

VibroMet[®] 3

Vibratory Polisher



Precise

Target deformation for exceptional sample quality.



Versatile

Transition quickly between batches of various materials.



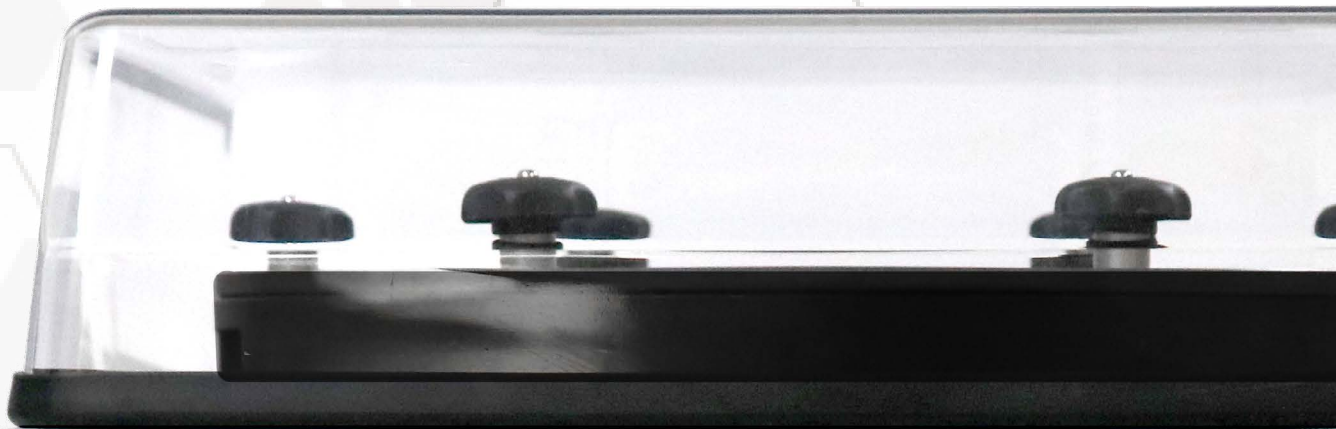
Dependable

Deliver repeatable, high quality surface finishes.

VibroMet 3

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VibroMet 3

VibroMet 3 Gives the Highest Quality Surface



The **VibroMet 3** sets the standard for producing top-quality sample surfaces across diverse applications, including EBSD analysis. Its advanced capabilities extend beyond traditional polishing methods, effectively eliminating the minor deformations that remain to produce a significantly enhanced polish. Programmable features, like saved methods and end-cycle sample protection, further ensure unparalleled sample quality and consistency between batches. Have confidence in your process and gain the advantage of the **VibroMet 3**.

Deformation Free Specimen Surface

- The horizontal-oscillating motor maximizes contact with the polishing surface as it moves and rotates samples around the working surface. This unique movement effectively eliminates the last traces of surface damage to create a mirror finish.
- Attain a surface finish suitable for AFM or EBSD analysis.
- Achieve outstanding results, even with mixed material and non-homogeneous specimens

Easy to Operate User Interface



1 Amplitude and Cycle Time Control

Customize settings to meet material needs. Amplitude can be adjusted according to desired speed of samples around the bowl.



2 End Cycle Control

Preventing crystallization is crucial for preserving sample integrity post-cycle. Upon cycle completion, select from options to either switch the motor OFF, maintain it ON, or activate Pulse mode, which stops the polish while preventing stagnation.



3 Saved Methods

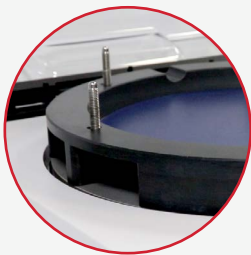
Ensure consistency between sample batches and recall your unique parameters with the push of a single button. 6 storage slots allow users to develop and save methods for a wide array of applications.

The **VibroMet 3's** programmable and user-friendly interface is designed to maximize consistency and efficiency in your process. Easily adjust parameters, save customized methods, and safeguard samples with end-cycle protection options.

Dependable & User-Friendly Operation

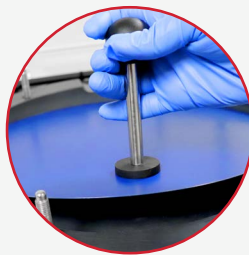
Easy Clean Polishing Bowl

The polishing bowl has been designed for effortless handling, cleaning, and secure attachment to the machine. With an easy-grip handle, users can swiftly remove the bowl for cleaning and consumable changes. Utilize the convenient pouring spouts to either preserve your polishing suspension or dispose of it with ease. Once cleaning is complete, use the quick securing knobs to quickly clamp the bowl down so you can start the next cycle.



