

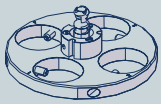
CONSUMABLES CATALOG

Optimize your preparation process
with Struers consumables





Xmatic prepares up to



**8 specimen
holders**



**with just
4 minutes of
operator time**

- ✓ Maximize reproducibility with fully automated and consistent grinding & polishing
- ✓ Increase lab efficiency by minimizing operator time per specimen
- ✓ Simplify your processes with fast, easy and intuitive operation
- ✓ Boost throughput with an optimized and high-quality preparation process
- ✓ Improve safety with minimal operator intervention

REPRODUCIBILITY THAT ONLY AUTOMATION CAN DELIVER. EVERY TIME

Get the very best reproducibility, throughput and process standardization with Xmatic – the fully automated grinding & polishing solution for high throughput labs

READ MORE



CONSUMABLES CATALOG

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ANY CONSUMABLE FOR YOUR MATERIAL

As the world's leading materialographic supplier, we provide a full range of materialographic consumables and accessories, covering any type of material. All of our products are designed to ensure that you get outstanding quality, reproducibility, and usability – for efficient preparation and reliable results.

In the Struers Consumables Catalog, you can find consumables and accessories for every area of materialographic preparation:

- Cutting
- Mounting
- Grinding and Polishing
- Verification
- Accessories

CUTTING



MOUNTING



GRINDING/POLISHING



VERIFICATION





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“We have not met a customer yet for whom we were unable to reduce their number of steps or reduce their preparation time.”

– Helle Michaelsen, MSc, Business
Solution & Application Manager, Struers

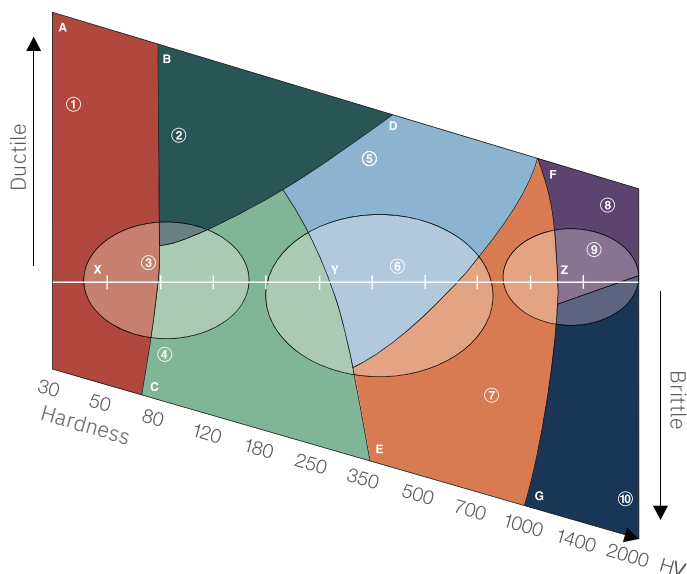


A METHOD FOR ANY MATERIAL

Optimize your process – minimize your waste

Are you looking for perfect results from your true structure? Or perhaps a few artifacts are acceptable as long as they do not disturb your analysis? No matter your preparation goal, we will help you optimize your grinding and polishing process – without over-processing. This means increasing the quality of your specimen up to your goal by eliminating artifacts such as deformation, edge rounding, scratches or pull-outs, while minimizing process waste with fewer, shorter steps.

Find the optimal process for your material based on its hardness and ductility



Find the hardness of your material on the X-axis, then move up or down the Y-axis, depending on its ductility. Learn more and see optimized methods for your material at [Struers.com](https://www.struers.com)

Take a systematic approach to accurate, reproducible results

Trial and error is neither an accurate nor efficient approach. Based on extensive academic training and hands-on experience, our materialographic experts have developed optimized methods for any material. Simply tell us your preparation goal, and we will customize our standard method to your equipment, requirements and operator capabilities, whether your focus is on quality, safety, speed, or efficiency.

A systematic approach is key to achieving accurate, repeatable results and makes troubleshooting easier. Struers also helps you minimize random errors and maximize your reproducibility. Our high quality consumables deliver the same performance every time and help to absorb sensitivity to changes in conditions. We also provide training in methods and techniques with onsite and online courses.



**Siemens reduced its
titanium preparation
time by more than**

 **80 %**

**“One of our colleagues, who has
worked with titanium for several
years in large companies, told
us that these were the best
specimens he had ever seen.”**

– Mikael Bergren, Laboratory
Technician, Siemens Industrial
Turbomachinery

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CHOOSE A PARTNER, NOT JUST A SUPPLIER

Maximize your uptime with consumables on delivery

Reduce your risk and keep inventory costs down with our robust global supply chain. For fast, reliable delivery, we have distribution centers across the U.S., Japan, China, Germany and Denmark.

Our ISO 9001-certified LEAN production and strict quality control ensure all consumables perform as promised and contribute to a safer workplace. You can also minimize your environmental impact thanks to our ISO 14001 certification for environmental management and commitment to low-carbon shipping.

Get total support – whatever, whenever

Our materialographic experts can help you optimize your end-to-end process through Value Stream Mapping. There are also Struers consumables and equipment for any stage in the process. These are designed to work together so you get the most out of your investment.

In fact, we are here to help you with every aspect of materialography. Whether you need to boost your skills with onsite and online training or maximize your uptime with service and support, we offer a complete solution for ensuring certainty.



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**98% of consumables
are shipped within**

48 hrs



THE EASIEST WAY TO ORDER CONSUMABLES

With a new easy-to-use and mobile-friendly design, our WebShop is the simplest way to order your consumables.

- ✓ Browse the full selection of Struers consumables online
- ✓ Order anywhere from your laptop, tablet or mobile
- ✓ Enjoy fast ordering and delivery

CLICK HERE





CUTTING

Struers Cutting Consumables

Perfect materialographic cutting requires precision without overheating or material deformation, usually combined with speed. Therefore, Struers machines and consumables are designed to work together to control all the parameters of the cutting process, such as cooling, rotational speed, and feed speed. In this way, you get the most out of your investment.

Intelligent Cut-off Wheels

Struers cut-off wheels have a built-in compensation to changing wear characteristics throughout its life. The abrasive density of our wheels varies across the wheel radius, with increasing density toward the center. This results in more constant wear characteristics, which can be converted into less wear and improved control of the cut.

Hexagonal 3D Cut-off Wheels

Struers 3D cut-off wheels have a unique, patented hexagonal surface. The surface of the wheels contributes to a more efficient cooling and helps to eliminate cutting debris buildup. This results in lower heat damage and less time spent in cleaning.

Struers consumables are designed to get the most out of your Struers equipment.



SELECTION GUIDE FOR CUT-OFF WHEELS

Struers offers the market's most comprehensive ranges of purpose-designed cut-off wheels for metallographic sectioning. Our cut-off wheels are thoroughly tested and optimized for use on Struers cut-off machines.

The cut-off wheels are also applicable for other machines in the market with similar specifications.

How to select the correct cut-off wheel:

If the hardness of the material is known, use the table at the top of the page. In the table at the bottom, you will then find the cut-off wheel codes for the specific cutting machines. If the hardness of the material is not known, find a suitable cut-off wheel according to material group in the table below.

1. Go upwards on the y-axis of the overview to the right until you find the hardness value of your material.
2. Move to the right, until you cross the material group that fits your application. If you only have one material to cut, find the wheel where your material's hardness is placed as close to the middle of the interval as possible. For two or more materials, see if you can find a wheel that covers the whole hardness range.
3. Find the number (I-XI) of the material group, and see the table below for the code of the correct wheel for your cut-off machine.

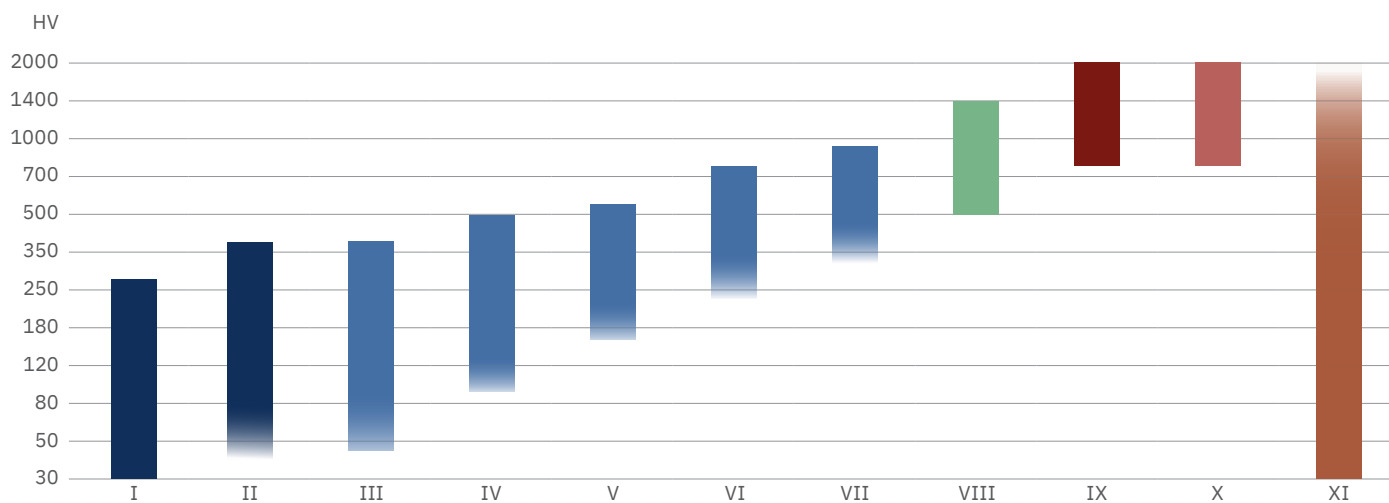


	Abrasive	Bond
●	SiC	Bakelite
●	Al ₂ O ₃	Bakelite
●	CBN	Bakelite
●	Diamond	Bakelite Hard and ductile materials
●	Diamond	Metal Hard and brittle materials
●	Diamond	Metal electroplated Mounted materials, predominately resin

Cut-off machine	Std. wheel size*
Magnutom-500/-5000	508 x 3.5 x 32
Exotom-100/-150 Magnutom-400/-500/-5000	432 x 3.0 x 32
Axitom-5/400	400 x 3.0 x 32
Axitom-5	350 x 2.5 x 32
Labotom-15/-20	350 x 2,5 x 32
Exotom/Unitom-2/-5/-50	350 x 2,5 x 32
Unitom/Discotom -50/-60/-65/-100	300 x 2,0 x 32
Discotom-5/-6/-10/ Labotom-3/-5	250 x 1,5 x 32
Discotom/Labotom	235 x 1,5 x 22
Discoflan-TS	200 x 1,0 x 22
1) 406 x 1.8 x 32 2) 350 x 1.5 x 32 3) 356 x 1.5 x 32 4) 305 x 1.8 x 32 5) 305 x 1.5 x 32	

Precision cut-off machine	Std. wheel size*
Secotom 1/-10/-15/-50-6/-20/-60**	200 x 0.8 x 22
Accutom-10/-100/-5/-50	150 x 0.5 x 12.7
Accutom-2	125 x 0.5 x 12.7
Minitem	125 x 0.5 x 12.7
Wheels with special sizes	100 x 0.3 x 12.7
	75 x 0.15 x 12.7

* Diameter x Width x Bore in mm.



10S51			30A51	40A51 42A51 ¹⁰	50A51 52A51 ¹⁰	60A51 62A51 ¹⁰	B0C50	B0D51 ¹⁷	M0D51 ¹⁶	E0D36 ³
10S43	20S43		30A 43	40A43 42A43 ¹⁰	50A43 52A43 ¹⁰ 58A43 ¹⁸	60A43 62A43 ¹⁰ 66A43 ¹² 68A43 ¹⁸	B0C41 ¹	B0D35 ²	M0D35 ²	E0D36 ³
10S40	20S40		30A40	40A40	50A40 58A40	60A40 68A40	B0C41 ¹	B0D35 ²	M0D35 ²	E0D36 ³
10S35	20S35	20A35	20A35	30A35	40A35	50A35 56A35 ¹² 58A35 ¹⁸	B0C35 ⁶	B0D35 ² B7D35 ^{2/15}	M0D35 ²	E0D36 ³
10S35	20S35	49A35 ¹⁹ 30A35	49A35 ¹⁹ 40A35	49A35 ¹⁹ 50A35 56A35 ¹²	60A35 66A35 ¹²	60A35 66A35 ¹²	B0C35 ⁶	B0D35 ² B7D35 ^{2/15}	M0D35 ²	E0D36 ³
10S35	30S35	20A35	30A35	40A35	50A35 56A35 ¹² 58A35 ¹⁸	60A35 66A35 ¹² 68A43 ¹⁸	B0C35 ⁶	B0D35 ² B7D35 ^{2/15}	M0D35 ²	E0D36 ³
10S30	20S30		30A30	40A30	50A30	60A30 66A30 ¹²	B0C31 ⁴	B0D31 ⁴	M0D31 ⁵	E0D30 ⁵
10S25	20S25	20A25	30A25 33A25 ⁹	40A25 46A25 ¹²	54A25 50A25 ¹¹ 56A25 ¹²	60A25 66A25 ¹²	B0C25 ⁷	B0D25 ⁸	M0D25 ⁸	E0D25
10S24	20S24		30A24	40A24	50A24	60A24				
B4D20									M4D20	

6) 350 x 1.8 x 32 7) Width = 1.3 8) Width = 1.1 9) Width = 0.8 10) Fiberglass reinforced 11) For hard and ductile materials, Ni-base alloys
 12) 3D cut-off wheels 13) Width=0.6 14) Width=0.4 15) For sintered carbides in steel 16) Width = 2.4 17) Width = 3.2 18) Premium cut-off
 19) Fiber reinforced

10S20	10S20	30A20	30A20	50A20	50A20	50A20	B0C20	B0D20	M0D20 ¹³ M1D20 ¹³	E1D20
10S15	10S15	40A15 30A15	40A15 30A15	50A15	50A15	50A15	B0C15	B0D15	M0D15 M1D15	E0D15
30A13	30A13	30A13	30A13	50A13	50A13	50A13	B0C13	B0D13 ¹³	M0D13 ¹⁴ M1D13 ¹⁴	M1D13 ¹⁴
M1D13 ¹⁴	M1D13 ¹⁴	B0C13 ¹³	B0C13 ¹³	B0C13 ¹³	B0C13 ¹³	B0C13 ¹³	B0C13 ¹³	B0D13 ¹³	M0D13 ¹⁴ M1D13 ¹⁴	M1D13 ¹⁴
These wheels can be used on both Accutom-2/-5/-50 and Secotom-1/-10/-15/-50-6/-20/-60 for cutting of small specimens where high precision or minimum material loss is required.									M0D10 M1D10	M1D10
									M0D08 M1D08	M1D08

** On Secotom-1 only use M0D20 + B0D20

CUTTING

MOUNTING

GRINDING

POLISHING

VERIFICATION

ACCESSORIES



Premium Cut-off Wheel



Abrasive Cut-off Wheel



Abrasive Cut-off Wheels

Cutting Abrasive

508 mm Abrasive Cut-off Wheels

40009160	Cut-off wheel 10S51 For cutting soft, non-ferrous materials (HV 30-300). Silicon carbide. Resin bond 508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009161	Cut-off wheel 30A51 For cutting of medium soft ferrous metals (<HV 300). Aluminium oxide. Resin bond. 508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009162	Cut-off wheel 40A51 For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and softer ferrous metals with diameters above 150 mm. Aluminium oxide. Resin bond. 508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009163	Cut-off wheel 42A51 For cutting of medium hard ferrous metals (HV 200-500), stainless steel and softer ferrous metals with diameters above 150 mm. Aluminium oxide. Resin bond. Fibre reinforced 508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009164	Cut-off wheel 50A51 For cutting of hard ferrous metals (HV 450 - 600). Aluminium oxide. Resin bond. 508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009165	Cut-off wheel 52A51 For cutting of hard ferrous metals (HV 450 - 600). Aluminium oxide. Resin bond. Fibre reinforced 508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009166	Cut-off wheel 60A51 For cutting of extra hard ferrous metals (>HV 600). Aluminium oxide. Resin bond. 508 mm dia. x 3.5 mm x 32 mm dia. 3 pcs.
40009167	Cut-off wheel 62A51 For cutting of very hard ferrous metals (> HV 600). Aluminium oxide. Resin bond. Fibre reinforced 508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.

432 mm Abrasive Cut-off Wheels

40009150	Cut-off Wheel 10S43 For cutting of soft, non-ferrous metals (HV 30 - 300). Silicon carbide. Resin bond 432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009170	Cut-off Wheel 20S43 For cutting of very ductile metals (e.g. titanium) (HV 70 - 400). Silicon carbide. Resin bond. 432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.

432 mm Abrasive Cut-off Wheels

40009151	Cut-off Wheel 30A43 For cutting of medium soft ferrous metals (< HV 300) and for general applications. Aluminium oxide. Resin bond 432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009152	Cut-off Wheel 40A43 For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. Aluminium oxide. Resin bond 432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009158	Cut-off Wheel 42A43 For cutting of case hardened and medium hard ferrous metals (HV 200 - 700), and for stainless steel. Fibre-reinforced. Aluminium oxide. Resin bond 432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009153	Cut-off Wheel 50A43 For cutting of hard ferrous metals (HV 450 - 600). Aluminium oxide. Resin bond 432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009154	Cut-off Wheel 52A43 For cutting of hard ferrous metals (HV 450 - 600). Fibre-reinforced. Aluminium oxide. Resin bond 432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009174	Cut-off wheel, Premium 58A43 For high volume cutting of hard ferrous metals (HV 450-600). With spiral pattern. Aluminium oxide. Resin bond. 432 mm (17") dia. x 2.7 mm x 32 mm dia. 5 pcs.
40009155	Cut-off Wheel 60A43 For cutting of extra hard ferrous metals (> HV 600). Aluminium oxide. Resin bond 432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009156	Cut-off Wheel 62A43 For cutting of extra hard ferrous metals (> HV 600). Fibre-reinforced. Aluminium oxide. Resin bond 432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009159	Cut-off Wheel, Hexagonal 66A43 For cutting of extra hard ferrous metals (>HV 600). With 3D hexagon pattern. Aluminium oxide. Resin bond 432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009175	Cut-off wheel, Premium 68A43 For high volume cutting of very hard ferrous metals (HV >600). With spiral pattern. Aluminium oxide. Resin bond. 432 mm (17") dia. x 2.7 mm x 32 mm dia. 5 pcs.

400 mm Abrasive Cut-off Wheels

40000104	Cut-off wheel 10S40 For cutting of soft, non-ferrous metals (HV 30 - 300). Silicon carbide. Resin bond 400 mm (16") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40000105	Cut-off wheel 20S40 For cutting of very ductile metals (e.g. titanium) (HV 70 - 400). Silicon carbide. Resin bond 400 mm (16") dia. x 3.0 mm x 32 mm dia. 5 pcs.

400 mm Abrasive Cut-off Wheels

40000106	Cut-off wheel 30A40 For cutting of medium soft ferrous metals (<HV 300). Aluminium oxide. Resin bond 400 mm (16") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40000107	Cut-off wheel 40A40 For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. Aluminium oxide. Resin bond 400 mm (16") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40000108	Cut-off wheel 50A40 For cutting of hard ferrous metals (HV 450 - 600). Aluminium oxide. Resin bond 400 mm (16") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40000109	Cut-off wheel 58A40 Premium Cut-off wheel. For cutting of hard ferrous metals (HV 450 - 600). With spiral pattern. Aluminium oxide. Resin bond 400 mm (16") dia. x 2.5 mm x 32 mm dia. 5 pcs.
40000110	Cut-off wheel 60A40 For cutting of extra hard ferrous metals (> HV 600). Aluminium oxide. Resin bond 400 mm (16") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40000111	Cut-off wheel 68A40 Premium Cut-off wheel. For cutting of extra hard ferrous metals (> HV 600). With Spiral pattern. Aluminium oxide. Resin bond 400 mm (16") dia. x 2.5 mm x 32 mm dia. 5 pcs.

350 mm Abrasive Cut-off Wheels

40009120	Cut-off Wheel 10S35 For cutting of soft, non-ferrous metals (HV 30 - 300) on Unitom (2.775 rpm), Axitom (1.950 rpm) and Labotom-15 (2.350 rpm)/Labotom-20 (2.500 rpm). Silicon carbide. Resin bond 350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.
40009121	Cut-off Wheel 20S35 For cutting of very ductile metals (e.g. titanium) (HV 70 - 400) on Axitom (1.950 rpm) and Labotom-15 (2.350 rpm)/Labotom-20 (2.500 rpm). Silicon carbide. Resin bond 350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.
40009122	Cut-off Wheel 30S35 For cutting of very ductile metals (e.g. titanium) (HV 70 - 400) on Unitom (2.775 rpm). Silicon carbide. Resin bond 350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.
40009123	Cut-off Wheel 20A35 For cutting of soft ferrous metals, steel tubes and small pieces (HV 80 - 400) on Unitom (2.775 rpm) and Axitom (1.950 rpm), and for cutting of medium soft ferrous metals (<HV 300) and for general applications on Axitom (1.950 rpm). Aluminium oxide. Resin bond 350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.

350 mm Abrasive Cut-off Wheels

40009124	Cut-off Wheel 30A35 For cutting of soft ferrous metals, steel tubes and small pieces (HV 80 - 400) on Labotom-15 (2.350 rpm) /Labotom-20 (2.500 rpm). For cutting of medium soft ferrous metals (<HV 300) on Unitom (2.775 rpm). For cutting of medium hard ferrous metals (HV 200 - 500) and stainless steel on Axitom (1.950 rpm). Aluminium oxide. Resin bond 350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.
40009125	Cut-off Wheel 40A35 For cutting of medium soft ferrous metals (<HV 300) on Labotom-15 (2.350 rpm)/Labotom--20 (2.500 rpm). For cutting of medium hard ferrous metals (HV 200 - 500) and stainless steel on Unitom (2.775 rpm). For cutting of hard ferrous metals (HV 300 - 700) on Axitom (1.950 rpm). Aluminium oxide. Resin bond 350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.
40009180	Cut-off wheel 49A35 Fiber-reinforced for manual cutting of soft to medium hard ferrous metals in a range between 100-500 HV. For Labotom-15 and Labotom-20. Aluminum oxide. Resin bond 350 mm (14") dia. x 2.2 mm x 32 mm dia. 10 pcs.
40009126	Cut-off Wheel 50A35 For cutting of medium hard ferrous metals (HV 200 - 500) and stainless steel on Labotom-15 (2.350 rpm) /Labotom-20 (2.500 rpm). For cutting of hard ferrous metals (HV 300 - 700) on Unitom (2.775 rpm). For cutting of very hard ferrous metals (HV 400 - 800) on Axitom (1.950 rpm). Aluminium oxide. Resin bond 350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.
40009168	Cut-off wheel 55A35 For cutting of hard ferrous metals (HV 300 - 700) on Unitom (2.775 rpm) and for cutting of extra hard ferrous metals (HV 400 - 800) on Axitom (1.950 rpm). Special cut-off wheel for cutting of 3 mm wide slots. Aluminium oxide. Resin bond 350 mm (14") dia. x 3,0 mm x 32 mm dia. 8 pcs.
40009127	Cut-off Wheel, Hexagonal 56A35 For cutting of medium hard ferrous metals (HV 200 - 500) and stainless steel on Labotom-15 (2.350 rpm)/Labotom-20 (2.500 rpm). For cutting of hard ferrous metals (HV 300 - 700) on Unitom (2.775 rpm). For cutting of very hard ferrous metals (HV 400 - 800) on Axitom (1.950 rpm). With 3-D hexagon pattern. Aluminium oxide. Resin bond 350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.
40009172	Cut-off wheel, Premium 58A35 For cutting of hard ferrous metals (HV 300 - 700) on Unitom (2.775 rpm). For cutting of very hard ferrous metals (HV 400 - 800) on Axitom (1.950 rpm). Suitable for high volume cutting. With spiral pattern. Aluminium oxide. Resin bond. 350 mm (14") dia. x 2.2 mm x 32 mm dia. 10 pcs.
40009128	Cut-off Wheel 60A35 For manual cutting of hard and very hard ferrous metals (HV 300 - 800) on Labotom-15 (2.350 rpm) /Labotom-20 (2.500 rpm). For cutting of very hard ferrous metals (HV 400 - 800) on Unitom (2.775 rpm). Aluminium oxide. Resin bon 350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.

350 mm Abrasive Cut-off Wheels

- 40009129 Cut-off Wheel, Hexagonal 66A35**
For manual cutting of hard and very hard ferrous metals (HV 300 - 800) on Labotom-15 (2.350 rpm)/Labotom-20 (2.500 rpm). For cutting of very hard ferrous metals (HV 400 - 800) on Unitom (2.775 rpm). With 3-D hexagon pattern. Aluminium oxide. Resin bond
350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.
- 40009173 Cut-off wheel, Premium 68A35**
For cutting of very hard ferrous metals (HV 400 - 800) on Unitom (2.775 rpm) and Labotom-15 (2,350 rpm)/Labotom-20 (2.500 rpm). Suitable for high volume cutting. With spiral pattern. Aluminium oxide. Resin bond.
350 mm (14") dia. x 2.2 mm x 32 mm dia. 10 pcs.

