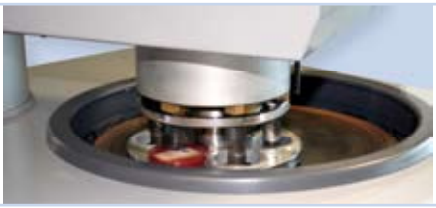
The **Saphir 560** is a twin wheel grinder and polisher with differently constructed grinding and polishing head versions, such as Rubin 520 for working wheels Ø 250 - 300 mm.
All units, especially the grinding and polishing heads 520 and 530, are top class machines.
Operational handling via touch-screen makes complicated sequences simple and easy. Single and central pressure, memory function, integrated dosing system, material removed measurement at the Rubin 530 are only a few of the possibilities. Motor-driven height setting with pneumatic clamping and all characteristics of the basic unit Saphir 360 meet the highest of demands.




VARIABLE SPEED

The display on the grinder and polisher shows the speed digitally. The speeds are divided into 50, 150, 300, 450 and 600 rpm. The speed can also be changed during the working sequence.

WATER

The water supply is switched automatically. The rinsing tap can be pulled out for cleaning the basin 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.

VACU-JET FACILITY ◎

The Vacu-Jet is an anchoring system for wet grinding paper, polishing cloths and diamond foil. Press the activate button; the grinding medium is held flat and in place by suction. Bonding and clamping of wet grinding paper is no longer required. De-activate the suction and the paper is loose for removal. Polishing cloths and diamond foils are mounted onto supports so that they can be quickly exchanged on the Vacu-Jet. Galaxy discs and SiC grinding foil attach immediately. Storage space is reduced because the number of working wheels is reduced. For the system to work, the Saphir 560 must have a Vacu-Jet connection.

GRINDING AND POLISHING HEAD

Through the individual pressure of the Rubin 520, 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 Rubin 520 and 530 are operated via a clearly laid out touch-screen. Programs can be compiled here and then saved. Both units are fitted with a quick-change function for the sample holders. All grinding and polishing heads are fitted with clockwise and anticlockwise running directions.

MATERIAL REMOVED MEASUREMENT

The removal height can be predetermined with 0.01 mm accuracy. The material removed measurement takes place automatically. After reaching the preset value, the machine switches off.

INDUSTRIAL STANDARD

All components used by us, as well as the constructive design correspond to the normal device requirements for industry in Germany and the EC Safety Regulations. The units are finished in service friendly modular construction.

◎ Option

SAPHIR 560 – RUBIN 520

Order No.: M5600090

- » Double wheel grinder/polisher with Rubin 520 head
- » Single and central pressure
- » Variable speed
- » Elektronic control with touch display
- » Programmable memory
- » Polishing Head: clockwise/anti-clockwise rotation
- » Memory function for side and height adjustment
- » Automatic water solenoid
- » Basin rinsing
- » Incl. splashing ring and cover
- » Aluminium case, powder coated
- » Impact-proof plastic bowl

SAPHIR 560 – RUBIN 530

Order No.: M5600100

- » Double wheel grinder/polisher with Rubin 530 head
- » Central pressure
- » Variable speed
- » Elektronic control with touch screen
- » Programmable memory
- » Polishing head: clockwise/anti-clockwise rotation
- » Automatic water solenoid
- » Basin rinsing
- » Incl. splashing ring and cover
- » Aluminium case, powder coated
- » Impact-proof plastic bowl
- » Optional: controlled removal

E-Lab ready

Working wheels, sample holders etc. see chapter 'Accessories for grinder/polisher'.
Technical changes are reserved.

