

2013-2014 METALLOGRAPHIC MACHINE CATALOG



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Precision Surfaces International, Inc.

For over thirty years, Precision Surfaces International, Inc., has been a leader in supplying a full range of products for metallographic sample preparation and superfinishing. Our business model is simple: to give our customers great customer service, quick delivery and excellent products at competitive prices.

Starting from our home market of Houston, Texas, we have expanded to include customers throughout the U.S. and in many international markets. We continue to focus on constant product improvement and new product development. All our equipment is manufactured in an ISO 9001 certified factory, adhering to the strictest quality standards. We look forward to working with you, and to providing you with the best possible materials for your application.



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***We appreciate your business.
Our prosperity and very existence
is totally dependent on our
customers' goodwill.***



AS A CUSTOMER OF PSI, WE WOULD LIKE YOU TO KNOW:

1. Your complete satisfaction is our primary goal
2. You are always assured of receiving the finest quality products available.
3. Your purchasing convenience is an important part of our service. You may fax your order any time of day to (713) 426-2223. You can also email your order to psiorders@psidragon.com or order through our store at www.psidragon.com.
4. You are assured of receiving the best prices possible.
5. Your order will be processed quickly and efficiently.
6. Prices are subject to change. You will be advised of any price change at time of order.
7. Orders are shipped FOB (Ex-Works) PSI's facility in Houston, Texas. We can either prepay and add the freight charges to the invoice, or ship collect if you will give us your shipping information.
8. Our payment terms are Net 30 Days, with approved credit.
9. We accept VISA, MasterCard, American Express and Discover charge cards.



All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties expressed or implied: Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacture shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability in connection therein. No statement or recommendation not contained herein shall have any force or effect unless in an agreement by officers of seller and manufacture.

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ABRASIVE CUTTERS



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The ALTOCUT CK series of abrasive cutters offer the user a line of robust cutters for use in the metallographic lab or the shop floor. We offer the CK series in medium-sized table top cutters up to large cutters, using 16" cutoff wheels.

CK SERIES



- Meter display load on motor during cutting
- Easy store magnetic spray gun for cleaning
- Several auto shut-off features to protect user
- Auto return at end of cut
- Joy stick or button control
- Cam lock vises included

Model No.	260	360	460
Motor Power	3hp/5hp	5hp/7.5hp	10hp
Max Cut	70/90mm	90/120mm	120mm
Cutoff Wheel	305mm	406mm	406mm
Wheel Speed	2500rpm	2500rpm	2500rpm

CK SERIES

Our smaller CK Series cutters are smaller versions of our larger cutters, with the same robust build, precision components and ease of usage. All come equipped to work right away, including a recirculating system and vises.

Model No.	200	200A
Motor Power	2hp	2hp
Max Cut	50mm	50mm
Cutoff Wheel	255mm	255mm
Feed Method	Manual	Auto

