



GRINDING & POLISHING

Automated and manual grinders and polishers with a broad range of consumables for any lab

The goal of the grinding and polishing steps is to prepare a final polished specimen that is free of deformation and suitable for analysis. This can be achieved in multiple ways depending on the overall goals of the lab. Whether a lab is looking for the quickest overall process, the best surface finish or versatility to prepare many different materials, Buehler has a solution for the grinding and polishing needs.



Featured Microstructure:

Alumina coating on steel substrate at 500x mag. in darkfield

~ David DeLagrange and Jean Michel Lamarre; Conseil national de recherches Canada; Boucherville, Québec, Canada



Product Comparison

A Grinder-Polisher Solution for Any Lab

With the launch of the AutoMet Grinder-Polisher, Buehler now offers a full line of easy-to-use machines. Choose from the EcoMet30 or AutoMet grinder-polishers to provide the perfect solution for your lab.

EcoMet™ 30 Manual



EcoMet 30 Manual is a cost effective grinder-polisher with the essential functions. It has quick clean features to save time and effort, and is made from a durable metal casting for robustness and stability. It has an ergonomic splash ring for comfortable manual use. Available with two platens.

EcoMet™ 30 Semi-Auto



EcoMet 30 Semi-Auto is an entry level grinder-polisher with an emphasis on simplicity. All functions are easily accessible on an uncomplicated touch screen interface. It's compatible with a dispensing system to go hands-free during the polishing process and improve repeatability.

AutoMet™ 250



AutoMet 250 is an advanced grinder-polisher with more power to accommodate a greater capacity for high volume environments. The straightforward controls remove complexity from the grinding and polishing process.

AutoMet™ 250 Pro



AutoMet 250 Pro has additional premium features. The enhanced programmability is highly intuitive with easy method storage. Improve repeatability with the automated dispensing system. The machine has z axis removal capabilities for grinding and polishing by depth.

AutoMet™ 300 Pro



AutoMet 300 Pro is similar to the AutoMet 250 Pro, with a stronger motor and larger platen size to accommodate larger samples. It's also compatible with accessories such as PC-Met and PWB Met for PCB grinding and polishing.



If you need further assistance in selecting the best Grinder-Polisher for your application, please reach out to your local Buehler Sales Engineer or visit www.buehler.com

	EcoMet 30 Manual	EcoMet 30 Semi-Auto	AutoMet 250	AutoMet 250 Pro	AutoMet 300 Pro
Style	Manual	Semi-Auto	Semi-Auto	Semi-Auto	Semi-Auto
Platen Count	Single or Twin	Single or Twin	Single	Single	Single
Platen Sizes	8", 10", or 12"	8", 10", or 12"	8" or 10"	8" or 10"	10" or 12"
Controls	Knobs	Touch screen	Membrane	Touch screen	Touch screen
Dispensing Capability		Dispensing (3 max)		Dispensing (5 Max)	Dispensing (5 max)
Method Storage				Methods	Methods
Removal by Depth				Z axis removal	Z axis removal
Rinse & Spin		X		X	X
Single Force Max Capacity		4	6	6	6
Central Force Max Capacity		12	12	12	12
Specimen Max Size		40mm	40mm	40mm	50mm



AutoMet™ Grinder - Polisher

Designed for Demanding Production Lab Environments

Easily accommodate many applications with this versatile line of Grinder-Polishers. All products have durable construction for reliability in high use environments, unique quick cleaning features, and plenty of enhancements for user friendly operation.



AutoMet™ Grinder-Polisher

The AutoMet grinder-polisher is a high performance machine, designed for reliability, flexibility, and ease of use. Upgrade to a Pro model for intelligent programming that makes advanced functionality easy with highly reproducible results.

AutoMet Features

- Built tough for high volume use.
- Save time with quick clean features including a retractable water hose, disposable bowl liner and integrated 360 degree bowl rinse.
- AutoMet 300 12" platen size provides a larger working area for faster grinding or to accommodate large samples.
- AutoMet 250 8" and 10" platen size choice optimizes the cost of paper and diamond when a larger unit isn't required.

AutoMet Pro Features

- Color touch screen controls add functionality needed for advanced methods, such as method creation/storage and Z-axis material removal by depth.
- Improve productivity and consistency by integrating with a Burst Dispensing System (see page 36).

