



**AUTOMATIC GRINDING & POLISHING MACHINES**

**QPOL 250 A1-ECO / QPOL 250 A2-ECO**

## AUTOMATIC GRINDING & POLISHING MACHINES

# QPOL 250 A1-ECO / QPOL 250 A2-ECO



The Qpol 250 A1/A2-ECO are single or twin wheel grinding & polishing machines for the materialographic laboratory, suitable for working wheels Ø 200/250 mm.

The new holder for the working wheel (single-disc design) enables materialographic sample preparation without carrier disc without

compromising performance. The control software allows to edit and save up to 200 preparation methods, protected by a user account management. The process of the current preparation is visualized by a status bar. It is possible to select an additional acoustic signal at the end of each preparation step in the service menu.

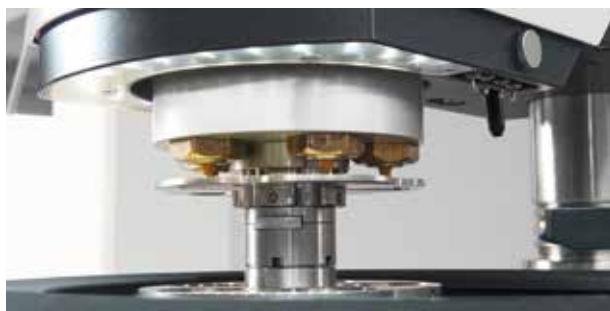


### OPERATING COMFORT

The ECO grinding & polishing head with adjustable swivelling limits is equipped with recessed grips on both sides and integrated buttons for easy swivelling and adjustment. A large gap between the working surface and the polishing head ensures convenient changing of the sample holder.

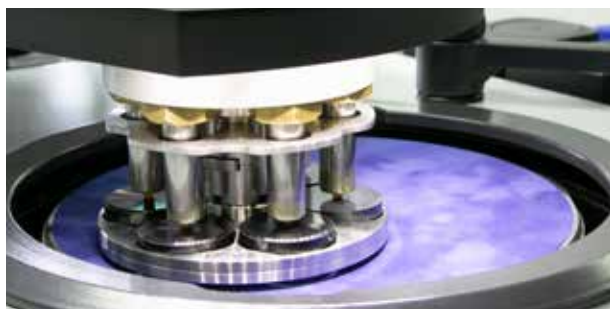
### SINGLE-DISC DESIGN

After removal of the splash protection ring, the working wheel is freely accessible. The wheel is automatically arrested when placed on the new mounting system. On lifting the wheel, all parts below are accessible for easy cleaning.



## ECO POLISHING HEAD

The ECO polishing head is equipped with LED illumination of the working area and a holder for the nozzles of the Qdoser ECO dosing system. Water is supplied automatically via the head.



## VARIABLE SPEED

The grinding & polishing head ECO exerts 5 - 80 N in single pressure and 20 - 350 N in central pressure mode. Up to 6 samples Ø 40 mm can be moved at variable speed with sample holders Ø 130 mm.



## SAMPLE HOLDERS

QATM offers a wide selection of standard sample holders in various diameters and for different applications and machines. Samples with unusual dimensions can be clamped with the help of special design sample holders.



## ELECTRONIC CONTROL SYSTEM

The machine is operated and programmed via the 4.3" touch screen. Preparation methods for sample preparation may be edited and saved. It is also possible to prepare samples manually.



## OPTIONAL DOSING UNIT QDOSER ECO AND QDOSER ONE

The automatic grinders and polishers can be combined with the fully automatic dosing system Qdoser ECO or the manual dosing solution Qdoser One, thus offering a high degree of flexibility for sample preparation and ease of use.



## BASIC MODULE

### Qpol 250 A1-ECO/A2-ECO

- | Qpol 250 A1-Eco: single wheel grinder & polisher
- | Qpol 250 A2-Eco: twin wheel grinder & polisher
- | Including polishing head Eco
- | Single and central pressure
- | Variable speed of working wheel and polishing head
- | Working wheel and polishing head: clockwise/counter-clockwise rotation
- | 4.3" Touch-Screen with intuitive QATM user software
- | 200 customized programs storable
- | Adjustable swiveling stop position of polishing head
- | Economic LED illumination
- | Manual water inlet
- | Automatic water supply on the polishing head
- | Basin rinsing tube
- | Aluminium case, powder coated
- | Impact-proof plastic bowl
- | Incl. splash ring and cover
- | USB plug for data exchange and software updates
- | Ethernet plug for online-diagnostics and user support
- | Easy, fast and tool-free change of working wheel
- | Easy cleaning/rinsing of bowl by lifting the working wheel
- | Spin cycle feature (cleaning Boost)
- | Combinable with dosing unit Qdoser ECO
- | 4-times dosing unit Qdoser ECO integrable in polishing head ECO

#### Qpol 250 A1-ECO

200-240 V / 50/60 Hz  
(1Ph/N/PE)

Order No.: M5631041

100-120 V / 50/60 Hz  
(1Ph/N/PE)

Order No.: M5631046

#### Qpol 250 A2-ECO

200-240 V / 50/60 Hz  
(1Ph/N/PE)

Order No.: M5631051

100-120 V / 50/60 Hz  
(1Ph/N/PE)

