System grinder 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.

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.

Saphir 375

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.



MATERIAL REMOVAL MEASUREMENT

The removal depth can be programmed from $0.01-5.00~\mathrm{mm}$ with a stock removal accuracy of $0.1~\mathrm{mm}$.

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.



System lab construction enables variable combinations





SAPHIR 375 System ginder



BASIC MODULE

SAPHIR 375



Order No.: A5810290

- » free standing grinder with powerful drive
- » central pressure
- » grinding head Rubin 530 with variable speed
- » intuitive operation via Touch-Screen
- » controlled removal
- » automatic, interval controlled dressing
- » grinding disc fully enclosed during grinding
- » integrated in System Lab cabinet made of aluminium, powder coated

EQUIPMENT

POWER SUPPLY

Equipment 1

400 V/50 Hz (3Ph/N/PE)

Order No.: A5810287

Equipment 2

480 V/60 Hz (3Ph/PE)

Order No.: A5810288

Equipment 3

220 V/60 Hz (3Ph/PE)

Order No.: A5810289

ADAPTION FOR GRINDING STONE



ACCESSORIES



Order No: A5810291

» adaption for ATM standard grinding stone (glued carrier plate)

RECIRCULATION COOLING SYSTEM WITH INSERTION MECHANISM

- » 2-chamber-pvc-compartment 45 ltr.
- » controlled by grinder

400 V/50 Hz (3Ph/N/PE)

Order No.: A5800484

480 V/60 Hz (3Ph/PE)

Order No.: A5800485

220 V/60 Hz (3Ph/PE)

Order No.: A5800486

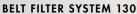
Tank

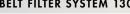
Pump

WxHxD

Weight ~

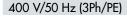
Filter capacity





» for high grinding volume

» incl. filter roll



Order No.: A6501009

480 V/60 Hz (3Ph/PE)

Order No.: A6501011

220 V/60 Hz (3Ph/PE)

Order No.: A6501010

» for belt filter system please order connection-set







130 ltr.

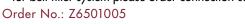
30 ltr./min

15 ltr./min

90 kg

(refering emulsion)

607x632x1308 mm



SPECIFICATIONS

| Connected load | 7 | kVA | |
|----------------|----------|------------------------|--|
| | 1 | 400 V/50 Hz (3Ph/N/PE) | |
| Power supply | 2 | 480 V/60 Hz (3Ph/PE) | |
| | 3 | 220 V/60 Hz (3Ph/PE) | |
| GRINDING MODUL | .E | | |
| | 1 | 1390 rpm | |
| Speed* | 2 | 1700 rpm | |
| | 3 | 1695 rpm | |
| Grinding stone | Ø 350 mm | | |
| Usable coating | 30 | mm | |

| GRINDING HEAD RUBIN 530 | GRII | NDIN | ١G | HEAD | RUBIN | 530 |
|-------------------------|------|------|----|------|-------|-----|
|-------------------------|------|------|----|------|-------|-----|

| Central pressure | sample holder Ø 160 – 204 mm |
|------------------------|------------------------------|
| Variable speed | 30 – 150 rpm |
| Variable pressure | 50 – 400 N |
| Stock removal depth | 0.01 – 5.00 mm |
| Stock removal accuracy | 0.1 mm |

| WxHxD ~ | 880 x 1420 x 830 mm |
|---------|---------------------|
| Weight | 230 kg |

^{*} depending on power supply (equipment)

