



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.

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.



20,000 CYCLES

A large German customer of ours says; "The intuitive and icon-based user interface of the AbraPlan-30 and AbraPol-30 worked well to increase our time efficiency. The machine operation in terms of being efficient and precise matched the quality and technology from today and completely fulfill our expectations."

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

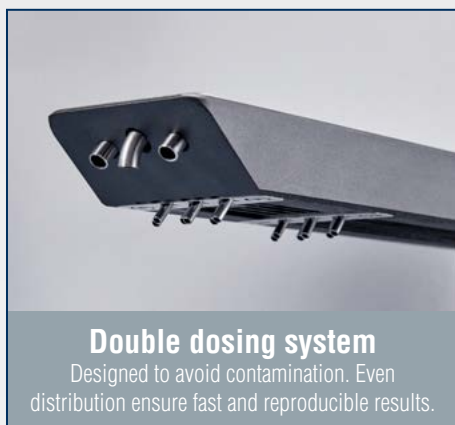
The user interface features a clear colour display with large icons enabling easy and intuitive operations. The multipurpose turn/push knob enables fast navigation.

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.

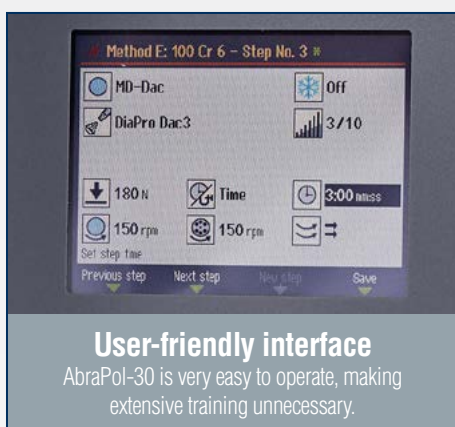


STAINLESS STEEL BOWL



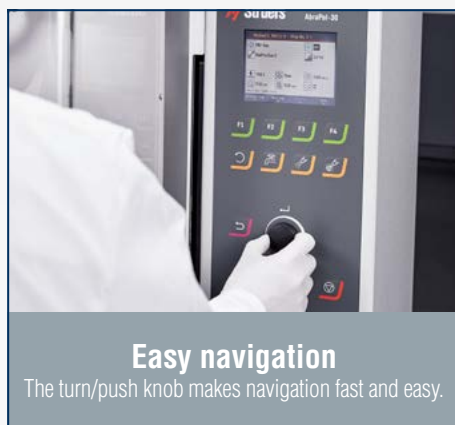
Double dosing system

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-Piano 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

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 - 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	
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 (62")
	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 your local supplier for details).

	Accessories	Cat. no.
	DP-Pump unit For double dosing of diamond suspension or lubricant.	06306901
	OP-Pump unit For oxide suspensions.	06306902
	Recirculation pump 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
	Recirculation tank 50 l tank. Can be used with static filter (05766928).	05766906
	Filter bag Filter bag for use with 50 l tank (05766906). Stainless steel	05766928
	Uniforce 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.

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



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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.

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- Global network of materialographic specialists
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- Annual service review
- Access to complete range of performance enhancing services
- All critical parts on stock for immediate shipping





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