

# Abrasive Belt Grinders

## HandiMet® 2 Roll Grinder



**39-1572 HandiMet® 2 Roll Grinder** offers the user an exceptionally convenient and economical instrument for manual grinding applications. The HandiMet® 2 provides a self contained four-stage grinding station with controlled water flow for lubrication and cooling of the specimen plus the flushing away of debris. Unique water activated clamping holds abrasive papers firmly in position during grinding. Includes a selection of four abrasive paper rolls, water hoses and operating instructions.

### Accessories

**30-5143-240-001** 240 grit CarbiMet® Abrasive Paper Roll

**30-5143-320-001** 320 grit CarbiMet® Abrasive Paper Roll

**30-5143-400-001** 400 grit CarbiMet® Abrasive Paper Roll

**30-5143-600-001** 600 grit CarbiMet® Abrasive Paper Roll

## SurfMet® 1 Belt Surfacer



**SurfMet® 1 Belt Surfacer with Sink** is a durable single station coarse grinder that is ideal for metallographic, spectrographic and macrohardness test specimen preparation. Complete with belt cooling, debris flushing system and rinse sink. The heavy-duty motor offers superior durability and performance. Separate belt flushing and coolant controls guarantee ample removal of particulate matter from the grinding belt, providing efficient cutting action and critical specimen cooling. The stainless steel sink with faucet allows the convenience of quickly grinding and washing the specimen in one location. Includes a selection of CarbiMet® Abrasive Belts and operating instructions.

**16-1270-160 SurfMet® 1 Belt Surfacer**, 115 VAC, 60 Hz, 1 phase

**16-1270-250 SurfMet® 1 Belt Surfacer**, 220 VAC, 50 Hz, 1 phase

### Accessories

**10-1250\*** Recirculating System

**16-1278** Wear Plate Retrofit Kit for Belt Grinders

**16-1279** Copper Wear Plate Retrofit Kit, useful for dry grinding for increased heat transfer

**16-1497** Recirculating System Cart

**16-1498** TechMet® Cabinet, 30" (762mm)

**16-1499** TechMet® Cabinet, 36" (914mm)

**16-3100\*** VacuMet® Dust Removal System

**16-3105** Collector Bags, Replacement for VacuMet®

**16-3170** Hose and Connector Assembly SurfMet® I & II

**10-4330-095** CoolMet® 2 Fluid, 33.8oz (1ℓ)

**10-4330-128** CoolMet® 2 Fluid, 1 Gallon (3.8ℓ)

**10-4330-640** CoolMet® 2 Fluid, 5 Gallon (19ℓ)

**16-5200-080-010** CarbiMet® MetSplice® Abrasive Belts, 4" x 36" (10.2cm x 91.4xm) / wet or dry use, package of 10, 80 (P80) grit

**16-5200-120-010** CarbiMet® MetSplice® Abrasive Belts, 4" x 36" (10.2cm x 91.4xm) / wet or dry use, package of 10, 120 (P120) grit

**16-5200-180-010** CarbiMet® MetSplice® Abrasive Belts, 4" x 36" (10.2cm x 91.4xm) / wet or dry use, package of 10, 180 (P180) grit

**16-5200-240-010** CarbiMet® MetSplice® Abrasive Belts, 4" x 36" (10.2cm x 91.4xm) / wet or dry use, package of 10, 240 (P280) grit

## DuoMet® 2 Belt Surfacer



**DuoMet® 2** is a durable dual station coarse grinding unit that prepares specimens fast and efficiently. Two belts of different grit sizes added for convenience. Complete with belt cooling, debris flushing system and rinse sink. The stainless steel sink with faucet allows the convenience of quickly grinding and washing the specimen in one location. Includes a selection of CarbiMet® Abrasive Belts and operating instructions.

**16-1290\*** DuoMet® 2 Belt Surfacer

**16-1295\*** DuoMet® 2 Belt Surfacer, Floor Model

\* Specify Voltage & Frequency Required -160: 115 VAC, 60 Hz, 1 phase -230: 220 VAC, 50 Hz, 1 phase

Effective 2008

To Order, Call Toll-Free 1-800-BUEHLER (1-800-283-4537)

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# In-Table/Tabletop & Flush Mount Grinder-Polishers

## DuoMet® 2 Belt Surfacer

### Accessories

10-1250\* Recirculating System

16-1497 Recirculating System Cart

16-1498 TechMet® Cabinet, 30" (762mm)

16-1499 TechMet® Cabinet, 36" (914mm)

16-3100\* VacuMet® Dust Removal System

16-3180 Hose and Connector Assembly DuoMet® II

16-5200-080-010 CarbiMet® MetSplice® Abrasive Belts, 4" x 36" (10.2cm x 91.4xm) / wet or dry use, package of 10, 80 (P80) grit

16-5200-120-010 CarbiMet® MetSplice® Abrasive Belts, 4" x 36" (10.2cm x 91.4xm) / wet or dry use, package of 10, 120 (P120) grit

16-5200-180-010 CarbiMet® MetSplice® Abrasive Belts, 4" x 36" (10.2cm x 91.4xm) / wet or dry use, package of 10, 180 (P180) grit

16-5200-240-010 CarbiMet® MetSplice® Abrasive Belts, 4" x 36" (10.2cm x 91.4xm) / wet or dry use, package of 10, 240 (P280) grit

## SuperMet® Coarse Grinder



**The SuperMet® Grinder** is a heavy-duty rotary coarse grinder with rapid material removal rates designed to planar grind specimen surfaces. The SuperMet® Grinder comes with a balanced 12" (305mm) bronze wheel powered by an 1800 rpm, 3 Hp (2.2 kW) motor, and a selection of abrasive discs. It is offered in a 30" (762mm) or 36" (914mm) table height, or without a table, which can be custom flush mounted.

