METPREP 3[™] Systems (Pages 24-26)







MultiPrep[™] Systems (Pages 30 & 31)







Grinding/Polishing Machines

The **MetPrep**[™] and **DualPrep**[™] Grinding/Polishing machines, when combined with the **PH**[™] line of Power Heads, are powerful systems for semiautomatic operation, ideal for low to high volume sample preparation requirements. A wide variety of combinations provide ideal solutions that accommodate any application, lab or material.

Intuitive menu navigation with user-friendly push-button interface and backlit LCD make them easy to use and program. The microprocessor-based system allows up to 10 programmable steps, including parameters for platen speed, direction (comp/contra), cycle time, water on/off, sample force, sample rotation speed and water last (platen rinse).

A "Procedure Development" mode allows in-process adjustments to platen speed, sample force and sample rotation speed to determine optimum parameters. The jog mode provides convenient "one-button" activation of the platen without activating the Power Head.

Either aluminum or magnetic platens may be used with any plain/adhesive backed or magnetic system disc.



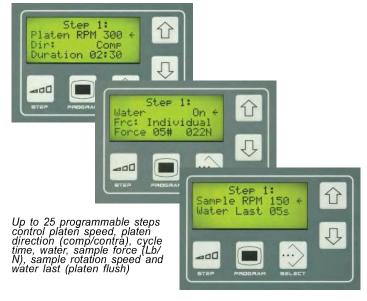


Features:

- Touch-pad switches control all functions
- Programmable up to 25 polishing steps, including parameters for platen speed, comp/contra rotation (sample holder/platen), cycle time, water, sample force (LbF or Newton), sample rotation speed and water last (platen rinse)
- Variable platen speed: 40-600 RPM (10 RPM increments)
- Variable platen jog speed: 40-600 RPM (10 RPM increments)
- Variable cycle time: 0-60 minutes (15 second increments)
- Each system incorporates either an AC or DC motor with a durable reduction gearbox to provide constant high-torque output
- Quick-change platen design
- Electronic coolant control with adjustable flow control valve
- Bowl flush to prevent debris buildup
- Two (2) year warranty parts and labor
- Designed & manufactured by Allied in the USA







Grinding-Polishing/Power Head Systems

Use this guide to determine the item number of the system based on the desired platen diameter and Power Head combination. Platen diameter is determined by sample size and volume to be prepared.

Mount sizes up to 40 mm can be prepared on 8" systems, where mount sizes up to 2" can be prepared on either 10" or 12" systems.

See Page 26 for Power Head information.

	Platen Diameter	Voltage AC	PH-3™	PH-4™	PH-6™
Ma4Dran 2™	8"	115	5-2500	-	-
MetPrep 3™	0	230	5-2500-230	-	-
	10"	115	-	5-6510	-
MetPrep 4 [™]	10	230	-	5-6510-230	-
	12"	115	-	5-6512	5-6612
		230	-	5-6512-230	5-6612-230
DualPrep 3 [™]		115	5-9508	-	-
	8"	230	5-9508-230	-	-
	10"	115	-	5-9510	-
	10	230	-	5-9510-230	-

Technical Data/Features

		MetPrep 3™	MetPrep 4 [™]	DualPrep 3™
Platen RPM		40-600	40-600	40-600
Jog RF	PM	40-600	40-600	40-600
Plat	en	8"	10" & 12"	8" & 10"
Horsepower*		1/4	11/2	1½
Watts		190	1100	1100
	W	15" (381 mm)	22" (560 mm)	31" (780 mm)
Dimensions	D	26" (660 mm)	27" (690 mm)	26" (660 mm)
	Н	25" (635 mm)	24" (610 mm)	25" (635 mm)
Weight		136 lb. (62 kg)	215 lb. (98 kg)	240 lb. (109 kg)

*Each system incorporates either an AC or DC motor with a durable reduction gearbox to provide constant high-torque output.

Accessories

Platen Diameter	Aluminum Platen	Magnetic Platen	Paper Holding Band
8"	5-2005	5-2005M	125-10011
10"	5-6010	5-6010M	125-10012
12"	5-6005	5-6005M	125-10013

Aluminum Platens are precision lapped parallel with a hard anodized surface (Rc60+).

