



The System Grinder **SAPHIR 375** is a solid free-standing unit for effective, plane grinding with a stone.

The grinding head with central pressure is equipped for clockwise or counter-clockwise rotation, and optimally adjustable with variable speed and pressure.

Automatic material removal monitors the removal rate and controls the dressing process.

All relevant parameters can be displayed, adjusted and saved via the clear touch-screen interface.

A recirculating coolant system is integrated into the modular type aluminium construction.



SAPHIR 375



TOUCH SCREEN OPERATION

All relevant parameters are clearly shown on the large 8.4" touch display during the grinding process.

The grinding process can be easily programmed by tapping the different colored icons. Created processes can be password protected and stored with individual information.

The Saphir 375 is equipped with an USB port for fast data transfer, program backups, and updates.

Remote maintenance can be enabled via an Ethernet interface.

MATERIAL REMOVAL MEASUREMENT

The removal height can be programmed within 0.01 mm accuracy.

In fully automatic mode, the stone's dressing frequency is determined and controlled automatically during the grinding process. Stones may also be dressed at predetermined intervals as well as manually.

Initial dressing occurs automatically when setting up a new stone.

Remaining stone usage and processes are dynamically displayed on the screen.

SAFETY CONCEPT

The grinding process is activated with Two-Handed Control. The abrasive stone is fully enclosed during the grinding cycle. A safety sensor prevents grinding to occur without grinding stone cover.

The grinding process cannot be started before setting up the stone.

WE HAVE A SYSTEM

The Saphir 375 is very intuitive due to the modular design of our System Lab.

The mobile recirculation cooling unit and the hidden connections are integrated in the device.

With our 3D Lab design software, other System components can be added, integrated, and best of all, built according to your needs.



BASIC MODULE

SAPHIR 375 (grinding unit only)

Order No.: A5800479

- » Free standing grinder with powerful drive
- » Completing base: System Lab cabinet made of aluminium, powder coated
- » Central pressure
- » Grinding head Rubin 530 with variable speed
- » Controlled removal
- » Automatic, interval controlled dressing
- » Touch screen user interface
- » Grinding disc fully enclosed during grinding
- » Option: integrable recirculation cooling system with insertion mechanism, or, belt filter system BFA 130 for high grinding volume

EQUIPMENT

POWER SUPPLY (select equipment)

Equipment 1
400 V/50 Hz (3/N/PE)
 Order No.: A5800476

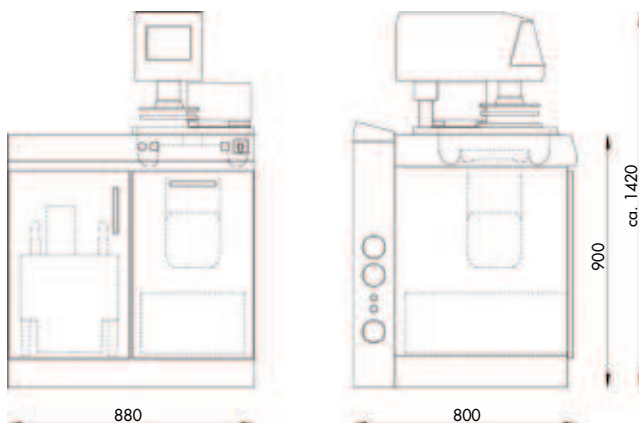
Equipment 2
480 V/60 Hz (3/PE)
 Order No.: A5800477

Equipment 3
220 V/60 Hz (3/PE)
 Order No.: A5800478

ADAPTION FOR GRINDING STONE

Equipment 1
 Order No.: A5800481
 » Adaption for ATM standard grinding stone / glued carrier plate

SPECIFICATIONS



Connected speed	7 kVA
Power supply	1 400 V/50 Hz (3/N/PE)
	2 480 V/60 Hz (3/PE)
	3 220 V/60 Hz (3/PE)
Recirculation cooling (option)	2-chamber-pvc-compartment 45 Ltr., basket with filter bag
WxHxD	approx. 880 x 1420 x 800 mm
Weight	approx. 230 kg

GRINDING MODULE	
Speed	1 1500 rpm
	2 1700 rpm
	3
Grinding stone	Ø 350 rpm
Usable coating	30 mm

GRINDING HEAD RUBIN 530	
Central pressure	Sample holder Ø 160 - 204 mm
Variable speed	30 - 150 rpm
Variable pressure	50 - 400 N
Controlled removal	0.01 mm display precision