300 mm Abrasive Cut-off Wheels

- 40009140 Cut-off Wheel 10S30**
For cutting of soft, non-ferrous metals (HV 30 - 300). Silicon carbide. Resin bond
300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.
- 40009141 Cut-off Wheel 20S30**
For cutting of very ductile metals (e.g. titanium) (HV 70 - 400). Silicon carbide. Resin bond
300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.
- 40009142 Cut-off Wheel 30A30**
For cutting of medium soft ferrous metals (<HV 300) and for general applications. Aluminium oxide. Resin bond
300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.
- 40009143 Cut-off Wheel 40A30**
For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. Aluminium oxide. Resin bond
300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.
- 40009144 Cut-off Wheel 50A30**
For cutting of hard ferrous metals (HV 450 - 600) and for softer ferrous metals with diameters above 60 mm. Aluminium oxide. Resin bond
300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.
- 40009145 Cut-off Wheel 60A30**
For cutting of extra hard ferrous metals (>HV 600). Aluminium oxide. Resin bond
300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.
- 40009146 Cut-off Wheel, Hexagonal 66A30**
For cutting of extra hard ferrous metals (>HV 600). With 3D hexagon pattern. Aluminium oxide. Resin bond
300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.

250 mm Abrasive Cut-off Wheels

- 40009101 Cut-off Wheel 10S25**
For cutting of soft, non-ferrous metals (HV 30 - 300). Silicon carbide. Resin bond
250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
- 40009102 Cut-off Wheel 20S25**
For cutting of very ductile metals (e.g. titanium) (HV 70 - 400). Silicon carbide. Resin bond
250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.

250 mm Abrasive Cut-off Wheels

40009103	Cut-off Wheel 20A25 For cutting of soft ferrous metals, steel tubes and small pieces (HV 80 - 400). Aluminium oxide. Resin bond 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
40009104	Cut-off Wheel 30A25 For cutting of medium soft ferrous metals (<HV 300) and for general applications. Aluminium oxide. Resin bond 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
40009105	Cut-off Wheel 33A25 Thin (0.8 mm) cut-off wheel for delicate cutting of medium soft ferrous metals (<HV 300). Aluminium oxide. Resin bond 250 mm (10") dia. x 0.8 mm x 32 mm dia. 10 pcs.
40009106	Cut-off Wheel 40A25 For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. Aluminium oxide. Resin bond 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
40009107	Cut-off Wheel Hexagonal 46A25 For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. With 3D hexagon pattern. Aluminium oxide. Resin bond 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
40009108	Cut-off Wheel 50A25 For cutting of hard and ductile ferrous metals and Ni-based alloys (HV 450 - 600). Aluminium oxide. Resin bond 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
40009112	Cut-off Wheel 54A25 For cutting of hard ferrous metals (HV 450 - 600) and for softer ferrous metals with diameters above 50 mm (2"). Well suited for manual cutting. Aluminium oxide. Resin bond 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
40009109	Cut-off Wheel, Hexagonal 56A25 For cutting of hard ferrous metals (HV 450 - 600) and for softer ferrous metals with diameters above 50 mm (2"). With 3D hexagon pattern. Aluminium oxide. Resin bond 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
40009110	Cut-off Wheel 60A25 For cutting of extra hard ferrous metals (>HV 600). Aluminium oxide. Resin bond 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
40009111	Cut-off Wheel, Hexagonal 66A25 For cutting of extra hard ferrous metals (>HV 600). With 3D hexagon pattern. Aluminium oxide. Resin bond 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.

235 mm Abrasive Cut-off Wheels

40009134	Cut-off Wheel 10S24 For cutting of soft, non-ferrous metals (HV 30 - 300). Silicon carbide. Resin bond 235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.
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235 mm Abrasive Cut-off Wheels

40009135	Cut-off Wheel 20S24 For cutting of very ductile metals (e.g. titanium) (HV 70 - 400). Silicon carbide. Resin bond 235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.
40009133	Cut-off Wheel 30A24 For cutting of medium soft ferrous metals (<HV 300) and for general applications. Aluminium oxide. Resin bond 235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.
40009132	Cut-off Wheel 40A24 For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. Aluminium oxide. Resin bond 235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.
40009131	Cut-off Wheel 50A24 For cutting of hard ferrous metals (HV 450 - 600) and for softer ferrous metals with diameters above 50 mm (2"). Aluminium oxide. Resin bond 235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.
40009130	Cut-off Wheel 60A24 For cutting of extra hard ferrous metals (>HV 600). Aluminium oxide. Resin bond 235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.

Dia./CBN Cut-off Wheels

40000096	CBN Cut-off Wheel B0C50 For cutting of extremely hard ferrous metals (HV 500 - 1400). Resin bond, high concentration 500 mm (19.7") dia. x 2.3 mm x 32 mm dia.
40000095	Diamond Cut-off Wheel M0D51 For cutting of ceramics (> HV 800) and minerals. Metal bond, high concentration 508 mm (20") dia. x 3.2 mm x 32 mm dia.
40000094	Diamond Cut-off Wheel B0D51 For cutting of sintered carbides and ceramics (> HV 800). Resin bond 508 mm dia. x 2.7 mm x 32 mm dia.
40000077	Diamond Cut-off Wheel M0D35 For cutting of ceramics (> HV 800) and minerals. Metal bond, high concentration 350 mm (14") dia. x 1.5 mm x 32 mm dia.
40000036	Diamond Cut-off Wheel B0D35 For cutting of sintered carbides and ceramics (> HV 800). Resin bond 350 mm (14") dia. x 1.5 mm x 32 mm dia.
40000093	Diamond Cut-off Wheel B7D35 For cutting of drilling tools containing steel and sintered carbides. Resin bond. 350 mm (14") dia. x 1.8 mm x 32 mm dia.
40000082	Diamond Cut-off Wheel E0D36 For cutting of mounted samples and components containing resin or plastic. Electroplated 356 mm (14") dia. x 1.5 mm x 32 mm dia.
40000075	Diamond Cut-off Wheel M0D31 For cutting of ceramics (> HV 800) and minerals. Metal bond, high concentration 305 mm (12") dia. x 1.5 mm x 32 mm dia.

Dia./CBN Cut-off Wheels

40000035	Diamond Cut-off Wheel B0D31 For cutting of sintered carbides and ceramics (> HV 800). Resin bond 305 mm (12") dia. x 1.8 mm x 32 mm dia.
40000081	Diamond Cut-off Wheel E0D30 For cutting of mounted samples and components containing resin or plastic. Electroplated 300 mm (12") dia. x 1.5 mm x 32 mm dia.
40000034	Diamond Cut-off Wheel M0D25 For cutting of ceramics (> HV 800) and minerals. Metal bond, high concentration 250 mm (10") dia. x 1.1 mm x 32 mm dia.
40000033	Diamond Cut-off Wheel B0D25 For cutting of sintered carbides and ceramics (> HV 800). Resin bond 254 mm (10") dia. x 1.1 mm x 32 mm dia.
40000080	Diamond Cut-off Wheel E0D25 For cutting of mounted samples and components containing resin or plastic. Electroplated 250 mm (10") dia. x 1.5 mm x 32 mm dia.
40000079	CBN Cut-off Wheel B0C41 For cutting of extremely hard ferrous metals (HV 500 - 1400). Resin bond, high concentration 406 mm (16") dia. x 1.8 mm x 32 mm dia.
40000078	CBN Cut-off Wheel B0C35 For cutting of extremely hard ferrous metals (HV 500 - 1400). Resin bond, high concentration 350 mm (14") dia. x 1.8 mm x 32 mm dia.
40000076	CBN Cut-off Wheel B0C31 For cutting of extremely hard ferrous metals (HV 500 - 1400). Resin bond, high concentration 305 mm (12") dia. x 1.8 mm x 32 mm dia.
40000018	CBN Cut-off Wheel B0C25 For cutting of extremely hard ferrous metals (HV 500 - 1400). Resin bond, high concentration 252 mm (10") dia. x 1.3 mm x 32 mm dia.
40000029	Diamond Cut-off Wheel M4D20 For manual cutting of minerals and composites with hard phases. For Discoplan-TS, manual cutting table on Secotom-10 or Secotom-1. Metal bond, high concentration 202 mm (8") dia. x 1.0 mm x 22 mm dia.
40000032	Diamond Cut-off Wheel B4D20 For manual cutting of sintered carbides and ceramics (> HV 800). For Discoplan-TS. Resin bond 202 mm (8") dia. x 1.1 mm x 22 mm dia.

200 mm Abrasive Cut-off Wheels

40000092	Cut-off Wheel 10S20 For cutting of soft non-ferrous metals (HV 70 - 400). For Secotom. SiC. Resin bond 200 mm (8") dia. x 0.8 mm x 22 mm dia. 5 pcs.
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Cooli Additive



Bandfilter paper

200 mm Abrasive Cut-off Wheels

- | | |
|----------|---|
| 40000087 | Cut-off Wheel 30A20
For cutting of medium hard ferrous metals (< HV 500). For Secotom. Aluminium oxide. Resin bond

200 mm (8") dia. x 0.8 mm x 22 mm dia. 5 pcs. |
| 40000086 | Cut-off Wheel 50A20
For cutting of hard ferrous metals (> HV 500). For Secotom. Aluminium oxide. Resin bond

200 mm (8") dia. x 0.8 mm x 22 mm dia. 5 pcs. |

Abrasive prec. Cut-off Wheels

- | | |
|----------|---|
| 40000103 | Cut-off Wheel 10S15
For cutting of soft non-ferrous metals (HV 30 - 400). For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5/-2. Silicon Carbide. Resin bond

150 mm (6") dia. x 0.5 mm x 12.7 mm dia. 5 pcs. |
| 40000102 | Cut-off Wheel 30A15
For cutting of medium soft ferrous metals (<HV 300) and for general applications. For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5/-2. Aluminium oxide. Resin bond

150 mm (6") dia. x 0.5 mm x 12.7 mm dia. 5 pcs. |
| 40000101 | Cut-off Wheel 40A15
For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5/-2. Aluminium oxide. Resin bond

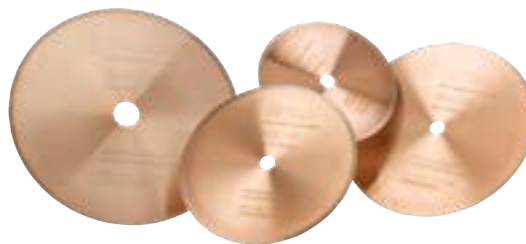
150 mm (6") dia. x 0.5 mm x 12.7 mm dia. 5 pcs. |
| 40000100 | Cut-off Wheel 50A15
For cutting of hard ferrous metals (HV 500 - 800) and for specimens with relatively large dimensions. For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5/-2. Aluminium oxide. Resin bond

150 mm (6") dia. x 0.5 mm x 12.7 mm dia. 5 pcs. |
| 40000045 | Cut-off Wheel 30A13
For cutting of medium hard ferrous metals (< HV 500). For Accutom and Secotom. Aluminium oxide. Resin bond

125 mm (5") dia. x 0.5 mm x 12.7 mm dia. 5 pcs. |



Cut-off Wheels



Diamond Precision Cut-off Wheels

Cutting Precision

Abrasive prec. Cut-off Wheels

- 40000044 **Cut-off Wheel 50A13**
For cutting of hard ferrous metals (> HV 500). For Accutom and Secotom.
Aluminium oxide. Resin bond
125 mm (5") dia. x 0.5 mm x 12.7 mm dia. 5 pcs.

Dia./CBN prec. Cut-off Wheels

- 40000084 **Diamond Cut-off Wheel MOD20**
For cutting of ceramics and minerals (> HV 800). Can be used with manual cutting table. For Secotom. Metal bond, high concentration
203 mm (8") dia. x 0.6 mm x 22 mm dia.
- 40000072 **Diamond Cut-off Wheel M1D20**
For cutting of hard and brittle materials. Can be used with manual cutting table. For Secotom. Metal bond, low concentration
203 mm (8") dia. x 0.6 mm x 22 mm dia.
- 40000083 **Diamond Cut-off Wheel B0D20**
For cutting of sintered carbides and ceramics (> HV 800). For Secotom-1/-10/-15/-50/-6/-20/-60. Resin bond
203 mm (8") dia. x 0.9 mm x 22 mm dia.
- 40000090 **Diamond Cut-off Wheel E1D20**
For cutting of mounted samples and components containing resin or plastic. For Secotom. Electroplated, single-layer
200 mm (8") dia. x 0.8 mm x 22 mm dia.
- 40000046 **Diamond Cut-off Wheel M4D18**
For manual cutting of minerals and composites with hard phases. For Accutom-2 and Accutom with manual cutting table. Metal bond, high concentration
176 mm (7") dia. x 0.8 mm x 12.7 mm dia.
- 40000054 **Diamond Cut-off Wheel MOD15**
For cutting of ceramics and minerals (> HV 800). For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5. Metal bond, high concentration
152 mm (6") dia. x 0.4 mm x 12.7 mm dia.
- 40000068 **Diamond Cut-off Wheel M1D15**
For cutting of hard and brittle materials. For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5. Metal bond, low concentration
152 mm (6") dia. x 0.4 mm x 12.7 mm dia.

Dia./CBN prec. Cut-off Wheels

40000055	Diamond Cut-off Wheel B0D15 For cutting of sintered carbides and ceramics (> HV 800). For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5. Resin bond 152 mm (6") dia. x 0.8 mm x 12.7 mm dia.
40000089	Diamond Cut-off Wheel E0D15 For cutting of mounted samples and components containing resin or plastic. For Secotom and Accutom-100/-10/-50/-5. Electroplated, multi-layer. 150 mm (6") dia. x 0.4 mm x 12.7 mm dia.
40000038	Diamond Cut-off Wheel M0D13 For cutting of ceramics and minerals (> HV 800). For Secotom-10/-15/-50/-6/-20/-60, Accutom-100/-10, Accutom-50/-5, Accutom-2, Accutom and Minitom. Metal bond, high concentration 127 mm (5") dia. x 0.4 mm x 12.7 mm dia.
40000071	Diamond Cut-off Wheel M1D13 For cutting of hard and brittle materials. For Minitom, Accutom and Secotom. Metal bond, low concentration. Metal bond, low concentration 127 mm (5") dia. x 0.4 mm x 12.7 mm dia.
40000039	Diamond Cut-off Wheel B0D13 For cutting of sintered carbides and ceramics (> HV 800). For Secotom-10/-15/-50/-6/-20/-60, Accutom-100/-10, Accutom-50/-5, Accutom-2, Accutom and Minitom. Resin bond 127 mm (5") dia. x 0.6 mm x 12.7 mm dia.
40000043	Diamond Cut-off Wheel M0D10 For precision cutting of ceramics and minerals. For Secotom-10/-15/-50/-6/-20/-60, Accutom-100/-10, Accutom-50/-5, Accutom-2, Accutom and Minitom. Metal bond, high concentration 102 mm (4") dia. x 0.3 mm x 12.7 mm dia.
40000070	Diamond Cut-off Wheel M1D10 For cutting of hard and brittle materials. For Minitom, Accutom and Secotom. Metal bond, low concentration 102 mm (4") dia. x 0.3 mm x 12.7 mm dia.
40000041	Diamond Cut-off Wheel M0D08 For high precision cutting of very small specimens. Mainly recommended for ceramics and minerals. For Secotom-10/-15/-50/-6/-20/-60, Accutom-100/-10, Accutom-50/-5, Accutom-2 and Accutom. Metal bond, high concentration 76 mm (3") dia. x 0.15 mm x 12.7 mm dia.
40000069	Diamond Cut-off Wheel M1D08 For cutting of hard and brittle materials. For Accutom and Secotom. Metal bond, low concentration 76 mm (3") dia. x 0.15 mm x 12.7 mm dia.
40000074	CBN Cut-off Wheel B0C20 For cutting of extremely hard ferrous metals (HV 500 - 1400). For Secotom-10/-15/-50/-60/-20/-60. Resin bond, high concentration 203 mm (8") dia. x 0.9 mm x 22 mm dia.
40000073	CBN Cut-off Wheel B0C15 For cutting of extremely hard ferrous metals (HV 500 - 1400). For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-50/-10/-5 Resin bond, high concentration 152 mm (6") dia. x 0.8 mm x 12.7 mm dia.

*** Hazardous goods fee per shipment

Find Safety Data Sheets (SDS) on [struers.com](https://www.struers.com)

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Dia./CBN prec. Cut-off Wheels

40000040	CBN Cut-off Wheel BOC13 For cutting of extremely hard ferrous metals (HV 500 - 1400). For Secotom-10/-15/-50/-6/-20/-60, Accutom-100/-10, Accutom-50/-5, Accutom-2, Accutom and Minitom. Resin bond, high concentration 127 mm (5") dia. x 0.6 mm x 12.7 mm dia.
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Other Cutting Consumables**Additive**

49900068	Corrozip-Cu Additive for use in recirculation cooling units, in particular for machines which mainly cut copper and copper alloys. The formula protects the machine from corrosion while improving cutting and cooling qualities. Mixed with water. Concentration of the Corrozip-Cu in the cooling fluid 2.7-3.3 %. Not recommended for use with Coolimat-200 bandfilter due to formation of foam. 1 l Additive for Cooling Systems
49900072	Cooli Additive Plus High performance cutting additive for recirculation water. Additive to improve cutting and cooling properties and protect the machine from corrosion. Recommended concentration: 4%. 4 L version comes with pH-strips and water hardness strip for accessing the water quality. 4 L
49900071	1 L
49900073	Cooli Additive Additive for recirculation water for cutting and grinding. Additive to improve cutting/grinding and cooling properties and protect the machine from corrosion. Recommended concentration: 4% 4 L
49900074	1 L
49900076	Water-free Cutting Fluid For cutting of water-sensitive materials on Accutom and Secotom. Special pump tube (Cat. No. 05996921) required on Accutom-10/-100 and Secotom-15/-50/-6/-20/-60 4 l
49900040***	Unitclean For cleaning of Recirculation Cooling Units to stop attack of micro-organisms and remove unpleasant odours 1 l

Others

49900065	Filter tube 100 l Single-use filter tube for static recirculation cooling system. Capacity: 100-200 l tanks. 10 pcs. Filter bag for use with 100 l, 150 l and 200 l tanks
06166901	Bandfilter paper Width: 500 mm. For use with Coolimat-200 bandfilter (06161116)
05766914	Bandfilter paper for use with band filter (057663xx). Width: 45 cm Roll with 90 m

Others

06526901	Width: 500 mm. For use with Coolimat-2000 with bandfilter. Includes 4 x rolls, each length 100 m. Filter paper roll
05766915	Paper for Static Filter For use with static filter (05766907) For 100 l filter. 100 pcs.
05766916	For use with static filter (05766908) For 50 l filter. 100 pcs.
49900060	Filter paper For Accutom-10 and Accutom-100 100 pcs.
49900001	Disposable Liners For collecting waste material in recirculation cooling unit (025361xx) with capacity 30 l 20 pcs.
49900013	For collecting waste material in recirculation cooling unit, capacity 65 l 10 pcs.
49900042	For collecting waste material in 50 l tank (05766906) 20 pcs.
49900043	For collecting waste material in 75/100/150 l tank 20 pcs.
06166906	Disposable liner for Coolimat collection bin, 10 pcs
49900057	For collecting waste material in 200 l tank (Coolimat 200, 06161X16) 5 pcs.
49900085	Filter bags for recirculation system, 75 l tank Disposable filter bags for recirculation system on Xmatic and Xmatic Compact For MD grinding/polishing station. 10 pcs.
49900086	Filter bags for recirculation system, 75 l tank Disposable filter bags for recirculation system on Xmatic high speed grinding station For high speed plane grinding station. 10 pcs.



THREE TIMES AS MANY CUTS

with Cooli Additive Plus

BUY IN WEBSHOP



- ✓ A safe work environment
No allergens, free of boric acid
- ✓ Pre-dosed bottles ready to use
- ✓ Three times as many cuts
In case-hardened steel
- ✓ Up to 30% more cuts
Optimized for aluminum alloy



MOUNTING

Struers Mounting Consumables

No matter what your application is, you'll find a Struers mounting material that meets your every hot and cold mounting need. Easy dosing, safety, and specimen integrity are a given, as are consistently superior results that help you to achieve an efficient work process.

Hot Mounting

If you need high quality, uniform size, and short process times, our hot mounting solutions are ideal.

Simply place the specimen and mounting material in the mounting press cylinder. To ensure premium mounting performance, we encourage you to use our hot mounting materials with our mounting presses. That's because the machines are designed to control all parameters of the mounting process, such as the cooling and heating cycle and dosing. In that way, you get the most out of your investment.

Cold Mounting

Our cold mounting material protects brittle and fragile specimens during the preparation process, and delivers high quality mounts for microscopic inspection. Struers epoxy range delivers high quality impregnation of your pours specimens without compromising on speed.

Only Struers consumables are designed to get the most out of our Struers equipment.



CitoPress-30

Esc

1-2

1-2

HOT MOUNTING SELECTION GUIDE

Resin	ClaroFast	CitoFast	ConduFast
			
Material	Acrylic	Acrylic with aluminum filler	Acrylic with iron filler
Specific properties	Clear transparent	Very fast mounting. Low process times also when it is used as 'backing' for DuroFast or LevoFast	Electrically conductive
Recommended use	Clear mounts Porous specimens	Fast mounting times For soft materials	Electrolytic polishing
Type	Thermoplastic	Thermoplastic	Thermoplastic
Shrinkage From 1-3 (1 is best)	..	..	..
Hardness From 1-3 (1 is softest)	..	..	.
Removal rate	High	High	High
Process parameters*			
Heating temperature (°C)	180	180	180
Quantity (ml)	20	20	20
Heating time (min.)	4	2,5	3,5
Heating pressure (bar)	350	300	250
Cooling time (min.)	6,5	1	1.5
Cooling rate	Low	High	High
Total process time (min.)	10.5	3.5	5
Application / Specific properties	Transparent mounts. Porous specimens.** Surface electrical insulator for ConduFast	For soft materials.* Fast mounting also when used as backing	Electrolytic polishing

30 mm dia. mount with a 45% carbon steel specimen (20 vol%) * Embedded abrasives can occur in the aluminum filler ** Use sensitive mode

DuroFast	LevoFast	PolyFast	PuriFast	MultiFast
				
Epoxy with mineral filler	Melamine with mineral and glass filler	Bakelite with carbon filler	Polypropylene with wood and mineral filler	Bakelite with wood filler
Very low shrinkage. Very low removal rate	Very low shrinkage High removal rate	Very low shrinkage High removal rate	Medium shrinkage High removal rate	Medium shrinkage Medium removal rate
Excellent edge-retention for hard materials	Excellent edge-retention for soft to medium hard materials	Fast mounting process SEM examination	General used for soft to medium hard materials	Routine examination of soft to medium hard materials. Color coding
Thermosetting	Thermosetting	Thermosetting	Thermoplastic	Thermosetting
.	.	.	...	...
...	...	..	.	...
Low	High	High	High	Medium
180	180	180	150 - 180	180
20	25	20	25	25
3,5	3,5	3,5	3	3
325	250	250	250	250
2	2	1.5	2	2
High	High	High	High	High
5.5	5.5	5	5	5
For hard materials Excellent edge retention	For soft to medium hard materials. Excellent edge retention	SEM examination	Unclassified, no hazardous components For soft to medium hard materials. Perfect as backing	Routine examination of soft to medium hard materials. Suitable as backing

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HOT MOUNTING HOW TO OPTIMIZE THE PROCESS TIME

When specimens are to be mounted in series it is recommended to optimize the heating and cooling times.

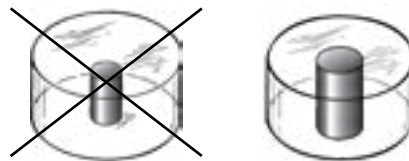
One of the factors limiting both the heating and cooling times is the relatively low heat conductivity

of the resins. An efficient way to reduce the process time is to minimize the distance the heat needs to travel through the resin. When mounting metallic pieces (with high heat conductivity), the heating and cooling times may be reduced when:

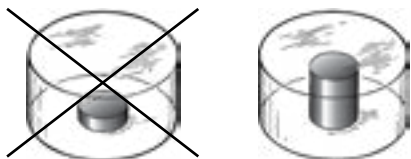
The amount of resin is optimized:



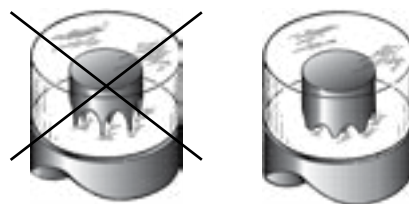
Choose smallest possible mounting cylinder:



A relatively high instead of a low specimen is mounted:



Good thermal contact between metal and ram is ensured:



When optimizing the time it should be reduced stepwise with intermediate inspection of the mount. Insufficient heating and cooling times will result in artifacts (See: "Trouble Shooting").

ConduFast and ClaroFast

For electrolytical purposes, ClaroFast, although not electrically conductive, can be used in conjunction with ConduFast. By adding a small amount of ClaroFast first, and then completing the required amount with ConduFast, a mount with a conducting body and an insulating preparation surface is formed.

DuroFast and LevoFast with PuriFast, MultiFast and CitoFast

DuroFast or LevoFast can be used with PuriFast, MultiFast or CitoFast as backing material. Add approx. 1/3 of DuroFast/LevoFast to make the

preparation surface and then complete the mount with 2/3 of the backing material. Use CitoFast for fast mounting.

Mount Release Agent

This is recommended to be applied to the mounting rams as a thin layer before the mounting process begins. This prevents the adhesive qualities of the resins from making it difficult to remove the mounts afterwards. Mount release agent, AntiStick cannot be used with PuriFast.

Distance to Cylinder Wall

The distance between the specimen and the

cylinder wall must be a minimum of 3 mm (1/8"), to avoid cracks in the resin. This is especially critical for specimens with sharp corners.

