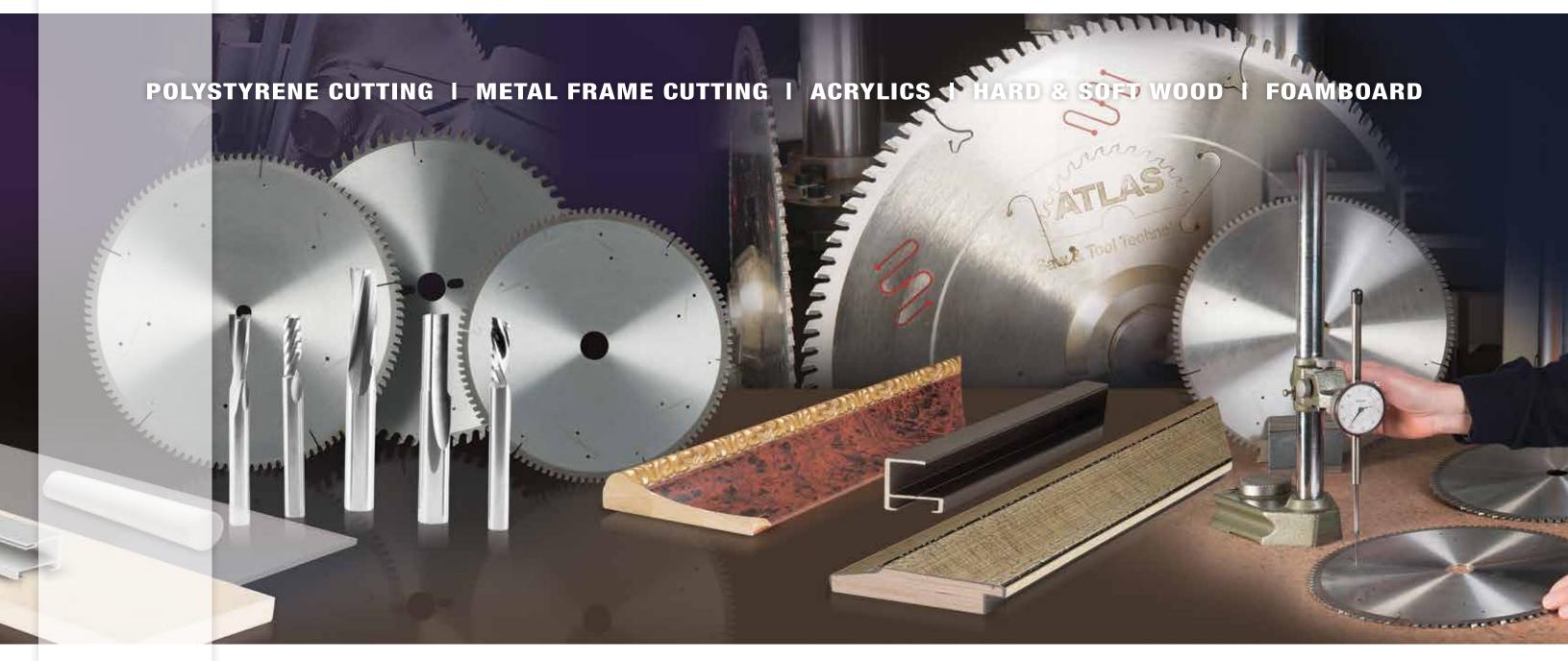
View the operation of the saw



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www.fletcher-terry.com 800.843.3826 Custom blade manufacturing and regional sharpening services for plastics, wood, metal and paper industries

As a market innovator for more than 70 years in saw blades, sharpening services and blade management, Atlas Saw & Tool products and services meet the cutting needs of frame shops, PSPs, OEMs and manufacturers across a range of industries, including picture framing, plastics, sign & graphics and woodworking. We provide market exclusive blade designs and our blades work well with major saw brands.

To arrange for an in-house evaluation of your production facility and operations call 888.484.1488 or e-mail us at info@atlassaw-tool.com.



#### Atlas Saw & Tool Highlights

70+ yrs.

**Custom Blade** Manufacturing Experience



70 Years Tool **Sharpening Services** 



Blade Management **Inventory Control Program** 



We Service Pistorius Saws

45° & 90° Cuts the most

advanced substrates



Offers market exclusive saw blade design



Produces smooth, chip-free cut edge quality



**High-volume operations** can cut up to 20 sheets simultaneously



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# **Atlas Saw & Tool Products & Services**

#### CUTTING WOOD | MDF | ALUMINUM | ENGINEERED PLASTICS

Our custom quality saw blades and tooling solutions serves multiple industries cutting wood, MDF, Aluminum, and Engineering Plastics. Atlas Saw & Tool products and services meet the cutting needs of frame shops, PSPs, OEMs and manufacturers across a range of industries, including picture framing, plastics, sign & graphics and woodworking.

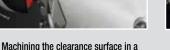


"Market leader in custom quality saw blades & tooling solutions, sharpening services, and blade management"





peripheral grinding process





during sharpening process



specifications

# **Picture Framing and Signage Blades**

#### SOFTWOOD | HARDWOOD | MDF | ALUMINUM FRAMES

HARD AND SOFT WOOD - Our 4+1 saws tooth design is perfectly engineered for all hard and soft wood mouldings – plus all composite materials – to produce a smooth, chip free edge. This market-exclusive blade design and geometry is only available through Atlas Saw & Tool.

MDF - With foil wrapped mouldings, our unique sheer face design makes this an excellent blade of choice for cutting MDF materials.

**POLYSTYRENE** - Our hollow face design is specifically manufactured to cut polystyrene picture frame mouldings and is engineered to eliminate melted burr formation and reduce residue

**ALUMINUM** - Using a series of saw blades with special grade of carbide and unique tooth geometry, this design is ideally suited for cutting thin walled aluminum picture frame mouldings. Suited for dry cut processing or use with mist coolant, depending on frame thickness.

#### ACRYLIC I FOAM BOARD

**ACRYLIC** - Acrylic RV saw blades are engineered to reduce chipping on thin acrylic sheets and have a unique grind pattern that reduces heat and prevents melting.

FOAM BOARD - Our foam board blades have a thin kerf design with sharply pointed shear faced teeth that produces razor sharp cuts without tearing or blowing out material. This market-exclusive blade design and geometry is only available through Atlas Saw & Tool.

		SAW	BLADES				
MATERIAL	ITEM NO.	DIAMETER	KERF	PLATE	TOOTH NO.	ARBOR	GRIND
	TA-25580	255	3.0	2.2	80	5/8"	ATBR
Picture Framing	TA-27580ATL	275	3.0	2.4	80	32	ATBR
	TA-275100ATL	275	3.0	2.4	100	32	ATBR
Wood Cutting	TA-30090ABD3	300	3.0	2.4	90	30	ATBR
Troot outling	TA-350110AB3	350	3.0	2.4	110	30	ATBR
Hard &	TA-400120AB3	400	3.8	3.2	120	30	ATBR
Soft Wood	TA-30590ATL	12"	3.0	2.4	90	5/8"	ATBR
	TA-355110AB1	14"	3.8	3.2	110	5/8"	ATBR
	TA-355110AB3	14"	3.8	3.2	110	30mm	ATBR
	TA-355110ATL	14"	3.0	2.4	110	5/8"	ATBR
	TA-25048H	250	3.2	2.2	48	5/8"	Hollow
Dieture Freming	TA-30060YHB3"C"	300	3.2	2.2	60	30	Hollow
Picture Framing	TA-30060YHB3A	300	3.2	2.4	60	30	Hollow
Plastic Cutting	TA-30560YHB1A	12"	3.2	2.2	60	5/8"	Hollow
Flastic Cutting	TA-35072YHB3	350	3.2	2.2	72	30	Hollow
Polystyrene	TA-35072YHB3A	350	3.2	2.4	72	30	Hollow
Torystyrono	TA-35572YHB1A	14"	3.2	2.4	72	5/8"	Hollow
	TA-4007630	400	3.8	3.2	76	30	Hollow
	TA-25596BX1	10"	2.4	2.0	96	5/8"	CTCG
	TA-300108BX3	300	2.8	2.2	108	30	CTCG
Aluminum	TA-305108BX1	12"	2.8	2.2	108	5/8"	стсс
Frame Blades	TA-305108BX2	12"	2.8	2.2	108	1"	CTCG
	TA-355120BX1	14"	3.0	2.6	120	5/8"	CTCG
	TA-350120BX3	350	3.0	2.6	120	30	CTCG
	TA-400140BX3	400	3.2	2.8	140	30	CTCG
F	TA-350140H	350	3.0	2.4	140	30	HATB
Foam Board Cutting	TA-400140H	400	3.0	2.4	140	30	HATB

Other blade sizes available

# **Engineered Plastic Blades**





#### ACRYLIC | MECHANICAL PLASTICS | PHENOLIC | FOAM BOARD

**ACRYLIC** - Acrylic RV saw blades are engineered to reduce chipping on thin acrylic sheets and have a unique grind pattern that reduces heat and prevents melting.

**MECHANICAL PLASTICS** - Atlas' mechanical plastic saw blades have a unique tooth geometry design that allows for a smooth, easy cut on ultra-low melt plastics, such as nylon, polypropylene, UHMW and HDPE.

**PHENOLIC** - Our phenolic blade design has a modified ATB grind that is ideal for cutting difficult engineered materials like paper, linen and canvas. Filled phenolic blades have a diamond grit specially designed for all grades and thicknesses of material.

**FOAM BOARD** - Our foam board blades have a thin kerf design with sharply pointed shear faced teeth that produces razor sharp cuts without tearing or blowing out material. This market-exclusive blade design and geometry is only available through Atlas Saw & Tool.