Magnetic Platens are used with Magnetic System Grinding Discs and Polishing Cloths. They provide a convenient method of quick and easy changing of discs.

Paper Holding Bands are for securing plain back abrasive discs to the platen as an alternative to adhesive back.

Power Heads

The PH-3[™], PH-4[™] and PH-6[™] Power Heads offer maximum versatility for low to high volume semiautomatic sample preparation, using either central or individual pressure operation. The pneumatic-electric system provides controlled sample force and allows up to 12 samples to be prepared simultaneously, depending on power head, mount and holder size.

The unique tilt-up design allows easy, unhindered access to the sample holder and platen, and eliminates the need to reposition the head during the preparation procedure.

A variety of sample holders are available for various mount and sample sizes.

Sample Holders are sold separately (see pages 28 & 29)

Features:

- Central and Individual sample force functionality
- Soft-start and stop force control
- Unique tilt-up feature allows easy access to platen and holder
- Simple push/pull attachment and removal of central pressure holders
- Quick-lock allows sample holder positioning
- ¼ HP (190 W) DC motor with durable reduction gearbox provides constant high-torque output
- Variable rotation speed: 0-150 RPM (10 RPM increments)
- Complementary and contra rotation

What is unique about Allied's power heads:

- ❖ Variable speed, 0-150 RPM, 10 RPM increments
- Tilt-up function gives better access for platen and abrasive changes between steps
- Tilt-up function also allows better access to the sample holders for between-step cleaning and inspection
- Push/pull attachment and removal of sample holders
- All settings are fully programmable!



PH-6™ individual pressure configuration: six (6) individual pistons apply force to the mount(s) (2" mounts shown)



Unique tilt-up feature for easy access

Power Head Features/Specifications

	PH-3™	PH-4™	PH-6™*		
RPM	\	/ariable 0-15	0		
Horsepower		1⁄4 (190 W)			
	Indi	vidual Pres	sure		
Number of Samples	x 3	x 4	x 6		
Force Range (LbF/N)	0-16/0-80	0-22/0-100	0-22/0-100		
Mount Size Capacity	40 mm	2"	2"		
	Ce	ntral Pressi	ıre		
Number of Samples	3 - 6	3 - 9	3- 12		
Force Range (LbF/N)	5-50/20-219	5-90/20-394	5-90/20-394		

*PH-6™ Power Head - Maximizes use of the entire 12" abrasive disc when using Individual Pressure function









Up to 25 individually programmable menus

Item	Description
5-7000	AD-5™ Fluid Dispenser, 115 V
5-7000-230	AD-5™ Fluid Dispenser, 230 V

Includes: Operation Manual, Power Cord (country specific), bottle labels

If using FLUSH, filtered water is required, 1/4" (6 mm) inlet tubing, 30 psi min. pressure

AD-5[™] Fluid Dispenser

The **AD-5**[™] Fluid Dispenser provides automatic, unattended application of abrasive polishing suspensions or lubricants. Its function can be controlled through Allied's MetPrep 3[™], MetPrep 4[™] and DualPrep 3[™] grinders/ polishers, or can be used with **ANY** brand polishing machine as a stand-alone system.

Timed, volume-controlled, variable-frequency dispensing delivers reproducible results by eliminating inconsistencies between operators, increasing productivity and efficiency in the lab. Intuitive menu navigation and simple-logic programming make the dispenser easy-to-use.

The AD-5™ features five (5) dispensing positions, two of which include a flush cycle to prevent clogging when using colloidal suspensions. Peristaltic pump technology offers mist-free drip delivery to the polishing surface.

Features:

- Five (5) dispensing positions, 16 oz. (500 mL) capacity
- User-defined labeling of each MENU (abrasive type & size, lubricant, cloth, material, and menu name)
- One-touch priming function allows quick, initial charging of new cloths
- One-touch activation independent of MENU for simple operation
- Allows dispensing of Colloidal Silica, Silica/Alumina and Alumina Suspensions with rinse/flush function to avoid clogging
- Sequential programming of menus
- Peristaltic pump controlled dispensing
- Up to 25 individually programmable menus
- Dimensions: 8" W x 25" D x 9" H (203 x 635 x 228 mm)
- ❖ Weight: 28 lb. (13 kg)
- Two (2) year warranty parts and labor
- Designed & manufactured by Allied in the USA



Central Pressure Holders

Central Pressure Sample Holders are designed for high production grinding/polishing. Mounts/samples are secured on a common plane around the center of the holder where pressure is applied.

