



- 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

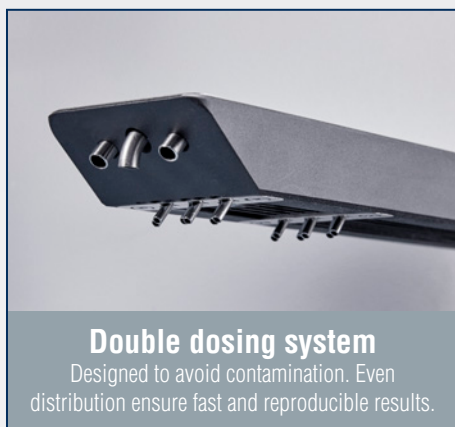
The user interface features a clear colour display with large icons enabling easy and intuitive operations. The multipurpose turn/push knob enables fast navigation.

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.

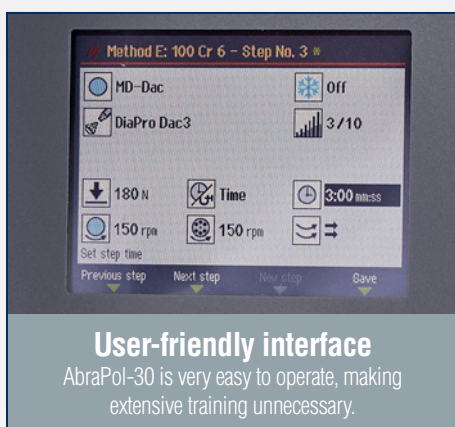


STAINLESS STEEL BOWL



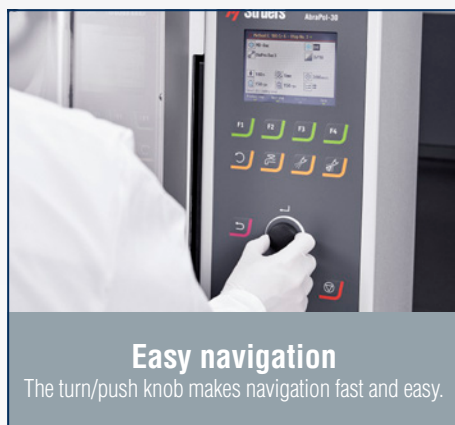
Double dosing system

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 ensuring optimal and trouble-free, 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 you 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
- Documentation support online
- Annual service review
- Access to complete range of performance enhancing services
- All critical parts on stock for immediate shipping



Struers ApS
 Pederstrupvej 84
 DK-2750 Ballerup, Denmark

Phone +45 44 600 800
 Fax +45 44 600 801
 struers@struers.dk
 www.struers.com

SINGAPORE
Struers Singapore
 627A Aljunied Road,
 #07-08 BizTech Centre
 Singapore 389842
 Tel.: +65 6299 2268
 Fax: +65 6299 2661
 struers.sg@struers.dk

SPAIN
Struers España
 Camino Cerro de los Gamos 1
 Building 1 - Pozuelo de Alarcón
 CP 28224 Madrid
 Tel.: +34 917 901 204
 Fax: +34 917 901 112
 struers.es@struers.es

FINLAND
 Struers ApS Suomi
 Sahajankatu 20-22 A6
 00880 Helsinki
 Tel.: +358 (0)207 919 430
 finland@struers.fi

SWEDEN
Struers Sverige
 Box 20038
 161 02 Bromma
 Tel.: +46 (0)8 447 53 90
 Fax: +46 (0)8 447 53 99
 info@struers.se

UNITED KINGDOM
Struers Ltd.
 Unit 11 Evolution @ AMP
 Whittle Way, Catcliffe
 Rotherham S60 5BL
 Tel.: +44 0845 604 6664
 Fax: +44 0845 604 6651
 info@struers.co.uk

USA
Struers Inc.
 24766 Detroit Road
 Westlake, OH 44145-1598
 Tel.: +1 440 871 0071
 Fax: +1 440 871 8188
 info@struers.com

AUSTRALIA & NEW ZEALAND
Struers Australia
 27 Mayneview Street
 Milton QLD 4064
 Australia
 Tel.: +61 7 3512 9600
 Fax: +61 7 3369 8200
 info.au@struers.dk

