



MetPrep 1x™
PRECISION GRINDER/POLISHER

*POWERFUL, RELIABLE & DURABLE PRECISION
POLISHER FOR MANUAL SAMPLE PREPARATION*

Quality Products for Metallographic Sample Preparation & Analysis



The **MetPrep 1x™** precision grinding/polishing machine is excellent for manual preparation for standard applications, or when polishing delicate samples using handheld tools with lapping films that require extremely low RPM and consistent low-end torque. The 7" color LCD touchscreen with keypad entry is used to control all functions with an intuitive interface optimized for efficiency. Five (5) user-defined preset buttons allow quick and easy RPM selections from 5-350 RPM in either clockwise or counterclockwise rotation. The timer function allows either count-up or countdown operation.


Durable: Engineered and constructed using precision-machined hard-anodized aluminum and stainless steel components to provide maximum longevity.

Easy to use: Straightforward controls and user-friendly functions for quick, repeatable operation.

Either precision, standard or magnetic 8"/203 mm or 10"/254 mm platens may be used with any plain/adhesive backed or magnetic system disc.

Precision/standard/magnetic platens, accessories and consumables are sold separately.

Features:

- Variable platen speed: 5-350 RPM (in increments of 5 RPM) with five (5) adjustable preset buttons
- 7" color LCD touchscreen with keypad entry to control all functions
- Intuitive interface optimized for efficiency and function
- Powerful, quiet 0.7 HP (535 W) Brushless DC motor that provides constant high-torque output throughout the speed range
- Sturdy RIM, aluminum and stainless steel construction
- Clockwise/counterclockwise platen rotation
- Timer for count-up or countdown operation
- Molded one-piece corrosion and impact resistant enclosure
- Overflow diversion to protect internal components
- Quick-change platen design, anodized to resist wear and corrosion
- Low profile, tabletop design
- Electronic coolant control with adjustable flow control valve
- Retractable coolant nozzle that allows quick and easy sample/bowl cleaning
- Two (2) year warranty
- Designed and manufactured by Allied in the USA 

Item	Description
5-2350	MetPrep 1x™ , 100-240 V, 5-350 RPM Dims: 15" W x 26" D x 9" H (381 x 660 x 230 mm) Weight: 66 lb. (30 kg)

Retractable Nozzle



Retractable coolant nozzle allows quick and easy sample/bowl cleaning.

LCD Touchscreen



The 7" color LCD touchscreen is used to control all functions and is extremely easy to navigate, allowing greater efficiency among users.

Standard System

Precision/Standard Platens



Precision platens are lapped parallel within 2 microns. Standard aluminum platens are lapped parallel within 25 microns. Both are then hard anodized for maximum wear resistance. They are used with plain/adhesive backed discs, double sided adhesive discs and disc holding bands, or when converting to a magnetic platen using magnetic bases.

Item	Description
5-2005	Standard Platen, 8" (203 mm)
5-6010	Standard Platen, 10" (254 mm)
10-1005	Precision Platen, 8" (203 mm)
10-1007	Precision Platen, 10" (254 mm)

Disc Holding Bands



Disc holding bands are made of anodized aluminum and secure plain back discs to a standard platen. A protrusion around the top of the band allows variable sized discs (± 3 mm) to be secured.

Item	Description
125-10011	8" (203 mm)
125-10012	10" (254 mm)

Double Sided Adhesive Discs (Pk/10)

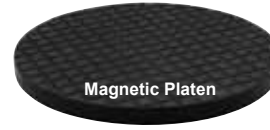


Double sided adhesive discs are adhered to a standard platen and used to secure plain back silicon carbide abrasive discs. Each provides 25-75 disc pulls, depending on grit size, cycle time and force.

Item	Description
52-10005	8" (203 mm)
52-10003	10" (254 mm)

Magnetic System

Magnetic Platens



Magnetic platens combine a precision or standard aluminum platen with a cross-hatched magnetic surface for maximum flatness and adherence. Only one platen is needed throughout the grinding and polishing process, allowing all magnetic system cloths/abrasive discs or ferromagnetic discs to be utilized.

Item	Description
5-2005M	Standard Magnetic Platen, 8" (203 mm)
5-6010M	Standard Magnetic Platen, 10" (254 mm)
10-1005M	Precision Magnetic Platen, 8" (203 mm)
10-1007M	Precision Magnetic Platen, 10" (254 mm)

Ferromagnetic Support Discs



These reusable ferromagnetic stainless steel discs feature a nonslip backing and allow adhesive backed cloths/abrasive discs to be changed quickly and easily when using magnetic platens.

Item	Description
55-51000	8" (203 mm)
55-51002	10" (254 mm)

PTFE Ferromagnetic Support Discs



These reusable, durable discs combine a PTFE surface with a ferromagnetic stainless steel substrate. This allows adhesive backed abrasive discs/polishing cloths to be easily removed after use without any adhesive transfer. The nonslip backing keeps the disc in place, even for coarse grinding applications.

Item	Description
55-52000	8" (203 mm)
55-52002	10" (254 mm)

Global Distribution of The World's Finest Products



Brochure #: MP1x-V2

Equipment is subject to change due to innovations/improvements at any time.



Designed and Manufactured by
Allied High Tech Products, Inc.
in the USA

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