15-1230-260 SuperMet® Grinder, 30" (762mm) height, 220 VAC, 60 Hz, 3 phase

15-1230-460 SuperMet® Grinder, 30" (762mm) height, 440 VAC, 60 Hz, 3 phase

15-1231-260 SuperMet® Grinder, 36" (914mm) height, 220 VAC, 60 Hz, 3 phase

15-1231-460 SuperMet® Grinder, 36" (914mm) height, 440 VAC, 60 Hz, 3 phase

15-1232-260 SuperMet® Grinder, Flush Mount (w/o table), 220 VAC, 60 Hz, 3 phase

15-1232-460 SuperMet® Grinder, Flush Mount (w/o table), 440 VAC, 60 Hz, 3 phase

### Accessories

15-5112-060-100 CarbiMet®, 60 Grit, Pack of 100

15-5112-120-100 CarbiMet®, 120 Grit, Pack of 100

15-5112-180-100 CarbiMet®, 180 Grit, Pack of 100

## MiniMet® 1000 Grinder-Polisher



**MiniMet® 1000** is designed for low volume laboratories preparing single specimens. This semi-automatic grinder-polisher prepares a wide variety of materials using the three self contained preparation bowls and easy-to-use touch panel controls. Its space saving design employs a patented geometric action that combines the advantages of hand-lapping as well as mechanical polishing. This motion provides a random polishing action, eliminating any induced polishing artifacts. Comes complete with 3 polishing bowls, 3 glass discs, a small quantity of consumables and operating instructions. CE marked.

69-1100 MiniMet® 1000, 80-264 VAC, 50/60 Hz, 1 phase

### Accessories

69-1111 Caged Specimen Holder, for 1" (25mm) or 1¼" (32mm) Mounted Specimens

69-1112 Caged Specimen Holder, for 1½" (38mm) Mounts

69-1500 Polishing Bowls, 1 each Black, White, Blue, 4" (100mm) Diameter

69-1502 Storage Caddie for MiniMet® Bowls, Set of 3

69-1510 Replacement Glass Discs, Set of 3

69-1550 MiniMet® Alignment Fixture, With 3 Drill Bits

69-1552 Set of Three Drill Bits (Replacement)

69-1560 MiniMet® Precision Thinning Attachment

69-1561 Glass Specimen Supports

69-1562 Glass Circular Slides, .496" (13mm) Diameter, (50 Pieces)

69-1566 MiniMet® 1000 Precision Thinning Attachment

69-1567 Glass Disc, 2.145" (55mm) Diameter, (5 Pieces)

69-1570 MiniMet® Electro-mechanical Attachment

69-1575 Electro-mechanical Accessories

69-1580 MiniMet® Thin Section Attachment includes 3 bowls, glass and section holder

69-1581 Thin Section Bowls, 1 each Black, White, Blue, 4¾" (121mm) Diameter

69-1582 Thin Section Glass Platens, Replacement, 4" (100mm) diameter

69-1583 MiniMet® Thin Section Slide Holder

69-1590 MiniMet® Wafer Polishing Attachment

# In-Table/Tabletop & Flush Mount Grinder-Polishers

## MiniMet® 1000 Grinder-Polisher



69-1502 Storage Caddie for MiniMet Bowls, Set of 3



69-1111 & 69-1112 Caged Sample Holder



69-1566 MiniMet Precision Thinning Attachment



69-1580 Thin Section Attachment

## MetaServ® 3000 Grinder-Polisher



The **MetaServ 3000® Grinder-Polishers** are reliable and economical. Features include variable platen speed from 50 to 500 rpm, corrosion resistant molded base, bright LED power indicator, adjustable water flow nozzle and universal input voltage. Available in both single and dual platens. Designed for use with 8" (203mm), 10" (254mm) or 12" (305mm) platens. All are upgradeable to semi-automatic preparation systems with the addition of the Vector® LC Power Head. All MetaServ 3000 Grinder-Polishers include aluminum platen(s), splash ring(s), bowl cover(s), paper holding band(s), cloth clamp(s), electrical power cord and operating instructions. CE marked.