Small Specimens

Small, thin specimens can be supported during the hot mounting process by the use of Struers Fixation clips. Only metal clips should be used for hot mounting.

Clean Specimens

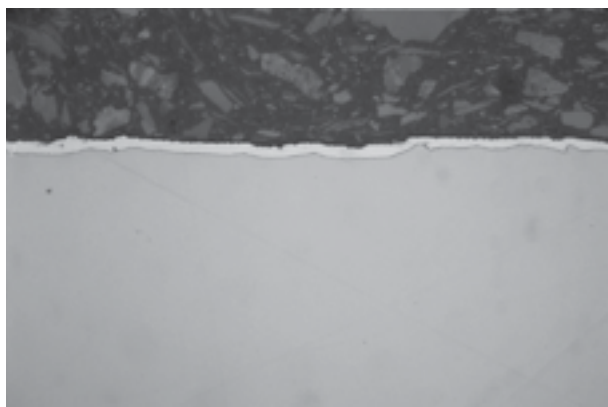
To obtain the best results the specimens must be clean, dry and free from grease. If necessary, clean with alcohol or another suitable degreasing fluid.

Preheating

For porous and/or pressure sensitive specimens, such as minerals, electronic parts etc., it is advantageous to soften the mounting material by heating, before applying pressure. Preheating is also useful when using thermoplastic materials i.e. ClaroFast and PuriFast.

We recommend applying pressure for the last minute only to protect the specimen. If the total heating time is i.e. 8 minutes, preheating should be set to 7 minutes at 0 bar and hereafter 1 minutes at 100 - 350 bar according to the properties of the specimens.

On CitoPress-15/-30, preheating is available as an automatic programme with the *Sensitive* option. In Sensitive mode, the total heating time is split into two, preheating and heating, where no force is applied during the preheat phase, only during the heating phase.



Polished zinc coating, Mounted in PolyFast 1000 x

For metal specimens, we recommend that pressure is applied only for the last minute of the total heating time. If the total heating time is 15 min, preheating should be set to 14 min and 0 bar, and heating to 1 min and 350 bar (ClaroFast).

For mounting of PCB, plastics and other poor conductors, add 1 min to the preheating time (15 min, 0 bar).

Temperature Sensitive Specimens

The temperature for the mounting process can be reduced to a minimum of 150°C for all mounting materials. This is useful when dealing with temperature sensitive materials. For PuriFast the heating time is unchanged using 150 °C or 180 °C.

For very temperature sensitive specimens, hot compression mounting should be avoided. Use Struers cold mounting resins instead.

Porous Specimens

Thermoplastic mounting material, (ClaroFast and PuriFast), penetrate into porous specimens. The best results are obtained by initially preheating the material (see Preheating).

For very porous materials, hot compression mounting should be avoided. Use of Struers epoxy cold mounting resins is recommended.

Pressure Sensitive Specimens

Thermoplastic materials, (ClaroFast and PuriFast), should be used. The best results are obtained by initially preheating the materials (see Pre-heating).

For very pressure sensitive specimens, hot compression mounting should be avoided. Use Struers cold mounting materials instead.

Specimen Removal

It is crucial that the resin and parameters are correctly matched to each individual specimen. Thermoplastic mounts can be reprocessed. Specimens mounted in thermosetting resins cannot be reprocessed. They have to be re-mounted. Damage free removal from the completed mount cannot be guaranteed.

HOT MOUNTING DATA

The heating and cooling times in the tables refer to the following conditions:

- The heating times in the tables refer to the full process time counted from the start of the process and not from when the pre-set temperature is reached. Add ½ - 1 minute to the heating time for the first mount to heat the cylinder.
- The mounting parameters are based on specimens with a volume approx. 20% of the total volume of the mount. If larger specimens are mounted, less resin should be used.
- If smaller specimens or specimens with low heat conductivity are mounted, the heating and cooling times should be increased. It might also be necessary to increase the pressure to avoid pores in the cured mount.
- A higher pressure is recommended with ClaroFast to avoid "cotton ball" effect.
- The amount of mounting material in the tables has been adjusted to result in a final height of the mounts of approx. 20 mm (0.8").
- If several mounting materials are combined in one mount, use the process parameters for the mounting materials with the longest times. When using CitoFast as 'backing', use the CitoFast process parameters. For several, or very complicated specimens, add one min. of heating time.
- The mounting parameters are based on using the Citopress 5/15/30.

Cylinder dia.	Resin		Heating			Cooling		Time
25 mm / 1"	Type	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	20	4	180	350	6	Low	10
	CitoFast	15	2	180	300	1	High	3
	ConduFast	15	3	180	300	1	High	4
	DuroFast	15	3	180	325	2	High	5
	LevoFast	20	3	180	350	1	High	4
	PolyFast	15	3.5	180	325	1.5	High	5
	PuriFast	20	3	150 - 180	300	2	High	5
	MultiFast	20	3	180	300	2	High	5

Cylinder dia.	Resin		Heating			Cooling		Time
30 mm	Type	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	20	4	180	350	6.5	Low	10.5
	CitoFast	25	2.5	180	300	1	High	3.5
	ConduFast	20	3.5	180	250	1.5	High	5
	DuroFast	20	3.5	180	325	2	High	5.5
	LevoFast	25	3.5	180	250	2	High	5.5
	PolyFast	20	3.5	180	250	1.5	High	5
	PuriFast	25	3	150 - 180	250	2	High	5
	MultiFast	25	3	180	250	2	High	5

Cylinder dia.	Resin		Heating			Cooling		Time
	Type	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
1¼"		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	20	4	180	350	6.5	Low	10.5
	CitoFast	25	2.5	180	300	1	High	3.5
	ConduFast	20	3.5	180	250	1.5	High	5
	DuroFast	20	4	180	325	2	High	6
	LevoFast	25	3.5	180	250	2	High	5.5
	PolyFast	20	3.5	180	250	1.5	High	5
	PuriFast	25	3.5	150 - 180	250	2	High	5.5
	MultiFast	25	3.5	180	250	2	High	5.5

Cylinder dia.	Resin		Heating			Cooling		Time
	Type	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
1½"		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	30	4	180	350	7	Low	11
	CitoFast	45	3	180	300	1.5	High	4.5
	ConduFast	35	3.5	180	250	2	High	5.5
	DuroFast	35	4.5	180	350	2.5	High	7
	LevoFast	40	4.5	180	250	2	High	6.5
	PolyFast	30	4.5	180	250	2	High	6.5
	PuriFast	40	4.5	150 - 180	250	2.5	High	7
	MultiFast	40	4.5	180	250	2.5	High	7

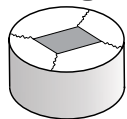
Cylinder dia.	Resin		Heating			Cooling		Time
	Type	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
40 mm		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	35	4	180	350	6.5	Low	10.5
	CitoFast	45	3	180	300	1.5	High	4.5
	ConduFast	40	3.5	180	250	2	High	5.5
	DuroFast	40	4.5	180	350	2.5	High	7
	LevoFast	50	5	180	250	2	High	7
	PolyFast	35	4	180	250	2	High	6
	PuriFast	45	4	150 - 180	250	2.5	High	6.5
	MultiFast	45	4	180	250	2.5	High	6.5

Cylinder dia.	Resin		Heating			Cooling		Time
	Type	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
50 mm / 2"		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	55	5	180	250	8.5	Low	13.5
	CitoFast	65	3.5	180	250	2	High	5.5
	ConduFast	65	4	180	250	2	High	6
	DuroFast	70	5.5	180	250	3	High	8.5
	LevoFast	75	6	180	250	3	High	9
	PolyFast	55	5.5	180	250	2	High	7.5
	PuriFast	70	6	150 - 180	250	4	High	10
	MultiFast	70	6	180	250	4	High	10

HOT MOUNTING TROUBLE SHOOTING GUIDE

General Problems

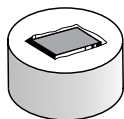
Radial Cracking



Cause: Insufficient distance between specimen edge/corner and cylinder wall, or specimen has sharp corners

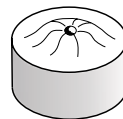
Solution: Increase cylinder diameter or reduce specimen size. The distance between the specimen and the cylinder wall must be a minimum of 3 mm to avoid cracks in the resin. This is especially critical for specimens with sharp corners.

Shrinkage



Cause: Incorrect choice of resin.
Solution: Re-mount a new specimen using a resin with a lower linear shrinkage value.

Blistering

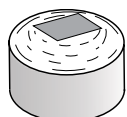


Cause: Insufficient heating time.
Solution: Increase heating time, or increase process temperature.

Cause: Overcured surface.
Solution: Decrease process temperature.

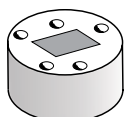
Cause: Entrapped gas within mount.
Solution: Preheat resin.

Bulging



Cause: Insufficient cooling.
Solution: Increase cooling time.

Porosity



Cause: Excessive temperature.
Solution: Reduce process temperature.

Voiding within large mounts

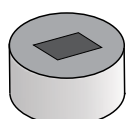


Cause: Insufficient heating time.
Solution: Increase heating time.

Cause: Excessive temperature.
Solution: Reduce process temperature.

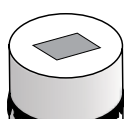
Cause: Insufficient force/pressure.
Increase mounting force/pressure.

Dull Surface Finish



Cause: Insufficient heating time.
Solution: Increase heating time.

Adhesion between mount and rams



Cause: Insufficient application of mould release agent. Except for PuriFast. Release agent cannot be used with PuriFast.
Solution: Apply mould release agent. This must always be applied to the mounting rams as a thin layer before the mounting process begins. This prevents the resins from sticking to the rams and makes it easier to remove the mounts afterwards.

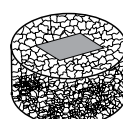
Cause: Insufficient heating time.

Solution: Increase heating time.

Cause: Excessive force/pressure.

Solution: Decrease mounting force/pressure.

Individual Grains Visible on Mount*



Cause: Resin has cured without force/pressure.
Solution: Increase force/pressure during heating cycle.

Cause: Insufficient heating time.
Solution: Increase the heating time and/or temperature.

*Thermosetting resins only

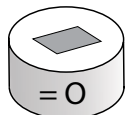
** For PuriFast are the individual grains always visible.

ConduFast Problems

Lack of conductivity

Cause: No contact with specimen due to use of an excessive amount of ClaroFast, (refer to Helpful Hints).

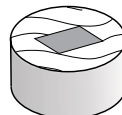
Solution: Re-mount a new specimen using a smaller amount of ClaroFast than before.



Cause: Insufficient heating time

Solution: Reinsert the mount in the press and reprocess using an increased heating time.

Metallic particles in resin removed during the electrolytic process



Cause: Insufficient amount of ClaroFast, (refer to Helpful Hints).

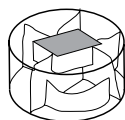
Solution: Re-mount a new specimen using a larger amount of ClaroFast.

Cause: Excessive grinding time.

Solution: Re-mount with a new specimen.

ClaroFast Problems

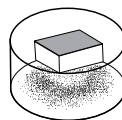
Internal cracking



Cause: Excessive cooling rate.

Solution: Reduce the cooling rate

“Cottonball” effect in centre of mount



Cause: Excessive cooling rate.

Solution: Reduce the cooling rate.

Cause: Insufficient heating time.

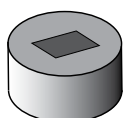
Solution: Reduce the physical height of the mount, lower the process temperature and increase the heating time.

Cause: Moist resin.

Solution: Dry the resin by exposing the open container to 30-70°C for 2 hours.

LevoFast Problems

The mounts turn dark after preparation

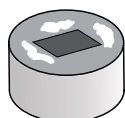


Cause: Insufficient heating time

Solution: Increase heating time and/or temperature

PolyFast and MultiFast Problems

Parts of mount become light or colourless on contact with alcohol



Cause: Insufficient heating time.

Solution: Increase heating time and/or temperature

PuriFast problem

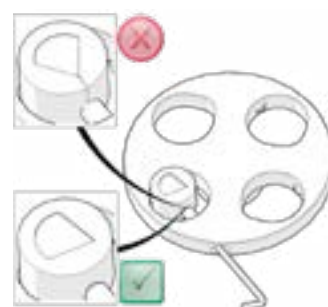
Cracking specimens when clamping in specimen holder

Cause: Specimen clamped with too much force.

Solution: Use max. 1.5 N or tighten the screw until it touches the mount and then turn the Allen key 2 sides (120 °)

Make attention not to have a sharp edge on the specimen where the screw is clamped into the mount.

If a PuriFast mount cracks it can be reprocessed to obtain a perfect mount.



COLD MOUNTING SELECTION GUIDE FOR ACRYLICS

Material	VersoCit-2	ClaroCit
		
Curing time	10 min.	20 min.
Shrinkage from 1-4 (1 is best)	****	***
Application	For routine examination • Routine examination of soft to medium hard materials	For extraordinarily clear mounts • For universal use • Target preparation
Mixing ratio weight recommended	Liquid: 2 parts Powder: 3 parts	Liquid: 6 parts Powder: 10 parts
Mixing ratio volume	Liquid: 1 part Powder: 2 parts	Liquid: 2 parts Powder: 5 parts
Mixing time	30 s	1 ½ min.
Potlife	3 min.	1 ½ min.
Colour	Dull yellowish, partly transparent	Colourless, clear (extremely clear when cured under pressure)
Can be coloured with EpoDye		X
Peak temperature	100 °C / 212 °F	90 °C / 194 °F
Hardness	82 Shore D	85 Shore D

(30 mm dia. mount without specimen at 21 °C / 70 °F)

DuroCit-3	LevoCit	ViaFix
		
30 min.	20 min.	20 min.
*	**	***
Fast curing and no shrinkage • For medium hard and hard ferrous metals and other hard materials – including ceramics, carbides etc. • For specimens where protection of layers is important e.g. coated specimens • Excellent edgeretention and planeness	Good edge-retention and planeness • For non-ferrous metals and soft ferrous metals • Low shrinkage • Low peak temperature	For vias and microvias • Excellent for filling of microvias <i>* Affected by alcohol. When using diamond products or lubricants containing alcohol, the surface will be affected and the structure of the polymer beads will appear</i>
Liquid I: 8 parts Liquid II: 4 parts Powder: 14 parts	Liquid: 1 part Powder: 2 parts	Liquid: 9 parts Powder: 11 parts
Liquid I: 10 parts Liquid II: 5 parts Powder: 15 parts	Liquid: 1 part Powder: 2 parts	Liquid: 1 part Powder: 2 parts
1 ½ min.	45 s	30 s
4 min.	1 ½ min.	2 min.
Light yellow	Off-white	Colourless, clear (extremely clear when cured under pressure). Otherwise semi-transparent
		X
138 °C / 280 °F	75 °C / 167 °F	115 °C / 239 °F
85 Shore D	84 Shore D	83 Shore D

COLD MOUNTING SELECTION GUIDE FOR EPOXIES

Material	CaldoFix-2	SpeciFix-40
		
Curing time	1 ½ hour in oven at 75 °C / 167 °F ¹⁾	3 ½ hours in oven at 50 °C / 122 °F ¹⁾
Shrinkage from 1-4 (1 is best)	*	*
Application	For all-round vacuum impregnation • Short curing time • Low viscosity • Relatively hard after curing	Extremely good adhesion • Relative fast curing time • Very clear colourless mounts • Cures in oven or Drybox
Mixing ratio weight recommended	Resin: 25 parts Hardener: 7 parts	Resin: 2.5 parts Curing Agent: 1 parts
Mixing ratio volume	Resin: 31 parts Hardener: 10 parts	Resin: 10.5 parts Curing Agent: 5 part
Mixing time	5 min.	3 min.
Potlife	> 60 min.	> 60 min.
Colour	Clear, transparent Refractive index: ND = 1.561	Clear, transparent Refractive index: ND = 1.573
Can be coloured with EpoDye	X	X
Peak temperature	170 °C / 338 °F	100 °C / 212 °F
Hardness	85 Shore D	82 Shore D

30 mm dia. mount without specimen at 21 °C / 70 °F)

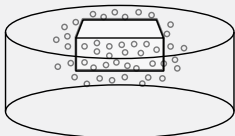
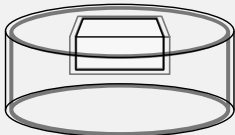
* 40 mm mount, 10% specimen volume, 25 °C / 73 °F ambient temperature, Covered while curing

** 30 mm mount, 10% specimen volume, 25 °C / 73 °F ambient temperature, Covered while curing

EpoFix	ProntoFix Standard	ProntoFix Accelerated																				
																						
Approx. 12 hours	90 min. *	90 min. **																				
*		*																				
For vacuum impregnation - low viscosity • Can be used on all types of specimens • Extremely low curing temperature – Very good for heat sensitive specimens • Superior penetration of cracks and pores • Excellent adhesion	For mounting and preparing specimens the same day • Suitable for vacuum impregnation • Excellent adhesion • Superior penetration of cracks and pores	DIAMETER OF CUP (mm) (") ***<table><tr><td></td><td>Ø25 Ø1.00</td><td>Ø30 Ø1.25</td><td>Ø40 Ø1.50</td></tr><tr><td rowspan="3">TEMPERATURE IN LAB (°C) (°F)</td><td><23 <73.4</td><td></td><td></td></tr><tr><td>23-27 73.4-80.6</td><td></td><td></td></tr><tr><td>>27 >80.6</td><td></td><td></td></tr></table>RECOMMENDATIONS<table><tr><td></td><td>Curing not possible in less than 4 hours</td><td></td><td>Accelerated system</td><td></td><td>Standard system</td></tr></table>		Ø25 Ø1.00	Ø30 Ø1.25	Ø40 Ø1.50	TEMPERATURE IN LAB (°C) (°F)	<23 <73.4			23-27 73.4-80.6			>27 >80.6				Curing not possible in less than 4 hours		Accelerated system		Standard system
	Ø25 Ø1.00	Ø30 Ø1.25	Ø40 Ø1.50																			
TEMPERATURE IN LAB (°C) (°F)	<23 <73.4																					
	23-27 73.4-80.6																					
	>27 >80.6																					
	Curing not possible in less than 4 hours		Accelerated system		Standard system																	
Resin: 25 parts Hardener: 3 parts	Resin: 20 parts Hardener: 5.3 part	Resin: 20 parts Hardener: 4.2 parts Accelerator: 1.1 parts																				
Resin: 15 parts Hardener: 2 parts	Resin: 20 parts Hardener: 5.3 part	Resin: 20 parts Hardener: 4.2 parts Accelerator: 1.1 parts																				
2 min.	1 min.	1 min.																				
30 min.	25 min.	20 min.																				
Clear, transparent Refractive index: ND = 1.578	Transparent, Yellow	Transparent, Yellow																				
X	X	X																				
40 °C / 104 °F	140 °C / 284 °F	150 °C / 302 °F																				
78 Shore D	83 Shore D	83 Shore D																				

*** Use the matrix to find out if the accelerator is recommended. For example if you are mounting with 40 mm cups and the room temperature is between 23-27°, it is recommended to use the ProntoFix accelerator.

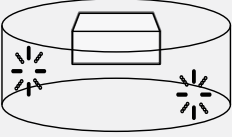
COLD MOUNTING TROUBLE SHOOTING GUIDE

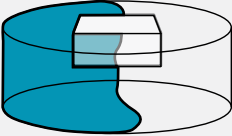
Problem	Cause	Solution
Air bubbles along the sides of the specimen  The system creates too many bubbles – generation of excessive heat	Lab temperature > 23°C	- Uncover the mount during curing - Use Struers DryBox to increase airflow - Use a smaller amount of mounting material - Cool down mounting material during mixing - If Accelerator is used try to use standard system
	Specimen/ProntoFix volume ratio < 20% < 10% for metallic specimen (Too small specimen)	- Uncover the mounting cup - Use Struers DryBox to increase airflow - Pour less ProntoFix in the mounting cup - If Accelerator is used try to use standard system
	The mount is less than 5mm from the top of the mounting cup	- Uncover during curing - Use Struers DryBox to increase airflow
	Diameter 50mm	- Fill up only half of the mounting cup - If you need a 20mm tall mount, cure in two steps - Uncover while curing - Use a smaller mounting cup - Use Struers DryBox to increase airflow - If Accelerator is used try to use standard system
	Insufficient degreasing of specimen	Clean and degrease specimens prior to mounting
	Too active stirring of mixture	Stir without introducing air into the mixture
Problem	Cause	Solution
High shrinkage 	Too high temperature during curing	Use Struers DryBox to increase airflow
	Insufficient degreasing of specimen	Clean and degrease specimens prior to mounting
	Insufficient mixing of resin and hardener	Stir mixture thoroughly
	Too large volume of mixture or too long time after stirring before pouring	Mix smaller volumes and pour over specimens immediately after stirring

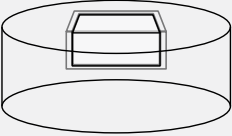
WATCH COLD
MOUNTING
VIDEOS ON
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Problem	Cause	Solution
Sticky or rubbery surface  The system cures too slowly	Lab temperature < 23°C	· Fill up the mounting cup sufficiently · Use a bigger mounting cup · Use the Struers DryBox to increase temperature · If the standard hardener is used, try to use the Accelerator to decrease curing time
	Specimen/ProntoFix volume ratio > 20% > 10% for metallic specimen (Too big specimen)	· Use a bigger mounting cup · Reduce the size of the specimen · Use the Struers DryBox to increase temperature · If the standard hardener is used, try to use the Accelerator to decrease curing time
	The mount is more than 5mm from the top of the mounting cup (Too low mount)	· Use the Struers DryBox to increase temperature · If the standard hardener is used, try to use the Accelerator to decrease curing time
	Mounting cup diameter 25mm	· Use a Drybox to increase temperature · Use a bigger mounting cup · If the standard hardener is used, try to use the Accelerator to decrease curing time

Problem	Cause	Solution
Indraft/suction at the bottom of the specimen 	Too high temperature during curing	· Use Struers DryBox to increase airflow
	Specimen/ProntoFix volume ratio < 20% < 10% for metallic specimen (Too small specimen)	· Use adequate mounting cup or mount in layers of around 10mm per layer. Wait until the first layer is cured and then cast the next layer

Problem	Cause	Solution
Gap between ProntoFix and specimen 	Too high temperature during curing	· Use Struers DryBox to increase airflow
	Insufficient degreasing of specimen	· Clean and degrease specimens prior to mounting
	Specimen/ProntoFix volume ratio < 20% < 10% for metallic specimen (Too small specimen)	· Use Struers DryBox to increase airflow
	Too much hardener in relation to resin	· Mix resin and hardener in the correct ratio



ClaroFast



LevoFast



PuriFast Natural



PuriFast Red



PuriFast Green

Hot Mounting

ClaroFast

40100055 Clear transparent acrylic hot mounting resin. Thermoplastic.

1 kg

40100054 7.5 kg

40100053 25 kg

CitoFast

40100068 For soft materials or to reduce process time especially as backing material for LevoFast or DuroFast

1 kg

40100069 7.5 kg

ConduFast

40100039 Acrylic hot mounting resin with iron filler. Thermoplastic.

1 kg

DuroFast

40100044 Black epoxy hot mounting resin with mineral filler, for edge-retention and planeness of hard materials. Thermosetting

1 kg

40100045 7.5 kg

LevoFast

40100057 Light yellow melamine hot mounting resin with mineral and glass filler. Thermosetting

1 kg

40100058 7.5 kg

PolyFast

40100036 Black bakelite hot mounting resin with carbon filler. Thermosetting

1 kg

40100037 7.5 kg

MultiFast Black

40100064 Black bakelite hot mounting resin with wood filler. Thermosetting.

2.5 kg

40100065 7.5 kg

MultiFast Black

40100066	25 kg
40100067	75 kg

MultiFast Green

40100078	Green bakelite hot mounting resin with wood filler. Thermosetting. 2.5 kg
40100079	7.5 kg
40100080	25 kg
40100081	75 kg

MultiFast Red

40100074	Red bakelite hot mounting resin with wood filler. Thermosetting 2.5 kg
40100075	7.5 kg
40100076	25 kg
40100077	75 kg

PuriFast

40100082	PuriFast Dust-free environmentally friendly hot mounting material. Polypropylene with wood and mineral filler. Thermoplastic. Natural color. 2.5 kg
40100083	7.5 kg
40100095	15 kg

PuriFast Green

40100086	Dust-free environmentally friendly hot mounting material. Polypropylene with wood and mineral filler. Thermoplastic. Green. 2.5 kg
40100087	7.5 kg
40100096	15 kg

PuriFast Red

40100090	Dust-free environmentally friendly hot mounting material. Polypropylene with wood and mineral filler. Thermoplastic. Red. 2.5 kg
40100091	7.5 kg
40100097	15 kg

Others

40300043	AntiStick Mould release agent. Stearate powder in applicator 8 g
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CUTTING

MOUNTING

GRINDING

POLISHING

VERIFICATION

ACCESSORIES

*** Hazardous goods fee per shipment

Find Safety Data Sheets (SDS) on [struers.com](https://www.struers.com)

Durocit-3 Kit



ProntoFix

Cold Mounting

ProntoFix

40200108***

ProntoFix Kit

Epoxy cold mounting system for mounting and preparing within the same day. Curing at room temperature. No shrinkage, especially suited for vacuum impregnation. Transparent

1 l resin, 275 ml hardener and required consumables

40200109

ProntoFix Resin

To be mixed with ProntoFix Hardener. 1 l resin corresponds to 275 ml hardener. If curing time with the ProntoFix Hardener is too long the ProntoFix Accelerator can be added. 1.3 l Resin corresponds to 275 ml hardener plus 70 ml accelerator