SAW BLADE	ITEM NO	DIAN MM	METER INCH	KERF	PLATE	тоотн но	ARBOR	GRIND
	ISP-30548CBWA2	305	12"	3.60	2.40	48	25.4mm - 80mm	Beveled AT
UHMW/HDPE BLADES	ISP-35048CBWA2	350	14"	4.00	2.80	48	25.4mm - 80mm	Beveled AT
"CHIP CRUNCHER"	ISP-40060CBWA2	400	16"	4.20	3.00	60	25.4mm - 80mm	Beveled AT
	ISP-45060CBWA2	450	18"	4.40	3.20	72	25.4mm - 80mm	Beveled AT
	ISP-25524ABWA1	255	10"	3.60	2.40	24	15.88	ATB-R Mod
	ISP-30530ABWA2	305	12"	3.60	2.40	30	25.4mm - 80mm	ATB-R Mod
NYLON/MECHANICAL	ISP-35036ABWA2	350	14"	4.00	2.80	36	25.4mm - 80mm	ATB-R Mod
PLASTIC BLADES	ISP-38036ABWA2	380	15"	4.00	2.80	36	25.4mm - 80mm	ATB-R Mod
	ISP-40024ABWA2	400	16"	4.20	3.00	24	25.4mm - 80mm	ATB-R Mod
	ISP-40045ABWA2	400	16"	4.20	3.00	45	25.4mm - 80mm	ATB-R Mod
	ISP-45036ABWA2	450	18"	4.40	3.20	36	25.4mm - 80mm	ATB-R Mod
GENERAL PURPOSE	ISP-35054CRWA3	350	14"	2.8	2	54	30mm - 80mm	Reveled AT

SAW BLADE	ITEM NO	DIAMETER	KERF	PLATE	ARBOR	тоотн но
	ISP-25580ABRV1	10"	0.094"	0.071"	5/8"	100
	ISP-30580ABRV2	12"	0.11"	0.079"	25.4mm - 80mm	80
	ISP-35060ABRV2	350mm	0.126"	0.09"	25.4mm - 80mm	60
ACRYLIC	ISP-350100ABRV2	350mm	0.126"	0.087"	25.4mm - 80mm	100
	ISP-350100ABRV9	350mm	0.126"	0.087"	80mm	100
	ISP-40080ABRV9	400mm	0.126"	0.087"	80mm	80
	ISP-450120ABRV2	450mm	0.134"	0.094"	25.4mm - 80mm	120

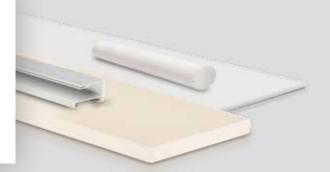
	DIAMONE	GRIT SA	N BLADES	S		PC
MATERIAL	ITEM NO	DIAMETER	KERF	BORE	MATERIAL	ITEM NO
	DISB10	10"	0.135"	5/8" - 1"		PCD12
FIBERGLASS/	DISB12	12"	0.145"	25.4mm - 80mm	<b>GLASS FILLED</b>	1 0012
PHENOLICS	DISB400	16"	0.173"	25.4mm - 80mm	MECHANICAL	PCD35
G SERIES	DISB450	18"	0.187"	25.4mm - 80mm	PLASTIC	
	DISB500	20"	0.187"	25.4mm - 80mm		PCD400

PCD TIPPED SAW BLADES										
MATERIAL	ITEM NO	DIAMETER	KERF	BORE	тоотн по					
GLASS FILLED MECHANICAL PLASTIC	PCD12	12"	0.157"	30mm - 80mm	40					
	PCD350	14"	0.157"	30mm - 80mm	60					
LAGIIO	PCD4000	16"	0.173"	30mm - 80mm	60					

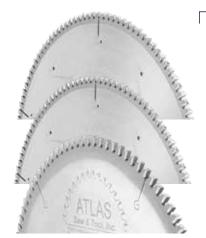
Amount of teeth would depend on the material thickness. For all other plastic saw blades, please contact us.



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# **Woodworking Blades**



#### RIPPING I CROSS CUT | TRIM | DOUBLE SIDED MATERIALS

**RIPPING** - Our glue line ripping blades have a special tooth geometry designed for glass smooth cuts in hard or soft woods. The standard ripping blades have a flat top grind and unique tooth geometry allowing the hard or soft woods to be cut with the grain efficiently.

**CROSS CUT** - These blades have a standard ATB grind that is ideal for cross cutting on hard or soft woods.

**TRIM** - Our trim blades with a triple chip design help produce a smooth finish for cutting fragile materials, such as laminates and veneers.

**DOUBLE SIDED MATERIALS** - These blades have a high/ATB grind designed to cut without chipping the top and bottom edges of fragile surface materials like melamine.

SAW BLADE & MACHINE	ITEM NO.	DIAMETER	KERF	PLATE	тоотн но.	GRIND	BORE & MOUNTING HOLES	ноок
Scoring - SCM	AA10020	100mm	2.8 - 3.6mm	2.0mm	2 x 12T	Split, FTG	20mm	12
Scoring - SCM	AA120Q	120mm	2.8 - 3.6mm	2.0mm	2 x 12T	Split, FTG	3/4"	12
Scoring - Altendort	AA12022	120mm	2.8 - 3.6mm	2.0mm	2 x 12T	Split, FTG	22mm	12

SAW BLADE	ITEM NO.	DIAMETER	KERF	PLATE	тоотн но.	GRIND	BORE & MOUNTING HOLES	ноок
GENERAL PURPOSE	GA1060	10"	.126"	0.087	60T	ATB	5/8"	10
ATB (ALTERNATE TOP BEVEL)	GA1280	12"	.126"	0.087	80T	ATB	1"	10
GENERAL PURPOSE TCG	GT1060	10"	.126"	0.087	60T	TCG	5/8"	10
	GT1080	10"	.126"	0.087	80T	TCG	5/8"	10
(TRIPLE CHIP GRIND)	GT1210	12"	.126"	0.087	100T	TCG	1"	10
RIPPING	RF1024	10"	.126"	0.087	24T	FLAT	5/8"	20
SAW BLADES	RF1236	12"	.126"	0.087	36T	FLAT	1"	20
SAW BLADES	RF1436	14"	.165"	0.118	36T	FLAT	1"	20
GLUE JOINT	GJ1030	10"	0.146	.102"	30T	TCG	5/8"	20
	GJ1236	12"	0.157	.118"	36T	TCG	1"	20
SAW BLADES	GJ1436	14"	0.165	0.118	36T	TCG	1"	20
	MD1080	10"	.118"	0.094	80T	ABABR	5/8"	-2
MITER &	MD1280	12"	.126"	0.102	80T	ABABR	1"	-2
DOUBLE MITER	MD14100	14"	.134"	0.110"	100T	ABABR	1"	-2
SAW BLADES	MD3001030	300mm	3.4mm	2.6mm	100T	ABABR	30mm	-2
	MD3501030	350mm	3.6mm	2.8mm	100T	ABABR	30mm	-2
	LM1080	10"	.126"	.087"	80T	HATB	5/8"	-5
	LM1080TCG	10"	.126"	.087"	80T	TCG	5/8"	-5
	LM1080RIM	10"	.094"	.055"/.087"	80T	HATB	1"	-5
MELAMINE	LM1280	12"	.126"	.087"	80T	HATB	1"	-5
SAW BLADES	LM1410	14"	.138"	.098"	100T	HATB	1"	-5
	LM1612	16"	.157"	.118"	1200T	HATB	1"	-5
	LM22064	220mm	3.0mm	2.0mm	64T	HATB	30mm, 2/7/42	-5
	LM2508030	250mm	3.2mm	2.4mm	80T	HATB	30mm, 2/7/42	-5

Other blade sizes available



CNC Saw Blade Sharpening

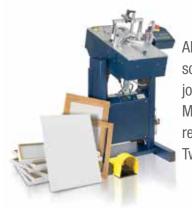








www.fletcher-terry.com 800.843.3826 Manual and fully automated solutions for low to high production needs with miter or 90 degree joining



AMP provides a full range for frame joining and door trim/casings joining solutions from our manual U-200 machine to our AF-500 automated framing joining robot. Our U-500 single channel, multi-level joiner, and our U-600 Multi-Channel unit are high production solutions suited for any industry requiring frame joining capabilities. AMP's underpinners utilize our Power Twist® V-Nail fasteners for 45 or 90 degree joining solutions.

#### U-600 Frame **Joining Capabilities**

**Moulding Width** (min to max) 1/4" up to 4 1/4" (6-108 mm)

**Moulding Height** (min to max) 1/4" up to 3 1/4" (6-82 mm)

**Max Distance Between V-Nails** (stroke) 5 34" (145 mm)

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

Configurable V-Nail **Channel Capacity** 

Adaptable to single size or multiple V-Nail mm sizes 5 individual channels -220 V-Nails/channel

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



AMP "Power Twist®" pulling power V-Nails are designed to improve the miter joint quality for framed art or woodworking type assemblies.



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EASY TILT ADJUSTMENT | CHANGEABLE V-CHANNEL INSERTS TOUCH SCREEN P.C. I MEMORY PROGRAMMING MULTI-CHANNEL

Our *U-600* is the most advanced frame joining machine in the picture framing and woodworking industries. It balances sophistication, performance and operating flexibility for joining picture frames, door and window frame/casings assemblies, Ideal for high level production facilities requiring flexibility for different sized V-Nail fasteners or a common mm size through a patented, configurable channel feature.

With profile data storage of 5,000 different frames, the operator can easily recall any frame profile either alphabetically, or numerically on the keypad or scanned using the barcode reading option.

AMP's U-600 Computerized Air Pressure System (C.A.P.S.), is the latest operating feature for frame joining, eliminating the need to make 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

PROPUST	PART	FRAMES	P.C.	DIMENSIONS/WEIGHT		POWER		
PRODUCT	NUMBER	JOINED PER HOUR	DATA Storage	in	mm	REQUIREMENTS		
	Up to <b>04-005</b> 300			5,000 Frame Profiles	Length: 29"	736 mm		
U-600 Underpinner Memory Programmed/		<b>04-005</b> 300 Fran				,	Width: 31 1/2"	800 mm
Multi-Channel					Height: 52"	1320 mm	4NI at 5 Bar	
				Weight: 330 lbs	150 kg			

# **U-500 Underpinner Memory Programmed | Single-Channel**

EASY TILT ADJUSTMENT | CHANGEABLE V-CHANNEL INSERTS TOUCH SCREEN P.C. | MULTI-LEVEL JOINING

Our *U-500* is recommended for high volume production facilities that require the primary use of a single sized V-Nail for joining picture frames, and door and window frames/casings. 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.