- 95-2900 **MetaServ® 3000 Grinder-Polisher, 8" (203mm)**
- 95-2910 **MetaServ® 3000 Grinder-Polisher, 10" (254mm)**
- 95-2920 **MetaServ® 3000 Grinder-Polisher, 12" (305mm)**
- 95-2930 **MetaServ® 3000 Grinder-Polisher, Dual, 8" (203mm)**
- 95-2940 **MetaServ® 3000 Grinder-Polisher, Dual, 10" (254mm)**

### Accessories

- 30-2008 Paper Holding Band, 8" (203mm)
- 40-0500 Aluminum Platen, 10" (254mm)
- 40-2058 Cloth Clamp, 8" (203mm)
- 40-4061 Aluminum Platen, 8" (203mm)
- 46-2012 Cloth Clamp, 12" (305mm)
- 46-2013 Paper Holding Band, 12" (305mm)

- 49-1777 Aluminum Platen, 12" (305mm)
- 95-2825 Paper Holding Band, 10" (254mm)
- 95-2826 Cloth Clamp, 10" (254mm)
- 60-1996-115 Vector® LC Power Head, 115 VAC, 60 Hz, 1 Phase
- 60-1996-230 Vector® LC Power Head, 230 VAC, 50 Hz, 1 Phase

## Alpha and Beta Grinder-Polishers



**Alpha and Beta Grinder-Polishers** are affordable, manual grinder-polishers offered in either single or dual platen versions; both can be used with either an 8" (203mm) or 10" (254mm) platen. The Alpha grinder-polisher offers the convenience of a basic two-speed grinder-polisher (180/360 rpm). The Beta grinder-polisher offers the versatility of variable wheel speed (30-600 rpm). Both the Alpha and Beta feature rugged, quiet operation, heavy-duty mineral cast bases and a ¼ Hp (690 W) motor for long-lasting service. The Alpha and Beta grinder-polishers can be upgraded to semi-automatic operation with the addition of the Vector® Power Head. Platens sold separately. CE marked.

- 49-5500-115 **Alpha Grinder-Polisher, Single Platen, 115 VAC, 50/60Hz 1 phase**
- 49-5500-230 **Alpha Grinder-Polisher, Single Platen, 230 VAC, 50/60Hz 1 phase**
- 49-5502-115 **Alpha Grinder-Polisher, Dual Platen, 115 VAC, 50/60Hz 1 phase**
- 49-5502-230 **Alpha Grinder-Polisher, Dual Platen, 230 VAC, 50/60Hz 1 phase**
- 49-5100-115 **Beta Grinder-Polisher, Single Platen, 115 VAC, 50/60Hz 1 phase**
- 49-5100-230 **Beta Grinder-Polisher, Single Platen, 230 VAC, 50/60Hz 1 phase**
- 49-5102-115 **Beta Grinder-Polisher, Dual Platen, 115 VAC, 50/60Hz 1 phase**
- 49-5102-230 **Beta Grinder-Polisher, Dual Platen, 230 VAC, 50/60Hz 1 phase**

# In-Table/Tabletop & Flush Mount Grinder-Polishers

## Accessories

**30-2008** Paper Holding Band, 8" (203mm)

**40-0500** Aluminum Platen, 10" (254mm) Diameter

**40-2058** Cloth Clamp, Screw, 8" (203mm) Wheel

**40-2800** PriMet® 3000 Modular Dispensing System

**40-2810** PriMet® Modular Dispensing Satellite

**40-4061** Aluminum Platen, 8" (203mm)

**40-4062** Bronze Platen, 8" (203mm)

**40-4063** Precision Lapped Aluminum Platen, 8" (203mm)

**41-2739-208-001** Apex® B Plate, 8" (203mm)

**41-2739-210-001** Apex® B Plate, 10" (254mm)

**41-2739-608-001** Apex® M Magnetic Disc, 8" (203mm)

**41-2739-610-001** Apex® M Magnetic Disc, 10" (254mm)

**41-2740-308-001** 8" (203mm) ApexHercules® H  
(for Materials ≥ HRC20 HV236)

**41-2740-310-001** 10" (254mm) ApexHercules® H  
(for Materials ≥ HRC20 HV236)

**41-2740-408-001** 8" (203mm) ApexHercules® S  
(for Materials < HRC20 HV236)

**41-2740-410-001** 10" (254mm) ApexHercules® S  
(for Materials < HRC20 HV236)

**60-3022** Bowl Cover

## Vector® Power Head



**60-1990 Vector® Power Head** when paired with any Alpha or Beta base unit, the Vector® Power Head will increase specimen production and repeatability. The Vector Power Head has convenient touch pad controls with LED display of Head Direction, Run/Stop, Dispenser, Time, Units of Force and Water. Capacity is 1-4 specimens in Single mode and up to 6 specimens in Central mode. (Specimen holders sold separately.) CE marked.

