

AUTOMATIC GRINDING & POLISHING MACHINES
QPOL 300 A1-ECO+ / QPOL 300 A2-ECO+


The Qpol 300 A1/A2-ECO+ are single or twin wheel grinding & polishing machines for the materialographic laboratory, suitable for working wheels Ø 250/300 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.

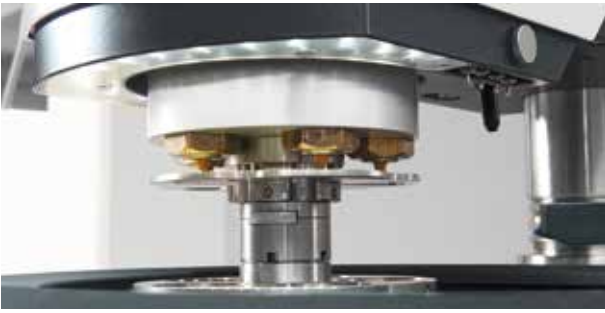

OPERATING COMFORT

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

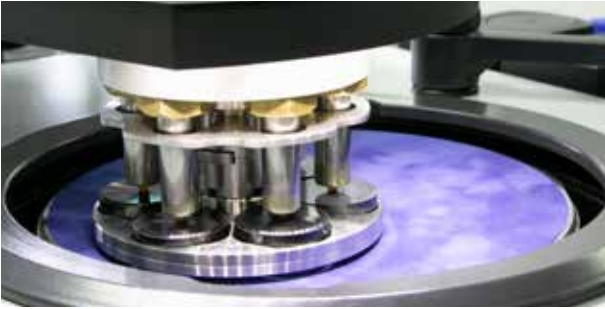
After removal of the splash protection ring, the working wheel is freely accessible. The wheel is automatically arrested when placed on the new mounting system.

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 and Qdoser ECO+ dosing systems. 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 50 mm can be moved at variable speed with sample holders Ø 185 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, QDOSER ECO+ AND QDOSER ONE

The automatic grinders and polishers can be combined with the fully automatic dosing system Qdoser ECO/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 300 A1-ECO+/A2-ECO+

- | Qpol 300 A1-ECO+: single wheel grinder & polisher
- | Qpol 300 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
- | Working wheels separately controlled (Qpol 300 A2-ECO+)
- | 4.3" Touch-Screen with intuitive ATM 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. splashing 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 platen (single-disc design)
- | Spin cycle feature (Cleaning Boost)
- | Combinable with dosing unit Qdoser ECO or Qdoser ECO+
- | 4-times dosing unit Qdoser ECO integrable in polishing head ECO+

Qpol 300 A1-ECO+

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

Order No.: M5631101

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

Order No.: M5631106
Qpol 300 A2-ECO+

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

Order No.: M5631111

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

Order No.: M5631116
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 300

- | Single-disc design

Ø 250 mm

Order No.: Z5631002

Ø 300 mm

Order No.: Z5631007
CLAMPING RINGS Qpol 300

- | for working wheels Qpol 300 M/A
- | plastic

Ø 250 mm

Order No.: Z5631004

Ø 300 mm

Order No.: Z5631009

ZUBHÖR
CONNECTION SET

1 drain tube	Ø 40 mm; 1.5 m long
1 armored tube	R ½"; 2 m long
1 pressure tube	3 m long with coupling and screw thread R3/8"

Order No.: Z5600009

BASIC SET Qpol 300 A1-ECO+

1 splash guard ring, 1 cover, 4 sealings plugs for handles

Order No.: Z5631012

BASIC SET Qpol 300 A2-ECO+

2 splash guard rings, 2 covers, 4 sealings plugs for handles

Order No.: Z5631013

STANDARD SAMPLE HOLDER FOR SINGLE PRESSURE

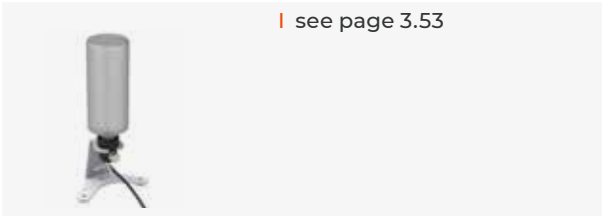
Samples	6x Ø 50 mm
Dimensions	Ø 160 mm

Order No.: Z5446026

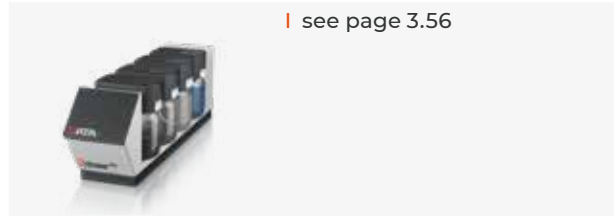
more sample holders as of page 3.61

OPTION
DOSING BOTTLE Qdoser ONE

| see page 3.53


DOSING UNITS Qdoser ECO/ECO+

| see page 3.56


SPECIFICATIONS

	Qpol 300 A1-ECO+	Qpol 300 A2-ECO+
Working wheels	Ø 250/300 mm	Ø 250/300 mm
Connected load	2.8 kVA	3.3 kVA
Power supply	1 200-240 V / 50/60 Hz (1Ph/N/PE) 2 100-120 V / 50/60 Hz (1Ph/N/PE)	200-240 V / 50/60 Hz (1Ph/N/PE) 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 50 mm	1-6 samples, max. Ø 50 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