AMP'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.

The U-500 has the capability of joining single or multi-level frames in addition to joining both 45 and 90 degree angles.

PART

04-006

04-016

JOINED

PER HOUR

Up to

DATA

STORAGE

5,000

Frame

**Profiles** 

**PRODUCT** 

U-500

Underpinner

Memory

Programmed/

Single-Channel

U-500

Underpinner Memory

Programmed/ Single-Channel

Multi-Level



DIMENSIONS/WEIGHT

685 mm

800 mm

1308 mm

140 ka

Multi-level

Length: 27"

Width: 31 1/2"

Height: 51 1/2"

Weight: 309 lbs

POWER REQUIREMENTS

115/220 Volt

50/60 Hz.

Compressed Air

4NI at 5 Bar

#### U-500 Frame **Joining Capabilities**

**Moulding Width** (min to max) 1/4" up to 4 1/4" (6-108 mm)

**Moulding Height** (min to max) 1/4" up to 3 1/4" (6-82 mm)

**Max Distance Between V-Nails** (stroke) 5 ¾" (145 mm)

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

Configurable V-Nail **Channel Capacity** 220 V-Nails

**V-Nail Sizes** 3, 5, 7,10,12,15 mm (SW-HW-HDF)



U-500 and U-600

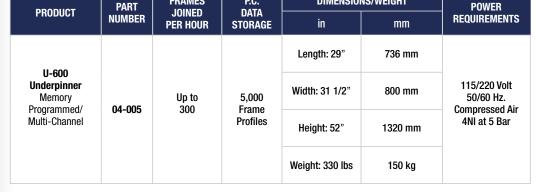




clamping pads



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Changeable V-channel



memory programming





#### U-400 Frame Joining Capabilities

#### **Moulding Width**

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

#### **Moulding Height**

(min to max) 1/4" to 3 1/4" (6 to 82 mm)

Max Distance Between V-Nails (Stroke)

> 7 7/8" (200 mm)

Pre-set V-Nail Position Stops Multiple

V-Nail Channel Capacity 200 V-Nails/channel

V-Nail Sizes

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



See the U-400 video



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#### U-400 Underpinner Semi-Automatic | Pneumatic

# PNEUMATICALLY OPERATED | DUAL FUNCTION FOOT PEDAL SMALL TABLE TOP FOOTPRINT | EASY TILT ADJUSTMENT

The U-400 is designed for ease of operation and is well-suited for joining frames with moulding width sizes up to 5 1/2" wide. 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.

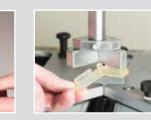
After the operator sets the two position stops for measuring the max distance between strokes, a dual function hand lever is then used to position and actuate both the vertical holding clamp and the V-Nail driver assembly inserting V-Nails anywhere along the pre-set stroke distance. A key operating feature allows the operator to quickly change V-Nail 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, eliminating the added purchased cost of plastic nail cartridges.

PROPUCT	PART	FRAMES JOINED	DIMENS	IONS/WEIGHT	POWER
PRODUCT	NUMBER	PER HOUR	in	mm	REQUIREMENTS
		Low <b>04-002</b> Production Usage	Length: 23 3/4"	603 mm	
U-400 Semi-Auto/ Pneumatic	04-002		Width: 15 1/4"	387 mm	Compressed Air 3NI at 5 Bar
Underpinner	04-002		Height: 53"	1346 mm	SNI AL S DAI
			Weight: 198 lbs	90 kg	

Easy rear

access

magazines



Interchangeabl clamping pads



# AMP V-Nail Fastener with Power Twist® Joining Technology

AMP's brand of V-Nail Fasteners is manufactured with our Power Twist pulling power designed to improve the 45-degree miter joint strength for framed art, canvas prints or woodworking assemblies.

The Power Twist patented design pulls the joint tightly together creating greater performance strength at the corner. Manufactured from high quality steel, the V-Nail strip is applied with a proprietary silicone allowing for smooth penetration into the joining material.

AMP's V-Nails come in various mm sizes with different grinds depending on joining material. Available in small convenient packages or large volume bulk package for use with softwood, hardwood, MDF, and plastic materials.



#### **AMP V-Nail Fasteners - For all AMP Branded Underpinners**

MATERIAL Data*	<b>Material</b> EN 10132 Cold rolled narrow steel strip	<b>Finish</b> Bright	Collation Silicone strip V- Nail type fastener
V-NAIL TYPE	<b>Width</b>	Thickness	Strip Length
PTM GENUINE	11 mm	0.30 mm	200 nails per strip
V-NAIL TYPE	<b>Width</b>	<b>Thickness</b> 0.38 mm	Strip Length
PTM GENUINE REINFORCED	11 mm		160 nails per strip
GRIND (NAIL TYPE)	<b>58 (SW)</b> For soft woods and other soft material	<b>50 (MW/HW)</b> For hard woods and other hard material	<b>DS (HDF)</b> For medium or high density fiber (MDF or HDF)
JOINING	Banak, Bass, Cedar, Obeche, Poplar,	Ash, Cherry, Hickory, Maple, Pecan,	Medium to hard MDF material,
MATERIAL	Pine, soft MDF, soft Plastic	Ramin, White Oak, Plastic	Red Oak & Walnut

\*Dual Manufacturing Facilities - Italy or USA

#### **Standard Packaging Options**

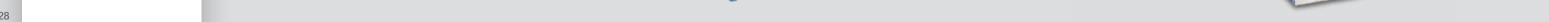
V-NAIL SIZE (mm) & TYPE	V-NAIL PER BOX
(3 mm) 1003 – MW/HW	7,000/Box
(5 mm) 1005 – MW/HW	5,000/Box
(7 mm) 1007 – SW/MW/HW	4,000/Box
(7 mm) 1007 – HDF	3,200/Box
(10 mm) 1010 – SW/MW/HW	3,000/Box
(10 mm) 1010 – HDF	2,400/Box
(12 mm) 1012 – SW/MW/HW	3,000/Box
(12 mm) 1012 – HDF	2,400/Box
(15 mm) 1015 – SW/MW/HW	2000/Box
(15 mm) 1015 - HDF	1,600/Box

#### **Bulk Packaging Options**

V-NAIL SIZE (mm) & TYPE	V-NAIL PER BOX
(5 mm) 1005 – MW/HW-B	48,000/Bulk Box
(7 mm) 1007 – SW/MW/HW-B	36,000/Bulk Box
(10 mm) 1010 – MW/HW-B	24,000/Bulk Box
(12 mm) 1012 – MW/HW-B	20,000/Bulk Box
(15 mm) 1015 – SW/MW/HW-B	16,000/Bulk Box



Universal V-Nails are available for non-AMP branded underpinners. Contact customer service for information.



#### U-300P Frame **Joining Capabilities**

#### **Moulding Width**

(min to max) 1/4" to 3 1/4" (6 to 82 mm)

#### **Moulding Height**

(min to max) 1/4 to 3 1/4" (6 to 82 mm)

**Max Distance Between V-Nails** (Stroke)

(127 mm)

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

**V-Nail Channel Capacity** 220 V-Nails

**V-Nail Sizes** 3, 5, 7,10,12,15mm (SW-HW-HDF)



AMP "Power Twist®" pulling power V-Nails are designed to improve the miter joint quality for framed art or woodworking type assemblies.

**AMP** Frame Joining Technology

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#### **U-300P Underpinner Semi-Auto/Pneumatic/Production**

BENCH TOP | PRODUCTION JOINING APPLICATIONS REPEATABILITY | SPEED | SOFT CLAMPING

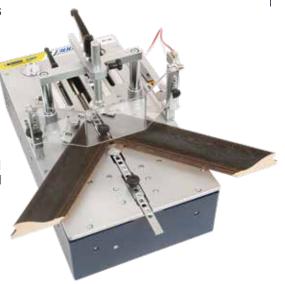
The *U-300P* is a bench top, base model for production joining applications where there is a need for speed and repeatability of joining the same sized moulding.

The design of the U-300P allows the operator to set up to 3 position stops for V-Nail insertion. The nail head pneumatically moves underneath the fixed frame. The joining cycle is actuated first by the hand lever locating the pre-set V-Nail position and then the V-Nail is inserted by actuating the foot pedal.

For those customers looking for a similar type of joining machinery but require flexibility of joining different moulding sizes, refer to our U-300 unit.

Handles up to

3 1/4" wide moulding



DDODUOT	PART	FRAMES JOINED	DIMENSIO	DNS/WEIGHT	POWER	
PRODUCT	NUMBER	PER HOUR	in	mm	REQUIREMENTS	
U 000D		Up to 04-079 200	Length: 25"	635 mm		
U-300P Semi-Auto/ Pneumatic/ Production	04-079		Width: 14"	355 mm	Compressed Air 3NI at 5 Bar	
Underpinner			200	Height: 20"	508 mm	Sivi at 5 Dai
			Weight: 78 lbs	36 kg		



Join either from the back or front of machine



(3) Different clamping pads available

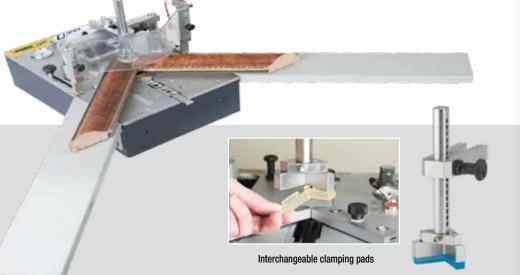
#### **U-300 Underpinner Semi-Automatic | Pneumatic**

#### BENCH TOP | PNEUMATICALLY OPERATED SOFT CLAMPING | DUAL FUNCTION FOOT PEDAL

Enjoy years of trouble-free operation with our unique V-Nail® Driver Assembly designed to eliminate frequent blade changing. Our *U-300* is a bench top frame joining machine and a popular model. It is compact, well constructed and built for many years of trouble free operation.

