



The **Kristall 650** is a mobile battery supplied electrolytic polisher and etcher.

It convinces by its compact and robust construction, ideal for use outside of the lab. The simple operation simultaneous with high functionality is matchless.

The epoxy-coated aluminium housing meets highest demands on functionality, stability and design.

All sensitive parts are well protected for transport and local operation. For maximum comfort the Kristall 650 is equipped with handle and carrying strap.



### POLISHING UNIT

The polishing head is integrated in the handle. Polishing and etching gets automatically ready by grasping the handle and the polishing/etching cycle begins when the anode pad touches the examination surface. A multi-coloured LED on the handle indicates all program states. The operator can focus his attention completely to the checkpoint.

The handle is connected to the unit by an flexible hose. For flat surfaces, the exchangeable sealing-lip ring is especially suitable. Complex surfaces (e.g. angled areas) can be examined by using an additional flexible end piece which can be cut to size individually.

### CONTROL PANEL

The LC-display clearly shows all important parameters like current, voltage, time as well as the charge of battery.

All parameters can be adjusted via control panel during operation. You can choose between constant current and constant voltage.

### BATTERY SUPPLIED OPERATION

The high capacity rechargeable LiPo-battery allows with a single charge approximately 150 simple etching/polishing cycles including pre-grinding (state of charge display, charging and mains operation via external power supply).

### INNOVATIVE DETAILS

Micro motor, straight handle and accessories of our mobile grinder Saphir 300 can be connected directly to the controlling unit of the Kristall 650 (suitable storage area inside the case). The electrolyte tanks are replaceable and with screwed top for external storage. The integrated return-flow filter optimizes the life time of the electrolyte.

### SAFETY FUNCTIONS

An additional locking valve allows the flow of the electrolyte only during the cycle.





### KRISTALL 650

Order No.: M6201000

- » Mobile electrolytic polisher and etcher
- » Fully automatic, microprocessor controlled program sequence
- » Battery supplied by high capacity rechargeable LiPo-battery
- » Operation and charging by external power supply
- » Polishing head with automatic start-stop function and multicolour LED for displaying current operating states
- » Additional locking valve to avoid leakage of electrolyte
- » Control panel with clear LC display
- » Variable power and voltage supply, adjustable time
- » Return-flow filter (filter pads exchangeable without tool)
- » Replaceable electrolyte tank
- » Flexible, exchangeable sealing-lip ring for flat surfaces; additional end-piece which can be cut to size for examination of complex surfaces (e.g. angled areas)
- » Solid epoxy-coated aluminium case with carrying-sling and handle
- » Prepared for storing up and controlling manual grinder Saphir 300
- » Incl. maintenance set

### POWER SUPPLY (select equipment)

Equipment 1

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

Order No.: A6201000

Equipment 2

**110 V/60 Hz (1/N/PE)**

Order No.: A6201001

### ACCESSORIES

#### TRANSPORTABLE GRINDER AND POLISHER SAPHIR

- » see accessories Saphir 300



ACCESSORIES

**ACCESSORIES SET FOR KRISTALL 650 IN SUITCASE**

Order No.: Z6201001

Content:

- » 5 x V-ring  
Order No.: 95003606
- » 1 x profile ring material appr. 150 mm  
Order No.: 06201052
- » 1 x flexible end piece for profile ring  
Order No.: 06201051
- » 1 x tube cutter  
Order No.: 95004030
- » 10 x filter pads Ø 40,5 mm  
Order No.: 95003606



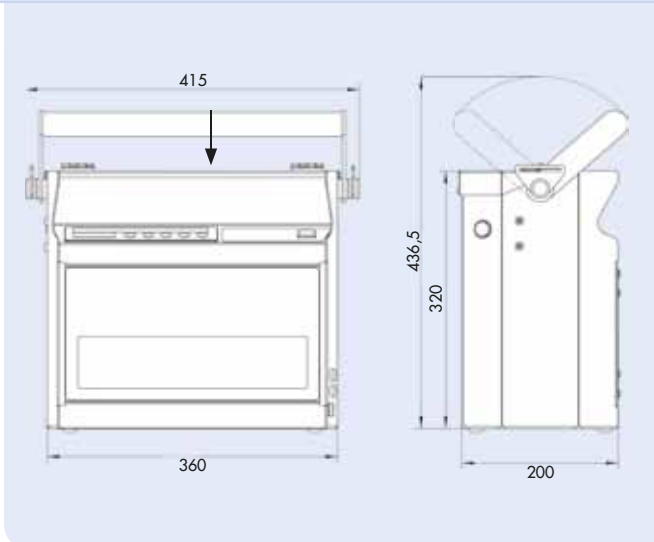
**BOTTLE WITH SCREW TOP FOR ELECTROLYTE**

Order No.: 95003955

» 1 liter



SPECIFICATIONS



Power	160 W
Voltage	90 V DC
Current	2 A
External power supply	1 230V/50 Hz (1/N/PE)
	2 110V/60 Hz (1/N/PE)
Diameter of polishing area	approx. 9 mm
Dimensions WxHxD	415 x 400 x 200 mm
Weight (without electrolyte)	approx. 8.5 kg
Electrolyte tank	1 ltr.