• Sturdy and powerful design
• Excellent for large specimens
• User-friendly
We were initially impressed with the intuitive and icon-based user interface the AbraPlan-30 and AbraPol-30 presented. More so it was evident how optimized and precise the machines operated to not only increase our efficiency, but to match the quality of technology expected from 2017.

Dennis Traut, Lab Manager Materials Engineering, BGH Edelstahl Siegen GmbH

AbraPol-30 is an advanced machine for grinding and polishing of specimens in specimen holders. The double dosing of suspensions and lubricants secure the optimal area distribution and thus guarantees fast and reproducible preparation. The machine is designed for heavy use i.e. large specimens or a high volume of specimens.

Fast reproducible preparation
- High capacity / High volume
- Robust and durable
- Maximum operator safety
- Intuitive user interface

By the way…

The AbraPol-30 has successfully undergone more than 20,000 cycles of durability testing and has been subject to four months of field testing in Germany.

“We were initially impressed with the intuitive and icon-based user interface the AbraPlan-30 and AbraPol-30 presented. More so it was evident how optimized and precise the machines operated to not only increase our efficiency, but to match the quality of technology expected from 2017.”

Dennis Traut, Lab Manager Materials Engineering, BGH Edelstahl Siegen GmbH
A reliable, high-capacity machine for fast and efficient preparation

AbraPol-30 is an advanced, semi-automatic machine for grinding and polishing of specimens in specimen holders. It features double dosing for optimum distribution of diamond suspensions and lubricants, a removal rate sensor and a transparent safety cover. AbraPol-30 is ideal for workplaces carrying out testing of very large specimens or high volume of specimens.

**Excellent for large specimens**
AbraPol-30 grinding/polishing machine features unique double dosing for optimum distribution of diamond suspensions and lubricants. The double dosing system makes the machine eminently suitable for preparing large specimens using 350 mm/14” dia. discs and 200 mm/8” dia. specimen holder.

**Easy to operate**
The user interface features a clear colour display with large icons enabling easy and intuitive operations. The multipurpose turn/push knob enables fast navigation.

**Strong and safe performance**
AbraPol-30 features an exceptionally stable and robust design with an extremely solid frame and powerful motors, for reproducible grinding/polishing. Its design limits vibrations, while the high-quality stainless steel bowl is strong and safe, and comes with a lifetime corrosion warranty.
Key features ensuring optimal and trouble-free, heavy duty preparation

**Double dosing system**
Designed to avoid contamination. Even distribution ensure fast and reproducible results.

**User-friendly interface**
AbraPol-30 is very easy to operate, making extensive training unnecessary.

**Easy navigation**
The turn/push knob makes navigation fast and easy.

**Maximum operator safety**
AbraPol-30 is designed for the highest level of operator safety.
During optimal and heavy duty preparation:

- **Controlled material removal**
  - Accurate material removal allows you to pre-set stock removal, saving time and money.

- **Pumps tailored to your needs**
  - Configure pumps to your preparation application. Precise and easy to calibrate.

- **Durability is key**
  - Bowl made of a corrosion resistant stainless steel for greater durability and safety.

- **Always know the status**
  - The beacon helps the operator to give attention only when necessary.

*Only on breakthrough corrosion and when Struers consumables are used.*
AbraPol-30
Advanced semi-automatic machine for grinding and polishing of specimens in specimen holders up to 200 mm/8" dia. Removal rate sensor and transparent safety cover included. Suspension/lubricant and oxide suspension pump units, recirculation cooling tank, pump and filter, grinding/polishing discs and specimen holders are available separately.

Voltage
3 x 200 - 240 V / 50 - 60 Hz
3 x 380 - 460 V / 50 - 60 Hz

Cat. no.
06306129
06306146

AbraPol-30 with shift valve
Advanced semi-automatic machine for grinding and polishing of specimens in specimen holders up to 200 mm/8" dia. Removal rate sensor, transparent safety cover and shift valve for recirculation or drain included. Suspension/lubricant and oxide suspension pump units, recirculation cooling tank, pump and filter, grinding/polishing discs and specimen holders are available separately.

