



- Precise and powerful performance
- Fast and easy to operate
- High capacity



PERFECT PLANENESS

AbraPlan-30 brings a wide array of features and benefits, enabling users to optimize their grinding process to save time and consumables. As the strongest plane grinding machine available on the materialographic market, AbraPlan-30 ensures a powerful and fast plane grinding process and is ideal for workplaces carrying out testing of large specimens or a high volume of specimens.

Optimise process and save time

- High capacity / High volume
- Fast and powerful
- Efficient and reproducible
- Intuitive user interface

By the way...

The AbraPlan-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

"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 plane grinding

AbraPlan-30 is an advanced plane grinding machine for specimen holders up to 200 mm diameter. It is a sturdy machine for heavy use, for grinding of large or numerous specimens full time. Using AbraPlan-30 to plane grind your specimens will help you save time and will increase productivity of your grinding/polishing machines. Use the time saved on grinding for other purposes!

Fast and simple

The automatic diamond dresser will keep your grinding stone plane and sharp. An automatic surface detection makes the process simpler and faster. A special dresser key, on the front

panel, enables faster and easier access to the dresser function. The dresser automatically monitors the remaining thickness of the grinding stone and notify the user, when the stone has to be replaced, and minimise grinding time and stone consumption.

Easy to operate

The user interface features a clear colour display with large icons. The performance of the grinding stone and the material removal rate are monitored continuously. The operator can follow the removal rate graph and optimise the process. Thanks to the multi-purpose turn/push knob, navigation is easy and uncomplicated.

Accurate and powerful performance

AbraPlan-30 features an exceptionally stable and robust design for precision grinding, with an extremely solid frame and powerful motors. The sturdy design limits vibrations, and a stainless-steel bowl prevents damage of the bowl in case a specimen is loosens from mover head. The bowl comes with a lifetime corrosion warranty.



AUTOMATIC DRESSER



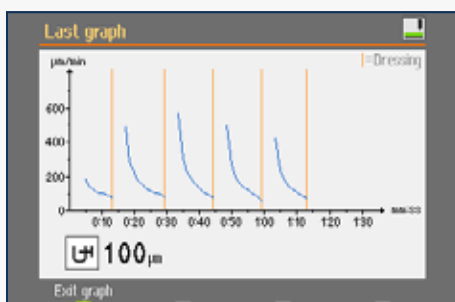
Automated dressing

Optimised stone performance reduce stone consumption and increase removal rates.



User-friendly interface

Very easy to operate, making extensive training unnecessary and reduce operator time.



Removal rate displayed

Visualised process to minimise time and stone consumption.



Always know the status

The beacon helps the operator to give attention only when necessary.

Key features that ensure high-volume and tr



ure fast and efficient, ouble-free grinding



**LIFETIME
WARRANTY***



Durability is key*

Bowl made of a corrosion resistant stainless steel for greater durability and safety.



Precise and repeatable

Repeatedly reach the defined stock removal saves time and money.



Maximum operator safety

AbraPlan-30 is designed for the highest level of operator safety.



Wide application range

A diamond grinding disc is available, further to the Al_2O_3 and SiC grinding stones, for plane grinding of very hard and brittle materials.

**Only on breakthrough corrosion and when Struers consumables are used.*

Technical data



AbraPlan-30

Advanced semi-automatic plane grinding machine for grinding of specimens in specimen holders up to 200 mm/8" dia. AbraPlan-30 features an automatic diamond dresser with automatic surface detection, a removal rate sensor and a transparent safety cover. Recirculation cooling tank, pump and filter, grinding stones 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.

06296129
06296146

Stone	Diameter	356 mm / 16"
	Speed	1450 rpm
	Motor power, continuous (S1)	4.0 kW
Specimen holder	Speed	150 rpm
	Force	50 - 700 N
	Max. size	200 mm / 8"
Dresser Process mode	Dresser modes	Time, Removal
	Time	5 sec. - 10 min
	Removal	0.05 - 10 mm
	Removal/Time	0.05 - 10 mm, 5 sec. - 10 min
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
Supply	Voltage / frequency	3x200-240 50/60Hz, 3x380-480 50/60Hz
	Power inlet	3 phase (3L + PE)
	Power, nominal load	4,5 kW
	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
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
Recirculation unit	Optional	
Pump for recirculation	Optional	
Flow sensor for cooling water	Included	
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	400 kg (882 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.****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

Disposable liners

For collecting waste material in 50l tank (05766906)

49900042

Beacon

To display the actual working condition of AbraPlan-30 and AbraPol-30

06296900

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

Specimen holders

Please see separate brochure

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

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.

