



Ensuring Certainty

AbraPlan-30

High-capacity plane grinding machine



- 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



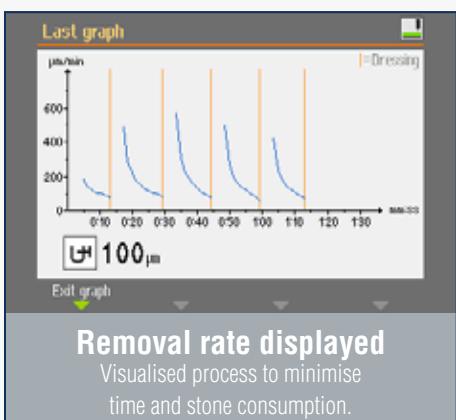
Automated dressing

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 truly reliable



ture fast and efficient, ouble-free grinding



LIFETIME
WARRANTY*



Durability is key*

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



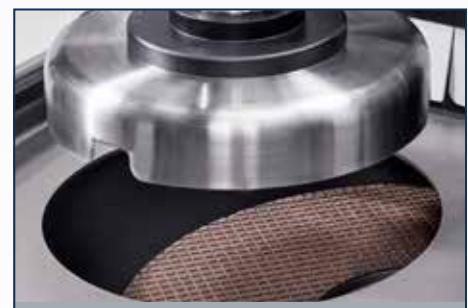
Precise and repeatable

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	
Surrounding temperature	5 - 40 °C / 41 - 104 °F	
Humidity	Non condensing 0 - 95 % RH	
Supply	3x200-240 50/60Hz, 3x380-480 50/60Hz 3 phase (3L + PE) 4,5 kW 6 mm (1/4") 6 - 9,9 bar (87-145 psi) 30 l/min (6.6 gpm) ISO 8573-1, class 3	
Software and electronics	Controls Memory LC Display	
	Touch pad and turn/push knob FLASH-ROM / RAM / NV-RAM 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	
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.	Consumables	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	Grinding stone 6A36	40800177
Recirculation pump for 3 x 380 - 415V 50 / 60Hz	06296946	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.	
Recirculation pump for 3 x 460 - 480V 50 / 60Hz	06296954	Grinding stone 4A36	40800010
Recirculation tank 50 l tank. Can be used with static filter (05766928).	05766906	Aluminium oxide grinding stone, for plane grinding of metals >HV 250 on AbraPlan and MAPS. Grit 150, 356 mm/14" dia.	
Filter bag Filter bag for use with 50 l tank (05766906). Stainless steel.	05766928	Grinding stone 3A36	40800178
Disposable liners For collecting waste material in 50l tank (05766906)	49900042	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.	
Beacon To display the actual working condition of AbraPlan-30 and AbraPol-30	06296900	Grinding stone 2S36	40800074
Uniforce Levelling device for levelling of specimens in specimen holder's 140, 160 and 200 mm dia.		Silicon carbide grinding stone, for plane grinding of non-ferrous metals on AbraPlan and MAPS. Grit 150, 356 mm/14" dia.	
Without pressure foot for positioning of specimens	04886101	Diamond grinding disc	40800202
With pressure foot for positioning of specimens	04886102	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.	
Specimen holders Please see separate brochure		Diamond point for dressing tool	40800045
<i>For further information, please refer to the individual brochure on each product.</i>			

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

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.

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