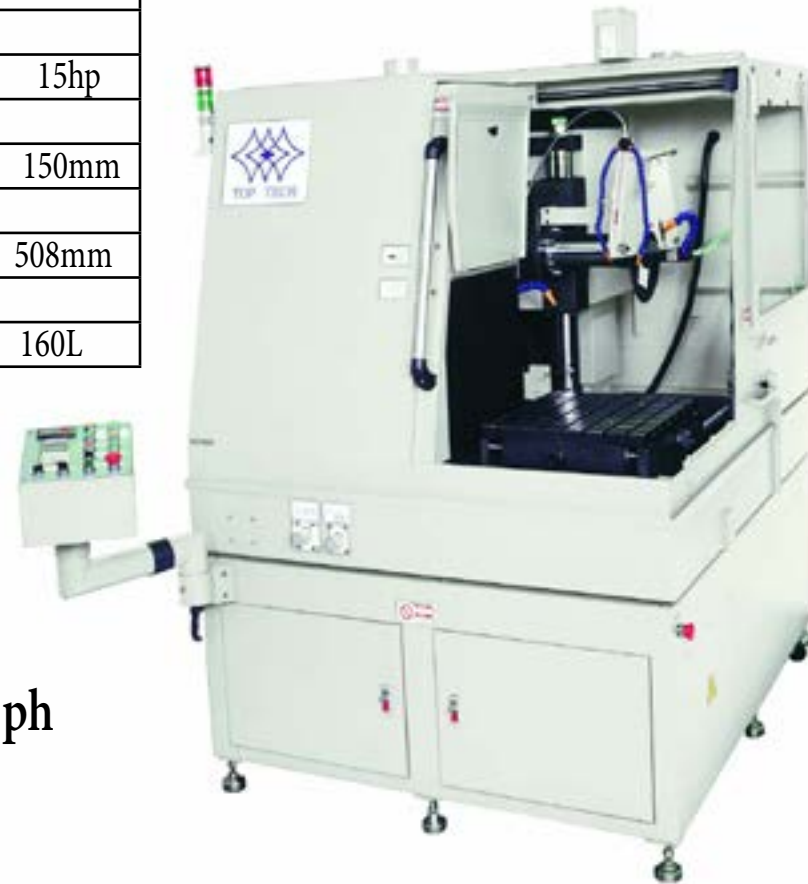


The ALTOCUT CF series of abrasive cutters are our largest cutters,, using blades as large as 20” (508mm) and able to handle long and heavy work pieces.

- Meter display load on motor during cutting
- Easy store magnetic spray gun for cleaning
- Auto shut-off features to protect user
- Auto return at end of cut
- Cam lock vises included
- Stainless steel T-slot bed
- Corrosion resistant construction
- Able to cut in Z axis

CF SERIES

Model No.	260S	360S	460S
Motor Power	3hp/5hp	10hp	15hp
Max Round Pc	70/90mm	120mm	150mm
Cutoff Wheel	305mm	406mm	508mm
Recirc Tank	120L	160L	160L



**For operation on
220/380/415/440V-3ph**

The ALTOCUT CT series of abrasive cutters offer the user a line of robust cutters for use in the metallographic lab or the shop floor. We offer the CK series in medium-sized table top cutters up to large cutters, using 16” cutoff wheels.

CT SERIES

Model No.	260	360	460
Motor Power	3hp/5hp	5hp/7.5hp	10hp
Max Cut	70/90mm	90/120mm	120mm
Cutoff Wheel	305mm	406mm	406mm
Wheel Speed	2500rpm	2500rpm	2500rpm

- Meter display load on motor during cutting
- Easy store magnetic spray gun for cleaning
- Several auto shut-off features to protect user
- Auto return at end of cut
- Joy stick or button control
- Cam lock vises included



CL-70 Manual Abrasive Cutter

The CL-70 is a compact and powerful, table-top manual abrasive cutter, that fits well into any metallographic or materials oriented lab. With a robust 3hp motor, the CL-70 is a workhorse that can hold up to continual heavy use.

- 3hp Motor
- Max Round Cut 70mm
- Cutoff Wheel 255mm
- Cutting Depth 260mm
- Wheel Speed 2500 rpm
- Feed Method, Manual
- Power 220V/3ph



PRECISION DIAMOND SAWS



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PRECISO CL40 LOW SPEED DIAMOND SAW

The PRECISO Low Speed Diamond Saw CL40 is perfect for the user needing to section delicate parts or materials with no deformation. Using ultra-thin diamond wafering blades, with continual lubrication, the CL-40 insures no burning or alteration of the surface.

- Adjustable speed 0-400 rpm
- Weight setting up to 400gm
- Wide variety of chucks available
- Takes a 3", 4" or 5" blade, with 12.7mm arbor
- Continual lubrication of blade

PRECISO CL50 HIGH SPEED PRECISION SAW

The PRECISO CL-50 High Speed Precision saw is easy to use and quiet. The CL-50 allows the user to precisely cut very thin sections with no deformation or burning. Controls are done from a color LCD touch screen. Easy to cut, zero and cut again. Horizontal movement up to 40mm.