## Accessories

**40-2800** PriMer® 3000 Modular Dispensing System

**40-2834** Tri Satellite Adapter

**40-2810** PriMet® Modular Dispensing Satellite

**60-2482** Specimen Holder, Barrel, 6 x 1" (25mm) for 8" (203mm) Systems

**60-2483** Specimen Holder, Barrel, 6 x 1¼" (32mm) for 8" (203mm) Systems

**60-2484** Specimen Holder, Barrel, 3 x 1¼" (32mm) for 8" (203mm) Systems

**60-2485** Specimen Holder, Barrel, 3 x 1½" (38mm) for 8" (203mm) Systems

**60-2486** Specimen Holder, Barrel, 6 x 30mm for 8" (203mm) Systems

**60-2487** Specimen Holder, Barrel, 6 x 40mm for 8" (203mm) Systems

**60-2499** Adapter for Lift Lock

**60-3001** Vector® Single Force Specimen Holders, 4 x 1" (25mm)

**60-3002** Vector® Single Force Specimen Holders, 4 x 1¼" (32mm)

**60-3003** Vector® Single Force Specimen Holders, 4 x 1½" (38mm)

**60-3004** Vector® Single Force Specimen Holders, 4 x 25mm

**60-3005** Vector® Single Force Specimen Holders, 4 x 30mm

**60-3006** Vector® Single Force Specimen Holders, 4 x 40mm

**60-3007** Vector® Retaining Rings (Set of 12 Assorted Sizes)

**60-3024** Gravity Feed Lubricator for Vector® LC and Vector® Power Head

**60-3025** Lubricator Stand, Holds 3 Gravity Feed Lubricators



**60-3050** Single Force Specimen Holder, 25 x 75mm Glass Slide

## Vector® LC Power Head



**60-1996\* Vector® LC Power Head** upgrades the Alpha/Beta or MetaServ 3000 family of manual grinders to semi-automatic systems, increasing specimen consistency. This affordable unit has basic features and simple to operate controls. Single pressure application allows for the preparation of one to four specimens at a time and includes an integrated drip lubricator and splash guard. The Vector® LC is used primarily for lower volume applications. (Specimen holders sold separately.) CE marked.

\* Specify Voltage & Frequency Required -115: 115 VAC -230: 230 VAC

# In-Table/Tabletop & Flush Mount Grinder-Polishers

## Vector® LC Power Head

### Accessories

40-2800 PriMet® 3000 Modular Dispensing System

40-2810 PriMet® Modular Dispensing Satellite

40-2834 Tri Satellite Adapter

60-2499 Lift Lock Adapter

60-3001 Vector® Single Force Specimen Holders, 4 x 1" (25mm)

60-3002 Vector® Single Force Specimen Holders, 4 x 1¼" (32mm)

60-3003 Vector® Single Force Specimen Holders, 4 x 1½" (38mm)

60-3004 Vector® Single Force Specimen Holders, 4 x 25mm

60-3005 Vector® Single Force Specimen Holders, 4 x 30mm

60-3006 Vector® Single Force Specimen Holders, 4 x 40mm

60-3007 Vector® Retaining Rings (Set of 12 Assorted Sizes)

## PoliMet® 1000



The PoliMet® 1000 series of high torque, variable speed grinder-polishers are designed to be flush mounted into a table for hand preparation of a wide variety of materials. They offer speeds of 100 to 1200 rpm, for aggressive grinding and polishing and are available in 8" (203mm) and 12" (305mm) models. Selected 8" (203mm) models are available with and without sinks. All models include appropriate bronze platen and mechanical brake. These sturdy grinder-polishers are easily mounted in Buehler TechMet® tables or your own laboratory countertops. CE marked.

47-2890\* PoliMet® 1000 Grinder-Polisher, 12" (305mm), flush

47-2890T\* PoliMet® 1000 Grinder-Polisher, 12" (305mm), table

47-2895\* PoliMet® 1000 Grinder-Polisher, 8" (203mm), flush

47-2895T\* PoliMet® 1000 Grinder-Polisher, 8" (203mm), table

47-2896\* PoliMet® 1000 Grinder-Polisher, 8" (203mm), flush without sink

47-2896T\* PoliMet® 1000 Grinder-Polisher, 8" (203mm), table, without sink

### Accessories

40-4048 Bronze Platen, 8" (203mm) Plain

46-4032 Bronze Platen, 12" (305mm) Plain

## EcoMet® 3000 Grinder-Polisher



EcoMet® 3000 is an 8" (203mm) tabletop grinder-polisher with variable speed selection from 10-500 rpm in 10 rpm increments. Impact resistant cabinet, bowl flush and pop-up faucet adds to the convenience of this compact and versatile unit. This unit comes complete with aluminum platen, splash guard with removable cover, plus a sampling of SiC grinding papers and polishing cloths. CE marked.

49-1760 EcoMet® 3000 Variable Speed Grinder-Polisher, 8" (203mm)

49-1760DI EcoMet® 3000 Variable Speed Grinder-Polisher D/I Water, 8" (203mm)

49-1760SS EcoMet® 3000 Grinder-Polisher, 8" (203mm), With Low Speed Gearbox, Speed range 1-50rpm in 1rpm increments

49-3300 EcoMet® 3000 Grinder-Polisher, 8" (203mm), Flush Mounted

49-3300SS EcoMet® 3000 Grinder-Polisher, 8" (203mm), Flush Mounted, With Low Speed Gearbox, Speed range 1-50rpm in 1rpm increments

### Accessories

30-2008 Paper Holding Band, 8" (203mm)

40-2058 Cloth Clamp, Screw, 8" (203mm) Platen

40-2800 PriMet® 3000 Modular Dispensing System

40-2810 PriMet® Modular Dispensing Satellite

40-2834 Tri Satellite Adapter

40-2704 Cable for Dispensing System

40-4061 Aluminum Platen, 8" (203mm)