Model	Part Number	Voltage/Frequency
AutoMet 250	49-7257	100 - 240VAC, 50-60Hz
AutoMet 250 Pro	49-7258	100 - 240VAC, 50-60Hz
AutoMet 300 Pro	49-7268	170-240 VAC, 50-60Hz

Accessories

AutoMet 250 & 250 Pro

40-4061	8in [203mm] Aluminum Platen
40-0500	10in [254mm] Aluminum Platen
60-9080	Disposable Bowl Liner (Qty 5)
49-1250	Lid for AutoMet 250
49-2250	Splash Guard Kit for AutoMet 250

AutoMet 300

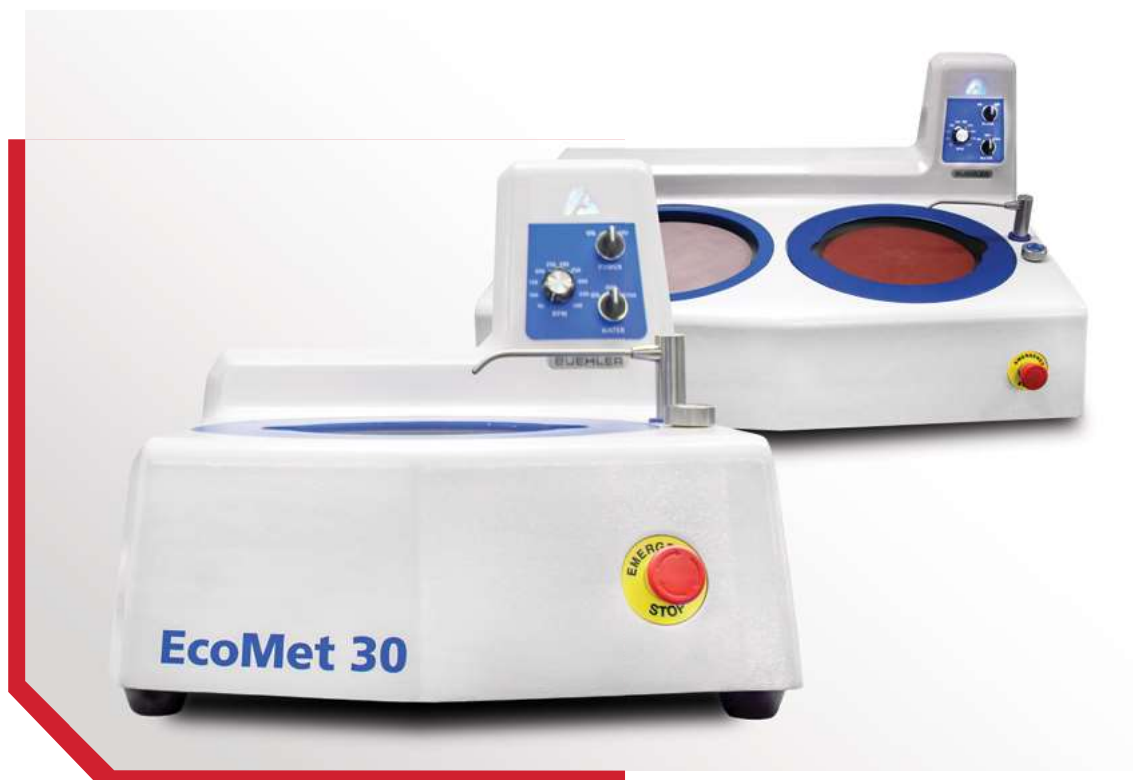
40-0500	10in [254mm] Aluminum Platen
49-1777	12in [305mm] Aluminum Platen
60-9081	Disposable Bowl Liners (Qty 5)
4961-300	Splash guard for AutoMet 300
49-1300	Lid for AutoMet 300



EcoMet™ 30 Grinder - Polisher

Grinding & Polishing Made Simple

The EcoMet 30 is an entry level grinder-polisher and an excellent choice for any lab that values simplicity. Best suited for low variety environments or those with a dedicated machine for each grinding-polishing step.



EcoMet 30 Manual Grinder Polisher

The EcoMet 30 provides simple operation for manual grinding and polishing. The comfortable splash guard design allows for excellent control while holding a part. Easy to use and easy to clean. Durability tested over 2500 hours and flexible enough to be compatible with 8in [203mm], 10in [254mm] and 12in [305mm] platens.