Teardrop Sample Holders allow flexibility in the shape and size of the sample that can be held.

Dual-Cavity Sample Holders feature a single tightening point, which is useful for rapid insertion and removal of up to two round or irregular shaped specimens per cavity. An advantage of the design is that it can hold one or two samples in a common cavity.

Custom shapes and sizes are available upon request.

5-33XX Series Holders

These sample holders can be used with any diameter platen size. Outside diameter = 140 mm

5-3301	Sample Holder Blank Disc w/Heating Stage
5-3330	(6) 1-11/4" Samples, Teardrop
5-3340	(5) 1"-40 mm Samples, Teardrop
5-3361	(6) 1-11/4" Samples, Dual-Cavity
5-3380	Sample Loading Fixture, for 5-33XX Series Holders

5-34XX Series Holders

Recommended for use with either 10" or 12" diameter platens. Outside diameter = 160 mm

piatoris. C	Subjuct diameter 100 mm
5-3401	Sample Holder Blank Disc w/Heating Stage
5-3435	(6) 1-1½" Samples, Teardrop
5-3440	(3) 1-2" Samples, Teardrop
5-3445	(9) 1-1¼" Samples, Teardrop
5 -3460	(8) 1-1¼" Samples, Dual-Cavity
5-3461	(6) 1"- 40 mm Samples, Dual-Cavity
5-3465	Sample Holder, (3) Position, Clamp Style 1¼ x 2" (32 x 50 mm) Pocket
5-3490	(5) 2.18" x 1.21" (55 x 31 mm) Rectangular
5-3491	(3) 2.76" x 1.38" (70 x 35 mm) Rectangular
5-3494	(3) 2" x 2" Square
5-3480	Sample Loading Fixture, for 5-34XX Series Holders
	Mary -

5-36XX Series Holders

For use only with 12" diameter platens. Outside diameter = 200 mm

5-3601	Sample Holder Blank Disc w/Heating Stage
5-3605	(12) 1-1¼" Samples, Dual-Cavity
5-3635	(6) 1-1½" Samples, Teardrop
5-3650	(3) 2⅓" x 3.7" (54 x 94 mm) Rectangular
5-3661	(8) 1¼"-40 mm Samples, Dual-Cavity
5-3662	(6) 40 mm-2" Samples, Dual-Cavity
5-3680	Sample Loading Fixture, for 5-36XX Series Holders

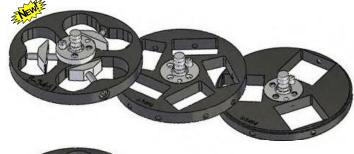
Sample Holder Compatibility Chart

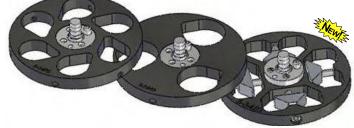
Sample holder selection is based on platen diameter and sample preparation procedure requirements.

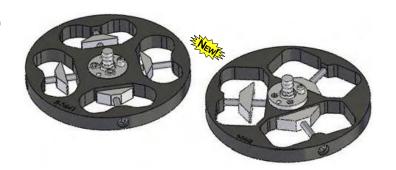
Sample holders are characterized by function, either Central pressure or Individual pressure.

		Plate	en Dian	neter
Function	Series	8"	10"	12"
	5-33XX	Х	Х	Х
Central (pg 28)	5-34XX	-	Х	Х
	5-36XX	-	-	Х
Individual (pg 29)	5-37XX	-	Х	Х
	5-38XX	Х		
(Pg 20)	5-39XX	-	-	Х









Individual Pressure Holders

Individual Pressure functionality allows as few as one or up to multiple samples to be prepared simultaneously. The advantage of individual preparation is that it allows removal of any number of samples from the grinding/polishing operation without affecting balance of the system, as it does when using Central Pressure. It is also ideal for applications where small geometry and site-specific cross-section requirements make alignment of more than three (3) samples to a common plane extremely challenging, or when preparing fragile materials.

