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QPOL VIBRO

VIBRATORY POLISHER





VIBRATORY POLISHING NEWLY DISCOVERED

The vibratory polishing device Qpol Vibro is designed for the virtually deformation-free preparation of specimen surfaces. It is ideal for further characterizations, e.g. EBSD (electron backscatter diffraction), AFM analysis and nanoindentation or micro hardness testing.

With a diameter of \emptyset = 308 mm the large bowl provides sufficient space for polishing of completely filled sample holders, large specimens, as well as for simultaneously polishing up to 21 specimens. Held by strong magnets the polishing bowl can be easily removed by pressing a button and exchanged by simply putting it back into the device – the magnetic forces will do their job.

The clamping ring protects the edge of the polishing cloth to ensure a long service life. In addition, the ring delimits the polishing area and enables the sample holders to move evenly. The bowl is designed for the use of polishing cloths on magnetic systems. Consequently, the cloth is quickly and easily removed.



Click to view video

PRODUCT ADVANTAGES

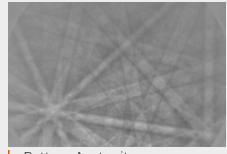
- Rapidly exchangeable polishing bowl with magnetic system
- Automatic frequency control from 60-120 Hz
- Surface-Guard reduces crystallization of the suspension and corrosion of the specimen surface
- Pre-installed preparation methods and consumable list
- Low-noise operation and vibration-adsorbing construction
- Transparent hood made of acrylic glass with soft-closing system
- Preparation for external suction
- Memory for 200 custom preparation methods



ANALYSIS AND CHARACTERIZATION OF THE PREPARED SURFACES



EBSD-Austenite



Pattern Austenite



Pattern-index Austenite

VIBRATORY POLISHER QPOL VIBRO

BENEFITS

The Qpol Vibro offers silent operation based on its robust, high-quality design, innovative vibratory transmission angle, and vibrational motor with oscillation compensation. It may run for hours without any noticeable noise development. The oscillation compensation of the vibrational motor prevents the vibrations from being transmitted to the machine case or bench, thus ensuring silent operation of the Qpol Vibro. The exhaust connection plug may be connected to an external exhaust system to safely discharge moisture or gases, thus providing a safe working environment for the operator.

The transparent, soft-closing hinged hood shows the premium quality of QATM machines and devices. It protects the suspension and specimens from contamination for achieving best preparation results. The Qpol Vibro offers a wealth of features but is still compact and lightweight – with a weight of only 45 kg it is very suitable as a bench top device.



VIBRATORY POLISHER QPOL VIBRO

POLISHING - 3 EASY STEPS



Setting up the polishing bowl



Inserting the mounted sample



Filling in the suspension



CLEAR, ROBUST DESIGN MADE IN GERMANY

SUPERIORITY IN DETAIL

- 1. Exhaust connection plug
- Connection to an exhaust air system improves health and safety conditions for the operator
- 2. USB and Ethernet plug
- Ethernet plug for remote control and service applications; USB plug to save and exchange data
- 3. Exchangeable polishing bowl
- Magnetic clamping system allows fast and easy change of polishing bowl with release button, no additional tools required
- Polishing bowl with lid, if several polishing bowls are used
- QATM Surface-Guard reduces crystallization of the suspension or corrosion of the specimens after end of preparation method using automatically pulsed intervals
- 4. Soft-closing hood
- Best monitoring conditions due to transparent hood made of acrylic glass with soft-closing system
- Protects specimens, polishing cloth, and suspension from contamination
- 5. Touch Display
- Intuitive and easy user interface
- Pre-installed preparation methods and consumables
- Edit and save up to 200 customized preparation methods





SIMPLY CLEVER NEWLY DESIGNED USER INTERFACE

The innovative design of the Qpol Vibro software provides intuitive and user-friendly operation. 15 preparation methods for various materials are pre-installed, together with the appropriate consumables. The Qpol Vibro offers storage of up to 200 customized methods both on the device or on USB, allowing a transfer of methods from one device to another. These may be programmed without any restriction in duration or in vibration intensity. The device may be operated in manual or automatic mode. The selectively choosable alert function (timer) informs the operator that a program has ended. QATM invented a special operating mode to protect the prepared surface after preparation has finished: the Surface-Guard preserves the high quality of the prepared surface by preventing e.g. corrosion.

The Qpol Vibro is equipped with automatic frequency control which optimizes the oscillation frequency depending on the specific load of the bowl. The Qpol Vibro may be operated without supervision and almost without time-limit. This yields best polishing results and gives the user time for other tasks.