1 l

40200110***

ProntoFix Hardener

To be mixed with ProntoFix Resin. 500 ml hardener corresponds to 1.8 l resin
500 ml

40200111***

ProntoFix Accelerator

To be mixed with ProntoFix Resin and ProntoFix Hardener. To accelerate the ProntoFix system if curing time with the ProntoFix Hardener is too long. 70 ml accelerator must be mixed with 275 ml ProntoFix Hardener. The mixture corresponds to 1.3 l ProntoFix Resin. Empty bottle for premixing Hardener and Accelerator is available

70 ml

EpoFix

40200029***

EpoFix Kit

Epoxy cold mounting system curing at room temperature in about 12 hours, with no shrinkage, especially suited for vacuum impregnation. Transparent

1 l resin, 130 ml hardener and required consumables

40200030

EpoFix Resin

To be mixed with EpoFix Hardener. 1 l resin corresponds to 130 ml hardener
1 l

40200031***

EpoFix Hardener

To be mixed with EpoFix Resin. 500 ml hardener corresponds to 4 l resin
500 ml

SpeciFix

40200049***

SpeciFix-40 Kit

Epoxy cold mounting system curing at elevated temperature (40-60 °C) in about 3.5 hours, with very low shrinkage, suitable for vacuum impregnation. Transparent

1 l resin, 500 ml curing agent and required consumables

*** Hazardous goods fee per shipment

Find Safety Data Sheets (SDS) on [struers.com](https://www.struers.com)**SpeciFix**

40200051 **SpeciFix Resin**
To be mixed with Specifix-40 Curing Agent. 1 l resin corresponds to 500 ml Specifix-40 Curing Agent

1 l

40200053*** **SpeciFix-40 Curing Agent**
To be mixed with Specifix Resin. 1 l curing agent corresponds to 2 l resin

1 l

CaldoFix

40200084*** **CaldoFix-2 Kit**
Epoxy cold mounting system, curing within 1½ hours when heated to 75 °C / 167 °F. Very low shrinkage, suitable for vacuum impregnation. Transparent

1 l resin, 325 ml hardener and required consumables

40200085 **CaldoFix-2 Resin**
To be mixed with CaldoFix-2 Hardener. 1 l resin corresponds to 325 ml hardener

1 l

40200086*** **CaldoFix-2 Hardener**
To be mixed with CaldoFix-2 Resin. 500 ml hardener corresponds to 1.5 liter resin

500 ml

ClaroCit

40200072*** **ClaroCit Kit**
Acrylic cold mounting system for universal use. Provides extremely clear, transparent mounts (especially when cured under pressure)

800 g powder, 500 ml liquid and required consumables

40200074 **ClaroCit Powder**
To be mixed with ClaroCit liquid. 3 kg powder corresponds to 1.9 l liquid

3 kg

40200073*** **ClaroCit Liquid**
To be mixed with ClaroCit Powder. 1 l liquid corresponds to 1.6 kg powder

1 l

DuroCit

40200095*** **DuroCit-3 Kit**
Acrylic cold mounting system with mineral filler. For excellent edge-retention

570 g powder, 300 ml liquid I, 150 ml liquid II and required consumables

40200081 **DuroCit Powder**
To be mixed with DuroCit Liquid I and II. 3 kg Powder corresponds to 1.6 l Liquid I and 0.8 l Liquid II

3 kg

40200096*** **DuroCit-3 Liquid I**
To be mixed with DuroCit Powder and DuroCit-3 Liquid II. 1 l Liquid I corresponds to 1.9 kg powder and 0.5 l Liquid II

1 l

CUTTING

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DuroCit

- 40200097*** **DuroCit-3 Liquid II**
To be mixed with DuroCit Powder and DuroCit-3 Liquid I. 1 l Liquid II corresponds to 3.8 kg powder and 2 l Liquid I
1 l

LevoCit

- 40200092*** **LevoCit Kit**
Acrylic cold mounting resin with filler optimised for non-ferrous and soft ferrous metals
600 g powder, 300 ml liquid and required consumables
- 40200093 **LevoCit Powder**
To be mixed with LevoCit Liquid. 3 kg powder corresponds to 1.5 l Liquid
3 kg
- 40200094*** **LevoCit Liquid**
To be mixed with LevoCit Powder. 1 l liquid corresponds to 2 kg powder
1 l

VersoCit-2

- 40200089 **VersoCit-2 Kit**
Acrylic cold mounting system for routine examination of soft to medium hard materials
750 g powder, 500 ml liquid and required consumables
- 40200090 **VersoCit-2 Powder**
To be mixed with VersoCit-2 Liquid. 3 kg powder corresponds to 2 l liquid
3 kg
- 40200091 **VersoCit-2 Liquid**
To be mixed with VersoCit-2 Powder. 1 l liquid corresponds to 1.5 kg powder
1 l

ViaFix

- 40200067*** **ViaFix Kit**
Acrylic cold mounting system for filling of microvias and pores. The clearest mount is obtained by using a pressure chamber
570 g powder, 500 ml liquid and required consumables
- 40200068 **ViaFix Powder**
To be mixed with ViaFix Liquid. 2.5 kg powder corresponds to 2.3 l liquid
2.5 kg
- 40200069*** **ViaFix Liquid**
To be mixed with ViaFix Powder. 1 l liquid corresponds to 1.1 kg powder
1 l

FixiForm

- 40300085 Two part polypropylene mounting cup for all Struers cold mounting materials.
25 mm / 1" dia. 10 pcs.
- 40300086 30 mm dia. 10 pcs.
- 40300087 1¼" dia. 10 pcs.



FixiForm



FlexiForm



SeriForm

FixiForm

40300088	1½" dia. 10 pcs.
40300089	40 mm dia. 10 pcs.
40300090	50 mm / 2" dia. 10 pcs.

Flexiform

40300093	Flexible silicone rubber mounting cup for ClaroCit, DuroCit, VersoCit-2, LevoCit and ViaFix 25 mm dia. 5 pcs.
40300094	30 mm dia. 5 pcs.
40300095	1¼" dia. 5 pcs.
40300021	1½" dia. 5 pcs.
40300092	40 mm dia. 5 pcs.
40300097	50 mm dia. 5 pcs.
40300082	Silicone rubber mounting cup for mounting to be used especially with acrylic cold mounting resins with which it can be reused many times. It can also be used with epoxy resins. Mounts fit to specimen holder MAXDI, 02606920 68 x 37 x 35 mm. 3 pcs.
40300083	Silicone rubber mounting cup for mounting to be used especially with acrylic cold mounting resins with which it can be reused many times. It can also be used with epoxy resins. Mounts fit to specimen holder MAXOT, 02606922 90 x 50 x 35 mm. 3 pcs.
40300084	Silicone rubber mounting cup for mounting to be used especially with acrylic cold mounting resins with which it can be reused many times. It can also be used with epoxy resins. 120 x 60 x 45 mm. 2 pcs.

Seriform

40300007	Two parts polypropylene mounting cup with parallel sides for ClaroCit, VersoCit-2 and ViaFix 25 mm dia. 10 pcs.
40300008	30 mm dia. 10 pcs.
40300009	40 mm dia. 5 pcs.

Others

40300012	Flangeform Mounting cup with flange. For AccuStop 30 30 mm dia. 3 pcs.
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MultiClips



Fixation Clips



Taper section angle

Others

40300023	PCB-Coupon Mould Mould for mounting PCB-coupons. Consists of a hard part and a soft part (40300024) 1 pcs.
40300024	Mould for mounting PCB-coupons. Replacement soft part for 40300023 1 pcs.
40300027	MultiClips Multiple plastic clip for holding up to 5 small and thin specimens when mounting 50 pcs.
40300026	Fixation Clips Metal spring clip for holding small and thin specimens when mounting 6 mm dia. 100 pcs.
40300025	9 mm dia. 100 pcs.
40300070	Taper Section Angle, Aluminium Aluminium angle for mounting of taper sections 50 pcs.
40300071	Taper Section Angle, Copper Copper angle for mounting of taper sections 50 pcs.
40300069	Taper Section Angle, Steel Steel angle for mounting of taper sections 50 pcs.
40300091	ProntoFix Empty Bottle Empty bottle for premixing ProntoFix Hardener and ProntoFix Accelerator 1 bottle 500 ml, 1 label
40300080	Consumables Kit Disposable consumables for CitoVac 100 dispensing tubes and one chamber protector
40300030	Consumables for Epovac 80 polyethylene tubes, 80 mixing cups, 80 stirrers and 2 rubber plugs
40300032	For mixing of cold mounting systems 400 mixing cups and 400 stirrers
05696101	Mixer for mixing of Epoxy For optimal mixing of cold mounting epoxies 1 mixer and 1 disposable propeller
40300072	Disposable Propeller To be used with Struers Mixer (05696101) 20 pcs.



EpoDye

Others

40300047	Disposable Syringes Syringes for measuring of epoxy resins and hardeners 5 ml. 100 pcs.
40300048	10 ml. 100 pcs.
40300049	20 ml. 50 pcs.
40300002	EpoDye Fluorescent dye for use with EpoFix, ProntoFix, Specifix, CaldoFix, ClaroCit and ViaFix. Special filters for microscope required. 20 g
40300076	Silicone Oil Silicone release agent 100 ml

CUTTING

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A PURE MOUNTING MATERIAL

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////////////////////

“This new granular hot mounting material provides the user with improved properties regarding dosing and work environment.”

Helle Michaelsen, Global Application Director



GRINDING

Reproducible Result - Time After Time

Whatever your material and whatever your preparation goal is, discover new opportunities to optimize your grinding process. Struers helps you to achieve a plane specimen and eliminate artifacts as efficiently as possible based on a systematic approach to improve your methods with high quality consumables that add value to your process.

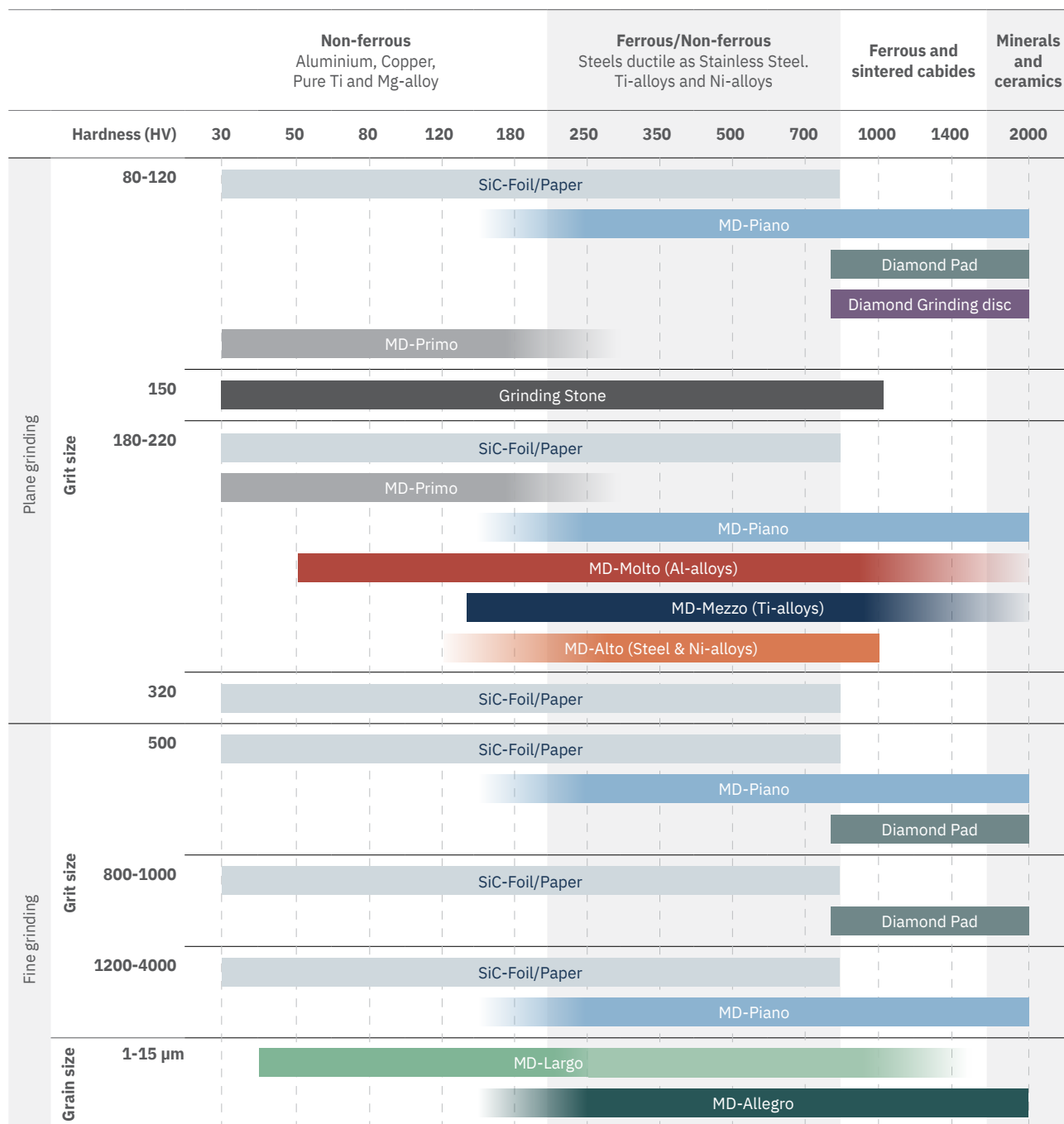
Grinding Stones and Diamond Grinding Disc

Our grinding stones and diamond grinding disc provide consistently high removal for ultra-fast plane grinding. Particularly suited for large specimens, there is a stone or disc for high removal grinding for any material. Our stones and disc require a station just for high removal grinding, such as the AbraPlan, Xmatic or Hexamatic, typically as part of a high-volume or high-throughput lab.

Only Struers consumables are designed to get the most out of Struers equipment.



Whatever your need, there is a Struers grinding solution for you





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TECHNICAL DATA

Grinding Stones and Diamond Grinding Disc

		Application area	Hardness range	Grinding stone or disc	Grit size (FEPA F)	Abrasive and bond
High removal plane grinding		Non-ferrous metals	40-250 HV	2S27	# 150	Resin bonded silicon carbide
		Non-ferrous metals	40-250 HV	2S36	# 150	Resin bonded silicon carbide
		Stainless steel and nickel-based alloys	150-500 HV	3A27	# 150	Resin bonded aluminum oxide
		Stainless steel and nickel-based alloys	150-500 HV	3A36	# 150	Resin bonded aluminum oxide
		Medium hard ferrous metals	250-700 HV	4A27	# 150	Resin bonded aluminum oxide
		Medium hard ferrous metals	250-700 HV	4A36	# 150	Resin bonded aluminum oxide
		Hard steels or steels containing many carbides	500-800 HV	6A27	# 150	Resin bonded aluminum oxide
		Hard steels or steels containing many carbides	500-800 HV	6A36	# 150	Resin bonded aluminum oxide

Cooling media	Run-in time - pre-dressing needed	Maintenance of the surface	Stone/Disc diameter sizes / Equipment
Water	None	Dressing with diamond dresser (on the equipment)	270 mm / Xmatic / Hexamatic
Water	None	Dressing with diamond dresser (on the equipment)	356 mm / AbraPlan
Water	None	Dressing with diamond dresser (on the equipment)	270 mm / Xmatic / Hexamatic
Water	None	Dressing with diamond dresser (on the equipment)	356 mm / AbraPlan
Water	None	Dressing with diamond dresser (on the equipment)	270 mm / Xmatic / Hexamatic
Water	None	Dressing with diamond dresser (on the equipment)	356 mm / AbraPlan
Water	None	Dressing with diamond dresser (on the equipment)	270 mm / Xmatic / Hexamatic
Water	None	Dressing with diamond dresser (on the equipment)	356 mm / AbraPlan



TECHNICAL DATA

Grinding Stones and Diamond Grinding Disc

		Application area	Hardness range	Grinding stone or disc	Grit size (FEPA F)	Abrasive and bond
High removal plane grinding		Ceramics and sintered carbides	>800 HV	8D27	# 120	Resin bonded diamonds
		Ceramics and sintered carbides	>800 HV	8D36	# 120	Resin bonded diamonds
		Metal and general applications	250-700 HV	PAMST	# 150	Resin bonded aluminum oxide

TITATINUM ALLOYS

Explore the most effective ways to prepare titanium and titanium alloys for metallographic examination, with accurate and reproducible results.

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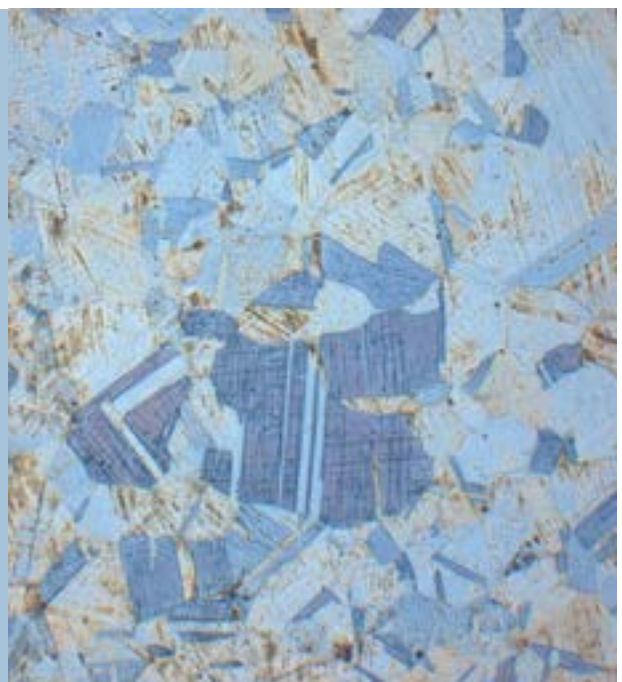


Cooling media	Run-in time - pre-dressing needed	Maintenance of the surface	Stone/Disc diameter sizes / Equipment
Water	None	Dressing with Aluminum oxide specimens (to be clamped into a specimen holder)	270 mm / Xmatic / Hexamatic
Water	None	Dressing with Aluminum oxide specimens (to be clamped into a specimen holder)	356 mm / AbraPlan
Water	None	Dressing with diamond dresser (on the equipment)	200 mm / Prepamatic & Prepamatic-2

STAINLESS STEEL

Find out how to prepare stainless steel for metallographic examination with reproducible results in the best way.

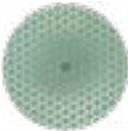
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TECHNICAL DATA

MD grinding

		Application area	Hardness range	MD surface	Finish comparable to SiC Paper or Foil # size (FEPA P)	Abrasive and bond
Plane grinding		Ferrous metals & hard materials	150-2000 HV	MD-Piano (3 grits)	80, 120, 220	Embedded resin bonded diamonds
		Non-ferrous metals and soft materials	40-250 HV	MD-Primo (2 grits)	120, 220	Embedded resin bonded SiC
		Stainless steel & nickel-based alloys	120-1000 HV	MD-Alto	220	Resin bonded aluminum oxide
		Titanium alloys and hard materials containing titanium	150-2000 HV	MD-Mezzo	220	Embedded resin bonded diamonds
		Aluminum alloys and hard materials containing aluminum	50-2000 HV	MD-Molto	220	Embedded resin bonded diamonds
Fine grinding		Ferrous metals & hard materials	150-2000 HV	MD-Piano (2 grits)	500, 1200	Embedded resin bonded diamonds
		Materials harder than 150 HV	>150 HV	MD-Allegro	500	Suspension/spray 15-6 µm
		Ferrous metals & hard materials	150-2000 HV	MD-Piano (2 grits)	2000, 4000	Embedded resin bonded diamonds
		Soft materials & composites with soft matrix	40-1500 HV	MD-Largo	1200	Suspension/spray 9-3 µm

Cooling media	Run-in time – pre-dressing needed	Maintenance of the surface	Indicative lifetime per surface (Number of SiC Papers or Foils)	Surface diameter sizes
Water	None	Dressing with sintered alumina stick from time to time	100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Water	None	Dressing with sintered alumina stick from time to time	100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"*
Water	None	None for most materials. Diamond dressing tool available if needed	50	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Water	None	Dressing with sintered alumina stick from time to time	100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Water	None	Dressing with sintered alumina stick from time to time	100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Water	None	Dressing with sintered alumina stick from time to time	100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Lubricant / suspension / All-in-One	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Water	None	Dedicated sintered alumina stick. Dress from time to time.	300	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Lubricant / suspension / All-in-One	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"

* MD-Primo 120



TECHNICAL DATA

Diamond Pads – Self adhesive grinding surfaces

		Application area	Hardness range	Surface	Grain sizes available	Abrasive and bond
Plane grinding		Ceramics, sintered carbides and very hard, ferrous metals	>600 HV	Diamond Pad	250 µm	Metal bonded diamonds
		Ceramics, sintered carbides and very hard, ferrous metals	>600 HV	Diamond Pad	125 µm	Metal bonded diamonds
Fine grinding		Minerals, ceramics, sintered carbides and very hard ferrous metals	>600 HV	Diamond Pad	40 µm	Metal bonded diamonds
		Minerals, ceramics, sintered carbides and very hard ferrous metals	>600 HV	Diamond Pad	20 µm	Metal bonded diamonds

Adaptor for magnetic disc

Adaptor	Description	Surface diameter sizes
	MD-Rondo Adapter for use with self adhesive consumables on the MD-disc. For easy exchange of consumables.	200 mm / 8” 250 mm / 10” 300 mm / 12”

Cooling media	Run-in time – pre-dressing needed	Maintenance of the surface	Indicative lifetime per surface (Number of of SiC Paper or Foil)	Surface diameter sizes
Water	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12"
Water	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12"
Water	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12"
Water	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12"

COPPER

Avoid deformation and severe scratches when preparing soft and ductile copper and copper alloys
Get recommendations for how to avoid mechanical deformation using fine grits, soft cloths, and chemically assisted final polishing.

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TECHNICAL DATA

Silicon Carbide Grinding Foils and Papers

		Application area	Hardness range	Surface	Grain sizes available (FEPA P)
Silicon Carbide Grinding Foil					
Plane grinding		All materials	30 - 800 HV	SiC Foil	80, 120, 180, 220, 320
		All materials	30 - 800 HV	SiC Foil	500, 800, 1000, 1200
Fine grinding		All materials	30 - 400 HV	SiC Foil	2000, 4000*
Silicon Carbide Grinding Paper					
Plane grinding		All materials	30 - 800 HV	SiC Paper	80, 120, 180, 220, 320
		All materials	30 - 800 HV	SiC Paper	500, 800, 1000, 1200
Fine grinding		All materials	30 - 400 HV	SiC Paper	2000, 2400*, 4000*

*not a part of FEPA P

Ab abrasive	Backing material	Cooling media	Run-in time – pre-dressing needed	Surface diameter sizes
Adhesive bonded SiC grains	PET foil	Water	None	200 mm / 8” 250 mm / 10” 300 mm / 12” 350 mm / 14”
Adhesive bonded SiC grains	PET foil	Water	None	200 mm / 8” 250 mm / 10” 300 mm / 12” 350 mm / 14”
Adhesive bonded SiC grains	PET foil	Water	None	200 mm / 8” 250 mm / 10” 300 mm / 12” 350 mm / 14”
Adhesive bonded SiC grains	Plain paper	Water	None	200 mm / 8” 230 mm / 9” 250 mm / 10” 305 mm / 12”
Adhesive bonded SiC grains	Plain paper	Water	None	200 mm / 8” 230 mm / 9” 250 mm / 10” 305 mm / 12”
Adhesive bonded SiC grains	Plain paper	Water	None	200 mm / 8” 230 mm / 9” 250 mm / 10” 305 mm / 12”



TECHNICAL DATA

Silicon Carbide Grinding Foils and Papers

SiC Foil adaptors

	Adaptor	Description	Surface diameter sizes
MD-Disc	MD-Gekko 	Adaptor for use with SiC Foils on the MD-Disc. For easy exchange of consumables	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Aluminum preparation disc	Gekko PSA 	Self adhesive foil for use with SiC Foils. To be glued onto the Aluminum disc	200 mm / 8" 250 mm / 10" 300 mm / 12"
Wet grinding disc Aluminum disc with retention ring	Cannot be used		

Grit / Grain size comparison

These are guideline values only. Grit sizes are defined as a range and not a single value. FEPA is the Federation of European Producers of Abrasives. ANSI is the American National Standards Institute. Struers grinding paper / foil follows the FEPA P standard while grinding stones and similar follow the Fepa F standard.

