

**AUTOMATIC GRINDING & POLISHING MACHINES**

**SAPHIR 550 / SAPHIR 560**



The Saphir 550 is a single wheel and the Saphir 560 is a twin wheel grinder and polisher with an innovative grinding and polishing head for working wheels Ø 200-300 mm.

The automatic protective hood integrated in the head sets a new standard for operational safety.

Single and central pressure, memory function, integrated dosing system, material removed measurement are only a few of the possibilities.

Motor-driven height setting with pneumatic clamping meets highest demands



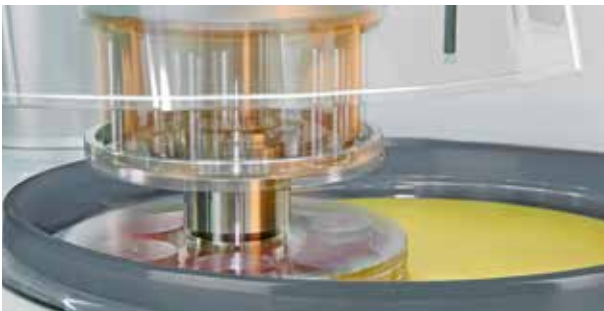
**GRINDING AND POLISHING HEAD**

Through the individual pressure of the head, samples with different diameter and materials can be worked at the same time. It also has a memory function for the side and height setting. The grinding and polishing head is operated via a clearly laid out touch-display. Programs can be compiled here and then saved. Furthermore it is fitted with a quick-change function for the sample holders and clockwise and anticlockwise running directions.



### MATERIAL REMOVED MEASUREMENT

The removal height can be pre-determined with 0.1 mm accuracy. The material removed measurement takes place automatically. After reaching the preset value, the machine switches off.



### SAFETY

The preparation only starts when the transparent protective hood is extended. The working area is illuminated by energy-saving LEDs. Data safety is secured by enabling password protection for each individual program..

### VARIABLE SPEED

The display on the grinder and polisher shows the speed digitally. The base speed can be infinitely adjusted between 50 and 600 rpm. The head speed is separately adjustable between 30 and 150 rpm. The speed can also be changed during the working sequence.

### WATER

The automatically switched integrated basin rinsing is cooling the working wheel and cleaning the basin during the entire working process. The rinsing tap can be pulled out with the hose extension. Optimum distribution of water can be reached by swinging the tap left and right across the diameter of the working wheel..


**BASIC MODULE**
**Saphir 550/560**

- | Saphir 550: single wheel grinder/polisher
- | Saphir 560: twin wheel grinder/polisher
- | single and central pressure
- | variable speed
- | electronic control with touch display
- | programmable memory
- | polishing head: clockwise/anti-clockwise rotation
- | memory function for side and height adjustment
- | automatic protective hood
- | energy saving LED illumination of working area
- | integrated basin rinsing with cleaning and cooling function
- | automatic water solenoid
- | basin rinsing
- | incl. splash ring and cover
- | aluminium case, powder coated
- | impact-proof plastic bowl
- | e-Lab-ready

**Saphir 550**
**Order No.: M5600130**
**Saphir 560**
**Order No.: M5600160**
**EQUIPMENT**
**POWER SUPPLY**

Saphir 550 Equipment 1	Saphir 560 Equipment 1
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230 V/50 Hz (1Ph/N/PE)	230 V/50 Hz (1Ph/N/PE)
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<b>Order No.: A5600043</b>	<b>Order No.: A5600055</b>
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Saphir 550 Equipment 2	Saphir 560 Equipment 2
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110 V/60 Hz (1Ph/N/PE)	110 V/60 Hz (1Ph/N/PE)
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<b>Order No.: A5600044</b>	<b>Order No.: A5600056</b>
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**CONTROLLED REMOVAL**

Equipment 1	Equipment 2
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without controlled removal	with controlled removal
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<b>Order No.: A5600053</b>	<b>Order No.: A5600054</b>
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**OPTION**
**DOSING UNIT**

- | integrated dosing nozzles
- | controllable via touch display, incl. memory function
- | 4x diamond suspension dosing
- | 1x lubricant dosing
- | 1x oxide polishing dosing

**Order No.: A5400001**
**ACCESSORIES**
**BOTTLE HOLDER FOR DIAMOND SUSPENSION**

- | aluminium, powder coated

WxHxD	290 x 185 x 120 mm
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**Order No.: Z5410006**


**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**

**CONNECTION SET**

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

**Order No.: Z5600009**

**STANDARD SAMPLE HOLDER FOR SINGLE PRESSURE**

Samples	6x Ø 50 mm
Dimensions	Ø 160 mm



**Order No.: Z5400087**

more sample holders as of page 3.61

**BASIC SET SAPHIR 550**

**Order No.: Z5600012**

**BASIC SET SAPHIR 560**

**Order No.: Z5600013**

**SPECIFICATIONS**

	<b>Saphir 550</b>	<b>Saphir 560</b>
Working wheels	Ø 200-300 mm	Ø 200-300 mm
Connected load	3.2 kVA	5.5 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)
Variable speed	50-600 rpm	50-600 rpm
WxHxD	~ 560 x 550-650 x 660 mm	~ 1020 x 550-650 x 660 mm
Weight	85 kg	110 kg
	<b>GRINDING AND POLISHING HEAD RUBIN 520</b>	<b>GRINDING AND POLISHING HEAD RUBIN 520</b>
Single pressure	1-6 samples, Ø 50 mm	1-6 samples, Ø 50 mm
Central pressure	depends on sample holder	depends on sample holder
Variable speed	30-150 rpm	30-150 rpm
Pressure	variable	variable
Central pressure	5-100 N	5-100 N
Central pressure	20-400 N	20-400 N