Order No.: M5631056

## ACCESSORIES

### SETTLING TANK



- | 2-chamber-compartment, 45 ltr.
- | for System lab cabinet (insertion mechanism)

referring height of System cabinet H 800 mm

Order No.: A5810261

referring height of System cabinet H 900 mm

Order No.: A5810237



- | inlet sieve and filter bag
- | mobile

Order No.: A5800496

### WORKING WHEELS Qpol 250



- | Single-disc design

Ø 200 mm

Order No.: Z5631001

Ø 250 mm

Order No.: Z5631002

### CLAMPING RINGS Qpol 250

- | for working wheels Qpol 250 M/A
- | plastic

Ø 200 mm

Order No.: Z5631003

Ø 250 mm

Order No.: Z5631004

## ZUBEHÖR

### CONNECTION SET

|                 |                     |
|-----------------|---------------------|
| 1 drain tube    | Ø 40 mm; 1.5 m long |
| 1 pressure tube | R ½"; 2 m long      |

Order No.: Z5600009

### STANDARD SAMPLE HOLDER M FOR SINGLE PRESSURE

|            |            |
|------------|------------|
| Samples    | 6x Ø 40 mm |
| Dimensions | Ø 130 mm   |

Order No.: Z5445025

more sample holders as of page 3.61

### BASIC SET Qpol 250 A1-ECO

Order No.: Z5631010

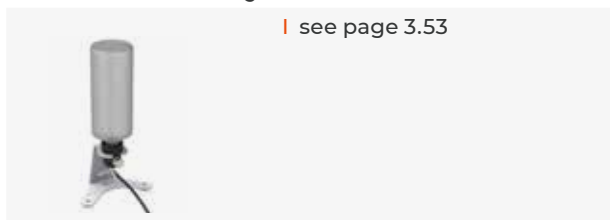
### BASIC SET Qpol 250 A2-ECO

Order No.: Z5631011

## OPTION

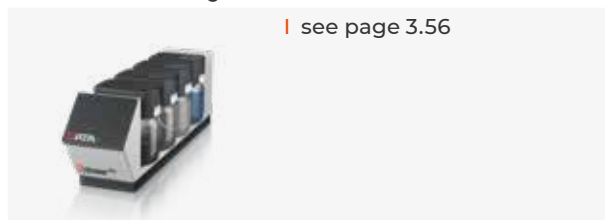
### DOSING BOTTLE Qdoser ONE

| see page 3.53



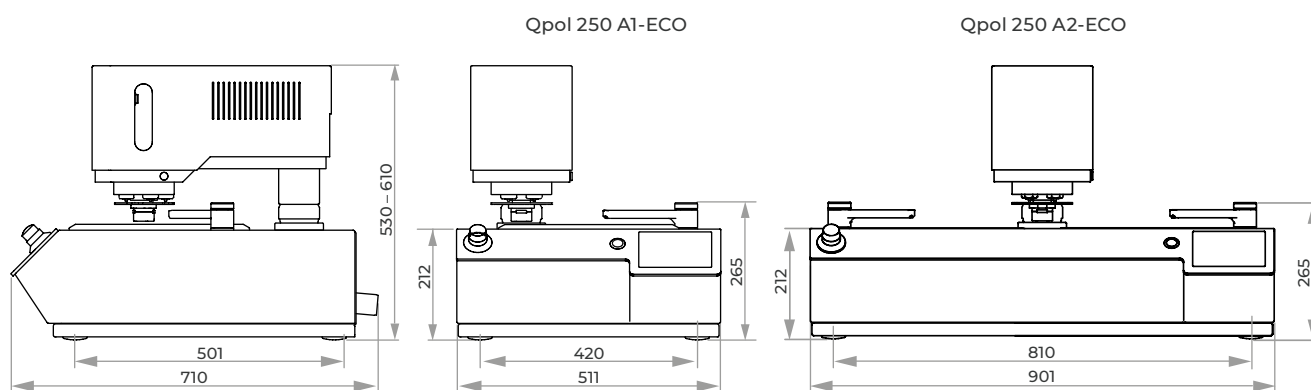
### DOSING UNIT Qdoser ECO

| see page 3.56



## SPECIFICATIONS

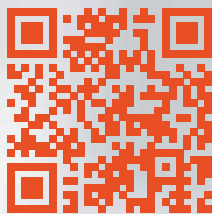
|                  | Qpol 250 A1-ECO                                                        | Qpol 250 A2-ECO                                                    |
|------------------|------------------------------------------------------------------------|--------------------------------------------------------------------|
| Working wheels   | Ø 200/250 mm                                                           | Ø 200/250 mm                                                       |
| Connected load   | 2.3 kVA                                                                | 2.3 kVA                                                            |
| Power supply     | 1 200-240 V / 50/60 Hz (1Ph/N/PE)<br>2 100-120 V / 50/60 Hz (1Ph/N/PE) | 200-240 V / 50/60 Hz (1Ph/N/PE)<br>100-120 V / 50/60 Hz (1Ph/N/PE) |
| Speed            | 30-600 rpm                                                             | 30-600 rpm                                                         |
| WxHxD            | ~ 511 x 530-610 x 710 mm                                               | ~ 901 x 530-610 x 710 mm                                           |
| Weight           | 64-72 kg                                                               | 78-85 kg                                                           |
|                  | POLISHING HEAD ECO                                                     | POLISHING HEAD ECO                                                 |
| Single pressure  | 1-6 samples, max. Ø 40 mm                                              | 1-6 samples, max. Ø 40 mm                                          |
| Central pressure | depending on holder                                                    | depending on holder                                                |
| Speed            | 30-160 rpm                                                             | 30-160 rpm                                                         |
| Sample downforce | variable                                                               | variable                                                           |
| Single pressure  | 5-80 N                                                                 | 5-80 N                                                             |
| Central pressure | 20-350 N                                                               | 20-350 N                                                           |



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