The design of the U-300 allows the operator to set the front and back stops for V-Nail insertion. The frame is then moved across the nail head and V-Nails are driven or stacked anywhere along the frame joint. The V-Nail insertion is actuated through the use of a pneumatic pedal.





#### U-300 Frame **Joining Capabilities**

#### **Moulding Width**

(min to max) 1/4" to 2 3/8" (6 to 60 mm)

#### **Moulding Height**

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

#### **Max Distance Between V-Nails** (Stroke)

3 1/4" (80 mm)

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

V-Nail **Channel Capacity** 220 V-Nails

**V-Nail Sizes** 3, 5, 7,10,12,15mm (SW-HW-HDF)



View our easy to use underpinner



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#### U-200P Frame Joining Capabilities

**Moulding Width** 

(min to max) 1/4" to 4 3/4" (6 to 120 mm)

**Moulding Height** 

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

Max Distance Between V-Nails (Stroke) 6.3" (160 mm)

Pre-set V-Nail Position Stops Multiple

V-Nail Channel Capacity 220 V-Nails

**V-Nail Sizes** 3, 5, 7,10,12,15mm (SW-HW-HDF)



AMP "Power Twist®" pulling power V-Nails are designed to improve the miter joint quality for framed art or woodworking type assemblies.



Floor Stand

sold separately

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#### U-200P Underpinner Semi-Auto | Pneumatic

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

Our *U-200P* is a bench top frame joining machine and a popular model with the custom frame shops. It is compact, well constructed, and built for many years of trouble free operation.

The design of the U-200P allows the framer to set the front and back stops for V-Nail insertion. The frame is then moved across the nail head and V-Nails are driven or stacked anywhere along the frame joint. The V-Nail insertion is actuated through the use of a pneumatic pedal.



PRODUCT	PART	FRAMES JOINED	DIMENSIONS/WEIGHT		POWER
PRUDUCI	NUMBER	PER HOUR	in	mm	REQUIREMENTS
			Length: 18"	457 mm	
U-200P Entry-Level	04-008	04-008 Low Production Usage	Width: 13"	330 mm	Compressed Air 3NI at 5 Bar
Underpinner			Height: 18"	457 mm	No Power Required
•			Weight: 78 lbs	35 kg	
4		100			



Easy field replacement enables a quick change to a different clamping pad depending on joining applications

# U-200 Underpinner Manual I Entry-Level Joining Assembly

EASY TILT ADJUSTMENT | MANUAL | LIGHTWEIGHT
QUIET OPERATION | CLAMP FEATURE

Our *U-200* entry-level frame assembly machine is an affordable option for any small retail operation. As a fully manual machine, it requires no compressed air or electrical power to operate. This unit allows the frame or graphic shop to bring the joining operation in-house for cost control and quick customer turn-a-around.

The U-200 is compact, quiet operation and has a small foot-print. Our lightest and most portable joiner, it can be easily moved from place to place in your business environment. It can handle moulding sizes up to 130mm (5 1/8") wide and 80mm (3 1/4") high, offers a tilting base with front or rear set-up and a "positive placement" clamping feature.

Enjoy years of trouble-free operation with our unique V-Nail® Driver Assembly designed to eliminate frequent blade changing.



PROPUST	PART	FRAMES JOINED	DIMENSIO	DIMENSIONS/WEIGHT	
PRODUCT	NUMBER	PER HOUR	in	mm	REQUIREMENTS
		Low Production Usage	Length: 30"	762 mm	
U-200 Manual Entry-Level	04.007		Width: 18"	457 mm	No Power or
Underpinner	04-007		Height: 50"	1270 mm	Air Required
			Weight: 83 lbs	38 kg	



(3) Different clamping pads available



#### U-200 Frame Joining Capabilities

Moulding Width (min to max) 1/4" to 5 1/8"

(6 to 130 mm)

**Moulding Height** 

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

Max Distance Between V-Nails (Stroke) 7" (180 mm)

Pre-set V-Nail
Position Stops
Multiple

V-Nail Channel Capacity 220 V-Nails

**V-Nail Sizes** 3, 5, 7,10,12,15mm (SW-HW-HDF)

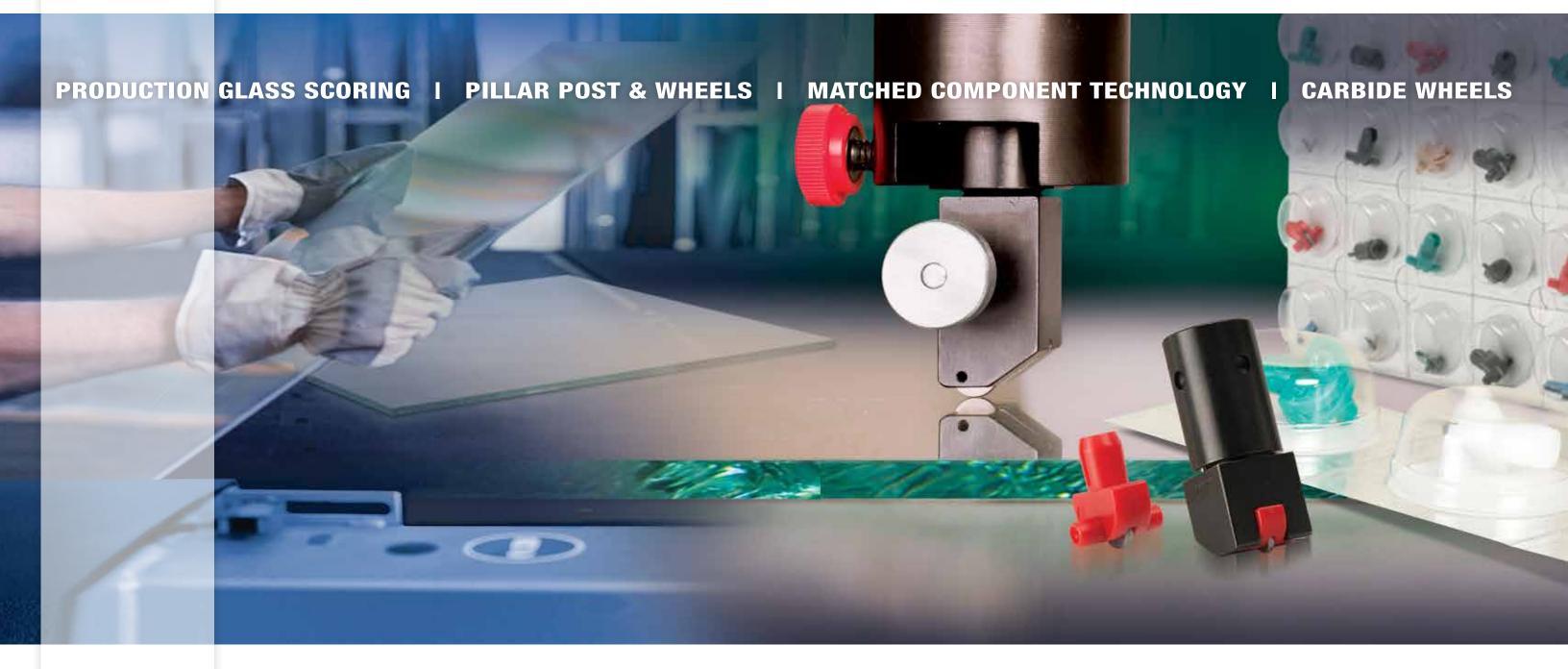


AMP "Power Twist®" pulling power V-Nails are designed to improve the miter joint quality for framed art or woodworking type assemblies.



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www.fletcher-terry.com 800.843.3826 Integrated glass processing solutions engineered for superior glass scoring and cutting

Our Fletcher brand provides USA produced products sold to the Glass Float & Fabrication Industries. Our product portfolio extends from carbide scoring wheels, pillar posts and inserts to wall-mounted glass cutting machines and hand-held glass cutters and pliers. From low-volume production shops to high-volume plants, FBG can recommend solutions that suit your unique business requirements.

#### **FBG Industrial Glass Product Line**





#### **Carbide Glass Wheels**

#### **High-Speed Scoring**

Fletcher's carbide wheels are produced from a specially formulated micro-grain tungsten carbide material giving each cutting wheel extraordinary performance, strength, resilience with superior edge quality and easy, clean break out for glass products. Our wheels are produced using a CNC proprietary method for high-speed glass scoring applications and support quick order turnaround.

Wheel O.D. size ranges from 3.937 mm to 6.655 mm.\*



#### **Pillar Posts & Inserts**

#### Accommodate wheel OD's ranging from 4.44mm to 6.22mm\*

Fletcher designs and manufactures pillar posts and tool posts for different configurations to meet machinery requirements for a variety of float plants and glass fabricators. Pillar posts accept ATF and M1 wheel holders, wheel axle assemblies and pre-assembled plastic and metal wheel units. They apply to any scoring application including self-centering and self-aligning and are available with and without oil lines.

Custom design services available.



#### **Pre-assembled Metal Carbide Wheel Units**

Fletcher's pre-assembled metal carbide wheel units include one carbide cutting wheel and carbide or steel axle seated in a heavy duty metal clip. Metal wheel units easily slide into the pillar post holder and compress to the exact dimensions of the wheel.

Made from our exclusively-formulated micro grain, our tungsten carbide wheels have extraordinary strength and resilience.