EcoMet 30 Manual

Model	Part Number	Voltage/Frequency
Single	49-10070	85-264VAC, 50/60Hz

Dimensions: 19.7in [500mm] L x 25.6in [650mm] D x 17.7in [450mm] H

Weight: 102lbs [46kg]

Ergonomic Manual Polish

- Large flat work space and ergonomic bowl height provides better control and more comfort
- Additional control improves sample quality and reduces grinding time
- Low force on/off knob

Easy to Clean

- Easy to remove platens allows for fast deep cleaning
- Large straight path draining system

EcoMet 30 Twin Manual

Model	Part Number	Voltage/Frequency
Twin	49-10072	85-264VAC, 50/60Hz

Dimensions: 37.4in [950mm] L x 26in [660mm] D x 17.7in [450mm] H

Weight: 154lbs [70kg]

Accessories

Platen Kit (Required)

Each Kit includes a platen, splash ring and cover

49-1008	8in [203mm] Aluminum Platen
49-1010	10in [254mm] Aluminum Platen
49-1012	12in [305mm] Aluminum Platen

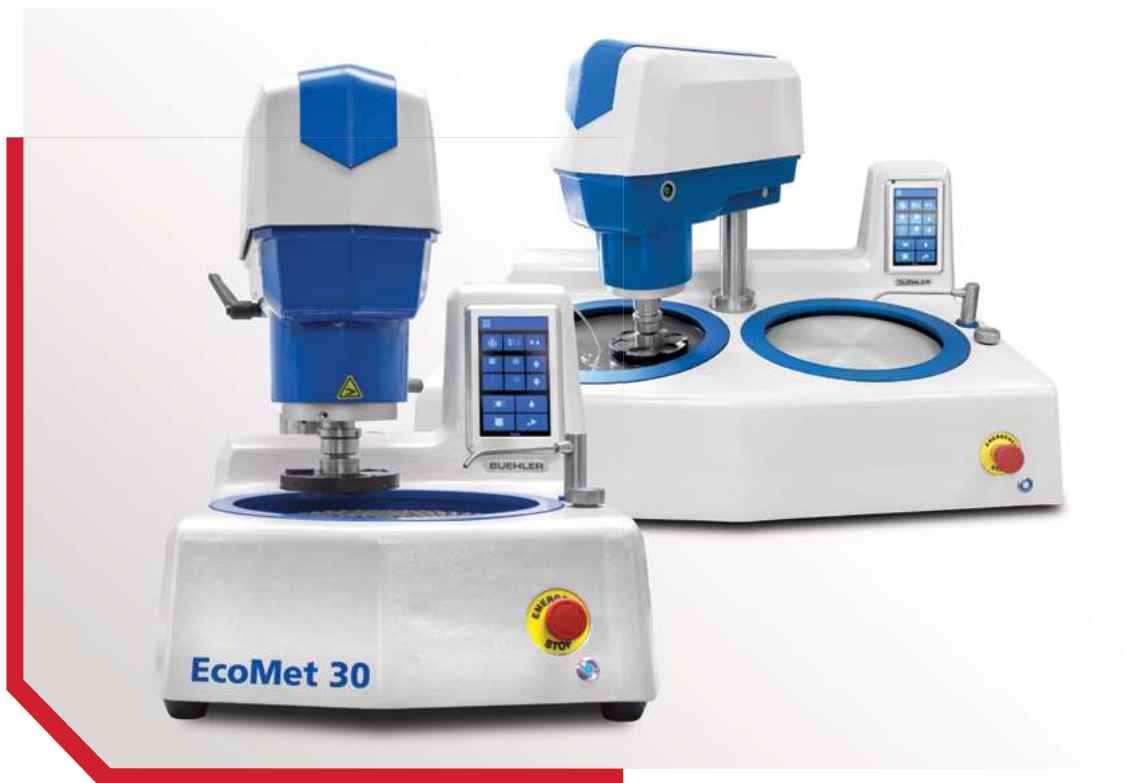
Replacement Bowl Liners

All EcoMet 30's include one bowl liner per bowl. Remove and wash the liner for quick bowl cleaning.