Grain size	200 µm	125 µm	82 µm	68 µm	46 µm
FEPA P (Europe)	P80	P120	P180	P220	P320
FEPA F (Europe)	F80	F100	F150	F180	F240
ANSI/UAMA (US)*	#80	#120	#180	#220	#280

* ANSI standard B74.18

SiC Paper adaptors

	Adaptor	Description	Surface diameter sizes
MD-Disc	MD-Fuga 	Metal disc with an adhesive layer for holding SiC Paper. Ensuring magnetic fixation on MD-Disc. For easy exchange of consumables	200 mm / 8" 250 mm / 10" 300 mm / 12"
Aluminum preparation disc	Adhesive Disc 	Double-sided adhesive discs for easy adhesion of SiC paper onto the Aluminum disc	200 mm / 8" 230 mm / 9" 250 mm / 10" 300 mm / 12"
Wet grinding disc Aluminum disc with retention ring	Can be used directly		

30 µm	22 µm	18 µm	15 µm	7 µm	4 µm
P500	P800	P1000	P1200	P2000	P4000
F320	F360	F400	F500	F800	F1200
#320	#360	#400	#500	#800	#1200



Grinding Stones



M0P15 Diamond Cup Wheel



Diamond Grinding Disc

High Removal Plane Grinding

Grinding Stones	
40800005	Grinding Stone PAMST Aluminium oxide grinding stone, for plane grinding of metals on Prepamatic and Prepamatic-2 Grit 150. 200 mm (8") dia.
40800177	Grinding stone 6A36 #150 Aluminium oxide grinding stone, for fast plane grinding of very hard steels/steels containing many carbides on AbraPlan and MAPS. Grit 150, 356 mm dia.
40800010	Grinding stone 4A36 #150 Aluminium oxide grinding stone, for fast plane grinding of metals >HV 250 on AbraPlan and MAPS. Grit 150. 356 mm (14") dia.
40800178	Grinding stone 3A36 #150 Aluminium oxide grinding stone, for fast plane grinding of nickel -based alloys (turbine blades) and stainless steels on AbraPlan and MAPS. Grit 150, 356 mm dia.
40800074	Grinding stone 2S36 #150 Silicon carbide grinding stone, for fast plane grinding of non-ferrous metals on AbraPlan and MAPS. Grit 150. 356 mm (14") dia.
40800181	Grinding stone 6A27 #150 Aluminium oxide grinding stone, for fast plane grinding of very hard steels/steels containing many carbides on Xmatic & Hexamatic Grit 150, 270 mm dia.
40800179	Grinding stone 4A27 #150 Aluminium oxide grinding stone, for fast plane grinding of metals >HV 250 on Xmatic & Hexamatic Grit 150, 270 mm dia.
40800182	Grinding stone 3A27 #150 Aluminium oxide grinding stone, for fast plane grinding of nickel based alloys (turbine blades) and stainless steels on Xmatic & Hexamatic Grit 150, 270 mm dia.
40800180	Grinding stone 2S27 #150 Silicon carbide grinding stone, for fast plane grinding of non-ferrous metals on Xmatic & Hexamatic Grit 150, 270 mm dia.

Diamond Grinding Discs

40800202	Diamond grinding disc 8D36 #120 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.
40800183	Diamond grinding disc 8D27 #120 Resin bonded diamond grinding disc, for fast plane grinding of ceramics and sintered carbides on Xmatic & Hexamatic Grit 120, 270 mm dia.

Diamond Cup Wheels

40800013	Diamond Cup Wheel MOP15 For grinding of hard, brittle materials on Discoplan-TS. Metal bonded 70 µm. 150 mm (6") dia. x 31.75 mm dia.
40800014	Diamond Cup Wheel BOP15 For grinding of hard, ductile materials on Discoplan-TS. Resin bonded 35 µm. 150 mm (6") dia. x 31.75 mm dia.

Cup Wheels

40800083	Diamond Cup Wheel BOP10 For grinding of hard and ductile materials on Accutom-100 and Accutom-50. Resin bond. Special flange set for cup wheel (06176902 for Accutom-100 or 05016901 for Accutom-50) is required 40 µm. 100 mm (4") dia. x 12.7 mm dia.
40800082	Diamond Cup Wheel MOP10 For grinding of hard and brittle materials on Accutom-100 and Accutom-50. Metal bond. Special flange set for cup wheel (06176902 for Accutom-100 or 05016901 for Accutom-50) is required 91 µm. 100 mm (4") dia. x 12.7 mm dia.
40800185	40 µm. 100 mm (4") dia. x 12.7 mm dia.
40800184	25 µm. 100 mm (4") dia. x 12.7 mm dia.
40800120	SiC Cup Wheel 10P13 SiC Cup Wheel, for grinding of ductile materials on Accutom-100 and Accutom-50. Resin bond 125 µm. 130 mm (5") dia. x 12.7 mm dia.
40800199	Diamond cup wheel MOP15 For grinding of hard and brittle materials on Accutom-100. Metal bond. Special flange set for cup wheel (06176902) is required 91 µm. 150 mm (6") dia. x 12.7 mm dia.
40800200	40 µm. 150 mm (6") dia. x 12.7 mm dia.

Petrodisc-M

02426913	Disc for one-step fine grinding of materials >HV 150, using diamonds 230 mm (9") dia.
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MD
Fine Grinding Surfaces



MD-Mezzo
Diamond Grinding Surface



MD-Molto
Diamond Grinding Surface

Magnetic Grinding Discs (MD)

MD-Piano	
40800121	MD-Piano 80 Resin bonded diamond grinding surface for plane grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 80. For magnetic fixation on MD-disc 200 mm (8") dia.
40800122	250 mm (10") dia.
40800123	300 mm (12") dia.
40800124	350 mm (14") dia.
40800125	MD-Piano 120 Resin bonded diamond grinding surface for plane grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 120. For magnetic fixation on MD-disc 200 mm (8") dia.
40800126	250 mm (10") dia.
40800127	300 mm (12") dia.
40800128	350 mm (14") dia.
40800129	MD-Piano 220 Resin bonded diamond grinding surface for plane grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 220. For magnetic fixation on MD-disc 200 mm (8") dia.
40800130	250 mm (10") dia.
40800131	300 mm (12") dia.
40800132	350 mm (14") dia.
40800133	MD-Piano 500 Resin bonded diamond grinding surface for plane grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 500. For magnetic fixation on MD-disc 200 mm (8") dia.
40800134	250 mm (10") dia.
40800135	300 mm (12") dia.
40800136	350 mm (14") dia.
40800137	MD-Piano 1200 Resin bonded diamond grinding surface for fine grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 1200. For magnetic fixation on MD-disc 200 mm (8") dia.
40800138	250 mm (10") dia.
40800139	300 mm (12") dia.
40800140	350 mm (14") dia.

MD-Piano

40800141	MD-Piano 2000 Resin bonded diamond grinding surface for ultra fine grinding of materialsHV 150 - 2000. Surface finish comparable to SiC-Paper grit 2400. For magnetic fixation on MD-disc. 200 mm (8")
40800142	250 mm (10")
40800143	300 mm (12")
40800144	350 mm (14")
40800145	MD-Piano 4000 Resin bonded diamond grinding surface for ultra fine grinding of materialsHV 150 - 2000. Surface finish comparable to SiC-Paper grit 4000. For magnetic fixation on MD-disc. 200 mm (8")
40800146	250 mm (10")
40800147	300 mm (12")
40800148	350 mm (14")

MD-Alto

40800204	MD-Alto 180 Resin bonded aluminum oxide grinding surface for plane grinding of ductile materials as stainless steel & nickel-based alloys. Surface finish comparable to SiC-Paper grit 220 (FEPA P). For magnetic fixation on MD-Disc 200 mm (8") dia. 2 pcs.
40800205	250 mm (10") dia. 2 pcs.
40800206	300 mm (12") dia. 2 pcs.
40800207	350 mm (14") dia. 2 pcs.

MD-Molto

40800187	MD-Molto 220 Resin bonded diamond grinding surface for plane grinding of aluminium alloys. Surface finish comparable to SiC Paper/Foil #220. For magnetic fixation on MD-disc. 200 mm (8") dia.
40800188	250 mm (10") dia.
40800189	300 mm (12") dia.
40800190	350 mm (14") dia.

MD-Mezzo

40800191	MD-Mezzo 220 Resin bonded diamond grinding surface for plane grinding of titanium alloys. Surface finish comparable to SiC Paper/Foil #220. For magnetic fixation on MD-disc. 200 mm (8") dia.
40800192	250 mm (10") dia.
40800193	300 mm (12") dia.
40800194	350 mm (14") dia.

MD-Primo

40800085	MD-Primo 120 Grinding surface for plane grinding of materials HV 40-250. Surface finish comparable to SiC-Paper grit 120. SiC abrasive embedded in a resin bond. For magnetic fixation on MD-disc 200 mm (8") dia.
40800086	250 mm (10") dia.
40800087	300 mm (12") dia.
40800118	350 mm (14") dia.
40800088	MD-Primo 220 Grinding surface for plane grinding of materials HV 40-250. Surface finish comparable to SiC-Paper grit 220. SiC abrasive embedded in a resin bond. For magnetic fixation on MD-disc 200 mm (8") dia.
40800089	250 mm (10") dia.
40800090	300 mm (12") dia.

MD-Allegro

40500134	Maintenance-free composite surface for one-step fine grinding of materials >HV 150, using diamonds. For magnetic fixation on MD-disc 200 mm (8") dia. 1 pc.
40500065	200 mm (8") dia. 5 pcs.
40500135	250 mm (10") dia. 1 pc.
40500066	250 mm (10") dia. 5 pcs.
40500136	300 mm (12") dia. 1 pc.
40500067	300 mm (12") dia. 5 pcs.
40500140	350 mm (14") dia. 5 pcs.

MD-Largo

40500137	Maintenance-free composite surface for one-step fine grinding of materials >HV 40, using diamonds. For ductile materials like non-ferrous metals and stainless steel, but also for brittle materials like ceramics and hard minerals. For magnetic fixation on MD-disc 200 mm (8") dia. 1 pc.
40500097	200 mm (8") dia. 5 pcs.
40500138	250 mm (10") dia. 1 pc.
40500098	250 mm (10") dia. 5 pcs.
40500139	300 mm (12") dia. 1 pc.
40500099	300 mm (12") dia. 5 pcs.
40500141	350 mm (14") dia. 5 pcs.



Diamond Pads

CUTTING

MOUNTING

GRINDING

POLISHING

VERIFICATION

ACCESSORIES

Diamond Pads

300 mm Diamond Pad

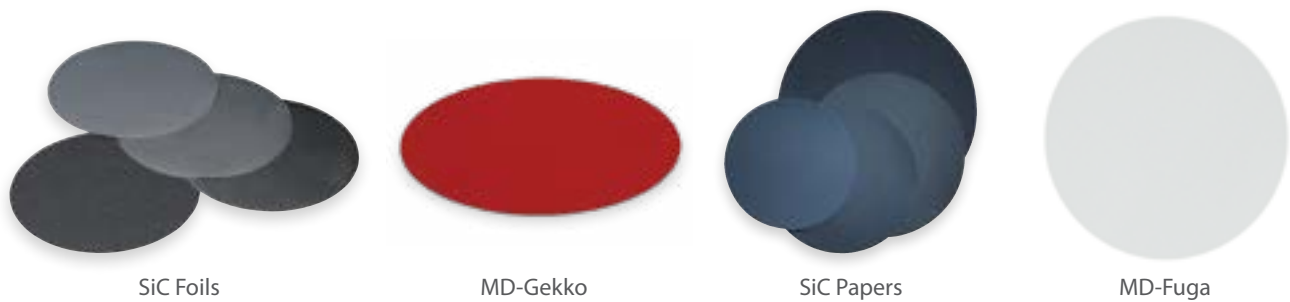
40800037	Diamond Pad Metal bonded diamond grinding pad, for grinding of hard materials (>HV 600). Self-adhesive 250 µm. 300 mm (12") dia.
40800038	125 µm. 300 mm (12") dia.
40800039	40 µm. 300 mm (12") dia.
40800040	20 µm. 300 mm (12") dia.

250 mm Diamond Pad

40800033	Diamond Pad Metal bonded diamond grinding pad, for grinding of hard materials (>HV 600). Self-adhesive 250 µm. 250 mm (10") dia.
40800034	125 µm. 250 mm (10") dia.
40800035	40 µm. 250 mm (10") dia.
40800036	20 µm. 250 mm (10") dia.

200 mm Diamond Pad

40800025	Diamond Pad Metal bonded diamond grinding pad, for grinding of hard materials (>HV 600). Self-adhesive 250 µm. 200 mm (8") dia.
40800026	125 µm. 200 mm (8") dia.
40800027	40 µm. 200 mm (8") dia.
40800028	20 µm. 200 mm (8") dia.



Silicon Carbide (SiC) Grinding Foils and Papers

350 mm SiC Foil

40400260	SiC Foil For wet grinding of materials (HV 30 – 800). PET foil backing, for use on MD-Gekko or Gekko PSA. Grit 80 (US #80). 350 mm (14") dia. 50 pcs.
40400261	Grit 120 (US #120). 350 mm (14") dia. 50 pcs.
40400262	Grit 180 (US #180). 350 mm (14") dia. 50 pcs.
40400263	Grit 220 (US #220). 350 mm (14") dia. 50 pcs.
40400264	Grit 320 (US #280). 350 mm (14") dia. 100 pcs.
40400265	Grit 500 (US #320). 350 mm (14") dia. 100 pcs.
40400266	Grit 800 (US #360). 350 mm (14") dia. 100 pcs.
40400267	Grit 1000 (US #400). 350 mm (14") dia. 100 pcs.
40400268	Grit 1200 (US #500). 350 mm (14") dia. 100 pcs.
40400269	For wet grinding of materials (HV 30 – 400). PET foil backing, for use on MD-Gekko or Gekko PSA. Grit 2000 (US #800). 350 mm (14") dia. 50 pcs.
40400272	For wet grinding of materials (HV 30 – 400). Adhesive backing, for use on MD-Gekko or Gekko PSA. Grit 4000 (US #1200). 350 mm (14") dia. 50 pcs.

300 mm SiC Foil

40400240	SiC Foil For wet grinding of materials (HV 30 – 800). PET foil backing, for use on MD-Gekko or Gekko PSA. Grit 80 (US #80). 300 mm (12") dia. 50 pcs.
40400241	Grit 120 (US #120). 300 mm (12") dia. 50 pcs.
40400242	Grit 180 (US #180). 300 mm (12") dia. 50 pcs.
40400243	Grit 220 (US #220). 300 mm (12") dia. 50 pcs.
40400244	Grit 320 (US #280). 300 mm (12") dia. 100 pcs.
40400245	Grit 500 (US #320). 300 mm (12") dia. 100 pcs.
40400246	Grit 800 (US #360). 300 mm (12") dia. 100 pcs.
40400247	Grit 1000 (US #400). 300 mm (12") dia. 100 pcs.
40400248	Grit 1200 (US #500). 300 mm (12") dia. 100 pcs.
40400249	For wet grinding of materials (HV 30 – 400). PET foil backing, for use on MD-Gekko or Gekko PSA. Grit 2000 (US #800). 300 mm (12") dia. 50 pcs.
40400252	For wet grinding of materials (HV 30 – 400). Adhesive backing, for use on MD-Gekko or Gekko PSA. Grit 4000 (US #1200). 300 mm (12") dia. 50 pcs.

250 mm SiC Foil

40400220	SiC Foil For wet grinding of materials (HV 30 – 800). PET foil backing, for use on MD-Gekko or Gekko PSA. Grit 80 (US #80). 250 mm (10") dia. 50 pcs.
40400221	Grit 120 (US #120). 250 mm (10") dia. 50 pcs.
40400222	Grit 180 (US #180). 250 mm (10") dia. 50 pcs.
40400223	Grit 220 (US #220). 250 mm (10") dia. 50 pcs.
40400224	Grit 320 (US #280). 250 mm (10") dia. 100 pcs.
40400225	Grit 500 (US #320). 250 mm (10") dia. 100 pcs.
40400226	Grit 800 (US #360). 250 mm (10") dia. 100 pcs.
40400227	Grit 1000 (US #400). 250 mm (10") dia. 100 pcs.
40400228	Grit 1200 (US #500). 250 mm (10") dia. 100 pcs.
40400229	For wet grinding of materials (HV 30 – 400). PET foil backing, for use on MD-Gekko or Gekko PSA. Grit 2000 (US #800). 250 mm (10") dia. 50 pcs.
40400232	For wet grinding of materials (HV 30 – 400). Adhesive backing, for use on MD-Gekko or Gekko PSA. Grit 4000 (US #1200). 250 mm (10") dia. 50 pcs.

200 mm SiC Foil

40400200	SiC Foil For wet grinding of materials (HV 30 – 800). PET foil backing, for use on MD-Gekko or Gekko PSA. Grit 80 (US #80). 200 mm (8") dia. 50 pcs.
40400201	Grit 120 (US #120). 200 mm (8") dia. 50 pcs.
40400202	Grit 180 (US #180). 200 mm (8") dia. 50 pcs.
40400203	Grit 220 (US #220). 200 mm (8") dia. 50 pcs.
40400204	Grit 320 (US #280). 200 mm (8") dia. 100 pcs.
40400205	Grit 500 (US #320). 200 mm (8") dia. 100 pcs.
40400206	Grit 800 (US #360). 200 mm (8") dia. 100 pcs.
40400207	Grit 1000 (US #400). 200 mm (8") dia. 100 pcs.
40400208	Grit 1200 (US #500). 200 mm (8") dia. 100 pcs.
40400209	For wet grinding of materials (HV 30 – 400). PET foil backing, for use on MD-Gekko or Gekko PSA. Grit 2000 (US #800). 200 mm (8") dia. 50 pcs.
40400212	For wet grinding of materials (HV 30 – 400). Adhesive backing, for use on MD-Gekko or Gekko PSA. Grit 4000 (US #1200). 200 mm (8") dia. 50 pcs.

MD-Gekko

49900047	MD-Gekko Adapter for use with SiC Foil or self adhesive consumables on the MD-System, for easy removal. For magnetic fixation on MD-Disc. 200 mm dia. 2 pcs.
49900048	250 mm dia. 2 pcs.
49900049	300 mm dia. 2 pcs.
49900050	350 mm dia. 2 pcs.

MD-Gekko

49900053	Gekko PSA Self adhesive Gekko Foil for use with SiC Foil or self adhesive consumables. To be glued on an aluminium disc. 200 mm dia. 2 pcs.
49900054	250 mm dia. 2 pcs.
49900055	300 mm dia. 2 pcs.

305 mm SiC Paper

40400062	Silicon Carbide Grinding Paper For wet grinding of materials (HV 30 - 800). Plain back Grit 80 (US #80). 305 mm (12") dia. 50 pcs.
40400063	Grit 120 (US #120). 305 mm (12") dia. 50 pcs.
40400064	Grit 180 (US #180). 305 mm (12") dia. 50 pcs.
40400128	Grit 220 (US #220). 305 mm (12") dia. 50 pcs.
40400032	Grit 320 (US #280). 305 mm (12") dia. 100 pcs.
40400033	Grit 500 (US #320). 305 mm (12") dia. 100 pcs.
40400034	Grit 800 (US #360). 305 mm (12") dia. 100 pcs.
40400035	Grit 1000 (US #400). 305 mm (12") dia. 100 pcs.
40400036	Grit 1200 (US #500). 305 mm (12") dia. 100 pcs.
40400187	For wet grinding of materials (HV 30 - 400). Plain back Grit 2000 (US #800). 305 mm (12") dia. 50 pcs.
40400037	Grit 2400 (US #1000). 305 mm (12") dia. 50 pcs.
40400038	Grit 4000 (US #1200). 305 mm (12") dia. 50 pcs.

250 mm SiC Paper

40400065	Silicon Carbide Grinding Paper For wet grinding of materials (HV 30 - 800). Plain back Grit 80 (US #80). 250 mm (10") dia. 50 pcs.
40400066	Grit 120 (US #120). 250 mm (10") dia. 50 pcs.
40400067	Grit 180 (US #180). 250 mm (10") dia. 50 pcs.
40400127	Grit 220 (US #220). 250 mm (10") dia. 50 pcs.
40400069	Grit 320 (US #280). 250 mm (10") dia. 100 pcs.
40400070	Grit 500 (US #320). 250 mm (10") dia. 100 pcs.
40400071	Grit 800 (US #360). 250 mm (10") dia. 100 pcs.
40400072	Grit 1000 (US #400). 250 mm (10") dia. 100 pcs.
40400073	Grit 1200 (US #500). 250 mm (10") dia. 100 pcs.
40400185	For wet grinding of materials (HV 30 - 400). Plain back Grit 2000 (US #800). 250 mm (10") dia. 50 pcs.
40400026	Grit 2400 (US #1000). 250 mm (10") dia. 50 pcs.
40400027	Grit 4000 (US #1200). 250 mm (10") dia. 50 pcs.

230 mm SiC Paper

40400059	Silicon Carbide Grinding Paper For wet grinding of materials (HV 30 - 800). Plain back Grit 80 (US #80). 230 mm (9") dia. 50 pcs.
40400060	Grit 120 (US #120). 230 mm (9") dia. 50 pcs.
40400061	Grit 180 (US #180). 230 mm (9") dia. 50 pcs.
40400126	Grit 220 (US #220). 230 mm (9") dia. 50 pcs.
40400019	Grit 320 (US #280). 230 mm (9") dia. 100 pcs.
40400020	Grit 500 (US #320). 230 mm (9") dia. 100 pcs.
40400021	Grit 800 (US #360). 230 mm (9") dia. 100 pcs.
40400022	Grit 1000 (US #400). 230 mm (9") dia. 100 pcs.
40400023	Grit 1200 (US #500). 230 mm (9") dia. 100 pcs.
40400183	For wet grinding of materials (HV 30 - 400). Plain back Grit 2000 (US #800). 230 mm (9") dia. 50 pcs.
40400024	Grit 2400 (US #1000). 230 mm (9") dia. 50 pcs.
40400025	Grit 4000 (US #1200). 230 mm (9") dia. 50 pcs.

200 mm SiC Paper

40400056	Silicon Carbide Grinding Paper For wet grinding of materials (HV 30 - 800). Plain back. Grit 80 (US #80). 200 mm (8") dia. 50 pcs.
40400057	Grit 120 (US #120). 200 mm (8") dia. 50 pcs.
40400058	Grit 180 (US #180). 200 mm (8") dia. 50 pcs.
40400125	Grit 220 (US #220). 200 mm (8") dia. 50 pcs.
40400008	Grit 320 (US #280). 200 mm (8") dia. 100 pcs.
40400009	Grit 500 (US #320). 200 mm (8") dia. 100 pcs.
40400010	Grit 800 (US #360). 200 mm (8") dia. 100 pcs.
40400011	Grit 1000 (US #400). 200 mm (8") dia. 100 pcs.
40400012	Grit 1200 (US #500). 200 mm (8") dia. 100 pcs.
40400181	For wet grinding of materials (HV 30 - 400). Plain back Grit 2000 (US #800). 200 mm (8") dia. 50 pcs.
40400013	Grit 2400 (US #1000). 200 mm (8") dia. 50 pcs.
40400014	Grit 4000 (US #1200). 200 mm (8") dia. 50 pcs.

MD-Fuga

49900021	Metal disc with an adhesive layer for holding plain grinding papers. Can be used repeatedly. For magnetic fixation on MD-Disc 200 mm (8") dia. 5 pcs.
49900022	250 mm (10") dia. 5 pcs.
49900023	300 mm (12") dia. 5 pcs.

Adhesives for Grinding Paper

49900006	Adhesive Discs Double-sided adhesive discs for easy adhesion of plain grinding papers on grinding/polishing discs. Can be used repeatedly 200 mm (8") dia. 10 pcs.
49900007	230 mm (9") dia. 10 pcs.
49900015	250 mm (10") dia. 10 pcs.
49900008	300 mm (12") dia. 10 pcs.

Other Grinding Paper

40400041	Silicon Carbide Grinding Paper For wet grinding of materials (HV 30 - 800) on Lunn-Major and Lunn-Labor. Roll. Plain back Grit 220 (US #220). 18 m x 7.5 cm
40400042	Grit 320 (US #280). 20 m x 7.5 cm
40400043	Grit 500 (US #360). 20 m x 7.5 cm
40400044	Grit 1000 (US #500). 25 m x 7.5 cm



Diamond film

Abrasive Polishing Film

Diamond Film

40400179	For polishing with TriPod polishing fixture. PET foil backing 0.5 µm. 200 mm (8") dia. 5 pcs.
40400178	1 µm. 200 mm (8") dia. 5 pcs.
40400177	3 µm. 200 mm (8") dia. 5 pcs.
40400176	6 µm. 200 mm (8") dia. 5 pcs.
40400175	9 µm. 200 mm (8") dia. 5 pcs.
40400173	30 µm. 200 mm (8") dia. 5 pcs.

Aluminium Oxide Film

40400172	For polishing with TriPod polishing fixture. PET foil backing 0.05 µm. 200 mm (8") dia. 50 pcs.
40400170	0.3 µm. 200 mm (8") dia. 50 pcs.
40400169	1 µm. 200 mm (8") dia. 50 pcs.

Other Grinding Consumables

Others Dressing	
40800045	Diamond Point Diamond point for dressing tool. For Xmatic, Hexamatic, MAPS, AbraPlan-10/-20/-30, Xmatic, Prepamatic and Miniplan 1 pcs. 5 mm dia.
02606962	Diamond point for dressing tool. For use on Xmatic and Xmatic Compact for dressing MD-Alto. Use 40800045 on AbraPlan-10/-20/-30 for best planeness 1 pcs. 8 mm dia.
02606901	Diamond point for dressing tool, For Abraplan. 1 pcs. 8 mm dia.
40800044	Dressing Stick Aluminium oxide stick for truing and opening of diamond and CBN cut-off wheels, diamond grinding discs and the grinding discs in the MD-System (not for use with MD-Piano 2000/4000) 1 pcs.
40800186	Aluminium oxide stick for truing and opening of MD-Piano 2000 and 4000 diamond fine grinding discs. Dressing stick MD-Piano 2000/4000
40800203	Dressing specimen Aluminium oxide specimens for truing and opening of diamond grinding discs 8D27 / 8D36 and for MD-Piano if manual dressing is not possible. To be clamped in specimen holder 05946906 for Hexamatic or 02606920 for other machines. 25 x 50 x 32 mm (1" x 2" x 1.25") 6 pcs.
40800240	Diamond dresser Manual diamond dresser for MD-Alto. To retain the removal rate 1 pcs.
40800241	Dressing Stick for Xmatic and Xmatic Compact Aluminium oxide stick for truing and opening of MD grinding discs (not for use with MD-Piano 2000/4000) 25x50x100 mm - 3 pcs.