Wheel O.D. size ranges from 4.44 mm to 6.22 mm.\*



FLETCHER

**Material Cutting & Finishing** 

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#### **Plastic Carbide Wheel Units**

#### Available with wheel angles ranging 120° to 165°\*

Fletcher's pre-assembled plastic carbide wheel units include one carbide cutting wheel and carbide axle seated in a plastic insert holder. Units easily can be used in conjunction with applicable pillar posts across most brands of glass scoring machines





#### \*See website for part configuration



#### Fletcher's 3000 Wall Machine

#### Scores glass and acrylic

Features a 3-position cutting turret containing a glass scoring wheel, a scoring tip for scoring acrylic materials and a cutting blade for cardboard and similar materials up to 1/4" (6mm). The Fletcher 3000 is great for off-line prototype cutting, glass sizing, and low volume production cutting. For cutting ACM and Aluminum Sheet materials, inquiry about Fletcher's FSC Heavy Duty Cutter.

See pages 38 &39 for part number and specifications.



#### **Hand Held Glass Cutters**

#### Available with wheel angles ranging 114° to 145°

Fletcher's handheld glass cutters are designed and manufactured for use in float plants, glass fabrication, glazing and hardware. Several varieties are available including cutters with steel or carbide wheels, with or without oil.

See pages 58 & 59 for part number and specifications.



running and breaking pliers. This tool is designed with interchangeable jaws that easily convert from breaking pliers to running pliers. Pliers break-out or nip glass up to ¼" (6.35mm) thick.

See page 59 for part number and specifications



# **Blister Packaged Wheel, Axle & Insert Assemblies**

Blister packaging provides easy identification of components at the process line and for inventory control. Pre-assembled wheel holder/axle/cutting wheels provides easier handling versus individual components for process line operators.

Products are easily separated due to perforations; 25 products per card and 100 per carton easy storage.







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INTERCHANGEABLE CUTTING HEADS | DUAL CUTTING/TRIMMING | FLEXIBLE/ RIGID MATERIALS | 3-POSITION CUTTING TURRET





www.fletcher-terry.com 800.843.3826 Cutting solutions for digital prints, banners, canvas, matboard, aluminum composite materials, foam board, acrylics, corrugated plastics, glass and PVC.

Fletcher offers a wide variety of material cutters to suit your needs. Available options include table-top, free-standing and wall mounted. These cutters handle flexible and semi-rigid substrates with a range up to 65 inches.



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#### **In-store Service Revenue Opportunity**

Purchase and pay-off your 3000 Cutter in 9 to 12 months and begin earning a profit based on low investment machine cost and small store footprint.

The chart illustrates the combined cutting of acrylic and glass services resulting in a ROI after the first 9 to 12 months.

# **3000 Multi-Material Cutter**

#### **VERSATILE WALL CUTTER | INTERCHANGEABLE CUTTING HEADS**

Features a 3-position cutting turret containing a glass scoring wheel, scoring tip for scoring acrylic materials and a cutting blade for picture frame matboard and foam board materials up to 1/4"(6 mm). A ramping feature allows the lifting of the scoring wheel on the top edge of glass resulting in a cleaner edge break when scoring glass. Handles material sheets up to 60" high (152 cm). Mounts on wall or freestanding installation.

#### **Unique Performance Features**

- Patented Glass Cutting Turret: Has a ramping feature that allows the lifting of turret device on top edge of glass resulting in a cleaner edge break
- Wall-mounted or free-standing
- Cutting Head: Rides on high tensile strength steel, hard chrome plated and polished, resulting in smoother gliding action for consistent cutting head performance and longevity.
- Vertical Bars: Rails do not bend or flex during the cutting process for straight, accurate cutting over the entire substrate height.
- Material Clamping System: Patented lever-type clamping system that secures in place various substrate heights up to 60" (152cm) to prevent buckling and shifting of material during the cutting process.

#### 3000 60" WALL-MOUNTED CUTTER TECH SPECS & DIMENSIONS

PRODUCT	PART	CUTTING CAPABILITIES			
PRUDUCI	NUMBER	substrate	in	mm	
		Glass	Up to 1/4"	6 mm	
3000 Multi-Material Cutter	04-712 60" 04-711 48"	Mirror	Up to 1/4"	6 mm	
		Acrylic	Up to 1/4"	6 mm	
		Matboard	4, 8, 1	2 ply	
		Cardboard	Up to 1/4"	6 mm	
		Foamboard	Up to ¼"	6 mm	

Go to our website for more information

	S	IZE
SPECIFICATIONS	60"	cm
Height	73"	185 cm
Width	73"	185 cm
Depth	11.64"	30 cm
Weight	70 lbs	32 kg
Cut Capacity	60"	152 cm
Wall Space	37 sq ft	3.38 sqm
Shipping Weight	80 lbs	36 kg

Break-out mechanism for acrylics





See how easy it is to score glass, acrylic and more

#### 3000 Cutting Accessories

#### **3-Position Turret**



Replacement Turret P/N# 36-016 All Blades/Tips sold separately

#### **Glass Scoring Wheel**



P/N# 02-120

#### **Mat/Foam Board**



Replacement Blades P/N# 05-001

#### **Acrylics | Plexiglass**



Replacement Scoring Tip P/N# 05-712



Requires no team lift and boxed unit is easily movable with hand truck



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PROFIT Year One Year Two

Based on cutting 120 pieces of glass (24" x 30") per year

Industry average based on this scenario

Based on cutting 180 pieces of acrylic (24" x 30") per year

# Vertical rail does not flex or bend, providing straight, accurate cutting over the entire material height.

# 3100 Multi-Material Cutter

#### **VERSATILE WALL CUTTER | INTERCHANGEABLE CUTTING HEADS**

Versatile wall cutter designed with an interchangeable cutting head platform that uses multiple cutting blades, scoring tips and cutting wheel holders for cutting and scoring a large variety of materials. Handles material sheets up to 63" high (1.6m) and features an acrylic breakout function. Mounts on wall or freestanding installation.

#### **Unique Performance Features**

- Interchangeable Cutting Head Technology supports a variety of material cutting
- Cuts clean debris-free, no secondary processing
- Optional laser sight line for accurate cutting
- Cutting head rides on high tensile strength chrome-plated and polished steel for smooth gliding and consistent cutting
- Patented lever-type clamping system that secures substrates in place

#### 3100 WALL-MOUNTED CUTTER TECH SPECS & DIMENSIONS

PRODUCT	PART	CUTTING Capabilities			
	NUMBER	substrate	in	mm	
	04-715	Plastics & Acrylics	Up to ¼"	6 mm	
		Gator Board	Up to ½"	13 mm	
3100 Multi-Material Cutter		Aluminum Sheets	Up to .040"	-	
		MDF	Up to 3/32"	2.4 mm	
		ACM	Up to .078"	2 mm	
		Glass	Up to ¼"	6 mm	

DIMENSIONS					
in cm					
Wall Mounting Length: 78"	198 cm				
Wall Mounting Width: 80"	203 cm				
Stand Mounting Height: 92"	234 cm				
Stand Mounting Width: 84"	213 cm				

#### 3100 Interchangeable Cutting Heads

#### Plastics | Acrylics



Holder P/N# 12-213 Replacement Blades P/N# 05-712

#### **Gator Board**



Holder P/N# 12-211 Replacement Blades P/N# 05-004

#### **Aluminum Sheets**



Holder P/N# 12-224 Replacement Wheels P/N# 05-716

#### MDF



Holder P/N# 12-212 Replacement Wheels P/N# 05-715

#### Glas



Holder P/N# 12-214 Replacement Scoring Wheels P/N# 02-120

# Double Blade Pillar Post PVC Materials



Holder P/N# 12-225
Replacement Blades P/N# 05-711



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3100 pillar post

See a demo of cutting many materials

#### **FSC** Interchangeable **Cutting Heads**

#### Aluminum Composites (ACM)



Holder with Wheels P/N# 04-771 Replacement Wheels P/N# 05-223



Holder with Wheels P/N# 04-772 Replacement Wheels P/N# 05-224

#### Corrugated Plastics | PVC | Foamboard



Blade Holder (1/2") P/N# 04-120 Blade Holder (1/4") P/N# 04-770 Replacement Blades P/N# 05-222

#### **Acrylics | Plexiglass**



Holder P/N# 04-773 Replacement Scoring Tip P/N# 05-712

#### Glass | Mirrors



Holder P/N# 04-774 Replacement Scoring Wheels P/N# 02-120

#### **ACM V-Groove Tool**



Blade Holder with (2) Blades included P/N# 04-779 Replacement Blade P/N# 05-233

# FLETCHER

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**Material Cutting & Finishing** 

#### **FSC Multi-Material Cutter**

#### **HEAVY DUTY WALL CUTTER | INTERCHANGEABLE CUTTING HEADS**

Heavy-duty cutter designed with an interchangeable cutting head platform that uses multiple cutting blades, scoring tips and cutting wheel holders. Includes a V-Groove cutting tool used with ACM material to allow bending and fabrication techniques. Cutter handles material sheets up to 65" high (1.65m), includes a laser sight line for cutting pre-printed graphics and is equipped with a twin handle cutting head for operator control and dexterity. Mounts on wall or free standing installation.

#### **Unique Performance Features**

- Interchangeable Cutting Head Technology supports a variety of material cutting
- Cuts clean debris-free, no secondary processing
- Optional laser sight line for accurate cutting
- Can be in the same room as printer, saving valuable floor space
- Patented lever-type clamping system that secures substrates

PRODUCT	PART	CAPABILITIES				DIMENSIONS/ WEIGHT	
	NUMBER	substrate	in	mm	in	cm	
FSC Multi-Material 04-720 Cutter		Aluminium Composites	-	Up to 4 mm	Wall Mounting Height: 100"	254 cm	
	Aluminum Sheets	Up to .063"	-	noight. 100			
		Corrugated Plastics	Up to ½"	13 mm	Wall Mounting Width: 80"	203 cm	
	04-720	PVC	Up to ½"	13 mm			
	04-720	Foamboard	Up to ½"	13 mm	Stand Mounting		
		Acrylics	crylics Up to ¼" 6 mm	Height: 92"	236 cm		
		Glass/Mirrors	Up to ¼"	6 mm	Stand Mounting		
		MDF	Up to 3/32"	2.4 mm	Width: 80"	203 cm	





Part # 04-779

V-Groove Cutting Tool for ACM

Adjustable cutting depths from 1 to 5mm





#### **2200 Tabletop Cutter**

#### **DECORATIVE BEVEL AND V-GROOVE MATBOARD CUTTER**

Professional level mat or mount board cutter for creating bevels and producing V-Grooves as decorative features and finishes in matboard up to 4-ply. Features a dual cutting feature for matboard specialty cutting or a 90° cutting feature for sizing matboard or cutting of foamboard up to 1/2" (13mm). Available machine sizes, 48" (1.2m) or 60" (1.5m).