5-38XX Series Holders

Used with PH-3™ Power Head		
5-3835	(3) 1" (25 mm) Mounts	
5-3840	(3) 30 mm Mounts	
5-3845	(3) 1¼" (32 mm) Mounts	_
5-3850	(3) 1½" (38 mm) Mounts	_
5-3855	(3) 40 mm Mounts	



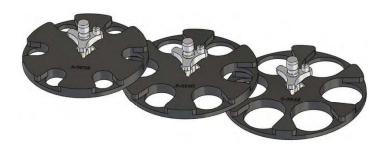
5-37XX Series Holders

Used with	n PH-4™ Power Head
5-3735	(4) 1" (25 mm) Mounts
5-3740	(4) 30 mm Mounts
5-3745	(4) 11/4" (32 mm) Mounts
5-3750	(4) 1½" (38 mm) Mounts
5-3755	(4) 40 mm Mounts
5-3760	(4) 50 mm Mounts
5-3765	(4) 2" (51mm) Mounts



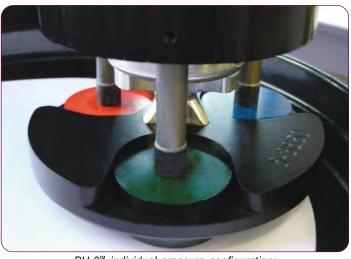
5-39XX Series Holders

Used with PH-6™ Power Head		
5-3935	(6) 1" (25 mm) Mounts	
5-3940	(6) 30 mm Mounts	
5-3945	(6) 11/4" (32 mm) Mounts	
5-3950	(6) 1½" (38 mm) Mounts	
5-3955	(6) 40 mm Mounts	
5-3960	(6) 50 mm Mounts	
5-3965	(6) 2" (51mm) Mounts	





Shown on Zeiss' Axiolmager.
Central pressure sample holders (pg 28) feature
a stable, low profile design allowing observation
on an upright microscope and can be rotated
without scratching the polished samples



PH-3™ individual pressure configuration: three (3) individual pistons apply force to the mount(s) (1½" mounts shown)

MultiPrep[™] Systems

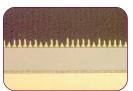
The **MultiPrep™ System** enables precise semiautomatic sample preparation of a wide range of materials for microscopic (optical, SEM, TEM, AFM, etc.) evaluation. Capabilities include parallel polishing, precise angle polishing, site-specific polishing or any combination thereof. It provides reproducible sample results by eliminating inconsistencies between users, regardless of their skill.

The MultiPrep™ eliminates the need for handheld polishing jigs, and ensures that only the sample makes contact with the abrasive. It maintains geometric orientation of the sample relative to the abrasive plane during polishing, allowing quantification of material removal; rate of polish can be monitored, and total amount removed can be preset.

The polishing machine provides the power supply necessary to operate the MultiPrep[™] positioning device, and features a control panel used to activate the MultiPrep's[™] functions. Platen rotation speeds range from 5 to 350 RPM, in either clockwise or counterclockwise direction. Touch-pad switches control all functions, with a numerical keypad to program platen speed, timer, oscillation and rotation settings.

The system uses water as the standard coolant; however, automatic drip or dosing systems are available to apply abrasive suspensions and/or lubricants.

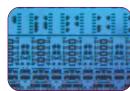




Cross-Section of Multiple Gold Bond Wires



FE SEM IC Cross-Section



Parallel Delayering of an IC



Preparation of Thin-Film TEM Specimens



TEM Cross-Section of an IC

MultiPrep[™] Accessories

A wide variety of fixtures and accessories are available for use with either 8 or 12 inch systems. Cam-locking interface offers tool-free attachment and removal for ease of use. All fixtures are made from high-performance aluminum and stainless steel for corrosion resistance; precision machined and lapped; and heat and surface treated for long life and durability.

