



GRINDING & POLISHING ROBOT

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.

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.

The benefits of automation with the Qpol 250 BOT:

- | **Automated Processes:** Grinding, polishing, and cleaning are fully automated.
- | **Flexible Media Selection:** Choose customized media tailored to your specific needs.
- | **High Reproducibility:** Ensure consistent results through reliable processes.



[Click to view video](#)

Product Video

PRODUCT ADVANTAGES

- | Grinding- and polishing system with central pressure
- | Aluminium case, powder-coated
- | Polishing head with variable speed
- | Removal measurement
- | Electronic control with touch screen
- | Automatic abrasive changer
- | Cleaning station with water, air and ethanol
- | Ultrasonic cleaner
- | 6-fold dosing unit (4x diamond suspension or lubricant, 2x fine polishing suspension)
- | Storage drawer for abrasives
- | Settling tank 45L
- | Light barrier to secure danger area

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CONVINCING BENEFITS



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.



SETTLING TANK

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

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



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.



DOSING UNIT

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

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SUPERIORITY IN DETAIL

1. Robust housing

- | Robust powder-coated aluminum housing
- | Seamless integration into the system laboratory

2. Integrated cleaning station

- | Cleaning with ultrasound, water, and ethanol
- | Drying via compressed air
- | No contamination

3. Media changer

- | Up to 16 grinding and polishing media

4. 10" industrial touchscreen

- | Intuitive QATM user interface
- | Up to 200 user-defined preparation methods

5. Intelligent tool head

- | Removal measurement thanks to force sensors
- | Variable speed

6. Sophisticated safety concept

- | Light barrier prevents access to the danger zone



THIS INSTRUMENT IS IDEALLY
SUITED FOR GEOLOGY AND
MINERALOGY APPLICATIONS



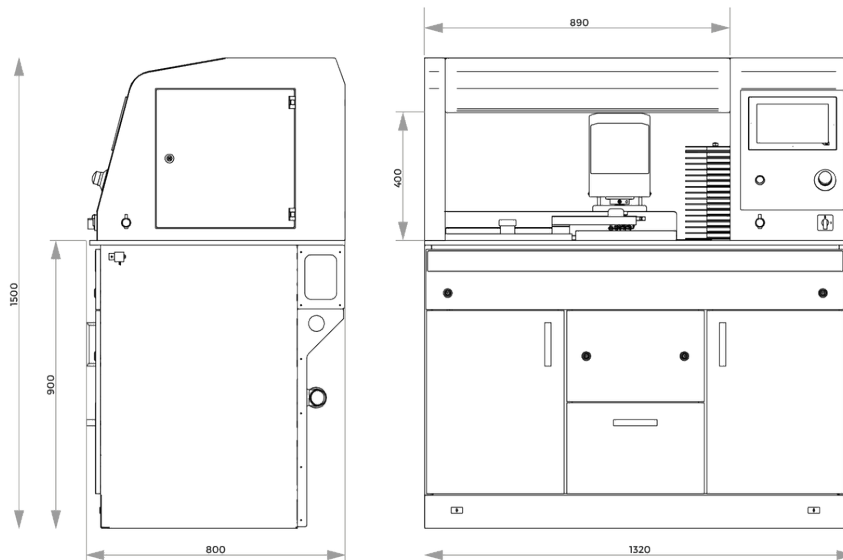
PERFECT GRINDING AND POLISHING – CONSUMABLES BY QATM

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.



GRINDING & POLISHING ROBOT QPOL 250 BOT

TECHNICAL DATA



Working wheels	ø 250 mm
Drive power	1.1 kW S3/40%
Sample holder-ø	160 mm
Drive power polishing head	0,17 kW S1
Speed (head)	30 - 150 rpm
Speed (grinder)	50 - 600 rpm
Controlled removal measurement (display accuracy)	0.1 mm
Water connection	1x fresh water R $\frac{1}{2}$ " max. 6 bar
Water outlet	1x waste water DN50
Compressed-air connection	6 bar. coupling connector NG8
W x H x D	1320 x 1500 x 800 mm


www.qatm.com/qpol-250-bot

ORDER DATA

BASIC EQUIPMENT

MACHINE (1 ITEM REQUIRED)

M5805050  Qpol 250 BOT Base machine 230V/50Hz

M5805051  Qpol 250 BOT Base machine 110V 60Hz

DOSING SYSTEM (TO BE ORDERED WITH THE MACHINE)

A5805050 Dosing system basic

A5805051 Dosing system standard

A5805052 Dosing system standard plus

OPTIONS (CAN BE ORDERED SEPARATELY)

Z5446030 Sample holder L-160-12-Ø-25 central pressure

Z5446031 Sample holder L-160-8-Ø-30 central pressure

Z5446034 Sample holder L-160-6-Ø-40 central pressure

Z5446035 Sample holder L-160-5-Ø-50 central pressure

Z5446030 Sample holder L-160-12-Ø-1" central pressure

Z5446032 Sample holder L-160-8-Ø-1 1/4" central pressure

Z5446033 Sample holder L-160-6-Ø-1 1/2" central pressure

Z5446035 Sample holder L-160-5-Ø-2" central pressure

Z5446036 Sample holder L-160-3-RE-55x30 central pressure

Z5446037 Sample holder L-160-3-RE-60x40 central pressure

Z5446038 Sample holder L-160-6-Ø-20-40 central pressure

Z5805001 Connection set

95005867  Carrier plate

05400114  Levelling plate Ø160mm 2mm

05400246

Levelling plate Ø160mm 4mm

A5810237



Settling tank 45L for System Lab 2, mobile, with insertion mechanism for cabinet 900