PRODUCT	PA Num			CUTTING Capabilities		DIME	NSIONS
	imperial	metric	substrate	in	mm	in	cm
	04-681	04-687	Matboard 7	d Up to 4 ply - 48"	48"	1.2 m	
2200 Decorative Bevel				11 1 4 (01)	40		
& V-Groove Matboard Cutter 04-682		Foamboard	amboard Up to 1/2"	13 mm			
	04-682	04-688	Cardboard	Up to 1/2"	13 mm	60"	203 cm



#### Part # 04-900

Fletcher Fillet Chopper A unique finishing tool that enables you to cut fillets to add a decorative appearance to any framed art pieces. (Replacement Blades Part # 05-700)



### **Retail Matting Opportunities for:**

CUSTOM FRAME SHOPS | SIGN/GRAPHICS COMPANIES PHOTOGRAPHY STUDIOS I SMALL BOUTIQUES QUICK PRINTERS | ARTS & CRAFT SHOPS



See a demo of 2200 Tabletop Cutter

#### 2200 **Accessories**



**Mat Clamp Lifters** 



P/N# 04-631



**Mat Blades** 

P/N# 04-630





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Hanging Hardware Systems

www.fletcher-terry.com 800,843,3826 Solutions for hanging grouped artwork canvas wraps, mirrors, wall décor, and displaying tabletop POP signage, photographs or awards

We offer products for hanging and displaying a variety of artwork and wall décor. These hardware systems provide methods to hang items securely, easily and can help create wonderful wall collages. Our Picture Perfect No-Wire products are available in retail packages and bulk

packaging for wood and metal frames weighing up to 100 pounds. Our Albin EaselMates enhance the look and functionality for all tabletop artwork and graphic displays. Each of the three finishes-black, silver and vintage antique is offered in multiple piece package configurations.



Revenue and profit generator for OEM's online retailers

Customized packaging and private label opportunities

Consistent product quality and quick turnaround fulfillment

Packaging options and product count configurations for single or bulk kits

> Pre-assembled hanging hardware – labor savings due to fast installation



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# **Picture Perfect - No-Wire Hanging System**

# FRAMED ART PIECES | CANVAS PRINTS | METAL MOULDING | MIRRORS SHADOW BOXES | WALL DÉCOR | SIGNAGE

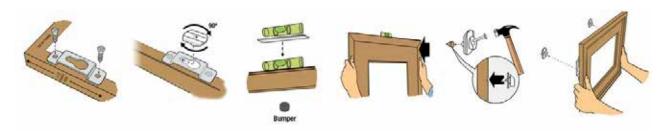
Safely hang framed artwork, mirrors and wall décor up to 100 lbs through the use of a standard or heavy duty type system. Used with wood, metal or plastic frames, and is a great method for hanging framed canvas artwork. Wall décor remains level, safe and permanently secure without the use of traditional D-rings, wire or saw tooth hangers. All that's required is a hammer and a phillips head screwdriver.

#### **Product Features**

- All-in-one kit includes everything you need for easy mounting, leveling and hanging
- Perfect for professional installers, commercial applications and DIY enthusiasts
- Patented "No-wire" hanging system minimizes wall damage
- Holds up to 50 pounds safely and secure (heavy duty available for up to 100 lbs)
- Great for wall art collections, gallery walls, wall displays and grouped art hanging
- Get a high-end gallery appearance with frames that slightly "float" off the wall
- Easily switch up your décor with minimal damage to walls







Attach level and bumper



Attach brackets

Bulk packages (25 or 100 frames) - Up to 100 lbs



Press to mark wall

Nail marker into wall

Many different configurations for retail or OEM requirements. Please see our website for part numbers and packaging options.



Hang artwork

See how easy it is to use No-Wire

# Typical uses include:

Framed Artwork

Photos

Acrylic Mounted Artwork

Printed Signage

Diplomas & Awards

Framed Canvas Artwork

Table-Top POP Graphics & Signage

# EaselMate™

FRAMED ARTWORK | PHOTOS | ACRYLIC MOUNTED ARTWORK | PRINTED SIGNAGE DIPLOMAS & AWARDS | FRAMED CANVAS ARTWORK | TABLE-TOP | POP GRAPHICS

EaselMate is a decorative display easel enhancing the look, appearance and functionality for all tabletop artwork and graphic displays. Offered in three different finishes of black, silver and vintage antique and used with wood or metal moulding, this modern looking easel is made from A3 steel material and handles framed sizes up to 12" x 16". The product package includes hardware for wood and metal frame mounting. Great for home, offices, business reception areas, and retail POP Displays.

 EaselMate<sup>™</sup> comes in black, silver and vintage antique colors to compliment the color and finish of the moulding material

• Each color is offered in 2-piece pack, 5-pack and 10-piece package

• Extends out 3" from the back of the frame minimizing table space

• Easily removes from frame for packing and shipping



#### **EASELMATE™ SPECIFICATIONS**

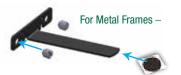
PRODUCT Description	PART Number	USES	PACKAGE QUANTITY
	09-300	Wood/Metal	2 pcs / pack - (Individual Package)
	09-301	Wood/Metal	12 pcs/ box (Bulk Package)
EaselMate™	09-302	Wood/Metal	24 pcs/ box (Bulk Package)
Display Easel	09-303	Wood/Metal	48 pcs/ box (Bulk Package)
Finishes of black, silver and	09-304	Wood/Metal	100 pcs/ box (Bulk Package)
vintage antique	09-305	Wood	2 pcs / pack - (Individual Package)
Handles framed sizes up to	09-306	Wood	12 pcs/ box (Bulk Package)
12" x 16"	09-307	Wood	24 pcs/ box (Bulk Package)
	09-308	Wood	48 pcs/ box (Bulk Package)
********	09-309	Wood	100 pcs/ box (Bulk Package)



Contact Customer Service for part number and packaging options for silver and vintage antique brass.

#### Attaches to Wood or Metal Frame





# FrameStrap™

#### **METAL OR WOOD FRAMES**

A professional, economical method of keeping medium to large frames rigid, eliminating the risk of glass breakage due to bowing of the frame when handled. Works with both metal and wood framing projects.

When used in conjunction with Fletcher Picture Perfect — No Wire Hanging product for metal, makes a complete system for adding value to your framed artwork or poster.



#### FRAMESTRAP™ SPECIFICATIONS

PRODUCT Description	PART Number	USES	PACKAGE QUANTITY
EromoCtronTM	09-321	Wood/Metal	1 pcs / pack - (Individual Package)
FrameStrap™	09-322	Wood/Metal	12 pcs/ box (Bulk Package)



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Close-up of FrameStrap™ and Picture Perfect - No-Wire Hanging System

#### What Markets Do We Serve



**OEM Picture Framing** 



**Retail Online Framing** 



Hospitality



Sign & Graphics



Glass, Mirror & Glazing



Woodworking



For a copy of our catalog email: sales@framewareinc.com or view our digital file.



**Hanging Hardware Systems** 

www.framewarellc.com 800.582.5608

# FRAMEWARE

#### **Hanging Hardware Systems**

Frameware is one of the most respected US manufacturers and distributors of high-quality hanging hardware products serving multiple industries. Operating out of a 25,000 square foot manufacturing and warehousing facility, Frameware offers product distribution services, bulk packaging of hardware components, private label and custom packaging services, and product sourcing expertise.

Frameware's key hanging products are off-set clips, Heavy Duty Cleats, picture hanging wire and strap hangers, and security hardware kits for hospitality and other business facilities requiring safe, secured hanging.

Frameware's business philosophy for over 35 years is to set and lead the industry standard in terms of product quality and performance for its hardware line of products.

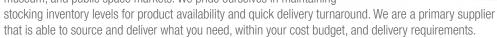
#### **Custom Packaging and Private Label**

Frameware offers custom packaging solutions for the OEM and online retailers allowing them to attach hardware kits as part of their finished products. It can be simply a functional clear bag with printed instructions, or the package can be private labeled bringing additional value to your end consumer. Being a US manufacturer, we have the ability of supplying both smaller and larger quantities which can be difficult to source from other off-shore suppliers.



#### PROFILES Your Aluminum Profile Source

Frameware specializes in quality aluminum picture frame moulding and offers both standard and custom profiles for framing OEM's in hospitality, museum, and public space markets. We pride ourselves in maintaining



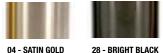
Custom Aluminum Moulding Profiles - All Profiles available in the following finishes unless otherwise specified:













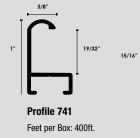


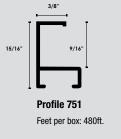
Feet per Box: 560ft.

1" | 17/3:

Available finishes:

Satin Silver, Satin Black





Frameware Heavy Duty Cleat - The hospitality industry's most specified cleat. They are made with heavy duty aluminum, which makes them more durable when extra security is needed and safer for heavier installations. They're predrilled 4" on center with elongated holes for easy leveling. Other sizes available.