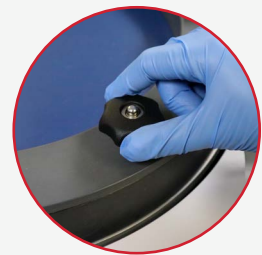
Easy Grip Handle

For quick removal
and cleaning



Easy Change Platens

Preserve or
dispose with ease



Quick Securing Knobs

Fast and secure
clamping

Ordering Information



VibroMet® 3

Vibratory Polisher

Part Number:
672105



All machines come with
Loading Fixture
(67-2140)

Technical Specifications

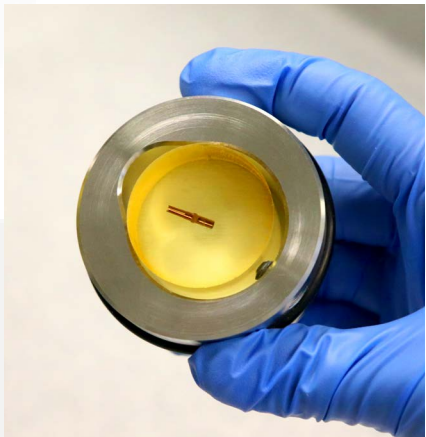
Operation

Main Power	100-240VAC, 1 phase, 50/60 Hz	
Main Current	115V: 3a	230V: 1.5a
Vibration Amplitude Range	0-100% (5% increments)	
Number Saved Methods	6	
Timer Range	99 hrs, 55 min; increments of 5 minutes	
End Cycle Motor Options	OFF, ON, PULSE	
End Cycle Notification	Optional Audible Alert	
Polishing Cloth Options	PSA & Carrier Plate	



Dimensions

Bowl Diameter	12in [305mm]
Width	20.6in [522mm]
Depth	23.8in [578mm]
Depth with Hood Open	28.5in [724mm]
Height	15in [381mm]
Height with Hood Open	28in [711mm]
Weight	160lbs [71.5kg]
Max Noise, 100% amplitude (1 meter from machine)	65dB
Sample Holder Sizes	1in/25mm, 1.25in/30mm, 1.5in/40mm, 2in/50mm



Required Accessories



Sample Holders (Qty 3)

Specimen holder with inserts for samples

67-2121	1in [25mm]
67-2122	1.25in [30mm]
67-2123	1.5in [40mm]
67-2124	2in [50mm]



Specimen Weights (Qty 9)

Increase the speed/effectiveness of polishing

67-2129



Polishing Bowl

Extra polishing bowl for VibroMet 3

67-2130



Loading Fixture

Specimen holder with inserts for samples

67-2140

Required Consumables



MasterPrep® Alumina

Sol-gel alumina suspension (0.05µm, ~8.5pH) is excellent for minerals, ferrous metals, carbides, precious metals, PWB's electronics and polymers.

63-6377-006	6oz [0.18L]*
40-6377-032	32oz [0.95L]
40-6377-064	64oz [1.9L]

*Not enough to fill polishing bowl



MasterMet® Colloidal Silica

Amorphous colloidal silica suspension (0.06µm, ~10pH) that provides chemo-mechanical polishing and is excellent for refractory metals, minerals and ceramics.

40-6370-006	6oz [0.18L]*
40-6370-064	64oz [1.9L]
40-6370-128	128oz [3.8L]

*Not enough to fill polishing bowl



Premium Polishing Cloths

Buehler's premium performance cloths are for all material applications and are engineered for long life & superior surface finish.



Scan QR code to view full line of premium cloths or click [here](#).

Polishing Cloth Setup

Pair the polishing bowl with one of Buehler's versatile cloth systems to suit your specific requirements. The PSA backed cloth can adhere directly to the polishing bowl, for quick application. For added convenience, users can opt for carrier plates enabling faster placement and removal of cloths.



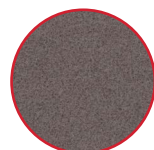
PSA cloth



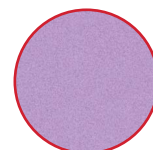
Carrier Plate with PSA cloth

Item	Part Number	Description
MicroCloth®	40-7222	Soft synthetic rayon, long nap
MicroFloc®	40-8322	Soft, long nap
MasterTex®	40-7742	Soft synthetic velvet, low nap
MagnoPad® (5)	16-3073	Teflon-coated carrier plate for easy removal

**All Cloths are PSA backed. Quantity of 10*



MicroCloth®



MicroFloc®



MasterTex®



BUEHLER



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