

# MetaServ™ 250

Single & Twin Grinder-Polishers  
Vector™ & Vector LC 250 Power Heads



**BUEHLER**

Solutions for Materials Preparation, Testing and Analysis

# MetaServ™ 250 Grinder-Polisher Family

## Semi-automatic Power Head

- Single and Central force operation
- Accommodates up to 6 specimens
- Control mode, force, time, rotation, water
- On/off control of the Burst Dispensing System

## Manual Power Head

- Single force operation
- Economical, mechanical loading for 1-4 specimens
- On/off control of the Burst Dispensing System

## Versatile

- Available in single or twin base
- Twin base available in two speed ranges: 50-500rpm or 50-1200rpm
- Manual polishing standard
- Optional semi-automatic polishing with Vector or Vector LC 250 Power Heads

## Simple Operation

- Easy-to-use control panel
- Quick access to emergency stop

## Cleanability

- Adjustable water flow nozzle provides cooling where needed
- Built-in drain and bowl wash minimize debris build-up

## Durable Housing

- Molded base provides long lasting corrosion and impact resistance

## MetaServ 250 Grinder-Polisher Family

The MetaServ 250 family of grinder-polishers offers performance, economy and reliability for low volume preparation applications. Transform the standard speed single or twin base to a semi-automatic system with the addition of the Vector™ LC 250 power head or purchase the MetaServ 250 with Vector power head.

## Features and Benefits

- Available in single or twin base, accommodating 8in [203mm] or 10in [254mm] platens with an operating range of 50-500 rpm

- High speed twin base, with an operating range of 50-1200 rpm for manual high speed grinding applications only
- Single or central force polishing options available with the Vector and Vector LC 250 Power Heads\*
- Built-in drain and bowl wash flush away debris before it can build up
- Adjustable water flow nozzle keeps specimens cool during grinding
- Compatible with the Burst Dispensing System and Stadium Seating in manual and semi-automatic modes

\*Vector LC 250 Power Head, single force only



	MetaServ™ 250	MetaServ 250 Twin	MetaServ 250 with Vector™ Power Head
Platen Size / Qty.	8in [203mm] 10in [254mm]  1 Platen	8in [203mm] 10in [254mm]  2 Platens	8in [203mm] 10in [254mm]  1 Platen
Controls	Membrane	Membrane	Membrane
Preparation Style	Manual, Semi-Automatic	Manual, Semi-Automatic	Manual, Semi-Automatic
Power Heads Available	Vector LC 250	Vector LC 250	Vector Power Head
Motor	300 Watt		332 Watt
Platen Speed	50-500rpm	50-500rpm or 50-1200rpm*	50-500rpm
Base Power	85-264VAC, 50/60Hz, 1 phase		
Water Supply Pressure	14-18psi [1-2bar]		
Water Supply Flow	0.5gpm [2lpm]		
Dimensions (WxDxH)	17.8 x 28.9 x 9.5in [452 x 735 x 242mm] 24.5in [662mm] H with power head	31.7 x 28.9 x 10.2in [805 x 735 x 260mm] 24.5in [662mm] H with power head	17.8 x 28.9 x 23.25in [452 x 735 x 591mm]
Weight	44 lbs [20kg] 82 lbs [37kg] with power head	119 lbs [54kg] 157 lbs [71kg] with power head	82 lbs [37kg]
Compliance	CE and EC Applicable Directives		

\* 50-1200rpm for MetaServ 250 Twin High Speed Only

	Vector LC 250 Power Head	Vector Power Head
Head Speed	60rpm	60rpm
Voltage/Frequency	115/230VAC, 50/60HZ, 1 phase	NA
Sample Force	Single: 0-11 lbs [0-50N]	Single: 0-15 lbs [0-75N] / Central: 4-60 lbs [20-300N]
Sample Sizes	1in, 1.25in, 1.5in, 25mm, 30mm, 40mm	
Sample Capacity	Single: 1 - 4	Single: 1-4 / Central: 3-6
Air Supply	NA	55-85psi [3.8-5.8bar]
Drive Adapter	Single: 60-9005	Single: 60-9005 / Central: 60-2499