Voltage
3 x 200 - 240 V / 50 - 60 Hz
3 x 380 - 460 V / 50 - 60 Hz

Cat. no.
06306229
06306246

Technical data

Disc
- Diameter: 300 mm / 12" or 350 mm / 14"
- Speed: 40 - 600 rpm, adjustable in steps of 10 rpm
- Rotational direction: Counter-clockwise
- Motor power, continuous (S1): 2.2 kW

Specimen holder
- Speed: 50 - 300 rpm, adjustable in steps of 10 rpm
- Rotational direction: Clockwise, Counter-clockwise
- Force: 50 - 700 N
- Max. size sample holder: 200 mm / 8"

Positioning of specimen holder
- X-direction: 65 mm

Operation Modes
- Semi automatic and manual preparation

Process mode
- Time: 5 sec. - 10 min
- Removal: 0.05 - 5 mm

Safety
- Please refer to the Declaration of Conformity

Noise level
At idle running, at a distance of 1.0 m / 39.4" from the machine: 52 dB (A)

Surrounding temperature
- 5 - 40 °C / 41 - 104 °F

Humidity
- Non condensing 0 - 95 % RH

Software and electronics
- Controls: Touch pad and turn/push knob
- Memory: FLASH-ROM / RAM / NV-RAM
- LC Display: TFT-colour 320x240 dots with LED back light

Supply
- Voltage / frequency: 3x200 - 240 50/60Hz, 3x380 - 460 50/60Hz
- Power inlet: 3 phase (3L + PE)
- Power, nominal load: 3 kW
- Pressure for tap water: 1 - 4 bar / 14.5-58 psi
- Flow for tap water: min. 10 l/min (2.6 gpm)
- Water inlet diameter: 3/4"
- Water outlet diameter: 50 mm (2")
- Compressed air inlet diameter: 6 mm (1/4")
- Compressed air pressure: 6 - 9.9 bar (87-145 psi)
- Compressed air flow: 30 l/min (6.6 gpm)
- Compressed air quality: ISO 8573-1, class 3

Recirculation unit
- Optional

Pump for recirculation
- Optional

Drain
- Diameter: 50 mm / 2"

Exhaust
- Diameter: 50 mm (2")
- Recommended capacity for exhaust system: 1000 l/m (265 gpm)

PHYSICAL SPECIFICATIONS

Dimensions and weight
- Width: 84 cm (33")
- Depth: 98 cm (39")
- Height closed: 156 cm (61")
- Height open: 187 cm (74")
- Weight: 390 kg (860 lbs)

Beacon
- Optional: Sound, Red/Yellow/ Green light

Struers' equipment is in conformity with the provisions of the applicable International Directives and their appurtenant Standards (please contact you local supplier for details).
## Struers Support Commitment

Struers is committed to helping you achieve maximum performance from your Struers equipment. Based on a wide range of knowledge and support services, the Struers Support Commitment applies to all Struers customers anywhere in the world.

- Global hotline support
- Global network of certified field service engineers
- Global network of materialographic specialists
- Documentation support online
- Annual service review
- Access to complete range of performance enhancing services
- All critical parts on stock for immediate shipping

### Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
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<tr>
<td>DP-Pump unit</td>
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<td>OP-Pump unit</td>
<td>06306902</td>
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<tr>
<td>Recirculation pump</td>
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<tr>
<td>Recirculation tank</td>
<td>05766906</td>
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<tr>
<td>Filter bag</td>
<td>05766928</td>
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<tr>
<td>Recirculation pump for 3 x 380 - 415V 50 / 60Hz</td>
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<tr>
<td>Recirculation pump for 3 x 460 - 480V 50 / 60Hz</td>
<td>06296954</td>
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<tr>
<td>Recirculation pump for 3 x 200 - 240V 50 / 60Hz</td>
<td>06296929</td>
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<tr>
<td>Recirculation tank for 50 l tank. Can be used with static filter (05766928).</td>
<td>05766906</td>
</tr>
<tr>
<td>Filter bag for use with 50 l tank (05766906). Stainless steel</td>
<td>05766928</td>
</tr>
<tr>
<td>Uniforce Levelling device for levelling of specimens in specimen holder’s 140, 160 and 200 mm dia. Without pressure foot for positioning of specimens</td>
<td>04886101</td>
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<tr>
<td>With pressure foot for positioning of specimens</td>
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<td>Bowl liner</td>
<td>49900067</td>
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<tr>
<td>Beacon</td>
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<td>Turntable with keyholes</td>
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<td>Shift valve</td>
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<td>MD-Disc</td>
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<td>Specimen holders</td>
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<tr>
<td>Consumables</td>
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</tbody>
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For further information, please refer to the individual brochure on each product.

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Struers’ products are subject to constant product development. Therefore, we reserve the right to introduce changes in our products without notice.

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NON-STOP
PEACE OF MIND
Ensuring Certainty

With offices and affiliates in 24 countries and a presence in more than 50 countries worldwide, Struers is the world’s leading materialographic solution supplier. We are dedicated to enabling our customers to ensure certainty in all aspects of materialographic preparation and testing as well as material hardness testing—wherever they are in the world. Struers offers a complete range of equipment, consumables, service and training programmes—all supported by the most comprehensive knowledge base, global applications support and a certified global service set-up.

Learn more
Contact a Struers sales representative today or visit www.struers.com