ALUMINUM

Avoid deformation when preparing aluminum and aluminum alloys. Get recommendations for replacing coarse grits and learn how silicon dioxide suspension can ensure a thorough final polishing.

READ MORE





Flapper Wheel



Polishing Cloths



Transcopy kit

Non-destructive Testing

Grinding

40800053	Flapper Wheel For coarse grinding with TransPol Grit 80. 40 mm (1½") dia. x 10 mm, shaft 6 mm dia. 5 pcs.
40400049	Silicon Carbide Paper Silicon carbide grinding paper, for grinding on Transpol-2 and Transpol. Self-adhesive Grit 60. 32 mm (1¼") dia. 100 pcs.
40400129	Grit 120. 32 mm (1¼") dia. 100 pcs.
40400130	Grit 240. 32 mm (1¼") dia. 100 pcs.
40400131	Grit 500. 32 mm (1¼") dia. 100 pcs.

Polishing

40500040	DP-Dur Cloth for diamond polishing. For use with Transpol. Satin woven silk. Self-adhesive 32 mm (1¼") dia. 25 pcs.
40500145	DP-Dac Cloth for diamond polishing. For Transpol-2 and Transpol. Satin woven acetate. Self-adhesive 32 mm (1¼") dia. 25 pcs.
40500041	DP-Mol Cloth for diamond polishing. For use with Transpol. Woven wool. Self-adhesive 32 mm (1¼") dia. 25 pcs.
40500042	DP-Nap Cloth for diamond polishing. For use with Transpol. Short synthetic nap. Self-adhesive 32 mm (1¼") dia. 25 pcs.
40500043	OP-Felt Cloth for oxide polishing. For use with Transpol. Thick felt. Self-adhesive 32 mm (1¼") dia. 25 pcs.
03926904	Polishing Chamber Flexible type. For Movipol-3 and -5 50 pcs.

Silicon Carbide Powder

40701023	For lapping mineralogical or ceramic specimens. To be used on cast iron lapping disc Grit 120 (FEPA F). 500 g
40701024	Grit 220 (FEPA F). 500 g
40701025	Grit 320 (FEPA F). 500 g
40701026	Grit 400 (FEPA F). 500 g
40701027	Grit 600 (FEPA F). 500 g
40701028	Grit 800 (FEPA F). 500 g
40701029	Grit 1000 (FEPA F). 300 g
40701030	Grit 1200 (FEPA F). 300 g

Glass Slides

80100001	Standard Slides Standard Slides for thin sections, with ground edges. 1.2 - 1.5 mm thick 27 x 46 mm. 100 pcs.
40701018	28 x 48 mm. 100 pcs.

Others

49900044	Adhesive Tape To be used with specimen holder MAXAD (02606950), MAXSO (02606926), MAXSA (02606928), MAXON (02606927) or MAXAN (02606929). Double-sided adhesive tape in roll 38 mm wide. 25 m
40900043	Engraver Tip Tungsten carbide tipped point for Engraver 1 pc.
40900041	Tape Kit - TenuPol For electrolytic blanking of 3 mm / 2.3 mm specimens to be electrolytically thinned for TenuPol 1 roll of tape and 1 hole punch
49900052	Disposable Bowl Liner For Tegramin-30 and -25 5 pcs.
49900056	For Tegramin-20 5 pcs.
49900041	For TegraPol-11, -15 and LaboPol-1, -2, -4, -5, -6 5 pcs
49900061	For LaboPol-20 5 pcs.
49900062	For LaboPol-30/-60 5 pcs.

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Others

49900067	For AbraPol-30 3 pcs.
49900077	For Xmatic and Xmatic Compact. To use on MD grinding/polishing station and high removal plane grinding station 5 set
49900033	Protection caps Plastic caps for cylindrical specimens or mounts 25 mm dia. 100 pcs.
49900034	30 mm dia. 100 pcs.
49900035	40 mm dia. 100 pcs.
49900036	50 mm dia. 100 pcs.
49900063	1¼" dia. 100 pcs.

TargetSystem Consumables

05756914	30 mm dia. Sample Chair 30 mm dia. adapter for cross-sectioning on TargetMaster. To be inserted into TargetGrip (05756916). Max. specimen size 23 x 20.5 mm. Disposable 30 mm dia. 50 pcs.
05756908	40 mm dia. Sample Chair 40 mm dia. adapter for cross-sectioning on TargetMaster. To be inserted into TargetGrip (05756901). Max. specimen size 29 x 20.5 mm. Disposable 40 mm dia. 50 pcs.
05756917	40 mm Elevated Sample Chair 40 mm Adapter for cross-sectioning (disposable), 50 pcs. External sample platform for use with TargetX. Max sample size ca 5x15mm. Use of this sample chair requires modification of TargetMaster.
05756912	Mould Insert Mould insert for use with 40 mm dia. mount cups. Max specimen size 35 x 20 mm. 40 mm dia. 50 pcs.
05756907	Resin Barrier Metal labels to be used together with Sample chair (05756908 and 05756914). 50 pcs.

ViaKit/-Basic Consumables

40300056	ViaKit End Caps End caps for use with ViaKit Mounting Rings (40300055) 250 pcs.
40300057	ViaKit Positioning Pins Positioning pins, 1.98 mm dia., length 43 mm. Suitable for use with ViaKit and AccuStop-40/Flangeform 500 pcs.

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POLISHING

Struers Polishing Consumables

What preparation requirements do you have for your analysis? Do you have a high throughput or just the occasional specimens? Do you work with one kind of material or many? Our complete range of polishing consumables covers every need - for any material, any preparation goal, and any lab setup – to ensure accurate and reliable results, while improving your process speed, efficiency, and safety.

That's because each machine and consumable are designed to work together to control all of the parameters of the polishing process – helping you to get the most out of your investment.

Choose your cloth, diamond grain size, and lubricant, depending on the material you're polishing. Whether you're interested in Oxide Polishing or Diamond Polishing, Struers has what you need.

DiaPro Efficiency

DiaPro is a line of diamond suspensions especially developed for extra-high performance and efficiency - reducing preparation times by 30% on average. Each DiaPro suspension has been developed and optimized for a specific surface, delivering exceptional planeness, edge retention, and reproducibility.

Only Struers consumables are designed to get the most out of Struers equipment.



Selection Guide for MD-Polishing Cloth

Cloth	Characteristics	Recommended use	Abrasive range	Resilience	Hardness
MD-Plan	Coated, woven polyester	Fine grinding of soft metals Pre-polishing of hard materials	15 - 3 μm	Very low	Hard
MD-Pan	Impregnated, non-woven technical textile	Fine grinding of soft metals Pre-polishing of hard and brittle materials	15 - 1 μm	Very low	Hard
MD-Sat	Woven acetate	Fine grinding and polishing of ferrous metals, non-ferrous metals, coatings and plastics	9 - 1 μm	Medium	Hard
MD-Dur	Satin woven natural silk	Fine grinding and polishing of ferrous metals, non-ferrous metals, coatings and plastics	9 - 1 μm	Medium	Hard
MD-Dac	Satin woven acetate	Polishing of all materials	9 - 3 μm	Medium	Hard
MD-Mol MD-Mol APS	Taffeta woven 100 % wool	Polishing of ferrous and non-ferrous metals and polymers APS for Automatic Preparation Systems	$\leq 3 \mu\text{m}$	High	Soft
MD-Plus	Synthetic nap	One step polishing for sintered carbides and steels	$\leq 3 \mu\text{m}$	High	Soft
MD-Floc	Synthetic nap	Polishing of all materials	$\leq 3 \mu\text{m}$	Very high	Very soft
MD-Nap	Synthetic short nap	Final polishing of all materials	$\leq 1 \mu\text{m}$	Very high	Very soft
MD-Chem / MD-Chem NonStick	Porous neoprene	Final polishing of all materials		High	Soft

Metalogram Instructions

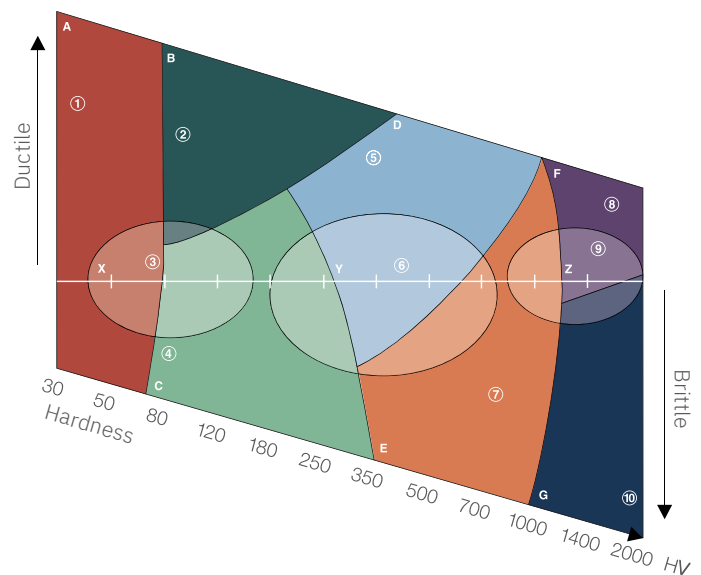
The Metalogram is our way of creating generic methods based on the two parameters, ductility and hardness.

The selection of a preparation method in the Metalogram depends on these two properties:

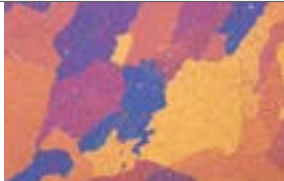
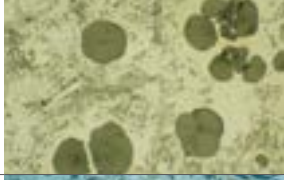
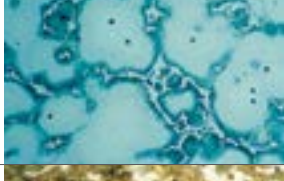
- **Hardness:** the easiest attribute to measure but is not sufficient information about a material to find the correct preparation method.
- **Ductility:** the ability of a material to deform plastically and is far more important. How does a material actually respond to mechanical abrasion? Is it easily deformed, or do we get cracks and pull-outs during preparation?

Description of the Metalogram

The x-axis represents the hardness in Vickers. The values are not shown in a linear way because the variety of preparation methods for softer materials is greater than for hard ones. The shape of the Metalogram results from soft materials generally being more ductile and hard materials usually being more brittle.



Preparation Methods Overview

			Plane Grinding	Fine Grinding	Diamond Polishing	Oxide Polishing
Method A Ex. Al 99,5 sand cast		 Surface	SiC-Foil (on MD-Gekko)	MD-Largo	MD-Mol	MD-Chem
		 Abrasive, Grit/Grain	SiC # 320	DiaPro Allegro/Largo 9 µm	DiaPro Mol R 3 µm	OP-S NonDry 0.25 µm
Method B Ex. Cu pure		 Surface	SiC Foil (on MD-Gekko)	MD-Largo	MD-Mol	MD-Chem
		 Abrasive, Grit/Grain	SiC # 320	DiaPro Allegro/Largo 9 µm	DiaPro Mol R 3 µm	OP-S NonDry 0.25 µm
Method C Ex. Cu 58 Zn 42		 Surface	SiC Foil (on MD-Gekko)	MD-Largo	MD-Dac	MD-Chem
		 Abrasive, Grit/Grain	SiC # 320	DiaPro Allegro/Largo 9 µm	DiaPro Dac 3 µm	OP-S NonDry 0.25 µm
Method D Ex. Nodular cast iron		 Surface	MD-Piano 220	MD-Allegro	MD-Dac	MD-Chem
		 Abrasive, Grit/Grain	Diamond * ~ #220	DiaPro Allegro/Largo 9 µm	DiaPro Dac 3 µm	OP-A 0.02 µm
Method E Ex. White cast iron		 Surface	MD-Piano 220	MD-Allegro	MD-Dur	MD-Chem
		 Abrasive, Grit/Grain	Diamond * ~ #220	DiaPro Allegro/Largo 9 µm	DiaPro Dur 3 µm	OP-U NonDry 0.04 µm
Method F Ex. WC in Cu matrix		 Surface	MD-Piano 120	MD-Allegro	MD-Dac	MD-Chem
		 Abrasive, Grit/Grain	Diamond * ~ #120	DiaPro Allegro/Largo 9 µm	DiaPro Dac 3 µm	OP-U NonDry 0.25 µm
Method G Ex. Al ₂ O ₃		 Surface	MD-Piano 220	MD-Plan		MD-Chem
		 Abrasive, Grit/Grain	Diamond * ~ #220	DiaPro Plan 9 µm		OP-S NonDry 0.04 µm
Method X Ex. MgAl alloy		 Surface	SiC-Foil (on MD-Gekko)	MD-Largo	MD-Mol	
		 Abrasive, Grit/Grain	SiC # 320	DiaPro Allegro/Largo 9 µm	DiaPro Mol R 3 µm	
Method Y Ex. Medium carbon steel		 Surface	MD-Piano 220	MD-Plan	MD-Floc	
		 Abrasive, Grit/Grain	Diamond * ~ #220	DiaPro Plan 9 µm	DiaPro Floc 3 µm	
Method Z Ex. Sintered carbide with coatings		 Surface	MD-Piano 120	MD-Allegro	MD-Dac	
		 Abrasive, Grit/Grain	Diamond * ~ #120	DiaPro Allegro/Largo 9 µm	DiaPro Dac 3 µm	

*Corresponds to FEPA P standard grain size

CUTTING

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MD-Polishing Cloths



DP-Nap



MD-Chem NonStick

MD Polishing Cloths

MD-Plan

40500086	Polishing cloth for fine grinding of soft metals and pre-polishing of hard materials. Coated woven polyester. For magnetic fixation on MD-Disc 200 mm (8") dia. 5 pcs.
40500087	250 mm (10") dia. 5 pcs.
40500088	300 mm (12") dia. 5 pcs.
40500147	350 mm (14") dia. 5 pcs.

MD-Pan

40500157	Polishing cloth for fine grinding of soft metals and pre-polishing of hard and brittle materials. Impregnated non-woven technical textile. For magnetic fixation on MD-Disc 200 mm (8") dia. 5 pcs.
40500158	250 mm (10") dia. 5 pcs.
40500159	300 mm (12") dia. 5 pcs.
40500160	350 mm (14") dia. 5 pcs.

MD-Dur

40500074	Polishing cloth for fine grinding and polishing of ferrous metals, non-ferrous metals, coatings, plastics. Satin woven natural silk. For magnetic fixation on MD-Disc 200 mm (8") dia. 5 pcs.
40500075	250 mm (10") dia. 5 pcs.
40500076	300 mm (12") dia. 5 pcs.
40500149	350 mm (14") dia. 5 pcs.

MD-Dac

40500071	Polishing cloth for polishing of all materials. Is used for diamond with particle size 9 - 3 μm . Satin woven acetate. For magnetic fixation on MD-Disc 200 mm (8") dia. 5 pcs.
40500095	250 mm (10") dia. 5 pcs.
40500073	300 mm (12") dia. 5 pcs.
40500150	350 mm (14") dia. 5 pcs.

MD-Plus

40500089	Polishing cloth for one step polishing of sintered carbides and steels. Synthetic nap. For magnetic fixation on MD-Disc 200 mm (8") dia. 5 pcs.
40500090	250 mm (10") dia. 5 pcs.
40500091	300 mm (12") dia. 5 pcs.
40500151	350 mm (14") dia. 5 pcs.

MD-Mol

40500077	Polishing cloth for polishing of ferrous and non-ferrous metals and polymers. Taffeta woven 100 % wool. For magnetic fixation on MD-Disc 200 mm (8") dia. 5 pcs.
40500078	250 mm (10") dia. 5 pcs.
40500079	300 mm (12") dia. 5 pcs.
40500152	350 mm (14") dia. 5 pcs.

MD-Mol APS

40500155	Polishing cloth to be used on automatic preparation systems for polishing of ferrous and non-ferrous metals and polymers. Taffeta woven 100 % wool. For magnetic fixation on MD-Disc 300 mm (12") dia. 5 pcs.
40500156	350 mm (14") dia. 5 pcs.

MD-Nap

40500080	Polishing cloth for final polishing of all materials. Short synthetic nap. For magnetic fixation on MD-Disc 200 mm (8") dia. 5 pcs.
40500081	250 mm (10") dia. 5 pcs.
40500082	300 mm (12") dia. 5 pcs.
40500153	350 mm (14") dia. 5 pcs.

MD-Chem

40500092	Polishing cloth for final polishing of all materials. Porous neoprene. For magnetic fixation on MD-Disc 200 mm (8") dia. 5 pcs.
40500093	250 mm (10") dia. 5 pcs.
40500094	300 mm (12") dia. 5 pcs.
40500154	350 mm (14") dia. 5 pcs.

MD-Chem NonStick

40500410	Polishing cloth for final polishing of all materials. Porous neoprene with grooves to prevent adhesion of large specimens. For magnetic fixation on MD-Disc 300 mm (12") dia. 5 pcs.
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MD-Floc

40500403	Polishing cloth for polishing of all materials. Synthetic nap. For magnetic fixation on MD-Disc 200 mm (8") dia. 5 pcs.
40500404	250 mm (10") dia. 5 pcs.
40500405	300 mm (12") dia. 5 pcs.
40500419	350 mm (14") dia. 5 pcs.

MD-Sat

40500406	Polishing cloth for fine grinding and polishing of ferrous and non-ferrous metals, coatings and plastics. Is used for diamond with particle size 9 - 3 μm . Woven acetate. For magnetic fixation on MD-Disc. 200 mm (8") dia. 5 pcs.
40500407	250 mm (10") dia. 5 pcs.
40500408	300 mm (12") dia. 5 pcs.



DP/OP-Polishing Cloths



OP-Nat



MD-Rondo

Diamond and Oxide Polishing Cloths**DP-Plan**

40500200	Polishing cloth for fine grinding of soft metals and pre-polishing of hard materials. Is used for diamond with particle size 15 - 3 μm . Coated, woven polyester. Self-adhesive 200 mm (8") dia. 5 pcs.
40500201	250 mm (10") dia. 5 pcs.
40500202	300 mm (12") dia. 5 pcs.

DP-Pan

40500161	Polishing cloth for fine grinding of soft metals and pre-polishing of hard and brittle materials. Impregnated non-woven technical textile. Self-adhesive 200 mm (8") dia. 5 pcs.
40500162	250 mm (10") dia. 5 pcs.
40500163	300 mm (12") dia. 5 pcs.

DP-Dur

40500208	Polishing cloth for fine grinding and polishing of ferrous and non-ferrous metals, coatings and plastics. Is used for diamond with particle size 9 - 1 μm . Satin woven natural silk. Self-adhesive 200 mm (8") dia. 5 pcs.
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DP-Dur

40500209	250 mm (10") dia. 5 pcs.
40500210	300 mm (12") dia. 5 pcs.

DP-Plus

40500224	Polishing cloth for one step polishing of sintered carbides and steels. Synthetic nap. Self-adhesive 200 mm (8") dia. 5 pcs.
40500225	250 mm (10") dia. 5 pcs.
40500226	300 mm (12") dia. 5 pcs.

DP-Mol

40500220	Polishing cloth for polishing of ferrous and non-ferrous metals and polymers. Taffeta woven 100 % wool. Self-adhesive 200 mm (8") dia. 5 pcs.
40500221	250 mm (10") dia. 5 pcs.
40500222	300 mm (12") dia. 5 pcs.

DP-Nap

40500232	Polishing cloth for final polishing of all materials. Short synthetic nap. Self-adhesive 200 mm (8") dia. 5 pcs.
40500233	250 mm (10") dia. 5 pcs.
40500234	300 mm (12") dia. 5 pcs.

DP-Dac

40500212	Polishing cloth for polishing of all materials. Is used for diamond with particle size 9 - 3 µm. Satin woven acetate. Self-adhesive 200 mm (8") dia. 5 pcs.
40500213	250 mm (10") dia. 5 pcs.
40500214	300 mm (12") dia. 5 pcs.

OP-Felt

40500300	Polishing cloth for polishing of ferrous and non-ferrous metals. Is used for alumina with particle size ≤ 9 µm. Thick wool felt. Self-adhesive. 200 mm (8") dia. 5 pcs.
40500301	250 mm (10") dia. 5 pcs.
40500302	300 mm (12") dia. 5 pcs.

OP-Chem

40500308	Polishing cloth for final polishing of all materials. Is used for oxide polishing with particle size < 1µm. Porous neoprene. Self-adhesive. 200 mm (8") dia. 5 pcs.
40500309	250 mm (10") dia. 5 pcs.
40500310	300 mm (12") dia. 5 pcs.

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DP-Sat

40500216	Polishing cloth for fine grinding and polishing of ferrous and non-ferrous metals, coatings and plastics. Is used for diamond with particle size 9 - 3 µm. Woven acetate. Self-adhesive 200 mm (8") dia. 5 pcs.
40500217	250 mm (10") dia. 5 pcs.
40500218	300 mm (12") dia. 5 pcs.

DP-Floc

40500228	Polishing cloth for polishing of all materials. Synthetic nap. Self-adhesive 200 mm (8") dia. 5 pcs.
40500229	250 mm (10") dia. 5 pcs.
40500230	300 mm (12") dia. 5 pcs.

OP-Nat

40500304	Polishing cloth for polishing of ferrous metals. Is used for alumina with particle size ≤ 9 µm. Woven wool felt. Self-adhesive 200 mm (8") dia. 5 pcs.
40500305	250 mm (10") dia. 5 pcs.
40500306	300 mm (12") dia. 5 pcs.

MD-Rondo

40503000	Adapter disc for application of self-adhesive consumables to MD-Disc 200 mm (8") dia. 5 pcs.
40503001	250 mm (10") dia. 5 pcs.
40503002	300 mm (12") dia. 5 pcs.
40503082	350 mm (14") dia. 5 pcs.

