## MetaServ<sup>™</sup> 250

Single & Twin Grinder-Polishers Vector<sup>™</sup> & Vector LC 250 Power Heads





Solutions for Materials Preparation, Testing and Analysis

# MetaServ<sup>™</sup> 250 Grinder-Polisher Family



#### 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 semiautomatic system with the addition of the Vector<sup>™</sup> 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





	MetaServ™ 250	MetaServ 250 Twin	MetaServ 250 with Vector™ Power Head		
Platen Size / Qty.	8in [203mm] 10in [254mm]	8in [203mm] 10in [254mm]	8in [203mm] 10in [254mm]		
	1 Platen	2 Platens	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 <sup>+</sup>	50-500rpm		
Base Power		85-264VAC, 50/60Hz, 1 phase			
Water Supply Pressure					
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	liance CE and EC Applicable Directives				

\* Vector LC 250 Power Head not available for MetaSerz 250 Twin High Speed t 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
- Twin High Speed for manual applications only

## Vector<sup>™</sup> LC 250 Power Head

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

Part Number	r	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 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<sup>™</sup> 250 with Vector Power Head

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

#### Specimen Holders

(	Round/Ba	rrel	Recta	ngle D	Slides		
Single Force For use with 60-9005 Drive Adapter.					<b>Central Force</b> For use with 60-2499 Drive Adapter.		
Part Number	Style	Size	Capacity	Part Number	Style	Size	Capacity
60-3001	$\bigcirc$	1in	4	60-2482	$\bigcirc$	1in	6
60-3002	$\bigcirc$	1.25in	4	60-2483	$\bigcirc$	1.25in	6
60-3003	$\bigcirc$	1.5in	4	60-2484	$\bigcirc$	1.25in	3
60-3004	$\bigcirc$	25mm	4	60-2422	$\Diamond$	1.25in [32mm]	6
60-3005	$\bigcirc$	30mm	4	60-2485	$\bigcirc$	1.5in	3
60-3006	$\bigcirc$	40mm	4	60-2486	$\bigcirc$	30mm	6
60-3000	<u>_0-07</u>	1 x 2	4	60-2487	$\bigcirc$	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<sup>™</sup> 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.





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Part Number Voltage/Frequency 49-10056 85-264VAC, 50/60Hz

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