

**QPOL 250 BOT**

The compact fully automatic grinding and polishing robot Qpol 250 BOT combines the complete grinding and polishing process, including ultrasonic cleaning in one machine.

16x disc changer, 6x dosing unit and an integrable sedimentation tank fits perfectly into the System lab.

**DOSING UNIT**

Dosing and bottles depot are easily accessible and clearly arranged in the cabinet. Optional level monitoring and magnetic stirrer.



Intuitive user interface via touch screen and a user friendly fixation system for central force sample holder enable preparation results in shortest time. All parameters can be adjusted during the automatic process.

**SETTLING TANK**

The insertible settling tank is invisibly integrated into the cabinet with all its connections (option).

**DISC CHANGER**

The storage elevator contains up to 16 different grinding discs, such as SiC paper or Galaxy discs. During cleaning the sample, the foil changer replaces the grinding media and fixes it with the Vacu-Jet system automatically.

**CLEANING STATION**

The cleaning station enables a fully automatic multi-step cleaning of the sample with water, air and alcohol. Cleaning times and steps are completely adjustable as needed. The ultrasonic cleaning station provides intermediate or final cleaning.



**GRINDING & POLISHING ROBOT**

**QPOL 250 BOT**

- | grinding- and polishing robot with central pressure
- | intuitive operation via QATM touchscreen surface
- | variable speed control of working wheel and polishing head
- | same & counter direction grinding
- | stock removal measurement
- | automatic abrasive changer (16-fold)
- | abrasive carrier fastening by VacuJet
- | working wheel cooling / bowl rinsing with interval switching
- | cleaning station with water, air and ethanol
- | ultrasonic cleaner
- | 6-fold dosing unit
- | level warning dosing system (optional)
- | magnetic stirrer (optional)
- | storage drawer for abrasives (optional)
- | settling tank 45L (optional)
- | aluminium case, powder-coated
- | safety light barrier
- | LED working space lighting
- | preparation for air extraction
- | up to 200 programs with all parameters storable, protected per password
- | USB interface for creating program backup
- | e-lab ready

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

Order No.: M5805050

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

Order No.: M5805051

**EQUIPMENT**

**DOSING**

**Equipment 1**

- | Dosing system basic

Order No.: A5805050

**Equipment 2**

- | Dosing system standard
- | with level warning

Order No.: A5805051

**Equipment 3**

- | Dosing system standard plus
- | with level warning and magnetic stirrer

Order No.: A5805052

**ACCESSORIES**

**SETTLING TANK**



- | 2-chamber PVC tank 45 liter
- | mobile, with insertion mechanism for System Lab cabinets

Order No.: A5810237

**CONNECTION SET**

- 1 drain tube                      Ø 50 mm; 1.5 m long
- 1 armored tube                    R 1/2"; 2 m long
- 1 pressure tube                    R 3/8" coupling and screw thread; 3 m

Order No.: Z5805001

## SPECIFICATIONS

Connected load	3.7 kVA
Power supply	220 - 230 V 50/60 Hz (1PH/N/PE)

### grinding station

Working wheel- $\varnothing$	250 mm
Working wheel speed	50 - 600 rpm

### Cleaning station

Cleaning media	air, water, ethanol
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### Ultrasonic cleaning station

Capacity	2 L
HF-power	50 W
Frequency	40 kHz

### Abrasive changer

Storage	16 different grinding media
abrasive- $\varnothing$	250 mm

### Grinding and polishing head

Speed	30 - 150 rpm, clockwise/anti-clockwise
Pressure	20 - 400 N
Controlled removal	automatic; 0.1 mm display accuracy
Sample holder	$\varnothing$ 160 mm
WxHxD	1320 x 1500 x 800 mm
Weight	~ 310 kg

