

**BOOST FUNCTION**

The boost function may be optionally activated and helps to spin dry the grinding and polishing medium at 750 rpm for 3 seconds at the end of the preparation process.

**ELECTRONIC CONTROL**

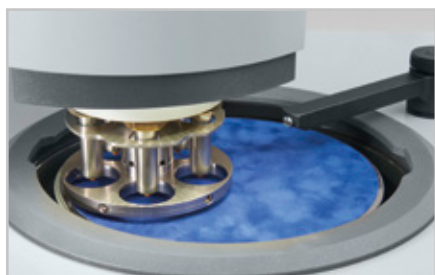
Operation and programming is carried out via the 4.3" touch screen. It is possible to create and store methods for automated sample preparation or to carry out the preparation manually.

**SAPHIR 250 A2-ECO**

The SAPHIR 250 A2-ECO model is an automatic, twin wheel grinder and polisher for working wheels with diameters of 200/250 mm. The new mounting system of the working wheel provides full performance without the requirement of a carrier plate. With the new control software entire preparation methods

may be edited and stored, protected by a user account management. Pressure, speed and rotational direction are adjustable.

The robust device may be combined with the dosing system TOPAS ECO and offers maximum reproducibility for sample preparation and operating convenience for the user.

**VARIABLE SPEED**

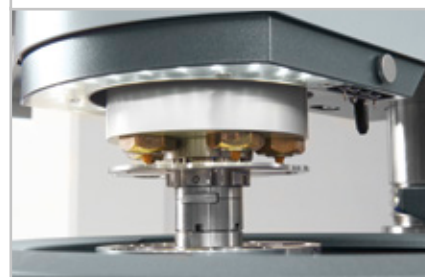
The grinding and polishing head ECO operates with a single pressure of 5 to 100 N and a central pressure of 20 to 350 N. It can move up to 5 specimens in a 40 mm diameter with adjustable speed. Water deactivation is carried out automatically.

**POLISHING HEAD ECO**

The polishing head ECO is equipped with LED illumination of the working area and a support for the nozzles of the TOPAS ECO dosing system. Water is supplied automatically via the head.

**OPERATING CONVENIENCE**

The grinding and polishing head ECO features recessed grips with integrated pushbuttons on both sides for easy swivelling and adjusting. A large distance between the working surface and the polishing head allows a comfortable change of the sample holder.



## BASIC MODULE

## SAPHIR 250 A1-ECO



- » Twin wheel grinding- and polishing machine including polishing head Eco
- » Single and central pressure
- » Variable speed of working wheel and polishing head
- » Working wheel and polishing head: clockwise / counter-clockwise rotation
- » 4.3" Touch-Screen with intuitive ATM user software
- » 200 customized programs storable
- » Adjustable swiveling stop position of polishing head
- » Economic LED illumination
- » Manual water inlet
- » Automatic water supply on the polishing head
- » Basin rinsing tube
- » Aluminium case, powder coated
- » Impact-proof plastic bowl
- » Incl. splash ring and cover
- » USB plug for data exchange and software updates
- » Ethernet plug for online-diagnostics and user support
- » Easy, fast and tool-free change of working wheel
- » Easy cleaning/rinsing of bowl by lifting the working wheel
- » Spin cycle feature (cleaning Boost)
- » Combinable with dosing unit Topas-Eco
- » 4-times dosing unit Topas-Eco integrable

200-240 V / 50/60 Hz (1Ph/N/PE)

Order No.: M5631050

100-120 V / 50/60 Hz (1Ph/N/PE)

Order No.: M5631055

## 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

H 900 mm      Order No.: A5810237

- » inlet sieve and filter bag



mobile

Order No.: A5800496

## CONNECTION SET



Order No.: Z5600008

1 drain tube      Ø 40 mm; 1.5 m

1 pressure tube      R 1/2"; 2 m



**WORKING WHEELS SAPHIR 250**

» Single-disc design

Ø 200 mm      Order No.: Z5631001  
 Ø 250 mm      Order No.: Z5631002

**ACCESSORIES****CLAMPING RING SAPHIR 250**

» for working wheels SAPHIR 250 M/A  
 » plastic

Ø 200 mm      Order No.: Z5631003  
 Ø 250 mm      Order No.: Z5631004

**DOSING UNIT TOPAS ECO**

» see page 120/121

**SPECIFICATIONS**

Connected load	2,3 kVA
Power supply	1 200-240 V / 50/60 Hz (1Ph/N/PE)
	2 100-120 V / 50/60 Hz (1Ph/N/PE)
Water inlet	1/2" threaded coupling (max. water pressure: 6 bar)

**SAPHIR 250 A**

Drive power	0.55 kW (S1)
	0.75 kW (S3/40%)
Working wheels	Ø 200/250 mm
Speed	30 – 600 rpm

**POLISHING HEAD ECO**

Drive power	0.18 kW (S1)
Single pressure	1 – 5 samples, max. Ø 40 mm
Central pressure	depending on holder
Speed	30 – 160 rpm

Sample downforce	variable
Single pressure	5 – 100 N
Central pressure	20 – 350 N

WxHxD ~	901 x 265 x 710 mm
Weight	1 78 kg
	2 85 kg