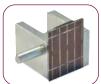
Contact Allied for custom design and manufacturing requirements.



#15-1005 Cam-Lock Adapter



#15-1010 Cross-Sectioning Paddle



#15-1010-RE Cross-Sectioning Paddle with Reference Edge



#15-1013 TEM Wedge/FIB Thinning Paddle



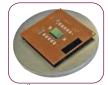
#15-1014 TEM Wedge/FIB Thinning Paddle



#15-1018 SIMS/Backside Pyrex Holder



#15-1020 Parallel Polishing Fixture, 21/4"/57 mm



#15-1020-80 Parallel Polishing Fixture, 3"/80 mm (#15-1020-100for4"/100mm)



#15-1025 Mount Holder, 1½" Diameter Capacity



#15-1035 Weight Kit



#15-1045 Multipurpose Sample Fixture, 2" Wide



Multipurpose Diagonal Fixture, 2" Wide



#15-1047 Multipurpose Sample Fixture, 1" Wide



#15-1048 Multipurpose Diagonal Fixture, 1" Wide



#15-1050 Cross-Sectioning Paddle, Clamp Style



#15-1051 Cross-Sectioning Paddle, Clamp Style, Diagonal Orientation



#120-30010 Dial Indicator Measurement System



#300-10000 Fluid Dispensing System, 500 mL with Stopcock

Features:

Front Digital Indicator displays real-time material removal/sample advancement, 1 micron resolution

Precision spindle design indexes the sample perpendicular to the platen, and can rotate simultaneously

Dual axis, micrometer-controlled angular positioning of the sample (pitch and roll), +10/-2.5° range, 0.02° increments

Rear Digital Indicator displays vertical positioning (static) with zeroing function, 1 micron resolution

 Automatic sample oscillation, adjustable sweep with 6 speeds

Full or limited automatic sample rotation with 8 speeds

Variable platen speed: 5-350 RPM, in 5 RPM increments

Touch-pad switches to control all functions

¼ HP (190 W) DC motor with durable reduction gearbox provides constant high-torque output

Digital timer and tachometer

Clockwise/counterclockwise platen rotation

Bowl flush to prevent debris buildup

Electronic coolant control with adjustable valve

Gear-driven spindle for applications demanding higher rotational torque, i.e., larger or encapsulated samples

Cam-locking system eliminates the need for tools and allows for exact repositioning of fixtures

- C compliant
- Two (2) year warranty parts and labor
- Designed & manufactured by Allied in the USA



MultiPrep[™] System, 8"

Item	Description
15-2000-GI	MultiPrep [™] System, 8" with Gear- Driven Spindle, 115 V
15-2000-GI-230	MultiPrep [™] System, 8" with Gear- Driven Spindle, 230 V

Includes:#10-1005 8" Aluminum Platen, Splash Ring and Platen Cover; #15-1020 Parallel Polishing Fixture, #15-1030 Dial Indicator Calibration Kit, and Accessory Case; #50-30076 Diamond Lapping Film Assortment Pack, #90-150-350 Red Final C Polishing Cloth, 8", #180-20015 0.05 Micron Colloidal Silica Suspension, 16 oz. and MultiPrep™ Procedures CD

MultiPrep™ System, 8" Specifications:

Dimensions: 15" W x 26" D x 20" H (381 x 660 x 508 mm)

❖ Weight: 125 lb. (57 kg)

MultiPrep[™] System, 12"

Item	Description
15-2000-12	MultiPrep [™] System, 12", with Gear-Driven Spindle, 115 V
15-2000-12-230	MultiPrep [™] System, 12", with Gear-Driven Spindle, 230 V

Includes: #10-1010 12" Aluminum Platen, Splash Ring and Platen Cover; #15-1020 Parallel Polishing Fixture, #15-1030 Dial Indicator Calibration Kit, Accessory Case and MultiPrep™ Procedures CD

MultiPrep™ System, 12" Specifications:

Dimensions: 22" W x 26" D x 21" H (560 x 660 x 535 mm)

❖ Weight: 165 lb. (75 kg)

Accessories:

10-1005	8" (203 mm) Aluminum Platen
10-1010	12" (305 mm) Aluminum Platen

M-Prep[™] Grinding/Polishing Machines

The **M-Prep**[™] grinding/polishing machines are recommended for manual sample preparation and are available with either 8" (203 mm), 10" (254 mm) or 12" (305 mm) diameter platens. Units feature analog control of all operations including platen spèed, coolant flow (adjustable) and run/stop. They provide excellent torque throughout the speed range for standard ி.ூற் அ™ 10" or 12" Grinder/Polisher





Features:

- Variable platen speed: 25-500 RPM
- Stable aluminum/stainless steel construction
- Quick-change platen design, anodized to resist wear and corrosion
- Corrosion/impact resistant cover
- Low profile, table top design
- Electronic coolant control with adjustable valve
- Bowl flush to prevent debris buildup
- Powerful High torque motors:

M-Prep 3[™]: ¼ HP (190 W), geared, DC motor M-Prep 4[™]: ³⁄₄ HP (560 W), AC motor

Dimensions:

M-Prep 3[™]: 15" W x 26" D x 9" H

(381 x 660 x 229 mm) 22" W x 27" D x 10½" H M-Prep 4™:

(560 x 690 x 267 mm)

Weight:

M-Prep 3™: 97 lb. (44 kg) M-Prep 4™: 142 lb. (65 kg)

- Two (2) year warranty parts and labor
- Designed & manufactured by Allied in the USA

M-Prep 3[™] 8" Grinder/Polisher

Item	Description
5-2100	M-Prep 3 [™] , 115 ∨
5-2100-230	M-Prep 3 [™] , 230 V

Includes: #5-2005 8" Aluminum Platen, #ASSORT-PSA Silicon Carbide Paper Assortment Pack, 8", Splash Ring and Platen Cover

Accessories:

5-2005	8" (203 mm) Aluminum Platen
125-10011	Holding Band for 8" Plain Back Discs

M-Prep 4[™] 10" Grinder/Polisher

Item	Description
5-6110	M-Prep 4 [™] , 115 ∨
5-6110-230	M-Prep 4 [™] , 230 V

Includes: #5-6010 10" Aluminum Platen, #ASSORT-PSA10 Silicon Carbide Paper Assortment Pack, 10", Splash Ring and Platen Cover

M-Prep 4[™] 12" Grinder/Polisher

Item	Description
5-6112	M-Prep 4 [™] , 115 V
5-6112-230	M-Prep 4 [™] , 230 V

Includes: #5-6005 12" Aluminum Platen, #ASSORT-PSA12 Silicon Carbide Paper Assortment Pack, 12", Splash Ring and Platen Cover

Accessories:

5-6010	10" (254 mm) Aluminum Platen
125-10012	Holding Band for 10" Plain Back Discs
5-6005	12" (305 mm) Aluminum Platen
125-10013	Holding Band for 12" Plain Back Discs

TwinPrep 3[™] Grinding/Polishing Machines

The **TwinPrep**[™] grinding/polishing machines are recommended for manual sample preparation. Units feature analog control of platen speed, power, and left or right coolant flow (adjustable). Platens rotate independently at speeds ranging from 25-500 RPM, and the motors provide excellent torque for standard applications.

The TwinPrep 3[™] is available with either 8" (203 mm) or 10" (254 mm) diameter platens.



Features:

- Two (2) independently controlled platens
- ❖ Dual, geared ¼ HP (190 W) high torque DC motors
- Quick-change platen design
- ❖ Variable platen speed: 25-500 RPM
- Stable, corrosion resistant aluminum and stainless steel construction
- Two (2) independent electronic coolant controls with adjustable valves
- Bowl flush prevents buildup of debris
- Dimensions: 31" W x 26" D x 9.5" H (780 x 660 x 240 mm)
- Weight: 130 lb. (86 kg)
- Two (2) year warranty parts and labor
- Designed & manufactured by Allied in the USA



TwinPrep 3[™] 8" Grinder/Polisher

Item	Description
5-7508	TwinPrep 3 [™] , 115 V
5-7508-230	TwinPrep 3 [™] , 230 V

Includes: (2) #5-2005 8" Aluminum Platens, #ASSORT-PSA Silicon Carbide Paper Assortment Pack, 8", (2) Splash Rings and (2) Platen Covers