POWER SUPPLY (select equipment)

Equipment 1
230 V/50 Hz (1/N/PE)

Equipment 2
110 V/60 Hz (1/N/PE)

For Saphir 560 with Rubin 520:

Order No.: A5600013
» Separately controlled motors

Order No.: A5600014
» Separately controllled motors

Order No.: A5600015
» Parallel controlled motors

Order No.: A5600016
» Parallel controlled motors

For Saphir 560 with Rubin 530:

Order No.: A5600021
» Separately controlled motors

Order No.: A5600022
» Separately controlled motors

Order No.: A5600023
» Parallel controlled motors

Order No.: A5600024
» Parallel controlled motors

MAIN SHAFT (select equipment)

Equipment 1
Standard
Order No.: A5600032

Equipment 2
Vacu-Jet facility
Order No.: A5600033

CONTROLLED REMOVAL FOR SAPHIR 560 WITH RUBIN 530 (select equipment)

Equipment 1
Without controlled removal
Order No.: A5600025

Equipment 2
With controlled removal
Order No.: A5600026

OPTIONS

DOSING UNIT

For Rubin 520 and 530
Order No.: A5400000
» Integrated dosing nozzles
» Controllable via touch screen, incl. memory function
» 4x diamond suspension dosing
» 1x lubricant dosing
» 1x oxide polishing dosing

BOTTLE HOLDER FOR DIAMOND SUSPENSION

For Rubin 520 and 530
Order No.: Z5410006
» Aluminium, powder coated
» WxDxH 290x185x120 mm

Working wheels, sample holders etc. see chapter 'Accessories for grinder/polisher'.

ACCESSORIES

SETTLING TANK

» 2-chamber-compartment, 45 Ltr.
Aluminium case, powder coated
» Overflow and opening sieve

For System Lab
(Insertion mechanism))
Order No.: A5800029

Mobile
Order No.: A5800051

SYSTEM LAB CABINET

Order No.: M5800052
» System Lab assembly
» WxHxD 1320x815x900 mm

ANSCHLUSS-SET

Order No.: Z5600009
» 1 drain tube Ø 40 mm; 1.5 m
» 1 pressure tube R ½"; 2 m
» 1 pressure tube; 3 m with coupling and screw thread R 3/8"

OPTION

VACU-JET-SYSTEM

» Fixing system for grinding and polishing media for 1 working wheel

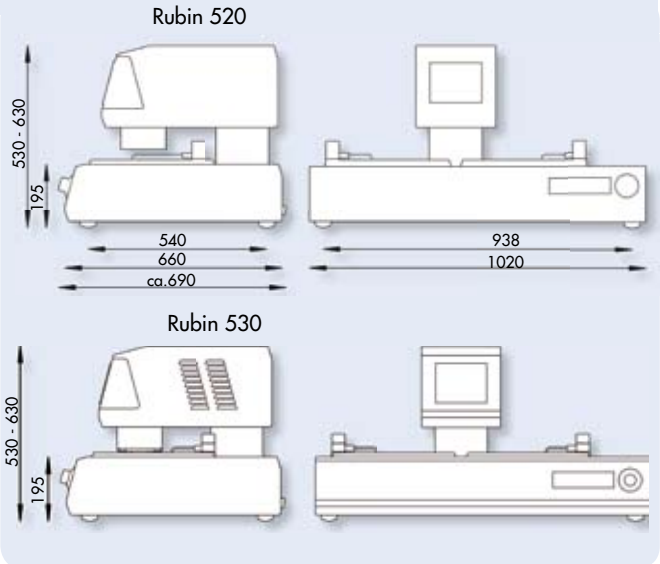
For System Lab cabinet

230 V/50 Hz (1/N/PE)
Order No.: A5800025
110 V/60 Hz (1/N/PE)
Order No.: A5800165

External

230 V/50 Hz (1/N/PE)
Order No.: M5610170
110 V/60 Hz (1/N/PE)
Order No.: M5610171

SPECIFICATIONS



Saphir 560	
Working wheels	Ø 200 - 300 mm
Motor	1.8 kW, seperately controlled 1.2 kW, parallel controlled
Speed	50 - 600 rpm
Rubin 520	
Working wheels	1 - 6 samples, Ø 50 mm
Speed	120 rpm
Pressure	variable
Single pressure	5 - 100 N
Central pressure	20 - 400 N
Rubin 530	
Central pressure	20 - 450 N
Speed	120 rpm
Pressure	variable
Approx. WxHxD	1020 x 530 x 660 mm
Weight	110 kg

Working wheels, sample holders etc. see chapter 'Accessories for grinder/polisher'.
Technical changes are reserved.