PRODUCT	DESCRIPTION	PART NUMBER	LENGTH	NUMBER OF HOLES	MAX WEIGHT
	422 - Heavy Duty Cleat	422-12	12"	3	100lbs.*
	Heavy duty cleats, when properly installed*, are rated for 100 pounds per foot and sit tight	422-24	24"	6	200lbs.*
	against the wall. This helps to prevent thieves and vandals from getting their hands or fingers behind the frame, making it exceptionally difficult to	422-36	36"	9	300lbs.*
	remove the frame from the wall.	422-48	48"	12	400lbs.*
	522 - Heavy Duty Offset Cleat In addition to the industry standard heavy duty cleat, Frameware offers a cleat with a deeper offset. This offset is designed for more challenging installations where uneven walls or surfaces may be present. Holds up to 75lbs. per foot when properly installed*.	552-60	60"	28	375lbs.*
		552-120	120"	58	750lbs.*
	Heavy Duty Cleat - Retail Pack  This system is prepackaged with screws and anchors and is designed to hang one frame with proper installation*. Poly bags include: 2 cleats of your desired length, screws and anchors to complete one frame. Custom sizes available upon request.	PB422-12	12"	3	100lbs.*
		PB422-24	24"	6	200lbs.*
1		PB422-36	36"	9	300lbs.*

\*Proper installation includes securing to a stud when possible /using the proper wall anchors

**The Frameloc® System -** This system completes your installation with Heavy Duty Cleats by adding a Security Tee Screw to lock your frame to the wall, keeping your artwork safe from damage or theft. Great for hotels, hospitals, restaurants and other public space applications. Other Security Hardware available



PRODUCT	DESCRIPTION	PART NUMBER	PART DESCRIPTION
	The Frameloc System for Wood*  Poly bags contain hardware for both wall and frame, enough for one frame.  Requires a Security Wrench (part #423), sold separately.  Bulk packs contain hardware for both wall and frame, enough for 100 frames. Includes (1) Security Wrench (part #423) and (1) Bubble Level (part # 900L)	BPW3	Bulk Pack for (100) Wood Frames under 18"
7777 0000	*Also available for metal frames in Polybag and bulk packaging Separate Tee Screw w/Mounting Bracket Polybag is also available	BPW4	Bulk Pack for (100) Wood Frames over 18"

**Three-Point Security System -** The Three-Point Security System is a less expensive alternative to the Frameloc® System. Great for hotels, hospitals, restaurants and other hospitality services. Other Security Hardware available



PRODUCT	DESCRIPTION	PART NUMBER	PART DESCRIPTION
	Three-Point System for Wood*  Poly bags contain hardware for both wall and frame, enough for one frame.  Requires a Security Wrench (part #423), sold separately.	PBS13	Poly bag for (1) Wood Frame
TIDDIT	Bulk packs contain hardware for both wall and frame, enough for one hundred frames. Includes (1) Security Wrench (part #423).  *Also available for large wood and metal frames in Polybag and bulk packaging	BPS13	Bulk Pack for (100) Wood Frames

# **Security Hardware**











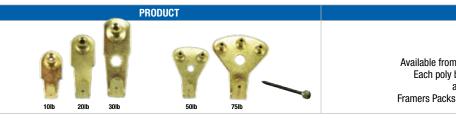




Wall Anchors Flat Wall Security Hanger

Brass Plated Hanger

#### **Brass Picture Hangers** - Brass plated picture hangers use a one inch knurled nail inserted at a 45° angle for added support. Poly bags are great for frame shop giveaways.



#### DESCRIPTION

#### **Brass Hangers**

Available from 10 lbs to 75 lbs individually and bulk packed. Each poly bag contains 1 brass hanger, required nails and thank you printed on the bag. Framers Packs contain 100 Brass Hangers and required nails.

#### Courtesy Hangers - Zinc plated picture hangers use a nail inserted at a 45° angle for added support. Poly bags are great for frame shop giveaway.



#### **Courtesy Hangers**

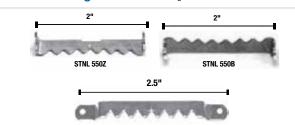
Available from 10 lbs to 100 lbs individually and bulk packed.

Each poly bag contains 1 Courtesy Hanger, required nails

and thank you printed on the bag.

Framers packs contain 1,000 Courtesy Hangers and required nails.

#### **Saw Tooth Hangers** - Saw Tooth Hangers for wood frames come in a variety of sizes and are fastened by screws, nails or staples.



#### **Saw Tooth Hangers**

Available in a variety of styles and sizes in silver or black finishes.

Packaged in kits, or loose bulk packaging.

#### **Corner Angles and Mending Plates -** Used to reinforce wood frames.



#### **Reinforcing Corner Angles**

Reinforcing 90° angle bracket; available with 1 ½" to 4" legs. Each bracket has counter sunk holes for use with #6 x 1/2" flathead screws.

#### Mending Plates

Come in straight, 90° angle, or "L" bracket variety

#### **Corrugated Cardboard Corners -** Corner protectors are an essential component for frame shops.



#### **Scrapless Corrugated Corners**

1 position, 2 position or 3 position varieties. Sold by the case (qty 100 or 200) or pallet (qty 12,000) Pallets are shrink wrapped during shipping.

#### Canvas Offset Clips - Used to secure a stretched canvas or other objects into a frame with a shallow rabbet.



#### Canvas Offset Clips - BULK & FRAMER'S PACK

They come with zinc plated finish and offered in one or two hole variety. Available in multiple sizes.

Frameware also sells a wide variety of screws. See our web site for more information.

#### Picture Frame Wire - Picture framing wire is an essential part of your frame, and Frameware offers all types of wire to meet your needs. Other wire sizes are available

PRODUCT	DESCRIPTION	WIRE SIZES
	Braided Wire  Braided wire is composed of strands of steel, making a very strong but flexible wire. The higher number wire, the more strands, increasing the wire diameter.	Wire sizes #2 through #8 available in a variety of lengths.
		Braided Wire on the FW1504 wire dispenser (sold separately,

PRODUCT	DESCRIPTION	PART NUMBER	MAX PICTURE WEIGHT	SPOOL LENGTH
	Super Softstrand	FPC-2	15lbs.	1500ft
- 1 T	Super soft, flexible vinyl wrapped stainless steel wire. "Finger-friendly" - smooth on your fingers and easy to twist.	FPC-3	20lbs.	1125ft
	Will retain its strength and not corrode.	FPC-6	60lbs.	275ft

**Picture & Mirror Hangers - BULK Packaging -** Picture and mirror hangers, also known as strap hangers, are a popular way to complete your frame. Once on the frame, use either braided wire or coated wire to hang on either a brass or standard courtesy hanger. Other sizes available

PRODUCT (4)	DESCRIPTION	PART NUMBER	PART DESCRIPTION
	Wide Strap Hangers	1707	1 Hole Wide Strap Hanger w/ Silver Finish
	Wide 1" strap hangers available with one, two, or	1709	2 Hole Wide Strap Hanger w/ Silver Finish
	three holes. #8 x 1/2" screw recommended.	1707B	1 Hole Wide Strap Hanger w/ Black Finish
1707 1709 1711	Available in silver or black finish.	1709B	2 Hole Wide Strap Hanger w/ Black Finish
	Narrow Strap Hangers	1716	1 Hole Narrow Strap Hanger w/ Silver Finish
	Narrow .600" strap hangers available with one, two	1715	2 Hole Narrow Strap Hanger w/ Silver Finish
	or four holes. #8 x 1/2" screw recommended. #6 screw	HDR	"D" Ring w/ Silver Finish
HDR HDR-Mini	recommended for the HDR, #4 screw for the HDR-Mini.	1716B	1 Hole Narrow Strap Hanger w/ Black Finish
1716 1715 1800	Available in silver or black.	1715B	2 Hole Narrow Strap Hanger w/ Black Finish

**Tape** - Tape is priced by the roll and can be purchased by the box quantity of 12. Other tapes available

PRODUCT		DESCRIPTION		PART NUMBER	PART DESCRIPTION
10	250	Acrylic Adhesive     • Reverse wound on 1" plastic core     • 2.0 mils thick with no liner     • Equivalent to 3M® No. 924		250712-36	1/2" x 36yds
W	ATG Tape	Clear color	- Equivalent to Sivi No. 324	250734-36	3/4" x 36yds
-	450			1561218	1/2" x 18yds
600	<ul> <li>156</li> <li>Super Sticky</li> <li>ACTION ATG Tape</li> <li>ACTION ACTION AND ACTION ACTI</li></ul>	•	1561260	1/2" x 60yds, handheld (3" core)	
		1561418	1/4" x 18yds		
-	•		,	1563436	3/4" x 36yds
1	410 Archival	<ul><li>Solvent based Acrylic</li><li>4.33 mils thick with no liner</li></ul>	·	FW41012D	1/2" 36yds Archival ATG Tape, (1" core
	ATG Tape	Ol l bandhald andiation	FW41012H	1/2" 36yds Archival ATG Tape, (3" core	
	ATG-2 2 Hand Held Tape Dispenser	tape. Works with 36 and 60	removes tape liner as it dispenses the yard rolls. Holds all 36 and 60 yard tape liner as it dispenses tape.	ATG-2B	Handheld Tape Dispenser for 36 or 60 Yard Rolls
P	No. 700 Adhesive Transfer Gun	Holds all 36 and 60 yard ATG tapes. Collects the tape liner as it dispenses tape.		3M-700	3M Handheld Tape Dispenser for 36 or 60 Yard Rolls

**The Original Plastibond** – The strongest bonding adhesive in the industry! A low odor adhesive specially formulated for the NEW plastic mouldings. This environmentally safe glue is solvent free - sets up in 45 seconds and dries clear. Other adhesives available

DESCRIPTION		PART NUMBER	PART DESCRIPTION
	Distributed for Asia of Land (Distribute)	Plastibond 15-1	1 oz. Bottle
	Plastibond for Asian/Imported (Blue Label) For mouldings with low moisture content.	Plastibond 15-8	8 oz. Bottle
	Tor modulings with low moisture content.	Plastibond 15-16 16 oz. Bottle	
	51 III I 5 II 15 II 16 II 16	Plastibond 1	1 oz. Bottle
	Plastibond for English/Domestic (Green Label) Specially formulated for English Plastic Mouldings.	Plastibond 8	tibond 8 8 oz. Bottle
	operany formulated for English reladed Modulings.	Plastibond 16	16 oz. Bottle







www.fletcher-terry.com 800.843.3826 Manual and pneumatic finishing solutions including point drivers, hand tools and decorative fillets

Fletcher-Terry provides several product options for frame assembly and finishing. Whether the need calls for the flexibility of changeable art or permanent art, we have the solutions. For higher volume requirements, we have our pneumatic tools. Points are available in several different packaging configurations from two thousand to several thousand per box. Fletcher's Points and Drivers are well regarded for their reliability, longevity and getting the job done.