- Adjustable speed 150-2000 rpm
- Loading pressure up to 700gm
- Wide variety of chucks available
- Takes a 3"-7" blade, with 1/2" (.5") arbor
- Continual lubrication of blade
- 120 Watt motor



MOUNTING PRESSES



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MOUNTING PRESSES

PRESIDON MANUAL PRESSES



PRESIDON manual mounting presses are robust, easy to use and quiet. Joy stick control allows for the effortless up and down movement of the ram. The powerful electro-hydraulic system makes for fast and silent application of pressure. Heating elements ranging from 1200W to 3200W, depending on the unit, ensure the rapid and complete melting of the mounting medium.

Model No.	MA	MA-E3
Sample Sizes	25mm/32/40/50mm	
Mount Quantity	1 pc/time	1-3 pc/time
Thermal	1200-1600W	2400-3200W
For operation on 220V-1ph		

PRESIDON AUTOMATIC PRESSES, ML SERIES



PRESIDON automatic mounting presses are robust, easy to use and quiet. The powerful electro-hydraulic system makes for fast and silent application of pressure. Heating elements ranging from 1200W to 3200W, depending on the unit, insure the rapid and complete melting of the mounting medium. Color LCD touch screen on all L models.

- Adjustable heating and cooling times
- Programmable memory
- LCD color touch screen on L models
- L2-E3 can do 6 samples simultaneously
- Powerful heating elements, ranging from 1200 for single mold to 3200 watts per mold for double.

MODEL NO..	B	B-E3	L1	L1-E3	L2	L2-E3
QUANTITY P/MACHINE	1	1-3	1	1-3	1	1-3 X 2
HEATING ELEMENT	1200/1600	2400/3200	1200/1600	2400/3200	2400/3200	4800/6400
MOLD SIZE	MOLD SIZE ON ALL MACHINES 25/32/40/50MM					

GRINDER/POLISHERS



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PLATO MANUAL GRINDER/POLISHERS, E SERIES

PLATO series of grinder/polishers offer the user an easy to use way to prepare samples in a low-volume lab. Robust, with low vibration and high torque, these machines are built to last. Available in 8", 10" and 12" machines, with single or double platen.



- Adjustable water pipe and spigot
- Overload protection on all units
- Low vibration
- Adjustable speed, 50-600rpm
- For operation on 110V or 220V, single phase

MODEL NO.	E-F	E-FR
GRINDING METHOD	Manual	Manual
NO. OF PLATENS	1	2
HORSE POWER	250W	250W
PLATEN DIAMETER	200/250/300mm	200/250/300mm X 2
For Operation on 110V or 220V-1 ph		

**TWO MOTORS, TWO PLATENS
INDEPENDENT CONTROLS**

E-FRD

- Manual grinder/polisher
- Two grinding or polishing platens
- Each platen is controlled independently
- Each platen is driven by a powerful 250W motor
- Variable speed, 50-600rpm
- Choice of 200mm, 250mm or 300mm platen

PLATO GRINDER/POLISHERS, ECONOMY SERIES

- Adjustable water pipe and spigot.
- Overload protection on all units.
- Low vibration
- Variable speed, 50-600
- For operation on 110V or 220V, single phase
- Digital Speed Display
- Patented spring system for holding up to five 32mm samples



MODEL NO.	HA-FS-A	HA-FRS-A
GRINDING METHOD	Auto	Auto
NO. OF PLATENS	1	2
HORSE POWER	250W	250W
PLATEN DIAMETER	200/250/300mm	200/250/300mm X 2