Consumables**Cat. no.****Grinding stone 6A36**

Aluminium oxide grinding stone, for plane grinding of very hard steels/steels containing many carbides on AbraPlan and MAPS. Grit 150, 356 mm/14" dia.

40800177

Grinding stone 4A36

Aluminium oxide grinding stone, for plane grinding of metals >HV 250 on AbraPlan and MAPS. Grit 150, 356 mm/14" dia.

40800010

Grinding stone 3A36

Aluminium oxide grinding stone, for plane grinding of nickel-based alloys (turbine blades) and stainless steels on AbraPlan and MAPS. Grit 150, 356 mm/14" dia.

40800178

Grinding stone 2S36

Silicon carbide grinding stone, for plane grinding of non-ferrous metals on AbraPlan and MAPS. Grit 150, 356 mm/14" dia.

40800074

Diamond grinding disc

Resin bonded diamond disc, grooved in a square pattern. For plane grinding of ceramics and sintered carbides on AbraPlan and MAPS. Grit 120, 356 mm/14" dia.

40800202

Diamond point for dressing tool

Diamond point for dressing tool, 5 mm/0.2" dia. For Hexamatic, MAPS, AbraPlan-10/-20/-30, Prepamatic and Miniplan.

40800045



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



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
Phone +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
Teléfono +34 917 901 204
Fax +34 917 901 112
struers.es@struers.es

FINLAND
Struers ApS, Suomi
Hietalahdenranta 13
00180 Helsinki
Puhelin +358 (0)207 919 430
Faksi +358 (0)207 919 431
finland@struers.fi

SWEDEN
Struers Sverige
Box 20038
161 02 Bromma
Telefon +46 (0)8 447 53 90
Telefax +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
Phone +1 440 871 0071
Fax +1 440 871 8188
info@struers.com

AUSTRALIAN & NEW ZEALAND
Struers Australia
27 Mayneview Street
Milton QLD 4064
Australia
Phone +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
Téléphone +33 1 5509 1430
Télécopie +33 1 5509 1449
struers@struers.fr

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

CANADA
Struers Ltd.
7275 West Credit Avenue
Mississauga, Ontario L5N 5M9
Phone +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
Phone +86 (21) 6035 3900
Fax +86 (21) 6035 3999
struers@struers.cn

CZECH REPUBLIC & SLOVAKIA
Struers GmbH Organiza ni slozka
v deckotechnický park
P ílepská 1920,
CZ-252 63 Roztoky u Prahy
Phone +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
Telefon +49 (0) 2154 486-0
Fax +49 (0) 2154 486-222
verkauf@struers.de

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

HUNGARY
Struers GmbH
Magyarország Fióktelep
Tatai út 53
2821 Gyermely
Phone +36 (34) 880546
Fax +36 (34) 880547
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
Marumoto Struers K.K.
Takanawa Muse Bldg. 1F
3-14-13 Higashi-Gotanda,
Shinagawa
Tokyo
141-0022 Japan
Phone +81 3 5488 6207
Fax +81 3 5488 6237
struers@struers.co.jp

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

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

AUSTRIA
Struers GmbH
Zweigniederlassung Österreich
Betriebsgebiet Puch Nord 8
5412 Puch
Telefon +43 6245 70567
Fax +43 6245 70567-78
austria@struers.de

POLAND
Struers Sp. z o.o.
Oddział w Polsce
ul. Jasnogórska 44
31-358 Kraków
Phone +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
Phone +40 (31) 101 9548
Fax +40 (31) 101 9549
romania@struers.de

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

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



e-Shop

Buy your consumables
in Struers e-Shop!
e-shop.struers.com