### MetaServ 250 Grinder-Polisher

- Single or Twin Platens, 8in [203mm] or 10in [254mm]
- Manual use or upgrade with Vector LC 250
- Compatible with Burst Dispensing System and Stadium Seating in manual and semi-automatic modes
- Twin version available in 50-500rpm or 50-1200rpm

Part Number		Voltage/Frequency
49-10055	Single	85-264VAC, 50/60Hz
49-10057	Twin	85-264VAC, 50/60Hz
49-10057HS	Twin - High Speed	85-264VAC, 50/60Hz

### Vector™ LC 250 Power Head

Part Number	Voltage/Frequency
60-10059-115	115VAC, 50/60Hz
60-10059-230	230VAC, 50/60Hz

### Vector LC 250 Single Force Specimen Holders

60-10060	4 x 1in
60-10061	4 x 1.25in
60-10062	4 x 1.5in
60-10063	4 x 25mm
60-10064	4 x 30mm
60-10065	4 x 40mm
60-9005	Single Force Drive Adapter

## MetaServ™ 250 with Vector Power Head

- Available only with Vector Power Head
- Central force applies forces of 4-60 lbs [20-300N] per holder, accommodating 3-6 specimens at a time
- Single force applies forces of 0-15 lbs [0-75N] per specimen accommodating 1-4 specimens at a time
- Compatible with Burst Dispensing System and Stadium Seating in manual and semi-automatic modes

### Part Number

49-10056

### Voltage/Frequency

85-264VAC, 50/60Hz

## Specimen Holders



Round/Barrel



Rectangle



Slides



Teardrop

### Single Force

For use with 60-9005 Drive Adapter.

Part Number	Style	Size	Capacity
60-3001	○	1in	4
60-3002	○	1.25in	4
60-3003	○	1.5in	4
60-3004	○	25mm	4
60-3005	○	30mm	4
60-3006	○	40mm	4
60-3000		1 x 2	4

### Central Force

For use with 60-2499 Drive Adapter.

Part Number	Style	Size	Capacity
60-2482	○	1in	6
60-2483	○	1.25in	6
60-2484	○	1.25in	3
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
60-2408	Blank		

## MetaServ 250 Accessories

40-4061 8in [203mm] Aluminum Platen

40-0500 10in [254mm] Aluminum Platen

16-2071 8in [203mm] Apex™ MagnoDisc with MagnoFix

16-2571 10in [254mm] Apex MagnoDisc with MagnoFix

30-2008 8in [203mm] Paper Holding Band

95-2825 10in [254mm] Paper Holding Band

## Burst Dispensing System

The optional Burst Dispensing System can be connected to the MetaServ Grinder-Polishers for manual and semi-automatic dispensing during preparation. This product improves both productivity and consistency by dispensing suspensions at fixed intervals and configurable rates.

40-10005 Burst Dispensing Module (shown)

See our Product Catalogue for more information on the Burst Dispensing System.



For a complete listing of accessories and consumables, please refer to our Product Catalogue. Buehler continuously makes product improvements; therefore technical specifications are subject to change without notice.

### Sectioning

AbrasiMet • AbrasiMatic • IsoMet

### Mounting

SimpliMet

### Grinding & Polishing

EcoMet • AutoMet • MetaServ

### Imaging & Analysis

OmniMet

### Hardness Testing

Wilson® Hardness



An ITW Company

### BUEHLER Worldwide Headquarters

41 Waukegan Road  
Lake Bluff, Illinois 60044-1699 USA  
P: (847) 295-6500  
Sales: 1-800-BUEHLER (1-800-283-4537)  
www.buehler.com  
info@buehler.com

**BUEHLER Germany**  
www.buehler-met.de  
info.eu@buehler.com

**BUEHLER France**  
www.buehler.fr  
info.fr@buehler.com

**BUEHLER United Kingdom**  
www.buehler.co.uk  
info.uk@buehler.com

**BUEHLER Canada**  
www.buehler.ca  
info@buehler.ca

**BUEHLER Asia-Pacific**  
www.buehler-asia.com  
info@buehler.com.hk

**BUEHLER China**  
www.buehler-asia.com  
china@buehler.com.hk