



DOSING UNIT

Dosing and bottles depot are easily accessible and clearly arranged in the cabinet.



SAPHIR X-CHANGE

The compact fully automatic grinding and polishing robot SAPHIR X-CHANGE 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.

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.



BASIC MODULE

SAPHIR X-CHANGE GRINDING & POLSHING ROBOT



Order No. M5805000

- » grinding- and polishing robot with central pressure
- » intuitive operation via ATM 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 intervall switching
- » cleaning station with water, air and ethanol
- » ultrasonic cleaner
- » 6-fold dosing unit (4x diamond suspension, 1x lubricant, 1x fine polishing suspension)
- » level indicator for dosing system (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

EQUIPMENT

POWER SUPPLY



Equipment 1	Equipment 2
230 V/50 Hz (1Ph/N/PE)	110 V/60 Hz (1Ph/N/PE)
Order No.: A5805003	Order No.: A5805004

ACCESSORIES

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SETTLING TANK



Order No.: A5810237

- » PVC tank 45 liter
- » removable separating slide
- » inlet sieve with filter bag and overflow
- » mobile, with insertion mechanism for System Lab cabinets
- » automatic drain latch while moving in/out System Lab cabinets
- » for base corpus 900



CONNECTION SET



Order No.: Z5805001

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



SPECIFICATIONS

Connected load	3.7 kVA
Power supply	220 – 230 V 50/60 Hz (1PH/N/PE)
GRINDING STATION	
Working wheel-Ø	250 mm
Working wheel speed	50 – 600 rpm
CLEANING STATION	
Cleaning media	air, water, ethanol
ULTRASONIC CLEANING STATION	
Capacity	2 L
HF-power	50 W
Frequency	40 kHz

ABRASIVE CHANGER

Storage	16 different grinding media
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abrasive-Ø	250 mm
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GRINDING AND POLISHING HEAD

Speed	30 – 150 rpm, clockwise/anti-clockwise
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Pressure	20 – 400 N
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Controlled removal	automatic; 0.1 mm display accuracy
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Sample holder	Ø 160 mm
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WxHxD	1320 x 1500 x 800 mm
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Weight	~ 250 kg
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