Grinder and polisher

**SAPHIR 550**

The SAPHIR 550 WITH RUBIN 520 is a single wheel grinder and polisher of recent generation with an innovative grinding and polishing head for working wheels Ø 250 - 300 mm.

The head RUBIN 520 is equipped with an automatic protective hood and sets a new standard for operational safety.

**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 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.

**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.

**MATERIAL REMOVED MEASUREMENT**

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

**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.

**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.

**Saphir 550 | Rubin 520**

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 and all characteristics of the basic unit Saphir 350 meet the highest demands.
Grinder and polisher

**SAPHIR 550 | RUBIN 520**

**Basic Module**

Order No.: M5600130
- Single wheel grinder/polisher with Rubin 520 head
- 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

**Power Supply**

<table>
<thead>
<tr>
<th>Equipment 1</th>
<th>Equipment 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>230 V/50 Hz (1Ph/N/PE)</td>
<td>110 V/60 Hz (1Ph/N/PE)</td>
</tr>
<tr>
<td>Order No.: A5600043</td>
<td>Order No.: A5600044</td>
</tr>
</tbody>
</table>

**Controlled Removal**

<table>
<thead>
<tr>
<th>Equipment 1</th>
<th>Equipment 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without controlled removal</td>
<td>With controlled removal</td>
</tr>
<tr>
<td>Order No.: A5600053</td>
<td>Order No.: A5600054</td>
</tr>
</tbody>
</table>

**Dosing Unit**

For Rubin 520
Order No.: A5400001
- Integrated dosing nozzles
- Controllable via touch display, incl. memory function
- 4x diamond suspension dosing
- 1x lubricant dosing
- 1x oxide polishing dosing

**Accessories**

**Bottle Holder for Diamond Suspension**

For Rubin 520
Order No.: Z5410006
- Aluminium, powder coated

WxHxD: 290x120x185 mm
Grinder and polisher

SAPHIR 550

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connected load</td>
<td>3.2 kVA</td>
</tr>
<tr>
<td>Power supply</td>
<td>1 230 V/50 Hz (1Ph/N/PE)</td>
</tr>
<tr>
<td></td>
<td>2 110 V/60 Hz (1Ph/N/PE)</td>
</tr>
<tr>
<td>SAPHIR 550</td>
<td></td>
</tr>
<tr>
<td>Working wheel</td>
<td>Ø 200 – 300 mm</td>
</tr>
<tr>
<td>Variable speed</td>
<td>50 – 600 rpm</td>
</tr>
<tr>
<td>RUBIN 520</td>
<td></td>
</tr>
<tr>
<td>Single pressure</td>
<td>1 – 6 samples, Ø 50 mm</td>
</tr>
<tr>
<td>Central pressure</td>
<td>depends on sample holder</td>
</tr>
<tr>
<td>Variable speed</td>
<td>30 – 150 rpm</td>
</tr>
<tr>
<td>Pressure</td>
<td>variable</td>
</tr>
<tr>
<td>Single pressure</td>
<td>5 – 100 N</td>
</tr>
<tr>
<td>Central pressure</td>
<td>20 – 400 N</td>
</tr>
<tr>
<td>WxHxD</td>
<td>560 x 550 – 650 x 660 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>85 kg</td>
</tr>
</tbody>
</table>

**SETTLING TANK**

- 2-chamber-compartment, 45 ltr.
- for System lab cabinet (insertion mechanism)
- referring height of System cabinet
  - H 800 mm: Order No.: A5810261
  - H 900 mm: Order No.: A5810237

**ACCESSORIES**

- inlet sieve and filter bag
- mobile
  - Order No.: A5800496

**CONNECTION SET**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 drain tube</td>
<td>Ø 40 mm; 1.5 m</td>
</tr>
<tr>
<td>1 pressure tube</td>
<td>R ½”; 2 m</td>
</tr>
<tr>
<td>1 pressure tube</td>
<td>R ⅛” coupling and screw thread; 3 m</td>
</tr>
</tbody>
</table>

**CONNECTION SET**

Order No.: Z5600009

- 1 drain tube Ø 40 mm; 1.5 m
- 1 pressure tube R ½”; 2 m
- 1 pressure tube R ⅛” coupling and screw thread; 3 m