PLATO GRINDER/POLISHERS, R-SERIES

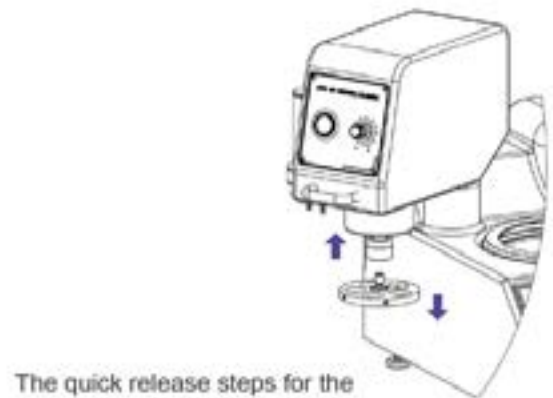
The PLATO R-Series of semi-automatic grinder/polishers are our top of the line machines for grinding and polishing multiple samples simultaneously. Among the many features offered are reversible sample holder and platen, touch screen controls, pneumatically applied individual pressure on the samples and a strong motor and gear box, giving the machine its needed torque. Machines available for used with 8" (200mm), 10" (250mm) or 12" (300mm).



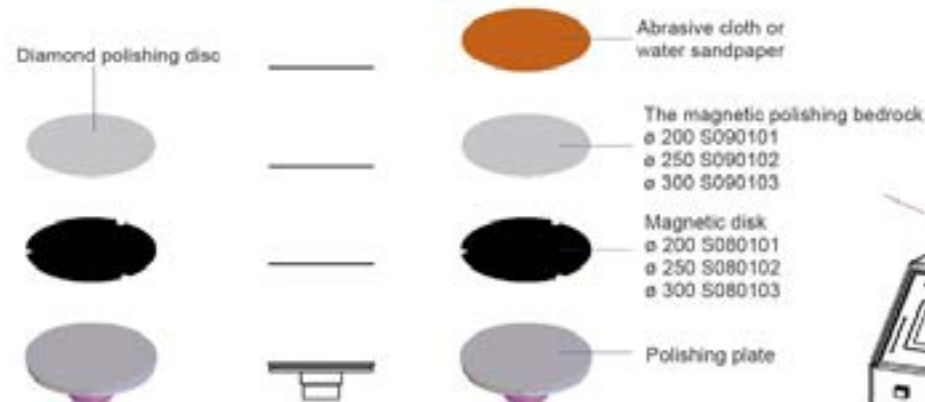
- Uses either individual pistons or central pressure
- Can do 1-5 samples simultaneously
- Platen sizes of 200mm, 250mm or 300mm
- Default sample size of 32mm; other sizes available (20, 25, 30, 40 mm or larger, special sizes available)
- Programmable for automatic operation
- Pressure display in Kg or Lbs.
- Reversible platen direction
- Powerful 1 HP motor
- For operation on 110V or 220V-1 ph



Option
MODEL NO.: P20Z06-R1



The quick release steps for the support plate of clamping apparatus



PLATO COARSE GRINDER, MP-SERIES

A robust machine designed to maximize material removal, and achieve flatness, in the initial preparation process. The M-P100M offers a number of great features, including:

- Two belts for high throughput
- Strong with low vibration
- Easy changing of belts
- Virtually maintenance free

MODEL NO.	M-P100M
Belt Size	4" (101.6mm)
Power Supply	220V-1 ph
Motor Power	300W





Certificate TW07/03360



All PSI equipment is manufactured by Top Tech Machines Co., Ltd., a Taichung (ROC) based manufacturer. Top Tech's engineering staff, which design all their own equipment, have many international patents to their credit. Machines are manufactured on site in an immaculate 80,000 sq. foot factory .

In business since 1995, Top Tech was certified ISO 9001 in 2003 for their quality assurance operation system. ISO certification propelled Top Tech to further staff and enhance their R & D and quality management systems. This spirit of quality and innovation is one of the primary driving forces throughout the company. As Top Tech continues to grow, the dedication to excellent customer service, rapid response to requests, quality products and innovation remain the heart of the company in addition to a continual focus on the needs of our customers.