49-1005	Qty 5
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EcoMet™ 30 Grinder - Polisher



EcoMet 30 Semi-Automatic Grinder Polisher

The EcoMet 30 Semi-Automatic provides simple operation for routine grinding and polishing. The user-friendly touchscreen interface puts all regularly used functions on the front screen with no complicated menus that can add time to the process. Ideal for users who have a dedicated machine for each step in their process, the EcoMet 30 saves time with advanced cleaning features. Durability tested over 2500 hours and flexible enough to be compatible with 8in [203mm], 10in [254mm] and 12in [305mm] platens.

EcoMet 30 Semi-Automatic

Model	Part Number	Voltage/Frequency
Single	49-10075	85-264VAC, 50/60Hz

Dimensions: 19.7in [500mm] L x 25.6in [650mm] D x 25.6in [650mm] H

Weight: 165lbs [75kg]

Routine Grinding and Polishing Made Easy

- Intuitive touchscreen interface
- No complicated menus
- Focus on everyday use features

Easy to Clean

- User selectable rinse and spin function
- Easy to remove platens
- Large straight path draining system

EcoMet 30 Twin Semi-Automatic

Model	Part Number	Voltage/Frequency
Twin	49-10076	85-264VAC, 50/60Hz

Dimensions: 37.4in [950mm] L x 26in [660mm] D x 25.6in [650mm] H

Weight: 232lbs [105kg]

Burst Dispensing

- The EcoMet 30 Semi-Automatic units can be connected to the Burst Dispensing System for increased throughput in the lab
- The Burst will automatically dispense during the cycle allowing a user to operate other machines during the polishing process

Thoughtful Design Elements

- Touchscreen location and angle is easy to see and easy to reach for users of various heights
- All cast aluminum design adds stability and durability



Grinder Polisher Accessories

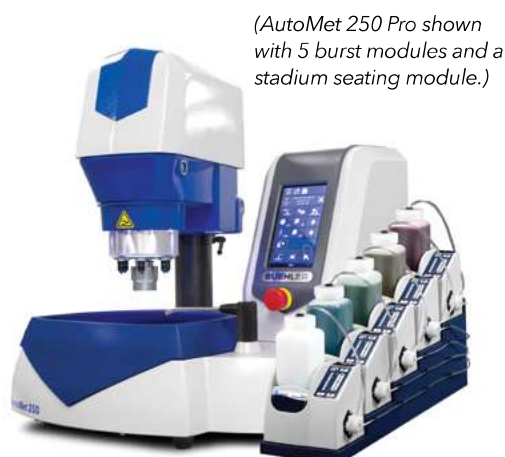
Burst Dispensing System

The Burst Dispensing System is a flexible, easy to operate dispensing system for all diamond and final polishing suspensions. This product improves both productivity and consistency by dispensing suspensions at fixed intervals and configurable rates.

Choose from two different Burst Configurations

Fully Integrated

The Grinder-Polisher controls the start/stop function and the volume rate.



(AutoMet 250 Pro shown with 5 burst modules and a stadium seating module.)

Compatible with EcoMet 30 AutoMet 250 Pro, AutoMet 300 Pro

How to configure the fully integrated burst system for AutoMet 250 and AutoMet 250 Pro:

Choose up to 5 burst modules (Part Number 40-10005)

- Add stadium seating module (Part Number 40-10004)
- Add dispensing arm (Part Number 40-10006)
- Add optional stir bar (Part Number 00-10100)

How to configure the fully integrated burst system with EcoMet 30:

Choose up to 3 burst modules (Part Number 40-100005)

- Add cable to control start/stop function (Part Number 40-2704)
- Add optional stir bar (Part Number 00-10100)

Accessories

- | | |
|----------|---|
| 40-10004 | Stadium Seating Module
A compact and efficient method to hold up to 5 burst modules |
| 40-10006 | Dispensing Arm for AutoMet™ 250/300
The dispensing arm attaches the AutoMet Pro Grinder-Polisher to the burst dispensing system. Outlet tubing from the burst system is secured neatly into the arm. Outlet nozzles dispense suspension on to the platen. |
| 00-10100 | Stir Bar
Magnetically driven stir bars prevents settling of suspension. Use one for each module. |

Independent

The Burst Module Control Panel is used to control dispensing stop/start and volume rate.



