KRISTALL 680

KRISTALL 680 provides maximum safety and flexibility for the user during the polishing & etching process by intuitive touchscreen-control. Separation of polishing & etching unit from control unit enables operation within a lab fume cupboard. Option for connecting an additional and an external etching unit increases time saving applications. The chemical-resistant plastic vessels, also for storage of the electrolytes, are quick and easy to change.

Use with external etching unit
The KRISTALL 680 is a fully automatic electrolytic polisher and etcher with intuitive touch-screen operation. Polishing and etching unit and control unit are separated, also the Kristall 680 can be used in the lab fume cabinet. A scan function displays the current voltage curve of a material and provides polishing results quickly without structural changes. Handling of the polishing and etching unit was facilitated significantly by the interchangeable 1 Ltr. electrolytic tanks. Different electrolytes can be changed and easily stored with lid.

The unit is cleaned with water by a washing program.
Electrolytic polisher and etcher

**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.: A6202000</td>
<td>Order No.: A6202001</td>
</tr>
</tbody>
</table>

**POLISHING & ETCHING UNITS**

**Equipment 1**

**Polishing & etching unit**

Order No.: A6202003

- large polishing table incl. set of masks (5 pcs.)
- touch-free pump drive (magnetic clutch)
- stainless steel start button with integrated LED status display
- exchangeable 1 ltr. electrolyte tank made from chemical-resistant plastic (incl. lid)
- max. standard sample height 50mm (higher samples with ext. anode via magnetic or croc. clips)
- polishing & etching unit can be operated separately from control unit e.g. in lab fume cabine
- housing made from rust-free stainless steel (chemical-resistant coating) with drip tray
- incl. connection set (electricity/water)

**Equipment 2**

**External etching unit**

Order No.: A6202004

- etching beaker ade from stainless steel
- volume 1200 ml

**OPTION**

**Extension for connection**

Order No.: A6202005

- extension for connection of second etching/polishing unit

**Kristall 680**

**ACCESSORIES**

**Set of masks (5 pcs.)**

Order No.: Z6202001

- 0.5/1.5/2.5/5 cm²/blind mask

**Electrolyte vessel**

Order No.: Z6202002

- volume 1 ltr.
- incl. cover
- made from chemical-resistant plastic

**Connection set Kristall 680**

Order No.: Z6202003

- 2x pression tubes R ½”; 2 m
**Electrolytic polisher and etcher**

**KRISTALL 680**

**SPECIFICATIONS**

**CONTROL UNIT**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connected load</td>
<td>2 kVA</td>
</tr>
</tbody>
</table>
| Power supply             | 1. 220–240 V / 50/60 Hz (1Ph/N/PE)  
                           | 2. 110–120 V / 50/60 Hz (1Ph/N/PE)  |
| Current                  | 0–14 A  |
| Working voltage          | 0–90 V ± 0.1V regulated |
| WxHxD                    | 330 x 220 x 400 mm |
| Weight                   | 7 kg    |

**SPECIFICATIONS**

**POLISHING & ETCHING UNIT**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polishing duration</td>
<td>1 sec.: 25 min.</td>
</tr>
<tr>
<td>Etching duration</td>
<td>1 sec.: 5 min.</td>
</tr>
<tr>
<td>Automatic drive</td>
<td>0–90 V</td>
</tr>
<tr>
<td>Polishing desk</td>
<td>160 x 150 mm</td>
</tr>
<tr>
<td>WxHxD</td>
<td>216 x 320 x 280 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>4 kg</td>
</tr>
</tbody>
</table>