



GRINDING & POLISHING ROBOT

QPOL 250 BOT

qatm.com/products/grinding-polishing-etching/fully-automatic-grinder-polisher/qpol-250-bot/

QPOL 250 BOT

GRINDING & POLISHING ROBOT

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:

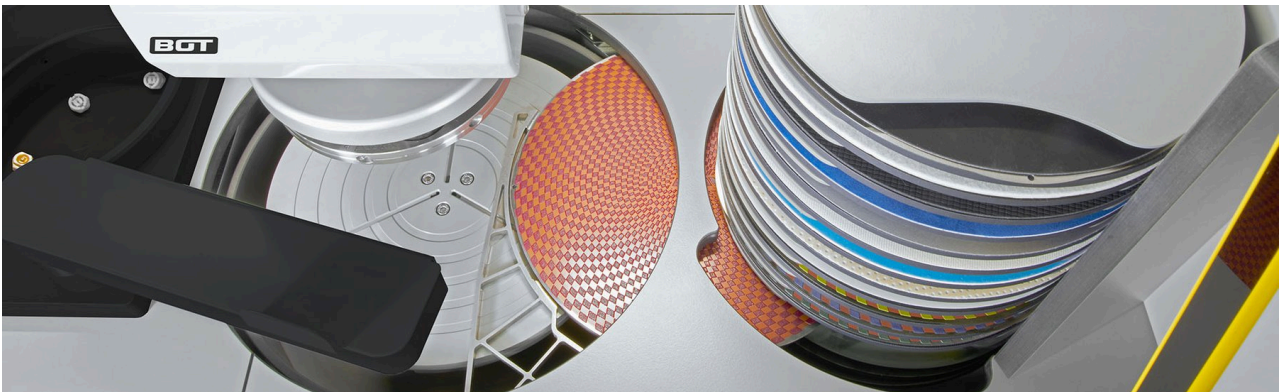
- | **Automated Processes:** Grinding, polishing, and cleaning are fully automated.
- | **Flexible Media Selection:** Choose customized media tailored to your specific needs.
- | **High Reproducibility:** Ensure consistent results through reliable processes.



QPOL 250 BOT

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

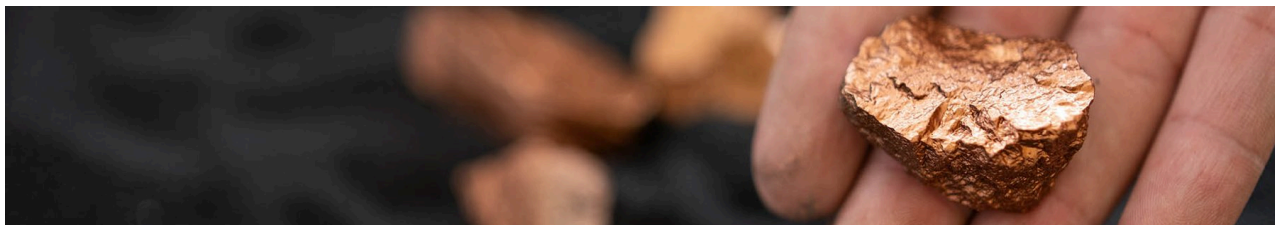
6 | SOPHISTICATED SAFETY CONCEPT

- | Light barrier prevents access to the danger zone



QPOL 250 BOT**GEOLOGY & MINERALOGY**

This instrument is ideally suited for geology and mineralogy applications.

**PREPARATION GUIDE →**

qatm.com/applications/geology-and-mineralogy/

QPOL 250 BOT**CONSUMABLES BY QATM****PERFECT GRINDING AND POLISHING**

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 →

qatm.com/products/consumables/grinding/

POLISHING →

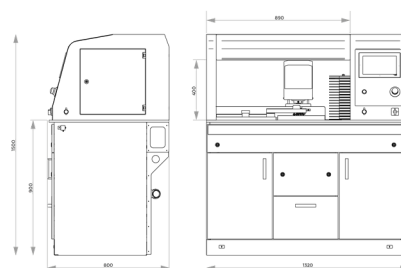
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TECHNICAL DATA

Working wheels	Ø 250 mm
Drive power	1.1 kW S3/40%
Sample holder-Ø	160 mm
Drive power polishing head	0,17 kW SI
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



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ORDERING INFORMATION

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

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