Compatible with all Grinder-Polishers

How to configure independent burst modules:

Choose burst module (Part Number 40-10005)

- Up to 5 modules can be connected to one electrical power source; requires cable for connecting module to module (Part Number 40-2832)
- Add optional stir bar (Part Number 00-10100)
- Add optional hand switch (Part Number 40-2823)

Accessories

- | | |
|----------|--|
| 40-2832 | Cable for connecting module to module
For connecting more than 1 burst module in the independent configuration. Up to 5 modules can be connected together. Requires one cable for each module added to the first module. |
| 40-2823 | Hand Switch
Used to control the start/stop function. |
| 00-10100 | Stir Bar
Magnetically driven stir bars prevents settling of suspension. Use one for each module. |
| 40-2704 | Cable to Control Start/Stop Function
For controlling start/stop function of Burst from the AutoMet 250/300 & EcoMet 30 |



Planar Grinder

PlanarMet™ 300 Planar Grinder

The PlanarMet 300 bench top planar grinding machine with a high torque, continuous duty, 5.7Hp motor has an aggressive material removal rate normally seen in much larger, more expensive floor model machines. Convenience features such as an integrated auto wheel dressing and built in cooling make it easy to get consistent results.



High Quality Results

- Auto Dressing System ensures fresh consistent abrasive surface giving consistent results.
- Controlled material depth removal (Z-axis) is programmable and accurate to 0.0004in or 0.1mm.
- High water flow and unique manifold keeps specimens cool, minimizing subsurface damage

Save space

- Compact format that is just as powerful as a large, floor standing model
- Bench top design ideal for direct integration to bench top polishing steps

Flexibility to adapt to changing needs

- Choice of grinding stones available for almost any material application
- Timed cycle provides flexibility in methods

Benefits of planar grinders

- Reduce process steps and grind 4X faster compared to SiC paper
- Go from 3 grinding steps to just 1 step

Part Number	Voltage/Frequency
49-10000-250	208-240VAC, 50Hz, 3-Phase
49-10000-260	208-240VAC, 60Hz, 3-Phase
49-10000-450	380-480VAC, 50Hz, 3-Phase
49-10000-460	380-480VAC, 60Hz, 3-Phase

Dimensions: 21.25in [539mm]W x 31in [787mm]D x 29.75 [755mm]H
Weight: 275 lbs [125 kg]

Accessories & Consumables for PlanarMet 300

Grinding Stones



Planar Grinding Stones are multi-use abrasive discs designed for the PlanarMet 300. They provide high material removal rates and consistent scratch patterns.

Size: 12in [305mm], 1in [25mm] thickness

Part Number	Description
49-7280	Alumina Grinding Stone for Ferrous & Superalloy
49-7281	SiC Grinding Stone for Non-Ferrous & Ti Alloys
49-100	Replacement Dressing Stick, Metal-Matrix Diamond
49-1001	Chuck adaptor for legacy specimen holders

Recirculation System



Recirculation tank on wheels for use with PlanarMet™ 300.

Part Number	Capacity	Voltage/Frequency
56-0026	12gal [60L]	380-400VAC, 50/60Hz
56-0027	12gal [60L]	200-240VAC, 50/60Hz



Grinder Polisher Accessories

Sample holders are designed for use with Buehler's grinder-polishers to facilitate process automation and optimization. Many options for different sample sizes and shapes are available depending on the shapes, sizes, and capacities required.

Single Force Specimen Holders



Round/Barrel



Rectangle



Slides

EcoMet 30 Power Head


For use with 60-9005 Drive Adapter

Part Number	Style	Size	Capacity	Additional Accessories
60-10060	○	1in	4	63-1022 Retaining Rings (Qty 6pk)
60-10061	○	1.25in	4	63-1023 Retaining Rings (Qty 6pk)
60-10063	○	25mm	4	63-1022 Retaining Rings (Qty 6pk)
60-10064	○	30mm	4	63-1023 Retaining Rings (Qty 6pk)
60-10065	○	40mm	4	63-1024 Retaining Rings (Qty 3pk)




AutoMet™ 250 Power Head

For use with 60-9005 Drive Adapter.