Points and Drivers

Our fastener point technology provides finishing solutions with Flexible Tab Points (changeable artwork)
Permanent Points Multi-Point for Javered and liner moulding and glazier points for window from Permanent Points, Multi-Point for layered and liner moulding and glazier points for window frame applications.

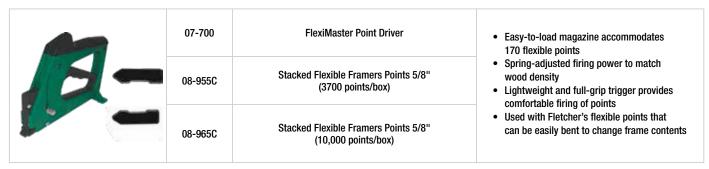
#### FrameMaster® (Permanent Artwork Assembly)

#### PERMANENTLY HOLDS IN PLACE: GLASS | ARTWORK | PHOTOGRAPHY | BACKING MATERIALS

PRODUCT	PART Number	PART DESCRIPTION	PERFORMANCE FEATURES
	07-500	FrameMaster Point Driver (plain box)	Fires perfectly flat into frame
	07-555	FrameMaster Point Driver (with P.O.S. sleeve)	<ul> <li>Precision firing, no jamming or double feeding</li> <li>Spring-adjusted firing power to match</li> </ul>
	08-950C	Stacked Framer Points 5/8" (3000 points/box)	wood density  Easy-to-load magazine holds 100 points for reduced down time
	08-915	Framers Points Bulk Pack 5/8" (2000/box)	Used with Fletcher's     Framers Points
	08-911	Framers Points Blister Pack (200 points/card; 10 cards/case)	

#### Flexiiviaster® (Changeable Artwork Assembly)

#### SECURELY HOLDS IN PLACE: GLASS | ARTWORK | PHOTOGRAPHY | BACKING MATERIALS



# MultiMaster® (Changeable Artwork Assembly)

#### PERFECT FOR ATTACHING MULTIPLE MOULDINGS OR LINERS, STACKED IN THE SAME FRAME







#### Pneumatic FrameMaster® & FlexiMaster® (Artwork Assembly)

#### BEST SUITED FOR PRODUCTION FRAMING ASSEMBLY

PRODUCT	PART Number	PART DESCRIPTION	PERFORMANCE FEATURES	
The state of the s	07-300	Pneumatic FrameMaster	Fires tight and flat to the surface providing superior holding power	
	07-400	Pneumatic FlexiMaster	<ul> <li>Used with Framer's Points in stacks of 250 points and Flexible Framer points in stacks of 425 points</li> </ul>	
	08-985C	Pneumatic FrameMaster Points (12,000/box)	No "pull-back" required; slide point driver along moulding for continued firing     Ergonomically designed trigger eliminates	
	08-995	Pneumatic FlexiMaster Points (12,000/box)	hand fatigue	

# GlazierMaster® (Window Glazing)

#### FIRES PERFECTLY FLAT INTO WINDOW FRAME FOR HOLDING GLASS



- Fires perfectly flat into window frame
- · Precision firing, fires one point at a time . Tension adjustment allows you to
- tweak firing power · Easy to load magazine holds 100 points for reduced down time



# FrameMate® | PushMate | PullMate | SpringMate

#### HAND-TOOLS FOR POINT INSERTION AND REMOVAL





Designed for inserting Fletcher push points, triangle and diamond points into wood and window sashes



Specifically designed to remove Fletcher Framer's Points from wood frames. The raised grip helps protect mats and other backing material.



Inserts and removes spring clips from metal frames. The slotted tip prevents slipping and damage to the frame and backing materials.



**ARTS & GRAPHIC MATTING | HOBBYIST** DIGITAL PRINT & PHOTO LABS | PROFESSIONAL ARTIST **CUSTOM PICTURE FRAMER | SIGN FABRICATORS** 



**Hand-Held Tools** Fletcher's branded hand-tool line consists of industrial hand-held glass cutters, Running and Nipping Pliers for glass applications, and HD Plastic & Tile Cutters.

#### Gold-Tip® Glass Cutters - Steel Wheel

# Gold-Tip® Glass Cutters - Carbide Wheel

#### FOR CUTTING ALL THICKNESS OF GLASS

PART NUMBER	PART DESCRIPTION	
01-111	120° Die Cast, Straight End (box)	
01-115	130° Die Cast, Straight End (carded)	•
01-118	120° Die Cast, Ball End (box)	
01-119	120° Die Cast, Ball End (Spanish pkg)	
01-122	130° Die Cast, Ball End (carded)	
01-128	114° Die Cast, Ball End (carded)	
01-131	122° Die Cast, Straight End (box)	
01-826	130° Die Cast, Ball End (box)	
01-827	130° Die Cast, Ball End (bulk)	
01-833	130° Die Cast, Ball End (Spanish pkg)	
01-835	130° Die Cast, Ball End (Spanish pkg, bull	()

#### FOR CUTTING ALL THICKNESS OF GLASS

	PART NUMBER	PART DESCRIPTION	
	01-213	124° Die Cast, Straight End (box)	
Cast from superior grade steel for durability and longevity Features "Classic" contoured comfort grip handle in straight or ball end styles Cutting wheel comes in a variety of angles for cutting all types and thickness of glass	01-219	124° Die Cast, Ball End (box)	
	01-220	134° Die Cast, Ball End (box)	
	01-228	114° Die Cast, Ball End (box)	
	01-229	124° Die Cast, Ball End (box)	
	01-266	148° Die Cast, Ball End (box)	
	01-216	114° Die Cast, Straight End (carded)	
	01-840	134° Die Cast, Ball End (carded)	
	01-841	134° Die Cast, Ball End (box)	

#### ScoreMaster® Oil Cutter

#### PENCIL GRIP OIL CUTTER DESIGNED WITH CHANGEABLE WHEEL/AXLE HEAD

PART DESCRIPTION
ScoreMaster II Fluid Dispensing Cutter, 140°
Narrow Head, 140°, Box of 10 Carded
Narrow Head, 114°, Box of 10 Carded
Wide Head, 140°, Box of 10 Carded
Wide Head, 154°, Box of 10 Carded

• The ScoreMaster® II features an oil dispensing system that produces a continuous, even flow of oil along the score line

PERFORMANCE FEATURES

 Available in a blister-type package and shipped (10) pieces per case

Wheels sold separately, contact Fletcher's Customer Service at 800.843.3826 for availability and wheel options

# **Designer II Fluid Dispensing Glass Cutters**

#### SOLID BRASS AND PLASTIC CONTOUR HANDLE CUTTERS INCLUDE A TAPPING BALL FOR EASY BREAK OUT OF GLASS

PART NUMBER	PART DESCRIPTION	PERFORMANCE FEATURES
01-711	Clear Plastic, Narrow Head, Pencil Grip, 140° Carded (1 per card; 10 cards per case)	
01-712	Solid Brass, Wide Head, Pencil Grip, 140° Carded (1 per card; 10 cards per case)	
01-714	Clear Plastic, Narrow Head, Pistol Grip, 140° Carded (1 per card; 5 cards per case)	
01-716	Clear Plastic, Wide Head, Pencil Grip, 140° Bulk Pack (10 packs/case)	

# FLETCHER **Material Cutting & Finishing** www.fletcher-terry.com 800.843.3826



### CircleMate II\* - 3-Wheel Replacement Turret

#### **CIRCLES AND STRAIGHT LINE GLASS CUTTING**



3-wheel Replacement Turret

- Max glass thickness of 1/4" (6.35 mm)
- Scores perfect circles from 3" to 28"
- Diameter scale markings in English and metric

\*CircleMate II is discontinued

# **ScoreMate - Heavy Duty Plastic & Tile Cutters**

#### **DESIGNED FOR SCORING ACRYLICS AND TILE**



- . Designed for scoring acrylics and tile up to 1/4" (6.35 mm) thick
- · Ergonomically designed comfort grip handle
- Replaceable scoring blades available
- Each cutter is available in a blister-type package and shipped (10) pieces per case

# **Running and Nipping Pliers**

#### DESIGNED FOR BREAK-OUT OR NIPPING GLASS UP TO 1/4" (6.35 MM) THICK



- . Made from lightweight plastic
- · Pliers easily convert from a nipping tool to a running (break-out) tool using interchangeable jaws
- Each size is available in a blister-type package and shipped (10) pieces per case
- · See website for jaw insert part numbers





www.fletcher-terry.com 800.843.3826

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3100 MULTI-MATERIAL WALL-MOUNTED CUTTER
AF-500 FRAME JOINER ROBOT
AG-2000 AUTO GAUGE-CUT MEASUREMENT SYSTEM FOR DBL MITER SAWS15
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# FRAME BUILDING TECHNOLOGY **SOLUTIONS**





**AUTOMATION** 

























#### **FBG PRODUCT BRANDS & SOLUTIONS**

Fletcher Business Group (FBG) is comprised of major globally recognized brands providing quality products, equipment and consumables to the market segments of Custom and OEM Picture Framing, Sign & Digital Graphics, Hardware, Woodworking and Glass Float & Fabrication Industries.

www.fletcher-terry.com

#### **Company Locations – Manufacturing and Warehousing Operations**

**Corporate Headquarters Fletcher Business Group** 

91 Clark Drive East Berlin, CT 06023 USA 860.828.3400

> Hanging & Security Hardware

Frameware, LLC 8 Audrey Place, Fairfield, NJ 07004 973.808.2022 North America Manufacturing and Warehousing

The Fletcher-Terry Company, LLC East Berlin, CT 06023 USA 800.843.3826

Saw Blade Design & Sharpening Services

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