40-4062 Bronze Platen, 8" (203mm)

40-4063 Precision Lapped Aluminum Platen, 8" (203mm)

41-2739-208-001 Apex® B Plate, 8" (203mm)

41-2739-608-001 Apex® M Magnetic Disc, 8" (203mm)

41-2740-308-001 8" ApexHercules® H (for Materials ≥ HRC20 HV236)

41-2740-408-001 8" ApexHercules® S (for Materials < HRC20 HV236)

\* Specify Voltage & Frequency Required -160: 115 VAC, 60 Hz -250: 220 VAC, 50 Hz

# In-Table/Tabletop & Flush Mount Grinder-Polishers

## EcoMet® 4000 Grinder-Polisher



**EcoMet® 4000** is a variable speed 12" (305mm) grinder-polisher that delivers the power you need for either manual or semi-automatic specimen preparation applications. This tabletop machine utilizes a heavy-duty 1 Hp (740W) DC motor to provide variable speeds from 10 to 500rpm in 10rpm increments. Unit comes complete with aluminum platen, splash guard with removable cover, plus a sampling of SiC grinding papers and polishing cloths. CE marked.

**49-1780 EcoMet® 4000 Variable Speed Grinder-Polisher, 12" (305mm)**

**49-1780DI EcoMet® 4000 Grinder-Polisher, DI Water, 12" (305mm)**

**49-1780S1 EcoMet® 4000 Variable Speed Grinder-Polisher, 12" (305mm), Low Speed (1-50rpm)**

**49-3330 EcoMet® 4000 Grinder-Polisher, 12" (305mm), Flush Mount**

### Accessories

**40-2800 PriMet® 3000 Modular Dispensing System**

**40-2810 PriMet® Modular Dispensing Satellite**

**41-2739-212-001 Apex® B Plate, 12" (305mm)**

**41-2739-612-001 Apex® M Magnetic Disc, 12" (305mm)**

**41-2740-312-001 12" (305mm) ApexHercules® H (for materials ≥ HRC20 HV236)**

**41-2740-412-001 12" (305mm) ApexHercules® S (for materials <HRC20 HV236)**

**46-2012 Cloth Clamp Screw, 12" (305mm)**

**46-2013 Paper Holding Band, 12" (305mm)**

**49-1777 Aluminum Platen, 12" (305mm)**

**49-1778 Bronze Platen, 12" (305mm)**

**49-1779 Precision Lapped Aluminum Platen, 12" (305mm)**

## EcoMet® Twin Variable Speed Grinder-Polisher



**EcoMet® Twin Variable Speed Grinder-Polisher** is a dual platen 8" (203mm) table-top grinder-polisher with variable speed selection from 10-350 rpm in 10 rpm increments. Impact resistant cabinet, bowl flush and pop-up faucets add to the convenience of this compact and versatile unit. This unit comes complete with aluminum platens, splash guards, removable covers, and a sampling of SiC grinding papers and polishing cloths. CE marked.

**49-1890 EcoMet® Twin Variable Speed Grinder-Polisher, 8" (203mm)**

### Accessories

**30-2008 Paper Holding Band, 8" (203mm)**

**40-2058 Cloth Clamp, Screw, 8" (203mm) Wheel**

**40-2800 PriMet® 3000 Modular Dispensing System**

**40-2810 PriMet® Modular Dispensing Satellite**

**40-4061 Aluminum Platen, 8" (203mm)**

**40-4062 Bronze Platen, 8" (203mm)**

**40-4063 Precision Lapped Aluminum Platen, 8" (203mm)**

**41-2739-208-001 Apex® B Plate, 8" (203mm)**

**41-2739-608-001 Apex® M Magnetic Disc, 8" (203mm)**

**41-2740-308-001 8" (203mm) ApexHercules® H (for materials ≥ HRC20 HV236)**

**41-2740-408-001 8" (203mm) ApexHercules® S (for materials <HRC20 HV236)**

## AutoMet® 2000 & 3000 Power Heads



Increase specimen production and consistency by adding an AutoMet® 2000 or 3000 to any EcoMet® base unit converting them into a central force semi-automatic preparation system. Both AutoMet's are microprocessor controlled using a systems approach, important for productivity and reproducibility. The front facia panels feature a LED display, controlling such variables as time, force, head direction, platen speed and fluid dispensing. The AutoMet® 3000 moves to the next level of automation by adding nonvolatile 99 method memory with 9 steps per method programmability. Specimen holders sold separately. CE marked.