Part Number	Style	Size	Capacity	Additional Accessories
60-9010	○ 	1in	6	63-1022 Retaining Rings (Qty 6pk) 60-9120 1 x 3in Glass Slide Holder 60-9130 2 x 3in Glass Slide Holder
60-9011	○	1.25in	6	63-1023 Retaining Rings (Qty 6pk)
60-9012	○	1.5in	6	63-1024 Retaining Rings (Qty 3pk)
60-9020	○	25mm	6	63-1022 Retaining Rings (Qty 6pk)
60-9021	○	30mm	6	63-1023 Retaining Rings (Qty 6pk)
60-9022	○	40mm	6	63-1024 Retaining Rings (Qty 3pk)

AutoMet™ 300 Power Head

For use with 60-9005 Drive Adapter.

Part Number	Style	Size	Capacity	Additional Accessories
60-9060	○ 	1in	6	63-1022 Retaining Rings (Qty 6pk) 60-9120 1 x 3in Glass Slide Holder 60-9130 2 x 3in Glass Slide Holder
60-9061	○	1.25in	6	63-1023 Retaining Rings (Qty 6pk)
60-9062	○	1.5in	6	63-1024 Retaining Rings (Qty 3pk)
60-9063	○	2in	6	
60-9070	○	25mm	6	63-1022 Retaining Rings
60-9071	○	30mm	6	63-1023 Retaining Rings
60-9072	○	40mm	6	63-1024 Retaining Rings
60-9073	○	50mm	6	
60-9049	○	For Target Holders	3	



Grinder Polisher Accessories

Central Force Specimen Holders

○ Round/Barrel □ Rectangle ▲ Teardrop

AutoMet 300 Power Head

For use with 60-9000 Drive Adapter.

Uses Loading Plates 60-2412 or 60-2413

181mm diameter for 12" platens

Part Number	Style	Size	Capacity
60-5281	○	1in	10
60-5282	○	1.25in	10
60-5252	▲	1.25in or 30mm	9
60-5287	○	30mm	10
60-5283	○	1.5in	6
60-5253	▲	1.5in or 40mm	6
60-5288	○	40mm	6
60-5299	○	2in	5
60-5296	▲	2in or 50mm	5
60-5245	□	2 x 1.38in [50 x 35mm]	5
60-5297	□	55 x 30mm	5
60-5298	□	70 x 40mm	3

AutoMet 250 and EcoMet 30 Power Heads

For use with 60-9000 Drive Adapters

Uses Loading Plates 60-2411 or 60-2413

130mm diameter for 8", 10" or 12" platens

Part Number	Style	Size	Capacity
60-2482	○	1in	6
60-2483	○	1.25in	6
60-2422	▲	1.25in [32mm]	6
60-2485	○	1.5in	3
60-2486	○	30mm	6
60-2487	○	40mm	3
60-2409	□	1 x 1.25in [25.4 x 31.75mm]	4
Uses loading plates 60-2411 or 60-2412 157mm diameter for 10" or 12" platens			
60-8240	▲	18 - 51mm	5
60-8210	▲	12 - 40mm	6
60-8262	▲	10 - 25mm	12
60-8254	□	55 x 30mm	5
60-8255	□	70 x 40mm	3

Accessories for Specimen Holders

Loading Fixtures and Plates



Used for loading Central Force Specimen Holders to ensure planar samples.

Drive Adapters



Pairs specimen holders to the chuck of the automatic head

Part Number	Compatible With
60-9000 Central Force	AutoMet 250/300 PlanarMet 300, EcoMet 30
60-9005 Single Force	AutoMet 250/300, EcoMet 30

Part Number	Description
60-2410	Loading Fixture
60-2411	Loading Plate for 130mm and 157mm diameter
60-2412	Loading Plate for 157mm and 181mm diameter
60-2413	Loading Plate for 130mm and 181mm diameter

Target Holders



Designed for precise material removal to specified depths. Includes one ceramic and one steel stop ring.

Part Number	Description
60-8100	For 28 x 48mm glass slide (histologic holder)
60-8101	For 1in [25mm] mounted specimens
60-8102	For 1.25in [32mm] mounted specimens
60-8112	For 30mm mounted specimens
60-8113	For 40mm mounted specimens
60-9049	Specimen Holder for Target Holders (Drive Adapter 60-9005 required)



Grinder Polisher Accessories

Blank Specimen Holders



For use with 60-9000 Drive Adapter.

