



- Sturdy and powerful design
- Excellent for large specimens
- User-friendly



# DOUBLE DOSING

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.

## ***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.



**20,000 CYCLES**

## **Fast reproducible preparation**

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

*“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.



# STAINLESS STEEL BOWL



### 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.

## Key features ensure trouble-free, heavy



# Ensuring optimal and heavy duty preparation



Steel - Step No. 1

MD-Plano 220

Water  On

240 N  Removal  100 µm

300 rpm  150 rpm

Select mode

Previous step Next step New step Save

**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.

**LIFETIME WARRANTY\***

**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.*

## Technical data



### 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 - 480 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 - 480 V / 50 - 60 Hz

#### Cat. no.

06306229  
06306246

<b>Disc</b>	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
<b>Specimen holder</b>	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"
<b>Positioning of specimen holder</b>	X- direction	65 mm
<b>Operation Modes</b>	Semi automatic and manual preparation	
<b>Process mode</b>	Time	5 sec. - 10 min
	Removal	0.05 - 5 mm
<b>Safety</b>	Please refer to the Declaration of Conformity	
<b>Noise level</b>	At idle running, at a distance of 1.0 m / 39.4" from the machine	52 db (A)
<b>Surrounding temperature</b>	5 - 40 °C / 41 - 104 °F	
<b>Humidity</b>	Non condensing 0 - 95 % RH	
<b>Software and electronics</b>	Controls	Touch pad and turn/push knob
	Memory	FLASH-ROM / RAM / NV-RAM
	LC Display	TFT-colour 320x240 dots with LED back light
<b>Supply</b>	Voltage / frequency	3x200 - 240 50/60Hz, 3x380 - 480 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 (w87-145 psi)
	Compressed air flow	30 l/min (6,6 gpm)
Compressed air quality	ISO 8573-1, class 3	
<b>Recirculation unit</b>	Optional	
<b>Pump for recirculation</b>	Optional	
<b>Drain</b>	Diameter	50 mm / 2"
<b>Exhaust</b>	Diameter	50 mm (2")
	Recommended capacity for exhaust system	1000 l/m (265 gpm)

## PHYSICAL SPECIFICATIONS

<b>Dimensions and weight</b>	Width	84 cm (33")
	Depth	98 cm (39")
	Height closed	156 cm (62")
	Height open	187 cm (74")
	Weight	390 kg (860 lbs)
<b>Beacon</b>	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).

	<b>Accessories</b>	<b>Cat. no.</b>
	<b>DP-Pump unit</b> For double dosing of diamond suspension or lubricant.	06306901
	<b>OP-Pump unit</b> For oxide suspensions.	06306902
	<b>Recirculation pump</b> Recirculation pump for AbraPlan-30 and AbraPol-30. The pump is supplied and controlled by the machine.	
	Recirculation pump for 3 x 200 - 240V 50 / 60Hz	06296929
	Recirculation pump for 3 x 380 - 415V 50 / 60Hz	06296946
	Recirculation pump for 3 x 460 - 480V 50 / 60Hz	06296954
	<b>Recirculation tank</b> 50 l tank. Can be used with static filter (05766928).	05766906
	<b>Filter bag</b> Filter bag for use with 50 l tank (05766906). Stainless steel	05766928
	<b>Uniforce</b> Levelling device for levelling of specimens in specimen holder's 140, 160 and 200 mm dia.	
	Without pressure foot for positioning of specimens	04886101
	With pressure foot for positioning of specimens	04886102

*For further information, please refer to the individual brochure on each product.*

	<b>Accessories</b>	<b>Cat. no.</b>
	<b>Disposable liners</b> For 50 l recirculation tank (05766906)	49900042
	<b>Bowl liner</b> Disposable bowl liner for AbraPol-30. 3 pcs.	49900067
	<b>Beacon</b> To display the actual working condition of AbraPlan-30 and AbraPol-30	06296900
	<b>Turntable with keyholes</b> To prevent lifting of the preparation disc. With 12 pins for preparation discs.	05886905
	<b>Shift valve</b> For recirculation or drain	06306903
	<b>MD-Disc</b> For magnetic fixation	
	350 mm/16" dia.	02426933
	300 mm/14" dia.	02426918
	<b>Specimen holders</b> Please see separate brochure	
	<b>Consumables</b> Please see separate brochure	

*Struers' equipment conforms with the provisions of the applicable International Directives and their appurtenant Standards. (Please contact your local supplier for details)*

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



## 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



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## Ensuring Certainty

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