**60-1970 AutoMet® 2000 Power Head**

**60-1980 AutoMet® 3000 Microprocessor Power Head**

# In-Table/Tabletop & Flush Mount Grinder-Polishers

## AutoMet® 2000 & 3000 Power Heads

### Accessories

**40-2800** PriMet® 3000 Modular Dispensing System

**60-2482** Specimen Holder, Barrel, 6 x 1" and 25mm for 8" (203mm) Systems

**60-2483** Specimen Holder, Barrel, 6 x 1¼" (32mm) for 8" (203mm) Systems

**60-2484** Specimen Holder, Barrel, 3 x 1¼" (32mm) for 8" (203mm) Systems

**60-2485** Specimen Holder, Barrel, 3 x 1½" (38mm) for 8" (203mm) Systems

**60-2486** Specimen Holder, Barrel, 6 x 30mm for 8" (203mm) System

**60-2487** Specimen Holder, Barrel, 3 x 40mm for 8" (203mm) Systems

**60-2499** Drive Adapter, for use with Lift-Type Chuck - Barrel Holders

**60-5296** Specimen Holder, Teardrop, 5 x 2" for 12" (305mm) Systems

**60-5297** Specimen Holder, Rectangle, 5 x 55mm x 30mm for 12" (305mm) Systems

**60-5298** Specimen Holder, Rectangle, 3 x 70mm x 40mm for 12" (305mm) Systems

**60-5299** Specimen Holder, Barrel, 5 x 2" for 12" (305mm) Systems

## PowerPro® 3000, 4000 & 5000 Variable Speed Grinder-Polishers Systems



**PowerPro® 5000 Variable Speed Specimen Preparation System**, is a high performance system with Central and Single force application options, accepts both 10" (254mm) and 12" (305mm) platens, semi-automatic, with a powerful 2 Hp (1500Watt) motor. The system is programmable via an LCD with 25 proven Buehler Sum-Met™ methods for a variety of materials, plus available programming space for 25 modified Buehler methods or 25 user methods. This technically advanced system is the first tabletop machine of its kind to prepare specimens using the Zaxis™ Macro Material Removal System, available with the PowerPro Series. Zaxis is a unique feature that allows the operator to remove material by desired depth. Conventional time-based methodology is available. Additional features include automatic force calculation based on number of specimens and specimen size. Dual head speeds and variable base speeds are all standard on all PowerPro Systems. CE marked.

**49-6000 PowerPro® 5000 Variable Speed Preparation System**, standard with Zaxis™ Macro Material Removal System

**49-6001 PowerPro® 5000 Variable Speed Grinder-Polisher System** is the same as the 49-6000 except without Zaxis™ Macro Material Removal System

**PowerPro® 4000 Variable Speed Grinder-Polisher System** is the same as the PowerPro 5000 with these exceptions: standard without preprogrammed Buehler Sum-Met methods and automatic force calculation. Additionally, the PowerPro® 4000 stores the last operating parameters for both grinding and polishing. Just press Grind, set your operating parameters and unless changed, your grinding parameters are stored to be used again and again. Just like Grind, choose your Polishing parameters and the last settings will be retained by the PowerPro 4000.

**49-6113 PowerPro® 4000 Variable Speed Grinder-Polisher System**, standard with Zaxis™ Macro Material Removal System

**49-6050 PowerPro® 4000 Variable Speed Grinder-Polisher System** is the same as the 49-6113 except without Zaxis™ Macro Material Removal System

**PowerPro® 3000 Variable Speed Grinder-Polisher System** is the same powerful system as its other family members the PowerPro® 5000 and the PowerPro® 4000. The one feature that sets this machine apart is that it operates in Central force application only.

**49-6114 PowerPro® 3000 Variable Speed Grinder-Polisher System** is standard with Zaxis™ Macro Material Removal System and Central force application only.

**49-6100 PowerPro® 3000 Variable Speed Grinder-Polisher System** is the same as the 49-6114 except without Zaxis™ Macro Material Removal System

**PowerPro® 5000 Plus Systems** come complete with all the features of the PowerPro® 5000, plus all the other accessories to begin your work. This includes (1) 10" or 12" platen, (1) Apex® Quick-Change Magnetic System, (1) PriMet® 3000 Modular Dispensing System, (2) PriMet® Satellites, your selection of (1) Specimen Holder, (1) Apex® DGD Diamond Grinding Disc or Apex® DGD Color Disc, all cables and connectors, and enough consumables, tailored to fit your needs and keep you running for weeks.

**49-6115 PowerPro® 5000 Plus System** (Primarily for Central force applications)

**49-6116 PowerPro® 5000 Plus System** (Primarily for Single force applications)

**49-6110 Zaxis™ Macro Material Removal System** for 49-6001, 49-6050, 49-6100. This after delivery purchase must be Factory installed at Buehler's, Lake Bluff location.

