



VIBRATORY POLISHER

# QPOL VIBRO

## 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  $\varnothing = 308$  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.

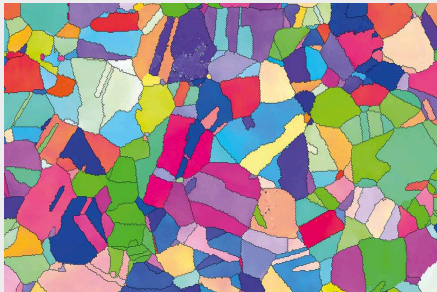


[Click to view video](#)

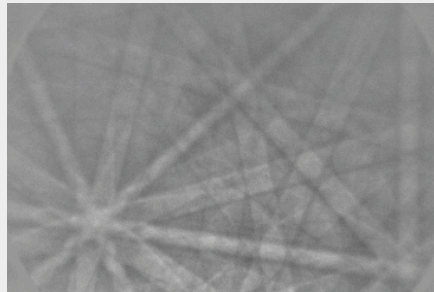
### PRODUCT ADVANTAGES

- | 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

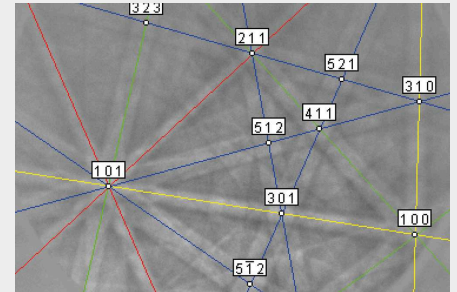
## ANALYSIS AND CHARACTERIZATION OF THE PREPARED SURFACES



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

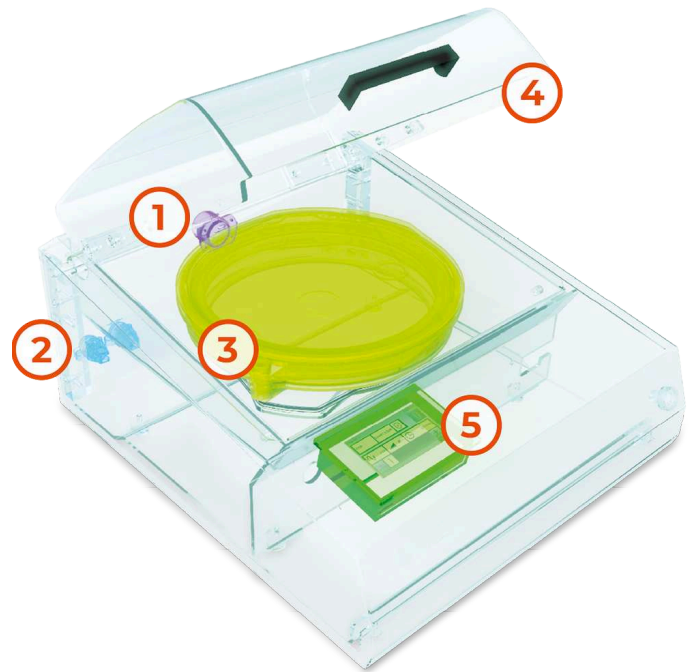
- | Magnetic clamping system allows fast and easy change of polishing bowl with release button, no additional tools required
- | Polishing bowl with lid, if several polishing bowls are used
- | QATM Surface-Guard reduces crystallization of the suspension or corrosion of the specimens after end of preparation 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

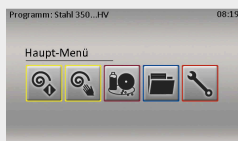
## NEWLY DESIGNED USER INTERFACE

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.

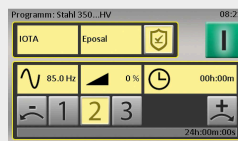
The Qpol Vibro is equipped with automatic frequency control which optimizes the oscillation frequency depending on the specific load of the bowl. The Qpol Vibro may be operated without supervision and almost without time-limit. This yields best polishing results and gives the user time for other tasks.



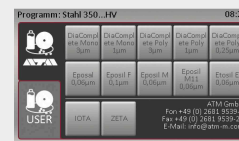
QATM Surface-Guard



Main Menu



Automatic mode



Menu consumables



Menu preparation methods

left: corrosion on specimen  
right: with Surface-Guard

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  $\varnothing = 308$  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

- | Iota,  $\varnothing 300$  mm (long flocked, soft synthetic cloth)
- | Zeta,  $\varnothing 300$  mm (short flocked, soft synthetic cloth)
- | Further polishing cloths  $\varnothing 300$  mm available



### SUSPENSIONS

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

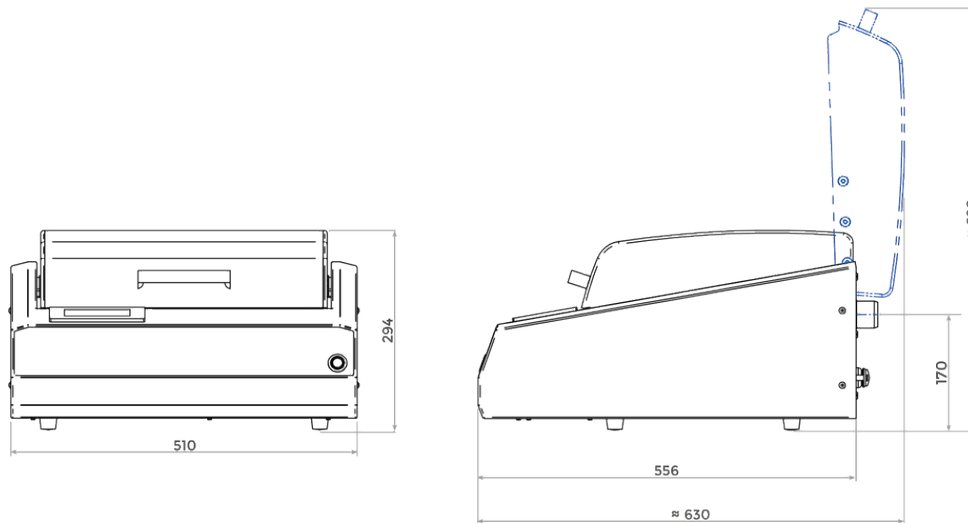
## PERFECT GRINDING AND POLISHING – CONSUMABLES BY QATM

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



<b>Polishing cloth diameter</b>	300 mm / 305 mm (12")
<b>Plugs</b>	USB, Ethernet
<b>Exhaust connection plug Ø</b>	40 mm
<b>Vibration frequency</b>	60 - 120 Hz
<b>Ambient temperature</b>	10 - 40 °C
<b>Connection power</b>	0.25 kVA
<b>Drive power</b>	135 VA
<b>W x H x D</b>	510 x 300 x 590 mm
<b>Weight</b>	~ 45 kg

[www.qatm.com/qpol-vibro](http://www.qatm.com/qpol-vibro)

## 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  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	1 pc

## COVER MEDIUM



95017723		Cover medium, xylene free	100 ml
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## HOLDER FOR SLIDES

95017724		Hand sample holder for 48x28 mm slides cast aluminum, ergonomic working on manual grinding machines, 56x36x20 mm	1 pc
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95017725		Holder for microscope slides 76x32 to 48x28 mm for microscopy, for the use of all microscope slides, 2.0 mm thick	1 pc
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SAMPLE HOLDERS

Z5446091		Sample holder Geology, single pressure, incl. 3x sample holder insert 'Giessener format' 48x28 mm	1 pc
Z5651021		Sample holder Qpol Vibro for thin sections, 'Giessener format' 48x28 mm	1 pc