Accessories:	
5-2005	8" (203 mm) Aluminum Platen
125-10011	Holding Band for 8" Plain Back Discs

TwinPrep 3[™] 10" Grinder/Polisher

Item	Description
5-7510	TwinPrep 3 [™] , 115 V
5-7510-230	TwinPrep 3 [™] , 230 V

Includes: (2) #5-6010 10" Aluminum Platens, #ASSORT-PSA10 Silicon Carbide Paper Assortment Pack, 10", (2) Splash Rings and (2) Platen Covers

Accessories:

5-6010	10" (254 mm) Aluminum Platen
125-10012	Holding Band for 10" Plain Back Discs



Item	Description
5-2000	MetPrep 3 [™] , 115 V, 5-350 RPM
5-2000-230	MetPrep 3 [™] , 230 V, 5-350 RPM
5-2050	MetPrep 3 [™] , 115 V, 40-600 RPM
5-2050-230	MetPrep 3 [™] , 230 V, 40-600 RPM

Includes: #5-2005 8" Aluminum Platen, #ASSORT-PSA Silicon Carbide Paper Assortment, 8", Splash Ring and Platen Cover

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5-2005	8" (203 mm) Aluminum Platen
69-10025	8" (203 mm) Frosted Glass Polishing Plate
69-10030	8" (203 mm) Plain Glass Support Plate

TEM Wedge Polisher

Used to thin materials to electron transparency for TEM observation. The rear micrometer heads allow radial or axial (wedge) angle adjustments in the sample, and the front head provides support when observing samples using an inverted microscope. Non-rotating micrometer heads are available to eliminate faceting of Delrin feet.

The cross-sectioning and Pyrex paddles attach using a cam-locking system (no tools needed), allowing quick, easy removal for sample inspection and exact repositioning throughout the polishing procedure. The small Pyrex footprint reduces planarization time due to less surface area making contact with the abrasive.

MetPrep 3[™] Grinding/Polishing Machine

The **MetPrep3**™ Polishing Machine is excellent for manual preparation of delicate samples when using handheld polishing tools. It features digital control of all operations including run/stop, platen speed, platen direction and coolant flow. Its sturdy construction and isolated platen spindle eliminate vibration. Precision lapped platens assure vertical run-out of less than 5 microns, and are excellent for applications requiring lapping films. Platen rotation speeds range from either 40-600, or 5-350 RPM, in either clockwise or counterclockwise direction, with smooth, consistent low-end torque. An electronic solenoid activates coolant, and an adjustable valve allows for desired flow control.

Features:

- Touch-pad switches control all functions
- Variable platen speed: 5-350 RPM
- ❖ ¼ HP (190 W) DC motor with durable reduction gearbox provides constant high-torque output
- Stable aluminum/stainless steel construction
- Clockwise/counterclockwise platen rotation
- Bowl flush to prevent debris buildup
- Quick-change platen design
- Electronic coolant control with adjustable valve
- Dimensions: 15" W x 26" D x 9" H (381 x 660 x 230 mm)
- ❖ Weight: 97 lb. (44 kg)
- Two (2) year warranty parts and labor
- Designed & manufactured by Allied in the USA



Cross-Sectioning Tool

Used to cross-section small, unencapsulated samples such as ICs and other electronic devices.

The handheld tool's unique design is stable, well-balanced and has a low center of gravity to avoid rocking during polishing. Adjustable Teflon™ feet are used to align the sample with the desired polishing plane. The cross-sectioning paddle is attached using a cam-locking system (no tools needed), allowing quick, easy paddle removal for sample inspection and exact repositioning throughout the polishing procedure.



Features:

- Lightweight anodized aluminum body for corrosion resistance
- Cam-lock lever can be mounted on the right or left side according to operator's preference
- Low profile fixtures fit under objectives in most microscopes
- Cam-locking system eliminates the need for tools and allows for exact repositioning of the paddle
- Aluminum cross-sectioning paddle fits into most SEMs without the need to demount the sample



Item	Description		
69-50000	Cross-Sectioning Tool Kit		