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 performace. 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 convenienve 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 convenienve 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

Grinding/Polishing

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

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

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 ¾ 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

Grinding/Polishing

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

NEW **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

To Order, Call Toll-Free 1-800-BUEHLER (1-800-283-4537) *Effective 2008*

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)

Grinding/Polishing

* 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 reproducibilty. 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

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

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.

Grinding/Polishing

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, Sinlge 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

60-3002 Single Force Specimen Holder with Retaining Rings, 4 x 1¼″ (32mm) Specimens

60-3003 Single Force Specimen Holder with Retaining Rings, 4 x 1½″ (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, (recommeded for extremely hard materials) 1¼″ (32mm) Size Specimens, 9 Specimens

60-5253 Specimen Holder for 12″ (305mm) systems, Teardrop style, 1½″ (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, 1¼″ (32mm) Size Specimens, 10 Specimens

60-5283 Specimen Holder, for 12″ (305mm) systems, barrel, 1½″ (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 Histolic Precision Grinding Fixture may be used for a variety of applications; semiconductor, bone, thin sections.