BELGIUM (Wallonie)
Struers S.A.S.
 370, rue du Marché Rollay
 F- 94507 Champigny
 sur Marne Cedex
 Tel.: +33 1 5509 1430
 Fax: +33 1 5509 1449
 struers@struers.fr

BELGIUM (Flanders)
Struers GmbH Nederland
 Zomerdijk 34 A
 3143 CT Maassluis
 Tel.: +31 (10) 599 7209
 Fax: +31 (10) 5997201
 netherlands@struers.de

CANADA
Struers Ltd.
 7275 West Credit Avenue
 Mississauga, Ontario L5N 5M9
 Tel.: +1 905-814-8855
 Fax: +1 905-814-1440
 info@struers.com

CHINA
Struers Ltd.
 No. 1696 Zhang Heng Road
 Zhang Jiang Hi-Tech Park
 Shanghai 201203, P.R. China
 Tel.: +86 (21) 6035 3900
 Fax: +86 (21) 6035 3999
 struers@struers.cn

CZECH REPUBLIC & SLOVAKIA
Struers GmbH Organizační složka
 vědeckotechnický park
 Přílepská 1920,
 CZ-252 63 Roztoky u Prahy
 Tel.: +420 233 312 625
 Fax: +420 233 312 640
 czechrepublic@struers.de
 slovakia@struers.de

GERMANY
Struers GmbH
 Carl-Friedrich-Benz-Straße 5
 D- 47877 Willich
 Tel.: +49 (0) 2154 486-0
 Fax: +49 (0) 2154 486-222
 infoservice@struers.de

FRANCE
Struers S.A.S.
 370, rue du Marché Rollay
 F-94507 Champigny
 sur Marne Cedex
 Tel.: +33 1 5509 1430
 Fax: +33 1 5509 1449
 struers@struers.fr

HUNGARY
Struers GmbH
 Magyarországi Fióktelep
 2040 Budaörs
 Szabadság utca 117
 Phone +36 (23) 80 60 90
 Fax +36 (23) 80 90 91
 hungary@struers.de

IRELAND
Struers Ltd.
 Unit 11 Evolution@ AMP
 Whittle Way, Catcliffe
 Rotherham S60 5BL
 Tel.: +44 0845 604 6664
 Fax: +44 0845 604 6651
 info@struers.co.uk

ITALY
Struers Italia
 Via Monte Grappa 80/4
 20020 Arese (MI)
 Tel.: +39-02/38236281
 Fax: +39-02/38236274
 struers.it@struers.it

JAPAN
Struers K.K
 Takanawa Muse Bldg. 1F
 3-14-13 Higashi-Gotanda,
 Shinagawa
 Tokyo
 141-0022 Japan
 Tel.: +81 3 5488 6207
 Fax: +81 3 5488 6237
 struers@struers.co.jp

NETHERLANDS
Struers GmbH Nederland
 Zomerdijk 34 A
 3143 CT Maassluis
 Tel.: +31 (10) 599 7209
 Fax: +31 (10) 5997201
 netherlands@struers.de

NORWAY
Struers ApS, Norge
 Sjøskogenveien 44C
 1407 Vinterbro
 Tel.: +47 970 94 285
 info@struers.no

AUSTRIA
Struers GmbH
 Zweigniederlassung Österreich
 Betriebsgebiet Puch Nord 7
 5412 Puch
 Tel.: +43 6245 70567
 austria@struers.de

POLAND
Struers Sp. z o.o.
 Oddział w Polsce
 ul. Jasnogórska 44
 31-358 Kraków
 Tel.: +48 12 661 20 60
 Fax: +48 12 626 01 46
 poland@struers.de

ROMANIA
Struers GmbH, Sucursala Bucuresti
 Str. Preciziei nr. 6R
 062203 sector 6, Bucuresti
 Tel.: +40 (31) 101 9548
 Fax: +40 (31) 101 9549
 romania@struers.de

SWITZERLAND
Struers GmbH
 Zweigniederlassung Schweiz
 Weissenbrunnstraße 41
 CH-8903 Birmensdorf
 Tel.: +41 44 777 63 07
 Fax: +41 44 777 63 09
 switzerland@struers.de

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