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Visit our new WebShop for fast and easy ordering. You can browse the full selection of Struers consumables, order on the go with a new mobile-friendly interface and enjoy simple ordering and fast delivery

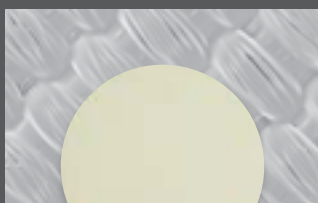
LEARN MORE





POLISHING CLOTHS

Choose your ideal polishing cloth



MD-Plan & DP-Plan

- Version for magnetic fixation (MD) or self-adhesive (DP)
- Coarse polishing of soft metals
- Fine polishing of hard materials
- Woven
- Diamond 15 - 3 μm



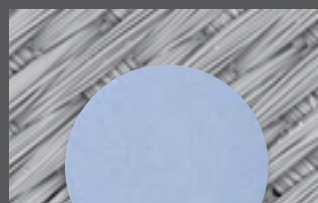
MD-Pan & DP-Pan

- Version for magnetic fixation (MD) or self-adhesive (DP)
- Coarse polishing of soft metals
- Fine polishing of hard and brittle material
- Non-woven
- Diamond 15 - 1 μm



MD-Sat & DP-Sat

- Version for magnetic fixation (MD) or self-adhesive (DP)
- Coarse and fine polishing of ferrous metals, non-ferrous metals and coatings and plastics
- Woven
- Diamond 9 - 3 μm



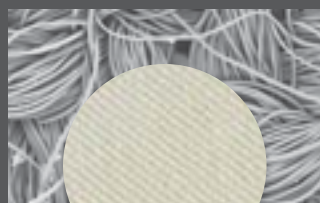
MD-Dac & DP-Dac

- Version for magnetic fixation (MD) or self-adhesive (DP)
- Coarse and fine polishing of all materials
- Woven
- Diamond 9 - 3 μm



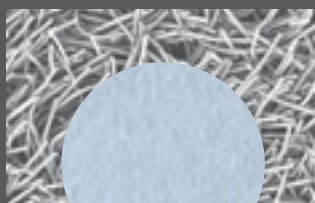
MD-Dur & DP-Dur

- Version for magnetic fixation (MD) or self-adhesive (DP)
- Coarse and fine polishing of ferrous metals, non-ferrous metals, coatings, ceramics and plastics
- Woven
- Diamond 9 - 1 μm



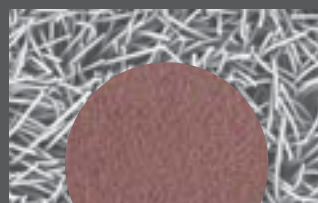
MD-Mol, MD-Mol APS & DP-Mol

- Version for magnetic fixation (MD) or self-adhesive (DP)
- Version available (MD-Mol APS) for fully automated preparation equipment
- Fine polishing of ferrous and non-ferrous metals and polymers
- Woven
- Diamond $\leq 3 \mu\text{m}$



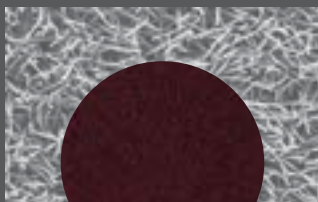
MD-Plus & DP-Plus

- Version for magnetic fixation (MD) or self-adhesive (DP)
- Fine polishing of sintered carbides and steels
- Napped
- Diamond 3 μm



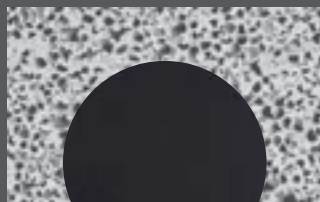
MD-Floc & DP-Floc

- Version for magnetic fixation (MD) or self-adhesive (DP)
- Fine and ultra-fine polishing of all materials
- Napped
- Diamond or oxide polishing $\leq 3 \mu\text{m}$



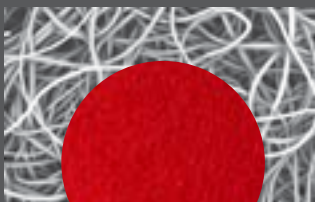
MD-Nap & DP-Nap

- Version for magnetic fixation (MD) or self-adhesive (DP)
- Fine and ultra-fine polishing of all materials
- Napped
- Diamond or oxide polishing $\leq 1 \mu\text{m}$



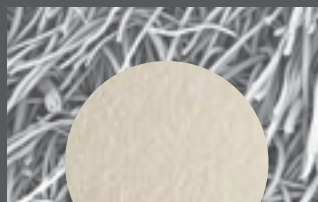
MD-Chem & OP-Chem

- Version for magnetic fixation (MD) or self-adhesive (DP)
- Version available (MD-Chem NonStick) to avoid suction of large specimens
- Ultra-fine polishing of all materials
- Woven
- Oxide polishing $\leq 1 \mu\text{m}$



OP-Nat

- For self-adhesive fixation
- Coarse, fine and ultra-fine polishing of ferrous metals
- Woven
- Alumina $\leq 9 \mu\text{m}$



OP-Felt

- For self-adhesive fixation
- Coarse, fine and ultra-fine polishing of non-ferrous metals
- Alumina $\leq 9 \mu\text{m}$

BUY IN WEBSHOP





Diamond products



DiaPro

Diamond Products

DiaPro	
40600500	DiaPro Pan 15 μm For high-performance metallographic pre-polishing on MD-Pan and DP-Pan. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600503	4 l
40600505	DiaPro Allegro/Largo 9 μm For high-performance metallographic fine grinding on MD-Allegro and MD-Largo. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600507	2 l
40600508	6 l (3 x 2 l)
40600510	DiaPro Plan 9 μm For high-performance metallographic fine grinding on MD-Plan and DP-Plan. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600513	4 l
40600515	DiaPro Sat 6 μm For high-performance metallographic polishing on MD-Sat and DP-Sat. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600518	4 l
40600520	DiaPro Largo 3 μm For high-performance metallographic polishing on MD-Largo. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600523	4 l

DiaPro

40600525	DiaPro Mol B 3 µm For high-performance materialographic polishing of hard materials (>150 HV) on MD-Mol and DP-Mol. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600528	4 l
40600530	DiaPro Mol R 3 µm For high-performance materialographic polishing of soft materials (<150 HV) on MD-Mol and DP-Mol. Stable diamond suspension containing a unique mixture of high-performance diamonds and smearing lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600533	4 l
40600535	DiaPro Dur 3 µm For high-performance materialographic polishing on MD-Dur and DP-Dur. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600538	4 l
40600540	DiaPro Dac 3 µm For high-performance materialographic polishing on MD-Dac and DP-Dac. Stable water-based diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600542	2 l
40600543	6 l (3 x 2 l)
40600545	DiaPro Plus 3 µm For high-performance materialographic polishing on MD-Plus and DP-Plus. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600548	4 l
40600550	DiaPro Floc 3 µm For high-performance materialographic polishing on MD-Floc and DP-Floc. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600553	4 l
40600555	DiaPro Dur 1 µm For high-performance materialographic polishing on MD-Dur and DP-Dur. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600558	4 l

DiaPro

40600560	DiaPro Nap B 1 µm For high-performance materialographic polishing of hard materials (>150 HV) on MD-Nap and DP-Nap. Stable water-based diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600562	2 l
40600563	6 l (3 x 2 l)
40600565	DiaPro Nap R 1 µm For high-performance materialographic polishing of soft materials (<150 HV) on MD-Nap and DP-Nap. Stable diamond suspension containing a unique mixture of high-performance diamonds and smearing lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600568	4 l
40600570	DiaPro Nap ¼ µm For high-performance materialographic polishing on MD-Nap and DP-Nap. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication 500 ml
40600573	4 l



DiaDuo



DP-Spray, M and P



DP-Stick P



DP-Paste P

DiaDuo

40600670	DiaDuo-2 All-purpose diamond suspension for materialographic fine grinding and polishing. Diamond suspension and cooling lubricant combined into one product. Does not contain solvents 1 µm. 500 ml
40600673	1 µm. 4 l
40600665	3 µm. 500 ml
40600668	3 µm. 4 l
40600660	6 µm. 500 ml
40600663	6 µm. 4 l
40600655	9 µm. 500 ml
40600658	9 µm. 4 l
40600650	15 µm. 500 ml
40600653	15 µm. 4 l



DP-Suspension P



DP-Suspension M



DP-Suspension A

DP-Suspension P

40600229 Stable water-based polycrystalline diamond suspension in pump bottle for manual application. To be used in combination with DP-Lubricants. Lubricants ensure correct cooling and smearing of the material surface

1 µm. 125 ml

40600228 3 µm. 125 ml

40600227 6 µm. 125 ml

40600430 High performance diamond product containing exclusively polycrystalline diamonds. Stable suspension, designed for automatic dosing machines

0.1 µm. 500 ml

40600425 0.25 µm. 500 ml

40600427 0.25 µm. 2 l

40600420 1 µm. 500 ml

40600422 1 µm. 2 l

40600423 1 µm. 6 l (3 x 2 l)

40600415 3 µm. 500 ml

40600417 3 µm. 2 l

40600418 3 µm. 6 l (3 x 2 l)

40600410 6 µm. 500 ml

40600412 6 µm. 2 l

40600413 6 µm. 6 l (3 x 2 l)

40600405 9 µm. 500 ml

40600407 9 µm. 2 l

40600408 9 µm. 6 l (3 x 2 l)

40600400 15 µm. 500 ml

40600402 15 µm. 2 l

DP-Suspension M

40600455 High performance diamond product containing monocrystalline diamonds. Stable suspension, designed for automatic dosing machines

1 µm. 500 ml

40600457 1 µm. 2 l

40600458 1 µm. 6 l (3 x 2 l)

40600450 3 µm. 500 ml

40600452 3 µm. 2 l

40600453 3 µm. 6 l (3 x 2 l)

40600445 6 µm. 500 ml

40600447 6 µm. 2 l

*** Hazardous goods fee per shipment

Find Safety Data Sheets (SDS) on [struers.com](https://www.struers.com)**DP-Suspension M**

40600448	6 µm. 6 l (3 x 2 l)
40600440	9 µm. 500 ml
40600442	9 µm. 2 l
40600443	9 µm. 6 l (3 x 2 l)
40600435	15 µm. 500 ml
40600437	15 µm. 2 l

DP-Suspension A

40600352***	High performance diamond product containing polycrystalline diamonds. Alcohol based. Water content < 0.5 % w/w. For highest efficiency in materiallographic polishing of water sensitive materials. Stable suspension ¼ µm. 500 ml
40600351	1 µm. 500 ml
40600350***	3 µm. 500 ml
40600349***	High performance diamond product containing M+ diamonds. Alcohol based. Water content < 0.5 % w/w. For highest efficiency in materiallographic fine grinding and polishing of water sensitive materials. Stable suspension 6 µm. 500 ml
40600348***	9 µm. 500 ml
40600347***	15 µm. 500 ml

DP-Spray P

40600144***	High performance diamond product containing exclusively polycrystalline diamonds. In spray can 1/4 µm. 150 ml
40600145***	1 µm. 150 ml
40600146***	3 µm. 150 ml
40600147***	6 µm. 150 ml
40600148***	9 µm. 150 ml
40600149***	15 µm. 150 ml
40600150***	35 µm. 150 ml

DP-Spray M

40600151***	High performance diamond product containing monocrystalline diamonds. In spray can 1 µm. 150 ml
40600152***	3 µm. 150 ml
40600153***	6 µm. 150 ml
40600154***	9 µm. 150 ml
40600155***	15 µm. 150 ml

DP-Stick P

40600313	Diamond wax in stick applicator. To be used in combination with DP-Lubricants. Lubricants ensure correct cooling and lubricating of the material surface ¼ µm. 24 g
40600312	1 µm. 24 g
40600311	3 µm. 24 g
40600310	6 µm. 24 g
40600309	9 µm. 24 g
40600308	15 µm. 24 g

DP-Paste P

40600028	High performance diamond product containing exclusively polycrystalline diamonds. In cartridge ¼ µm. 10 g
40600027	1 µm. 10 g
40600026	3 µm. 10 g
40600025	6 µm. 10 g
40600024	9 µm. 10 g
40600023	15 µm. 10 g

DP-Paste M

40600020	High performance diamond product containing monocrystalline diamonds. In cartridge ¼ µm. 10 g
40600019	1 µm. 10 g
40600018	3 µm. 10 g
40600017	6 µm. 10 g
40600016	9 µm. 10 g
40600015	15 µm. 10 g

DP-Lubricant
Green

DP-Lubricant Blue

DP-Lubricant
Purple

DP-Lubricant Red

DP-Lubricant
BrownDP-Lubricant
Yellow**DP-Lubricant**

40700101	DP-Lubricant Green Cooling and lubricating agent for fine grinding and diamond polishing of most materials. Water based 1 l
40700103	4 l
407001	12 l (3 x 4 l)

DP-Lubricant

40700005***	DP-Lubricant Blue Cooling and lubricating agent for fine grinding and diamond polishing of most materials. Alcohol-based with ethanediol 1 l
40700006***	5 l
40700056***	10 l
40700059***	DP-Lubricant Purple Cooling and lubricating agent for fine grinding and diamond polishing of most materials. Alcohol-based with propylene glycol 1 l
40700060***	5 l
40700061***	10 l
40700116	DP-Lubricant Red Lubricating agent for fine grinding and diamond polishing of softer materials. Oil in water emulsion 1 l
40700118	4 l
40700072	10 l
40700028***	DP-Lubricant Brown Cooling and lubricating agent for fine grinding and diamond polishing of water sensitive materials. Alcohol-based with polyethylene glycol 1 l
40700126***	DP-Lubricant Yellow Lubricating agent for fine grinding and diamond polishing of softer water sensitive materials. Alcohol-based 1 l

Others

40700031	Dosing Gun For dosing a specific amount of all diamond suspensions and lubricants. Non-aerosol pressurized dosing bottle 500 ml
40700068	Pump Bottle For manual dispensing of diamond suspension or lubricant 150 ml
40700032	Squeeze Bottle For manual dosing of diamond suspension or lubricant 250 ml



OP-S NonDry



OP-S



AP-A Powder

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Oxide Polishing

OP-S NonDry

40700206	Non-drying fumed silica suspension for final polishing. Suitable for mixing with chemical additives for polishing of resistant materials. Ready to use. For preparing on pure non-ferrous metals the regular OP-S is recommended. 0.25 μ . 1 l
40700208	0.25 μ m. 4 l

OP-S

40700201	OP-S Standard fumed silica suspension for final polishing. Suitable for mixing with chemical additives for polishing of resistant materials. Ready to use. 0.25 μ . 1 l
40700203	0.25 μ m. 4 l

OP-U NonDry

40700216	Non-drying colloidal silica suspension for final polishing of all materials. Ready to use 0.04 μ m. 1 l
40700218	0.04 μ m. 4 l

OP-U

40700211	Standard colloidal silica suspension for final polishing of all materials. Ready to use. 0.04 μ . 1 l
40700213	0.04 μ m. 4 l

OP-A

40700220	Acidic alumina suspension for final polishing of low- and high-alloy steels, nickel-base alloys and ceramics. Concentrated 0.1 μ m. 500 ml
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AP-Products

40700049	AP-A Powder Agglomerated alpha alumina powder for polishing. To be mixed with demineralized water before use 0.3 μ m. 1 kg
40700048	1 μ m. 1 kg
40700047	5 μ m. 1 kg



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LAUNCHING NEW BOTTLES FOR CONSUMABLES

We are proud to present redesigned bottles for consumables.

The new consumable bottles are a great addition to a tidy and organized lab. However, to connect the bottles with your existing equipment, you might need one or more of our free of charge Retrofit Kits.



////////////////////

TAKE ADVANTAGE FROM...

- ✓ Automatic detection of liquid
- ✓ Easy connectors for quick change
- ✓ Zero risk of spillage



AP-Products

40700041	AP-D Powder Deagglomerated gamma alumina powder for polishing. To be mixed with demineralized water before use 0.05 µm. 1 kg
40700040	Deagglomerated alpha alumina powder for polishing. To be mixed with demineralized water before use 0.1 µm. 1 kg
40700039	0.3 µm. 1 kg
40700038	1 µm. 1 kg

Electrolytes

40900008***	Electrolyte A2 For electrolytic polishing of steel, stainless steel, aluminum and aluminum alloys, nickel alloys, tin and titanium. All-round electrolyte for LectroPol, Polectrol, TenuPol and Movipol 1 l
40900011***	Electrolyte A3 For electrolytic polishing of molybdenum, titanium, zirconium and vanadium. For LectroPol, Polectrol, Movipol and TenuPol 1 l
40900032***	Electrolyte D2 Electrolyte for copper and copper alloys. For LectroPol, Polectrol, Movipol and TenuPol- 1 l

Replication

Transcopy

40900090***	Transcopy Kit For making replica of polished and etched surfaces. Self-adhesive reflective Transcopy Replica Foil creates a permanent replication of microstructures, cracks and defects for future analysis in the laboratory 50 pcs. 20 x 30 mm replica foils, 40 ml liquid, spray nozzle, pipette and microscope slides
40900092***	Transcopy Liquid For Transcopy Replica Foils (40900091) 40 ml
40900091	Transcopy Replica Foils Reflective metallographic replica foils. Self-adhesive. Foil thickness app. 280-300 µm. Transcopy Liquid (40900092) is ordered separately. 20 x 30 mm. 50 pcs.

RepliSet 50 ml Cartridges

40900069	RepliSet-F1 Replication system. Particularly useful for replicating horizontal or sloping surfaces in low temperature conditions or where rapid results are required. Fluid rapid curing compound with working life of 0.5 - 1 min. and curing time of 4 min. at 25° C. Dispensing gun (40900066) and static-mixing nozzles (40900088) are ordered separately 1 cartridge of 50 ml
40900047	5 cartridges of 50 ml
40900068	RepliSet-F5 Replication system. General-purpose material. Particularly useful for replicating horizontal or sloping surfaces in normal or high temperature conditions. Fluid fast curing compound with working life of 5 min. and curing time of 18 min. at 25° C. Dispensing gun (40900066) and static-mixing nozzles (40900088) are ordered separately 1 cartridge of 50 ml
40900046	5 cartridges of 50 ml
40900071	RepliSet-T1 Replication system. Particularly useful for replicating vertical or overhead surfaces in low temperature conditions or where rapid results are required. Thixotropic rapid curing compound with working life of 0.5 - 1 min. and curing time of 4 min. at 25° C. Dispensing gun (40900066) and static-mixing nozzles (40900088) are ordered separately 1 cartridge of 50 ml
40900049	5 cartridges of 50 ml
40900070	RepliSet-T3 Replication system. General-purpose material. Particularly useful for replicating vertical or overhead surfaces in normal or high temperature conditions. Thixotropic fast curing compound with working life of 3 min. and curing time of 10 min. at 25° C. Dispensing gun (40900066) and static-mixing nozzles (40900088) are ordered separately 1 cartridge of 50 ml
40900048	5 cartridges of 50 ml



Surface facing	Temperature of surface	Working life	Recommended compound
Horizontal, sloping	> 20°C	Normal	RepliSet-F5
		Short	RepliSet-F1/GF1
	< 20°C	Normal	
Vertical, overhead	> 20°C	Normal	RepliSet-T3
		Short	RepliSet-T1/GT1
	< 20°C	Normal	

BUY IN WEBSHOP



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RepliSet 50 ml Cartridges

40900078	RepliSet-GF1 Replication system especially for comparator macroscopy and metrology. Particularly useful for replicating horizontal or sloping surfaces and filling holes. Fluid rapid curing compound with working life of 0.5 - 1 min. and curing time of 4 min. at 25° C. Dispensing gun (40900066) and static-mixing nozzles (40900088) are ordered separately 1 cartridge of 50 ml
40900076	5 cartridges of 50 ml
40900079	RepliSet-GT1 Replication system especially for comparator macroscopy and metrology. Particularly useful for replicating vertical or overhead surfaces. Thixotropic rapid curing compound with working life of 0.5 - 1 min. and curing time of 4 min. at 25° C. Dispensing gun (40900066) and static-mixing nozzles (40900088) are ordered separately 1 cartridge of 50 ml
40900077	5 cartridges of 50 ml

RepliSet 265 ml Cartridges

40900050	RepliSet-F5 Replication system. General-purpose material. Particularly useful for replicating horizontal or sloping surfaces in normal or high temperature conditions. Fluid fast curing compound with working life of 5 min. and curing time of 18 min. at 25°C. Dispensing gun (40900065) and static-mixing nozzles (40900056) are ordered separately 2 cartridges of 265 ml
40900051	RepliSet-F1 Replication system. Particularly useful for replicating horizontal or sloping surfaces in low temperature conditions or where rapid results are required. Fluid rapid curing compound with working life of 0.5 - 1 min. and curing time of 4 min. at 25° C. Dispensing gun (40900065) and static-mixing nozzles (40900056) are ordered separately 2 cartridges of 265 ml
40900052	RepliSet-T3 Replication system. General-purpose material. Particularly useful for replicating vertical or overhead surfaces in normal or high temperature conditions. Thixotropic fast curing compound with working life of 3 min. and curing time of 10 min. at 25° C. Dispensing gun (40900065) and static-mixing nozzles (40900056) are ordered separately 2 cartridges of 265 ml
40900053	RepliSet-T1 Replication system. Particularly useful for replicating vertical or overhead surfaces in low temperature conditions or where rapid results are required. Thixotropic rapid curing compound with working life of 0.5 - 1 min. and curing time of 4 min. at 25° C. Dispensing gun (40900065) and static-mixing nozzles (40900056) are ordered separately 2 cartridges of 265 ml

Static-mixing Nozzles

40900088	For RepliSet replication compound in 50 ml cartridges 35 pcs.
40900056	For RepliSet replication compound in 265 ml cartridges 10 pcs.

Backing Material, Nozzle Tips

40900087	Backing Slides For RepliSet replication system. A flexible plastic slide, which bonds to the replica and ensures a flat back to the replica. For levelling of replicas to assist microscopic examination, as dimensional support for metrology and for well-ordered labelling, transport and storage of RepliSet replicas 26 x 76 x 1 mm, 50 pcs.
40900064	58 x 40 x 1 mm, 50 pcs.
40900062	Backing Paper For RepliSet replication system. Bonds to the replica and facilitates labelling, handling and the levelling of replicas to assist microscopic examination 60 x 70 mm. 100 pcs.
40900063	For RepliSet replication system. Bonds to the replica and facilitates labelling, handling and the levelling of replicas to assist microscopic examination. For cutting up to the required size A4 (210 x 297 mm). 10 pcs.
40900089	Nozzle Tips For replicating flat surfaces using RepliSet (particularly with RepliSet-T types). Fishtail spreaders, 10 mm width. To be mounted on 50 ml static-mixing nozzle (40900088) 30 pcs.
40900060	For replicating small holes using RepliSet. Luer needle, app. 1 mm dia., 30-38 mm long. Reusable several times. To be mounted on 50 ml static-mixing nozzle (40900088) 10 pcs.
40900061	For replicating larger holes using RepliSet. Flexible hose, 6 mm dia., 100 mm long. Reusable several times. To be mounted on 50 ml static-mixing nozzle (40900088) 10 pcs.

RepliFix

40900084	RepliFix-2 Specially formulated hand mixed fast curing two-part silicone rubber. Bonds to RepliSet. Particularly useful in combination with RepliSet for producing a rigid backing. It can be used directly for moulding of surface shape for profile measurement. For low temperature conditions or where rapid results are required. Working life of 2-3 min. and curing time of 10 min. at 25° C 250 g RepliFix-2, Yellow, 250 g RepliFix-2, Blue, protective gloves
40900086	RepliFix-20 Specially formulated hand mixed two-part silicone rubber. Bonds to RepliSet. Particularly useful in combination with RepliSet for producing a rigid backing. It can be used directly for moulding of surface shape for profile measurement. For high temperature conditions or for taking replicas of complicated geometry or large areas. Working life of 20 min. and curing time of 60 min. at 25° C 250 g RepliFix-20, Yellow, 250 g RepliFix-20, Blue, protective gloves

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VERIFICATION

Struers Verification Consumables

Predictable hardness testing quality can only be achieved with confidence by using a hardness tester that is correctly maintained and that has been calibrated according to internationally accredited calibration standards.

Calibration Results

We recommend that you verify the calibration of your equipment on a regular basis, ensuring the reproducibility and reliability of your hardness testing results.



BRINELL TEST BLOCKS (WITH OR WITHOUT CERTIFICATE)

The Brinell hardness test is used for larger specimens in materials with a coarse or inhomogeneous grain structure. Before performing the Brinell hardness test, the surface of the specimen must be prepared.

We recommend you verify the calibration of your equipment on a regular basis ensuring reproducibility and reliability of your hardness testing results.

It must be either:

Machined – Ground – Lapped – Polished

Brinell		Hardness						
Test method	Load Factor	40	70	100	150	170	200	250
HBW 1/30	HB30			056483002	056483003	056483004	056483005	056483006
HBW 2.5/187.5				056482402	056482403	056482404	056482405	056482406
HBW 5/750				056481502	056481503	056481504	056481505	056481506
HBW 10/3000				056481002	056481003	056481004	056481005	056481006
HBW 1/10	HB10	056483100	056483101	056483102	056483103	056483104	056483105	
HBW 2.5/62.5		056482500	056482501	056482502	056482503	056482504	056482505	
HBW 5/250			056481601	056481602	056481603	056481604	056481605	
HBW 10/1000			056481201	056481202	056481203	056481204	056481205	
HBW 1/5	HB5	056483200	056483201	056483202				
HBW 2.5/31.25		056482600	056482601	056482602				
HBW 5/125		056482100	056482101	056482102				
HBW 10/500			056481301	056481302				
HBW 1/2.5	HB2.5	056483300						
HBW 2.5/15.625		056482700						
HBW 5/62.5		056482200						

Brinell (Heavy load)

All blocks will be supplied within ± 15 HB of the nominal value.

Block size: 150 mm x 125 mm x 16 mm thickness.

Brinell (light load)

All blocks will be supplied within ± 15 HB of the nominal value.

Block size: 64 mm diameter x 15 mm thickness.

Add a C for Certificate. Example: : 056481005 without certificate and 056481005C with Certificate included.

Test block material:

Black = Steel

Blue = Aluminum

Please contact your local Struers representative, if you wish to add additional calibration and grid on the test block.



Test Blocks

	300	350	400	450	500	550	600	650
5	056483007	056483008	056483009	056483010	056483011	056483012	056483013	056483014
5	056482407	056482408	056482409	056482410	056482411	056482412	056482413	056482414
5	056481507	056481508	056481509	056481510	056481511	056481512	056481513	056481514
5	056481007	056481008	056481009	056481010	056481011	056481012	056481013	056481014

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VICKERS TEST BLOCKS (WITH OR WITHOUT CERTIFICATE)

The Vickers hardness test is suitable for a wide range of applications, including micro hardness testing. The required surface condition for the Vickers hardness test depends on the load used.

Macro test blocks (loads higher than 1 kgf)

– Surface should be ground

Micro test blocks (loads below or equal to 1 kgf)

– Surface should be mechanically polished or electropolished

Steel and copper

– At least 3 diagonal widths between indentations

Lead, zinc and aluminum

– At least 6 diagonal widths between indentations

We recommend you verify the calibration of your equipment on a regular basis ensuring reproducibility and reliability of your test block results.

Vickers	Hardness									
Test method	40	70	100	150	200	250	300	350	400	450
HV0.010	056484000	056484001	056484002	056484003	056484005	056484006	056484007	056484008	056484009	056484010
HV0.025	056484100	056484101	056484102	056484103	056484105	056484106	056484107	056484108	056484109	056484110
HV0.050	056484200	056484201	056484202	056484203	056484205	056484206	056484207	056484208	056484209	056484210
HV0.1	056484300	056484301	056484302	056484303	056484305	056484306	056484307	056484308	056484309	056484310
HV0.2	056484400	056484401	056484402	056484403	056484405	056484406	056484407	056484408	056484409	056484410
HV0.3	056484500	056484501	056484502	056484503	056484505	056484506	056484507	056484508	056484509	056484510
HV0.5	056484600	056484601	056484602	056484603	056484605	056484606	056484607	056484608	056484609	056484610
HV1	056484700	056484701	056484702	056484703	056484705	056484706	056484707	056484708	056484709	056484710
HV2	056485000	056485001	056485002	056485003	056485005	056485006	056485007	056485008	056485009	056485010
HV3	056485100	056485101	056485102	056485103	056485105	056485106	056485107	056485108	056485109	056485110
HV5	056485200	056485201	056485202	056485203	056485205	056485206	056485207	056485208	056485209	056485210
HV10	056485300	056485301	056485302	056485303	056485305	056485306	056485307	056485308	056485309	056485310
HV20	056485400	056485401	056485402	056485403	056485405	056485406	056485407	056485408	056485409	056485410
HV30	056485500	056485501	056485502	056485503	056485505	056485506	056485507	056485508	056485509	056485510
HV50	056485600	056485601	056485602	056485603	056485605	056485606	056485607	056485608	056485609	056485610
HV100	056485700	056485701	056485702	056485703	056485705	056485706	056485707	056485708	056485709	056485710

Vickers, Micro

All blocks will be supplied within ± 25 HV of the nominal value.

Block size: 30 mm diameter x 10 mm thickness.

Vickers, Macro

All blocks will be supplied within ± 25 HV of the nominal value.