Part Number	Diameter	Power Head
60-2408	5.12in [130mm] for 8", 10" or 12" platens	EcoMet™ 30, AutoMet™ 250
60-5254	7.12in [181mm] for 12" platens only	AutoMet 300

Slide Holders & Glass Slides

Glass Slide Size	Slide Holder	Single Force Specimen Holder	Glass Slides
1 x 3in	60-9120 (max 3 per specimen holder)	60-9010 for AutoMet 250 60-9060 for AutoMet 300	
2 x 3in	60-9130 (max 2 per specimen holder)	60-9060 for AutoMet 300	
27 x 46mm	60-9100 (max 3 per specimen holder)	60-9010 for AutoMet 250 60-9060 for AutoMet 300	40-8000-001 (Qty 144) 40-8000-010 (Qty 1440)
27 x 46mm	30-8005 hand-held holder		40-8000-001 (Qty 144) 40-8000-010 (Qty 1440)
28 x 48mm	60-9140 (max 3 per specimen holder)	60-9010 for AutoMet 250 60-9060 for AutoMet 300	

PC-Met™ Precision High Volume Printed Wiring Board Accessory



- High volume printed wiring board preparation system
- Prepares up to 36 coupons simultaneously
- Prepares reproducible cross-sections of through-holes down to 0.008in
- For use with AutoMet 300

Part Number	Contents
60-5090	Indexing pins, carbide and diamond stops, pin loader, dial indicator, gauge blocks and wooden case

Accessories

60-5053	Coupon Pins 1.0625in [27mm] long (Qty 1000)
60-5067	Cup, Extended Upper Mold Plate, 0.8in (Qty 6)
60-9000	Central Force Drive Adapter for AutoMet™ 250/300

PWB Met™ Small Hole Accessory



- High volume printed wiring board preparation system
- Prepares up to 18 coupons simultaneously
- Prepares reproducible cross-sections of through-holes down to 0.004in
- For use with EcoMet 30 and AutoMet 300

Part Number	Contents
60-5175	Indexing pins, polycrystalline diamond stops, Pin loader, dial indicator calibration gauge, silicone mold release spray, gauge blocks, sample extractor and wooden case

Accessories

60-5186	PWB Met Short Pin Loader 0.375in [10mm] long,
60-5084	PWB Met Pins 0.375in [10mm] long (Qty 3000)



Grinder Polisher Specialty & Support Equipment

MiniMet™ 1000

A low volume, single specimen machine capable of preparing a wide variety of materials. Space saving design employs geometric action, increasing specimen consistency.



Easy to use

- Simple operations ideal for low volume applications

Save space and lower costs

- Designed to use 2.875in [73mm] abrasive paper and polishing cloths

Part Number	Voltage/Frequency
69-1100	85-264VAC, 50/60Hz

Dimensions: 7in [180mm]W x 16in [400mm]D x 8in [200mm]H

Weight: 25 lbs [11 kg]

Accessories

69-1111	Caged Specimen Holder, for 1in [25mm] or 1.25in [32mm] Mounted Specimens	69-1581	Thin Section Bowls, 4.75in [121mm] (1 each Black, White, Blue)
69-1112	Caged Specimen Holder, for 1.5in [38mm] Mounted Specimens	69-1582	Thin Section Glass Platens, 4in [100mm] (Qty 3) (replacement)
69-1500	Polishing Bowls, 4in [100mm] Diameter (1 each Black, White, Blue)	69-1583	MiniMet Thin Section Slide Holder, 46 x 27mm
69-1562	Glass Circular Slides, 0.5in [13mm] Diameter (Qty 50)	69-1590	MiniMet Wafer Polishing Attachment
69-1566	MiniMet 1000 Precision Thinning Attachment	69-1502	Storage Caddie for MiniMet Bowls (Qty 3)
69-1567	Glass Disc, 2.145in [55mm] Diameter (Qty 5)	69-1510	Glass Platen (Qty of 3)
69-1580	MiniMet Thin Section Attachment (includes 3 bowls, glass and section holder)	69-1550	MiniMet Alignment Fixture with 3 Drill Bits
		69-1552	Set of 3 Drill Bits (replacement)

Grinding & Polishing Consumables for MiniMet 1000

Silicon Carbide Paper, PSA Backed, 2.875in [73mm] (Qty 100)