# In-Table/Tabletop & Flush Mount Grinder-Polishers

## PowerPro® 3000, 4000 & 5000 Variable Speed Grinder-Polishers Systems

### Accessories

**40-2800** PriMet® 3000 Modular Dispensing System

**40-2810** PriMet® Modular Dispensing Satellite

**40-2707** Cable (9 pin) for Connection of PowerPro® 5000 to PriMet® 3000

**40-3825** Lube Bottle

**40-0500** Aluminum Platen, 10" (254mm)

**49-1777** Aluminum Platen, 12" (305mm)

**49-6111** Water Recirculation System

**49-8002** Drive Adapter for Specimen Holders, Central Force

**49-8007** Drive Adapter for Wirtz old style Specimen Holders

**60-2100** Single Specimen Holder, 6 x 2" (50mm) Cavities

**60-2102** Distance Ring, 6, 30mm

**60-2103** Distance Ring, 6, 1¼" (32mm)

**60-2104** Distance Ring, 6, 1½" (38mm)

**60-2105** Distance Ring, 6, 40mm

**60-2106** Distance Ring, 6, 1" (25mm)

**60-2410** Specimen Loading Fixture

**60-2412** Specimen Loading Plate, reversible for 10" & 12" holders

**60-3013** Specimen Holder, Round Barrel, 1" Diameter, 6 Specimens, for 10" (254mm) Systems

**60-3014** Specimen Holder, Round Barrel, 1¼" Diameter, 6 Specimens, for 10" (254mm) Systems

**60-3015** Specimen Holder, Round Barrel, 1½" Diameter, 3 Specimens, for 10" (254mm) Systems

**60-3016** Specimen Holder, Round Barrel, 30mm Diameter, 6 Specimens, for 10" (254mm) Systems

**60-3017** Specimen Holder, Round Barrel, 40mm Diameter, 3 Specimens, for 10" (254mm) Systems

**60-3018** Blank Specimen Holder for 10" (254mm) Systems

**60-5251** Specimen Holder, Teardrop, 10 x 1", for 12" (305mm) Systems

**60-5252** Specimen Holder, Teardrop, 9 x 1¼", for 12" (305mm) Systems

**60-5253** Specimen Holder, Teardrop, 6 x 1½", for 12" (305mm) Systems

**60-5266** Specimen Holder, Clamp, 12 x 25mm

**60-5267** Specimen Holder, Clamp, 10 x 30mm

**60-5268** Specimen Holder, Clamp, 8 x 40mm

**60-5269** Specimen Holder, Clamp, 3 x 50mm

**60-5270** Specimen Holder, Rectangular, 3 x 3" x 1.375" (76mm x 35mm)

**60-5274** Specimen Holder, Blank, for 12" (305mm) Systems

**60-5281** Specimen Holder, Round, Barrel, 10 x 1" and 25mm, for 12" (305mm) Systems

**60-5282** Specimen Holder, Round, Barrel, 10 x 1¼" (32mm), for 12" (305mm) Systems

**60-5283** Specimen Holder, Round, 6 x 1½" (38mm), for 12" (305mm) Systems

**60-5287** Specimen Holder, Round, Barrel, 10 x 30mm, for 12" (305mm) Systems

**60-5288** Specimen Holder, Round, Barrel, 6 x 40mm, for 12" (305mm) Systems

**60-5289** Specimen Holder, Round, Barrel, 3 x 2" (50mm), for 12" (305mm) Systems

**60-5296** Specimen Holder Teardrop, 5 x 2" (50mm) for 12" (305mm) Systems

**60-5297** Specimen Holder, Rectangular, 5 x 55mm x 30mm for 12" (305mm) Systems

**60-5298** Specimen Holder, Rectangular, 2 x 70mm x 40mm for 12" (305mm) Systems

**60-5299** Specimen Holder, Round, Barrel, 5 x 2" (50mm) for 12" (305mm) Systems

## BuehlerVanguard® 2000 Fully Automatic Preparation System



**63-2000 BuehlerVanguard® 2000 Fully Automatic Preparation System** is a microprocessor controlled fully automatic specimen preparation system. This table-top system combines the function of a semi-automatic grinder-polisher, a dispensing system, an ultrasonic cleaner, and a specimen dryer into one compact affordable system. The BuehlerVanguard® 2000 will prepare repeatably and consistently up to 6 specimens at a time, using either Single or Central force application in combination with a microprocessor containing a 50 method memory for specimen preparation methods. This microprocessor allows the user to select from 6 preinstalled proven Buehler methods and up to 44 methods defined by the user. CE marked.