QATM Surface-Guard

left: corrosion on specimen right: with Surface-Guard



Main Menu



Automatic mode

Programm: S	Programm: Stahl 350HV 08:				08:24
<u>î</u>	DiaCompl ete Mono 3µm	DiaCompl ete Mono 1µm	DiaCompl ete Poly Bµm	DiaCompl ete Poly 1µm	DiaCompl ete Poly 0,25µm
	Eposal 0,06µm	Eposil F 0,1µm	Eposil M 0,06µm	Eposil M11 0,06µm	Etosil E 0,06µm
USER	IOTA	ZETA		n +49 (0) 2 +49 (0) 26 Mail: info@	

Menu consumables

Stahl 150350HV		4	\square	
Keramik Kupfer & Leg Mineralien	٨	È		
Reinigungsprogramm Stahl 150350HV	V		3-Funktior tick ansch	

Menu preparation methods



FOR OPTIMUM RESULTS

WIDE SELECTION OF ACCESSORIES



SAMPLE HOLDERS

- Ø 25-25.4 mm (1"), 300 g, additional weight 90 g
 Ø 25-25.4 mm (1"), 300 g,
- additional weight 90 g Ø 38-40 mm (1 1/2"), 550 g,
- additional weight 190 g Ø 50 mm (2"), 360 g, additional weight 190 g



LEVELLING DISCS QPOL VIBRO

- For levelling of mounted specimens
- Suitable for specimen with diameter 25-50 mm, 1-2"
- Special levelling discs for specimens with diameter 60 mm and 70 mm



Special sample holders

- Ø 60 mm, 875 g, additional weight 190 g
- Ø 70 mm, 605 g, additional weight 190 g





POLISHING BOWL

- Large bowl with Ø = 308 mm (inner diameter) for polishing non- mounted specimens, filled sample holders, and for simultaneous polishing of up to 21 specimens
- Fast and easy changing of the bowl due to release button and magnetic system
- Strong hold of bowl by magnetic forces
- Especially designed for all polishing cloths with magnetic system
- Lid protects polishing cloth from contamination



POLISHING CLOTHS

- lota, Ø 300 mm (long flocked, soft synthetic cloth)
- Zeta, Ø 300 mm (short flocked, soft synthetic cloth)
- Further polishing cloths Ø300 mm available



SUSPENSIONS

- Eposal
 - Eposil F, Eposil M
- Eposil Non Dry
- Etosil E

PERFECT GRINDING AND POLISHING – CONSUMABLES BY QATM

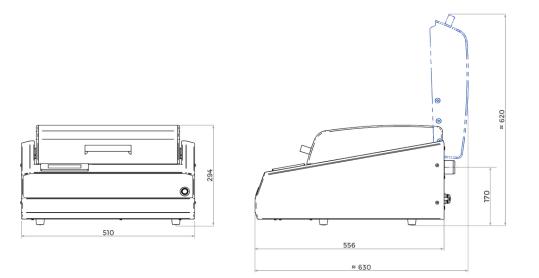
Grinding and polishing is more reliable, safe and efficient when processed with the right ingredients: knowledge, care and the right choice of consumables and instruments.



VIBRATORY POLISHER QPOL VIBRO



TECHNICAL DATA



300 mm / 305 mm (12")
USB, Ethernet
40 mm
60 - 120 Hz
10 - 40 °C
0.25 kVA
135 VA
510 x 300 x 590 mm
~ 45 kg

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ORDER DATA

BASIC EQUIPMENT

MACHINE (ALL ITEMS REQUIRED)

M5651000

Qpol Vibro Base machine

POWER SUPPLY (1 ITEM REQUIRED)

A5651001	Qpol Vibro power supply 230V/50Hz (1Ph/N/PE)
A5651002	Qpol Vibro power supply 110V/60Hz (1Ph/N/PE)

OPTIONS (CAN BE ORDERED SEPARATELY)

Z5651000	9	Polishing bowl
Z5651008		Sample holder 25mm (1")
Z5651009		Sample holder 30-32mm (1 1/4")
Z5651011		Sample holder 38-40mm (1 1/2")
Z5651021	\$ \$	Sample holder glass slide 48x28 mm
Z5651012		Sample holder Ø50mm (2")
Z5651013		Saphir Vibro Levelling plate
Z5651014		Saphir Vibro starter set

POLISHING CONSUMABLES

ACCESSORIES FOR GEOLOGY AND MINERALOGY

BONDING JIG

SPECIAL PRESSURE TRANSDUCERS FOR THE SIMULTANEOUS PROCESSING OF FOUR SAMPLES
 FOR TRADITIONAL MOUNTING MEDIA AND ADHESIVES

95017722

Bonding jig

1 pc



SLIDES		
95017713	Slide 48x28 mm, cutted edges, clear	50 pcs
95017714	Slide 48x28 mm, ground edges, clear	50 pcs
95017715	Slide 48x28 mm, cutted edges, matted	50 pcs
95017716	Slide 48x28 mm, ground edges, matted	50 pcs

COVERSLIP		
95017717	Coverslip 24x24 mm	100 pcs
95017718	Coverslip 24x40 mm	100 pcs

SLIDE BOXES				
95017719		Slide box for 25 slides, wood	1 pc	
95017720		Slide box for 50 slides, wood	1 pc	
95017721		Slide box for 100 slides, wood	1рс	

COVER ME	DIUM		
95017723		Cover medium, xylene free	100 ml

HOLDER FO	OR SLIDE	S	
95017724	5	Hand sample holder for 48x28 mm slides cast aluminum, ergonomic working on manual grinding machines, 56x36x20 mm	1 pc



95017725		Holder for microscope slides 76x32 to 48x28 mm for microscopy, for the use of all microscope slides, 2.0 mm thick	1 pc
SAMPLE HC	LDERS		
Z5446091		Sample holder Geology, single pressure, incl. 3x sample holder insert 'Giessener format' 48x28 mm	1 рс
Z5651021	\$	Sample holder Qpol Vibro for thin sections, 'Giessener format' 48x28 mm	l pc