CarbiMet™

Grit Size - ANSI [FEPA]	Micron	Part Number
120 [P120]	127	36-02-0120
180 [P180]	78	36-02-0180
240 [P280]	52	36-02-0240
320 [P400]	35	36-02-0320
400 [P800]	22	36-02-0400
600 [P1200]	15	36-02-0600

MicroCut™

Grit Size - ANSI [FEPA]	Micron	Part Number
800 [P1500]	13	36-02-0800
1200 [P2500]	8	36-02-1200

Premium Polishing Cloths, PSA Backed, 2.875in [73mm] (Qty 20)



Cloth	Stage	Part Number
UltraPol™	Coarse	40-7442
Nylon	Intermediate	40-7052
TexMet™ C	Intermediate	40-1102
TriDent™	Intermediate	40-7502

Cloth	Stage	Part Number
MicroCloth™	Fine	40-7212
MasterTex™	Fine	40-7702
ChemoMet™	Fine	40-7902

Visit www.buehler.com for ordering information.



Grinder Polisher Specialty & Support Equipment

VibroMet™ 2 Vibratory Polisher

VibroMet 2 Vibratory Polisher is designed to prepare high quality polished surfaces on a wide variety of materials, including EBSD applications. The 7200 cycles per minute horizontal motion produces a very effective polishing action, providing superior results, exceptional flatness and less deformation.



Safe and effective results

- Vibratory polisher removes minor deformation remaining after mechanical preparation, revealing the stress-free surface without need for the hazardous electrolytes required by electro-polishers.

High quality surface finish

- Combine the VibroMet 2 with MasterMet™ Colloidal Silica to chemomechanically polish a specimen to a surface finish suitable for electron-backscatter diffraction (EBSD).

Part Number	Voltage/Frequency
67-1635-160	115VAC, 60Hz
67-1635-250	220VAC, 50Hz

Dimensions: 21.5in [546mm]W x 23in [584mm]D x 14.5in [368mm]H

Accessories

67-1525	Specimen Holder, 2in [50mm] (Qty 3)	67-1530	Polishing Bowl Accessory
67-1526	Specimen Holder, 1in [25mm] (Qty 3)	67-1529	Specimen Weights (Qty 9)
67-1527	Specimen Holder, 1.25in [32mm] (Qty 3)	67-1541	Loading Fixture, 2in and 50mm
67-1528	Specimen Holder, 1.5in [38mm] (Qty 3)	67-1540	Loading Fixture, 1in [25mm], 1.25in [32mm], 1.5in [38mm]

Electropolishing & Etching Systems

The ElectroMet 4 and PoliMat 2 systems provide both electropolishing and etching capabilities to enable efficient sample preparation.

ElectroMet™ 4



ElectroMet 4 includes ElectroMet 4 Power Source, Polishing Cell and Etching Cell. *Products not available in Europe*

Part Number	Voltage/Frequency
70-1830-115	115VAC, 60Hz
70-1830-220	220-240VAC, 50Hz

Dimensions: 13.125in [333mm]W x 18.5in [470mm]D x 9in [229mm]H

Accessories

70-1832	ElectroMet 4 Polishing Cell
70-2015	Masks (Qty 5)
70-2100	Stainless Steel Cathodes
70-2105	Copper Cathode
70-3100	Etching Cell

PoliMat™ 2



Includes controller, complete polishing cell and 4 masks
Product only available in Europe

Part Number	Voltage/Frequency
511000	230VAC, 50/60Hz

Dimensions: 19.7in [500mm]W x 11.8in [300mm]D x 9.8in [250mm]H

Accessories

510010	Complete polishing cell
510100	Set of masks (1cm ² , 2cm ² , 10cm ² , and without hole)



Grinder Polisher Specialty & Support Equipment

EnvironMet™ System

Filtration and recirculation systems compatible with all grinder-polishers. The recirculating version removes down to 1 μ m particulates. The filter version removes down to 100 μ m particulates. The system requires no electrical connections and has a 6gal [23L] capacity. **Requires compressed air*



Part Number

49-2500 Recirculating Filter System (1 μ m Filter)

49-2501 Filter System (100 μ m Filter)

Dimensions: 25.5in [648mm]W x 20.5in [521mm]D x 16.8in [425mm]H

Accessories

49-2510	Replacement 1 μ m Filter Paper (Qty 100)
49-2520	Replacement 100 μ m Swarf Bag
49-2530	Castor Kit