# In-Table/Tabletop & Flush Mount Grinder-Polishers

## BuehlerVanguard® 2000 Fully Automatic Preparation System

### Accessories

**40-3824** Plastic Dispensing Bottles, set of 7

**48-8282** TechMet® Table Without Cabinet, 54" x 36" (13.7cm x 91.5cm)

**60-2410** Specimen Loading Fixture

**60-2411** Specimen Loading Plate, 8" (203mm)

**60-2482** Specimen Holder, Barrel, 6 x 1" and 25mm, for 8" (203mm) Systems

**60-2483** Specimen Holder, Barrel, 6 x 1¼" (32mm), for 8" (203mm) Systems

**60-2484** Specimen Holder, Barrel, 3 x 1¼" (32mm), for 8" (203mm) Systems

**60-2485** Specimen Holder, Barrel, 3 x 1½" (38mm), for 8" (203mm) Systems

**60-2486** Specimen Holder, Barrel, 6 x 30mm, for 8" (203mm) Systems

**60-2487** Specimen Holder, Barrel, 6 x 40mm, for 8" (203mm) Systems

**60-2499** Drive Adapter, for use with Lift-type Chuck - Barrel Holders

**63-1001** Aluminum Platen for BuehlerVanguard® Systems, 8" (203mm)

**63-1002** Specimen Holder, Single Force, 6 x 1" and 25mm Mounts

**63-1003** Specimen Holder, Single Force, 6 x 1¼" (32mm) Mounts

**63-1004** Specimen Holder, Single Force, 3 x 1½" (38mm) Mounts

**63-1005** Specimen Holder, Single Force, 6 x 25mm Mounts

**63-1006** Specimen Holder, Single Force, 6 x 30mm Mounts

**63-1007** Specimen Holder, Single Force, 3 x 40mm Mounts

**63-1008** BuehlerVanguard® 2000 Apex® Platen

**63-1022** Distance Rings, Central Force, 6 x 1" (25mm)

**63-1023** Distance Rings, Central Force, 6 x 1¼" (32mm) and 30mm Specimens

**63-1024** Distance Rings, Central Force, 3 x 1½" (38mm) and 40mm Specimens

## Accessories for Grinder-Polishers



**30-2008** Paper Holding Band, for 8" (203mm) Diameter Platens.  
**46-2013** Paper Holding Band, for 12" (305mm) Diameter Platens.  
**95-2825** Paper Holding Band, for 10" (254mm) Diameter Platens.



**40-2058** Cloth Clamp, for 8" (203mm) Platen. **46-2012** Cloth Clamp, for 12" (305mm) Platen.  
**95-2826** Cloth Clamp, for 10" (254mm) Platen.



**49-8002** Drive Adapter for Phoenix 4000 and PowerPro Systems Type Specimen Holders, One Required for Each Holder



**60-2100** Single Force Specimen Holder Plate, With Six 2" (50mm) Cavities. Use distance rings for smaller size specimens.



**60-2409** Specimen Holder, for 8" (203mm) Grinder-Polisher, Rectangular 1" x 1¼" (25mm x 32mm) Size Specimens, 4 Specimens



**60-2422** Specimen Holder, for 8" (203mm) Grinder-Polisher, Teardrop (Recommended for Extremely Hard Materials), 1¼" (32mm) Size Specimens, 6 Specimens



**60-2482** Specimen Holder, for 8" (203mm) Grinder-Polisher, Barrel, 1" (25mm) Size Specimens, 6 Specimens



**60-2483** Specimen Holder, for 8" (203mm) Grinder-Polisher, Barrel, 1¼" (32mm) Size Specimens, 6 Specimens



**60-2484** Specimen Holder, for 8" (203mm) Grinder/Polisher, Barrel, 1¼" (32mm) Size Specimens, 3 Specimens



**60-2485** Specimen Holder, for 8" (203mm) Grinder/Polisher, Barrel, 1½" (38mm) Size Specimens, 3 Specimens



**60-2499** Lift-Lock Drive Adapter, for Central Force Specimen Holders on AutoMet® and Vector® Power Heads



**60-3001** Single Force Specimen Holder with Retaining Rings, 4 x 1" (25mm) Specimens

# Accessories for Grinder-Polishers



60-3002 Single Force Specimen Holder with Retaining Rings, 4 x 1/4" (32mm) Specimens



60-3003 Single Force Specimen Holder with Retaining Rings, 4 x 1/2" (38mm) Specimens



60-3004 Single Force Specimen Holder with Retaining Rings, 4 x 25mm Specimens



60-3005 Single Force Specimen Holder with Retaining Rings, 4 x 30mm Specimens



60-3006 Single Force Specimen Holder with Retaining Rings, 40mm Specimens



60-3024 Gravity Feed Lubricator, for Vector® LC and Vector® Power Heads



60-3050 Glass Slide Holder, 25 x 75mm, for Vector® Power Heads, Single Force



60-5245 Specimen Holder, for 12" (305mm) Grinder/Polisher, Rectangular, 2" x 1.375" (35mm) Size Specimens, 5 Specimens



60-5252 Specimen Holder, for 12" (305mm) Grinder/Polisher, Teardrop, (recommended for extremely hard materials) 1/4" (32mm) Size Specimens, 9 Specimens



60-5253 Specimen Holder for 12" (305mm) systems, Teardrop style, 1/2" (32mm), 6 specimens



60-5254 Specimen Holder, for 12" (305mm) Grinder-Polisher, Blank. 60-2408 Specimen Holder, for 8" (203mm) Grinder-Polisher, Blank.



60-5266 Specimen Holder for 12" (305mm) systems, Clamp style, 1" (25mm), 12 specimens



60-5281 Specimen Holder, for 12" (305mm) systems, barrel, 1" and 25mm Size Specimens, 10 Specimens



60-5282 Specimen Holder, for 12" (305mm) systems, barrel, 1/4" (32mm) Size Specimens, 10 Specimens



60-5283 Specimen Holder, for 12" (305mm) systems, barrel, 1/2" (38mm) Size Specimens, 6 Specimens



60-5287 Specimen Holder, for 12" (305mm) systems, barrel, 30mm Size Specimens, 10 Specimens



60-5288 Specimen Holder, for 12" (305mm) systems, barrel, 40mm Size Specimens, 6 Specimens



60-8015 Specimen Holder for 12" (305mm) systems, stainless steel



60-8083 Metallurgical Precision Grinding Fixture for 1.5" (40mm) specimen sizes; 60-8084 1" (25mm) insert; 60-8085 1.1875" (30mm) insert; 60-8086 1.25" (32mm) insert



60-8087 Histologic Precision Grinding Fixture may be used for a variety of applications; semiconductor, bone, thin sections.

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