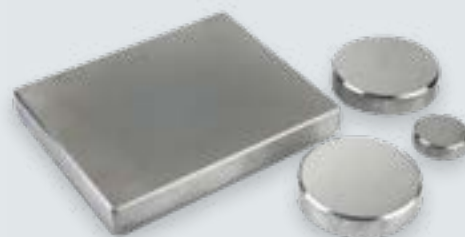
Block size: 64 mm diameter x 15 mm thickness.

Test block material:

Black = Steel

Blue = Aluminum

Please contact your local Struers representative, if you wish to add additional calibration and grid on the test block.



Test Blocks

500	550	600	650	700	750	800	850	900	950	1000	1050	1100
056484011	056484012	056484013	056484014	056484015	056484016	056484017	056484018	056484019	056484020	056484021	056484022	056484023
056484111	056484112	056484113	056484114	056484115	056484116	056484117	056484118	056484119	056484120	056484121	056484122	056484123
056484211	056484212	056484213	056484214	056484215	056484216	056484217	056484218	056484219	056484220	056484221	056484222	056484223
056484311	056484312	056484313	056484314	056484315	056484316	056484317	056484318	056484319	056484320	056484321	056484322	056484323
056484411	056484412	056484413	056484414	056484415	056484416	056484417	056484418	056484419	056484420	056484421	056484422	056484423
056484511	056484512	056484513	056484514	056484515	056484516	056484517	056484518	056484519	056484520	056484521	056484522	056484523
056484611	056484612	056484613	056484614	056484615	056484616	056484617	056484618	056484619	056484620	056484621	056484622	056484623
056484711	056484712	056484713	056484714	056484715	056484716	056484717	056484718	056484719	056484720	056484721	056484722	056484723
056485011	056485012	056485013	056485014	056485015	056485016	056485017	056485018	056485019	056485020	056485021	056485022	
056485111	056485112	056485113	056485114	056485115	056485116	056485117	056485118	056485119	056485120	056485121	056485122	
056485211	056485212	056485213	056485214	056485215	056485216	056485217	056485218	056485219	056485220	056485221	056485222	
056485311	056485312	056485313	056485314	056485315	056485316	056485317	056485318	056485319	056485320	056485321	056485322	
056485411	056485412	056485413	056485414	056485415	056485416	056485417	056485418	056485419	056485420	056485421	056485422	
056485511	056485512	056485513	056485514	056485515	056485516	056485517	056485518	056485519	056485520	056485521	056485522	
056485611	056485612	056485613	056485614	056485615	056485616	056485617	056485618	056485619	056485620	056485621	056485622	
056485711	056485712	056485713	056485714	056485715	056485716	056485717	056485718	056485719	056485720	056485721	056485722	

CUTTING

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KNOOP TEST BLOCKS (WITH OR WITHOUT CERTIFICATE)

The Knoop hardness test is an alternative to the Vickers test in the micro hardness testing range. Before application of the Knoop hardness test, you must prepare the surface of the material to be tested.

We recommend you verify the calibration of your equipment on a regular basis ensuring reproducibility and reliability of your hardness testing results.

The Knoop hardness test is used for micro hardness testing (loads below or equal to 1 kgf) and so the surface of the specimen material should be highly polished or electropolished before testing is performed.

Knoop	Hardness								
Test method	40	70	100	150	200	250	300	350	400
HK0.001	056487000	056487001	056487002	056487003	056487005	056487006	056487007	056487008	056487009
HK0.005	056487100	056487101	056487102	056487103	056487105	056487106	056487107	056487108	056487109
HK0.010	056487200	056487201	056487202	056487203	056487205	056487206	056487207	056487208	056487209
HK0.025	056487300	056487301	056487302	056487303	056487305	056487306	056487307	056487308	056487309
HK0.050	056487400	056487401	056487402	056487403	056487405	056487406	056487407	056487408	056487409
HK0.1	056487500	056487501	056487502	056487503	056487505	056487506	056487507	056487508	056487509
HK0.2	056487600	056487601	056487602	056487603	056487605	056487606	056487607	056487608	056487609
HK0.3	056487700	056487701	056487702	056487703	056487705	056487706	056487707	056487708	056487709
HK0.5	056487800	056487801	056487802	056487803	056487805	056487806	056487807	056487808	056487809
HK1	056487900	056487901	056487902	056487903	056487905	056487906	056487907	056487908	056487909

Knoop

All blocks will be supplied within ± 25 HK of the nominal value.

Block size: 30 mm diameter x 10 mm thickness.

Add a C for Certificate. Example: 056487005 without certificate and 056487005C with Certificate included.

Test block material:

Black = Steel

Blue = Aluminum

Please contact your local Struers representative, if you wish to add additional calibration and grid on the test block.



Test Blocks

450	500	550	600	650	700	750	800	850	900	950	1000
056487010	056487011	056487012	056487013	056487014	056487015	056487016	056487017	056487018	056487019	056487020	056487021
056487110	056487111	056487112	056487113	056487114	056487115	056487116	056487117	056487118	056487119	056487120	056487121
056487210	056487211	056487212	056487213	056487214	056487215	056487216	056487217	056487218	056487219	056487220	056487221
056487310	056487311	056487312	056487313	056487314	056487315	056487316	056487317	056487318	056487319	056487320	056487321
056487410	056487411	056487412	056487413	056487414	056487415	056487416	056487417	056487418	056487419	056487420	056487421
056487510	056487511	056487512	056487513	056487514	056487515	056487516	056487517	056487518	056487519	056487520	056487521
056487610	056487611	056487612	056487613	056487614	056487615	056487616	056487617	056487618	056487619	056487620	056487621
056487710	056487711	056487712	056487713	056487714	056487715	056487716	056487717	056487718	056487719	056487720	056487721
056487810	056487811	056487812	056487813	056487814	056487815	056487816	056487817	056487818	056487819	056487820	056487821
056487910	056487911	056487912	056487913	056487914	056487915	056487916	056487917	056487918	056487919	056487920	056487921

CUTTING

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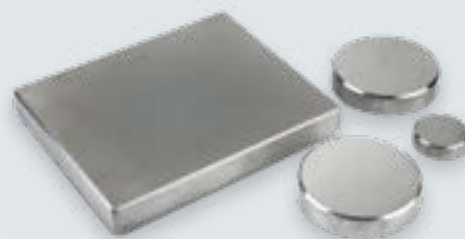
ACCESSORIES

ROCKWELL TEST BLOCKS (WITH OR WITHOUT CERTIFICATE)

Rockwell	Regular Scales								
Test Method	Hardness								
HRC	20 056486000	25 056486001	30 056486002	35 056486003	40 056486004	45 056486005	50 056486006	55 056486007	60 056486008
HRA	60 056486020	63 056486021	65 056486022	68 056486023	70 056486024	73 056486025	76 056486026	78 056486027	81 056486028
HRA	22 056486140	26 056486141	31 056486142	35 056486143	40 056486144	45 056486145	47 056486146	50 056486147	53 056486148
HRD	40 056486040	44 056486041	48 056486042	52 056486043	56 056486044	60 056486045	64 056486046	67 056486047	71 056486048
HRB	20 056486120	30 056486121	40 056486122	50 056486123	60 056486124	70 056486125	75 056486126	80 056486127	85 056486128
HRE	75 056486160	81 056486161	87 056486162	93 056486163	100 056486164				
HRF	74 056486170	80 056486171	86 056486172	91 056486173	97 056486174				
HRG	33 056486182	41 056486183	49 056486184	58 056486185	66 056486186	74 056486187	83 056486188		
HRH	94 056486190	98 056486191							
HRK	47 056486201	56 056486202	65 056486203	73 056486204	81 056486205	86 056486206	91 056486207	95 056486208	99 056486209
HRL	92 056486280	118 056486281	123 056486282						
HRM	67 056486290	107 056486291	118 056486292						
HRP	86 056486300	94 056486301	112 056486302						
HRR	105 056486310	123 056486311	126 056486312						
HRS	115 056486320	117 056486321	123 056486322						
HRV	107 056486330	109 056486331	120 056486332						

Rockwell	Superficial Scales								
Test Method	Hardness								
HR15N	72 056486061	75 056486062	78 056486063	81 056486064	83 056486065	85 056486066	88 056486067	90 056486068	91 056486069
HR30N	46 056486081	50 056486082	55 056486083	59 056486084	64 056486085	68 056486086	73 056486087	77 056486088	80 056486089
HR45N	25 056486101	31 056486102	37 056486103	43 056486104	49 056486105	55 056486106	61 056486107	66 056486108	70 056486109
HR15T	67 056486220	70 056486221	73 056486222	77 056486223	80 056486224	83 056486225	85 056486226	86 056486227	88 056486228
HR30T	29 056486240	36 056486241	43 056486242	49 056486243	56 056486244	63 056486245	66 056486246	69 056486247	73 056486248
HR45T	12 056486261	22 056486262	32 056486263	43 056486264	48 056486265	53 056486266	58 056486267	63 056486268	68 056486269
HR15W	84 056486340	87 056486341	94 056486342						
HR30W	67 056486350	73 056486351	87 056486352						
HR45W	50 056486360	59 056486361	80 056486362						
HR15X	92 056486370	93 056486371	96 056486372						
HR30X	82 056486380	84 056486381	92 056486382						
HR45X	72 056486390	76 056486391	85 056486392						
HR15Y	95 056486400	96 056486401	98 056486402						
HR30Y	90 056486410	91 056486411	95 056486412						
HR45Y	85 056486420	87 056486421	94 056486422						

63	65	67	68	69	70
056486009	056486010	056486011	056486012	056486013	056486014
83	84	85			
056486029	056486030	056486031			
55	59	62			
056486149	056486150	056486151			
73	74	77			
056486049	056486050	056486051			
90	95	100			
056486129	056486130	056486131			



Test Blocks

The Rockwell hardness test is a fast method, making it ideal for quick hardness testing. Rockwell hardness testing does not use optical measurement meaning specimen reflectiveness is not needed. Rockwell hardness testing can therefore be used on non-prepared surfaces.

We recommend you verify the calibration of your equipment on a regular basis ensuring reproducibility and reliability of your hardness testing results.

92	93	
056486070	056486071	
82	83	
056486090	056486091	
72	74	
056486110	056486111	
90	91	93
056486229	056486230	056486231
76	80	
056486249	056486250	

Rockwell

Test blocks HRC, HRA, HRD, HR15N, HR30N, HR45N will be supplied within ± 2 HR of the nominal value.

All other blocks will be supplied within ± 4 HR of the nominal value.

Block size: 64 mm diameter x 15 mm thickness.

Add a C for Certificate. Example: 056486004 without certificate and 056486004C with Certificate included.

Test block material:

Black = Steel

Blue = Aluminum

Please contact your local Struers representative, if you wish to add additional calibration and grid on the test block.



ACCESSORIES

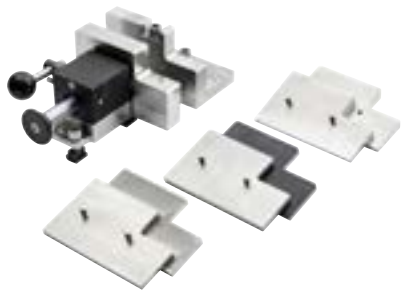
Struers offers a wide variety of tools and accessories, all developed with one principal purpose: to provide easier handling and more accurate specimen preparation.

In this section you will find accessories for:

- Cutting
- Mounting
- Grinding and polishing
- Automatic cleaning
- Non-destructive testing
- Hardness testing

Only Struers accessories are designed to get the most out of Struers equipment.





Quick clamping tool



Bolt clamping tool

Cutting

Clamping Tools

05036915	Vertical Clamping Tool For clamping irregularly shaped workpieces on the cutting table. Suitable for all machines with 8 mm T-slots. Clamping height is adjustable up to 58 mm. Complete with operating key and one flat clamping shoe. For 8 mm T-slots
05116905	For clamping irregularly shaped workpieces on the cutting table. Suitable for all machines with 10 mm T-slots. Clamping height is adjustable up to 58 mm. Complete with operating key and one flat clamping shoe. For 10 mm T-slots
05046904	For clamping irregularly shaped workpieces on the cutting table. Suitable for all machines with 12 mm T-slots. Clamping height is adjustable up to 105 mm. Complete with operating key and one flat clamping shoe. For 12 mm T-slots
05116910	Riser Block For elevating vertical clamping tool (05116905) when clamping high workpieces. To increase the clamping height by 60 mm For 10 mm T-slots
05876902	Customizable crown. Used with Support block (05876901 or 05876924), the crown offers a height adjustment range of 60-80 mm. 60-80 mm
05046905	For elevating vertical clamping tool (05046904) when clamping high workpieces. To increase the clamping height by 74 mm For 12 mm T-slots
05116911	Swivel Shoes Set of 4 multi-shaped swivel shoes for vertical clamping tool (05046904, 05116905 or 05036915)
05876903	Customizable crown. Used with Support block (05876901 or 05876924), the crown offers a height adjustment range of 80-100 mm. 80-100 mm
05046906	Arm Extension For extending arm of Vertical Clamping Tool (05036915, 05046904 and 05116905)
05876906	Turntable clamping tool 0-90 degree turntable for angular cutting. For use with various 12 mm T-slot clamping tools. Table height 42 mm. Table size 220 x 205 mm For 12 mm T-slots
05876904	Customizable crown. Used with Support block (05876901 or 05876924), the crown offers a height adjustment range of 100-120 mm. 100-120 mm

Clamping Tools

05876916	Jaws for quick clamping tools Set of 2 jaw blocks for optimum clamping of e.g. thin-walled tubes. For use with Quick clamping device for 12 mm T-slots, left (06316914) and right (06316916). Rubber-coated. For 12 mm T-slots
05876914	Set of 2 jaw blocks for optimum clamping of round and oval workpieces. For use with Quick clamping tool for 12 mm T-slots, left (05876911) and right (05876912). Prism-shaped. For 12 mm T-slots. Set of 2
06316928	Extended jaws for base plate clamping tools Set of 2 jaw blocks for optimum clamping of small, regular specimens. For use with Base Plate clamping tools for 10 mm and 12 mm T-slots, left and right Extended width. For 10-12 mm T-slots
05876918	Jaws for quick clamping tools Set of 2 jaw blocks for optimum clamping of regular workpieces. For use with Quick clamping tool for 12 mm T-slots, left (06316914) and right (06316916). Grooved. For 12 mm T-slots. Set of 2
05876913	Jaws for quick clamping tools Set of 2 jaw blocks for optimum clamping of round and oval workpieces. For use with Quick clamping tool for 10 mm T-slots, left (06316912) and right (06316915). Prism-shaped. For 10 mm T-slots. Set of 2
06316923	High Vertical Quick Clamping Tool For securing the workpiece on the left side of the cut-off wheel. Suitable for Labotom-15/-20 and Discotom-10/-100. Workpiece height: 85 - 35 mm For 10 mm T-Slots
05876915	Jaws for quick clamping tools Set of 2 jaw blocks for optimum clamping of sensitive specimens e.g. thin-walled tubes. For use with Quick clamping tool for 10 mm T-slots, left (06316912) and right (06316915). Rubber-coated. For 10 mm T-slots
05876917	Jaws for quick clamping tools Set of 2 jaw blocks for optimum clamping of regular workpieces. For use with Quick clamping tool for 10 mm T-slots, left (06316912) and right (06316915). Grooved. For 10 mm T-slots. Set of 2
05876905	Turntable clamping tool 0-90 degree turntable for angular cutting. For use with various 10 mm T-slot clamping tools. Table height 42 mm. Table size 185 x 140 mm For 10 mm T-slots
06316915	Quick Clamping Tool For securing the workpiece on the right side of the cut-off wheel. Suitable for all machines with 10 mm T-slots. Complete with backstop. Jaw movement: 50 mm. Jaw height: 58 mm Right. For 10 mm T-slots. Jaw movement 50 mm
06316912	Left. For 10 mm T-slots. Jaw movement 50 mm
06316916	Right. For 12 mm T-slots. Jaw movement 60 mm
06316914	Left. For 12 mm T-slots. Jaw movement 60 mm
05876926	Single Prism for Vertical Quick Clamping Tool Jaw block for optimum clamping of round and oval workpieces. For use with Vertical quick clamping tool for 10 mm T-slots, (06316922, 06316923). 1 pc.

Clamping Tools

05136903	Spring Clamp For retaining the workpiece on the right side of the cut-off wheel. Suitable for Labotom-5, Labotom-15/-20, Discotom-10 and Discotom-100. Complete with backstop and spanner. Right. For 10 mm T-slots
06316902	Adjustable stop for serial cutting Precise setting for repetitive cutting. Easy to adjust. Delivered with ruler for precise adjustment For 10-12 mm T-slots
05876927	Fixed Stand Stand for specimen holders with dovetail clamp. Manual positioning. Suitable for all machines with 10 mm T-slots.
05996916	Spring Clamp For retaining the workpiece on the left side of the cut-off wheel. For Secotom-15/-50/-20/-60. Complete with backstop and spanner. Left For 8 mm T-slots
06316919	Clamping set tool kit 10 mm Universal tools for T-slot type cutting tables For supporting and clamping of irregular shaped work pieces For 10 mm T-slots
06316920	Clamping set tool kit 12 mm Universal tools for T-slot type cutting tables For supporting and clamping of irregular shaped work pieces For 12 mm T-slots
06316901	Adjustable support for cylindrical parts Can be used for both longitudinal and cross sections. Easy to move and position on the cutting table. Can be adjusted for all different diameters For 10-12 mm T-slots
05876928	XL Quick Clamping Tool For securing regular workpieces on left side of cut-off wheel. Suitable for Magnutom-400/-500. Complete with backstop and spanner. Jaw movement: 60 mm. Jaw height: 116 mm.
06316918	Quick Clamping Tool with short stroke For securing the workpiece on the right side of the cut-off wheel. Suitable for all machines with 10 mm T-slots. Complete with backstop. Jaw movement: 12 mm. Jaw height: 58 mm Right. For 10 mm T-slots
06316917	Left. For 10 mm T-slots
06316921	Low Quick Clamping Tool For retaining the workpiece on the right side of the cut-off wheel. Suitable for all machines with 10 mm T-slots. Complete with backstop. Jaw movement: 50 mm. Jaw height: 42 mm For 10 mm T-Slots
06316922	Vertical Quick Clamping Tool For securing the workpiece on the left side of the cut-off wheel. Suitable for Labotom-5/-15, Discotom-10 and Discotom-100. Max height of workpiece: 50 mm For 10 mm T-Slots

Clamping Tools

06316907	Base plate clamping tool Designed to clamp small or odd-sized workpieces close to the cut-off wheel. Complete with tools for installation in T-slots and grooved jaws. Prism (06316929), Extended (06316927) and Rubber Coated (06316911) jaws available as accessories. Right. For 8 mm T-slots. Jaw movement 60 mm
06316906	Right. For 10 mm T-slots. Jaw movement 125 mm
06316905	Left. For 10 mm T-slots. Jaw movement 125 mm
06316909	Right. For 12 mm T-slots. Jaw movement 240 mm
06316908	Left. For 12 mm T-slots. Jaw movement 250 mm
06316930	Jaws for base plate clamping tools 10-12 mm Set of 2 jaw blocks for optimum clamping of round and oval workpieces. For use with Base Plate clamping tools for 10 mm and 12 mm T-slots, left and right. Prism-shaped. For 10-12 mm T-slots
06316926	Bolt clamping tool For longitudinal sectioning of bolts and fasteners. With ruler for easy positioning of the workpiece. Suitable for Secotom-15/-50/-20/-60. Clamping range 4-22 mm diameter. A tungsten carbide guide prevents the cut-off wheel from moving to the either side. Including screws, 3 pcs. 1 mm and 3 pcs. 0.5 mm shims. For 8 mm T-slots
05876929	XL Quick Clamping Tool For securing regular workpieces on right side of cut-off wheel. Suitable for Magnutom-400/-500. Complete with backstop and spanner. Jaw movement: 60 mm. Jaw height: 116 mm.
05876930	XL Jaws Set of 2 jaw blocks for optimum clamping of round and oval workpieces. For use with XL Quick clamping tool (058769XX).
05876931	XL Jaws Set of 2 jaw blocks for optimum clamping of regular workpieces. For use with XL Quick clamping tool (0587692X).
05876936	XL Vertical clamping tool, 12 mm T-slots For clamping irregularly shaped workpieces on the cutting table. Suitable for all machines with 12 mm T-slots. Clamping height is adjustable up to 176 mm (with riser block). Complete with operating key and one flat clamping shoe.
05876901	Support Block Turnable, horizontally and vertically adjustable support blocks. Height adjustment range: 20 mm. Used with customizable crowns: 60-80 mm (05876902), 80-100 mm (05876903) or 100-120 mm (05876904), which are ordered separately. Extra support blocks (05876923) can be added to the base plate For 12 mm T-slots
05876924	Support Block Turnable and vertically adjustable support block with 12 mm T-nut. Height adjustment range: 20 mm. Used with customizable Crowns: 60-80 mm (05876902), 80-100 mm (05876903) or 100-120 mm (05876904), which are ordered separately For 12 mm T-slots

Clamping Tools

06316904	Pinch-reduction clamping tool Tool that reduces pinching of the cut-off wheel when cutting workpieces with internal stress. Complete set with two jaw blocks (left+right), back stops and spanners For 10 mm T-slots
06316903	For 12 mm T-slots
05046912	Chain Spanner For clamping irregularly shaped workpieces. Complete with anchor block and operating key For 12 mm T-slots



EasyDoser

Hot Mounting

Dosing Units for Hot Mounting

05796902	EasyDoser Manual dosing unit for hot mounting presses. For Struers 1 kg hot mounting resins
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Wupty

Cold Mounting

Cold Mounting Accessories

05696901	Wupty Tool for pressing mounts out of FixiForm. Wupty can only be used with FixiForm, as we use the handles to secure it while pressing the mount out
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MD-Disc



MD-Aluminum disc



Wet Grinding Disc

CUTTING

MOUNTING

GRINDING

POLISHING

VERIFICATION

ACCESSORIES

Grinding and Polishing

MD-Disc

02426920	MD-Disc with driving pins Magnetic fixation disc for MD-System products 200 mm (8") dia.
02426919	250 mm (10") dia.
02426918	300 mm (12") dia.
02426933	350 mm (14") dia.

Grinding/polishing Discs

02426935	Wet Grinding Disc with driving pins Aluminium disc with retention ring. For use with plain back silicon carbide paper 200 mm (8") dia.
02426936	230 mm (9") dia.
02426915	250 mm (10") dia.
02426909	305 mm (12") dia.
03756902	Aluminium Disc with driving Pins For use with adhesive backed consumables. 200 mm (8") dia.
02426907	250 mm (10") dia.
02426906	300 mm (12") dia.
40800113	Magnetic Foil To be attached on standard aluminium preparation disc to transform it into a magnetic disc for the MD-System. Self-adhesive 200 mm (8") dia.
40800114	250 mm (10") dia.
40800115	300 mm (12") dia.

Acc. for Tegramin

06086401	MD-Disc with cone MD-Disc for use on Tegramin-20 and LaboPol-20. With cone for easy replacement 200 mm (8") dia.
06086402	MD-Disc for use on Tegramin-25 and LaboPol-30/-60. With cone for easy replacement 250 mm (10") dia.
06086403	MD-Disc for use on Tegramin-30 and LaboPol-30/-60. With cone for easy replacement 300 mm (12") dia.

Acc. for Tegramin

- 06086404 **Aluminium disc with cone**
Aluminium disc for use on Tegramin-20 and LaboPol-20. With cone for easy replacement
200 mm (8") dia.
- 06086405 Aluminium disc for use on Tegramin-25 and LaboPol-30/-60. With cone for easy replacement
250 mm (10") dia.
- 06086406 Aluminium disc for use on Tegramin-30 and LaboPol-30/-60. With cone for easy replacement
300 mm (12") dia.

Acc. For LaboPol-20/-30/-60

- 06206932 **Wet Grinding Disc with cone**
Aluminium, cone-type disc with retention ring. For use on LaboPol-30/-60 with plain back silicon carbide paper
230 mm dia.
- 06206918 250 mm (10") dia.
- 06206919 305 mm (12") dia.
- 06206924 **Wet Grinding Disc with cone**
Aluminium disc with retention ring. For use on LaboPol-20 with plain back silicon carbide paper. With cone for easy replacement
200 mm (8") dia.
- 06206917 **Cast iron disc for mineralogy, ø300 mm**
Concentrically grooved, cone-type disc for lapping mineralogical specimens on LaboPol-30/-60 (06336127/06346127). Made of special SiC-resistant cast iron alloy



Case



Dispensing Gun

TriPod

- 04386921 **Parallel Section Sample Mounts**
12.5 mm stainless steel sample mount for TriPod Polishing Fixture-P (04386201)
10 pcs.
- 04386922 12.5 mm aluminium sample mount for TriPod Polishing Fixture-P (04386201)
10 pcs.

TriPod

04386923	Cross Section Sample Mounts 12.5 mm stainless steel sample mount for TriPod Polishing Fixture-X (04386202) 10 pcs.
04386924	12.5 mm aluminium sample mount for TriPod Polishing Fixture-X (04386202) 10 pcs.
04386925	TriPod Supports Teflon feet for support of TriPod Polishing Fixture-X/-P. 04386202 or 04386201 2 pcs.

Automatic Cleaning

06236920	Levelling tool Levelling tool for adjusting retention rings on individual specimens for Lavamin For round specimens from 25 - 50 mm dia.
06236921	Applicator for retention rings To apply and adjust retention rings for use with Lavamin. For specimens 25 mm / 1" dia.
06236922	For specimens 30 mm / 1¼" dia.
06236923	For specimens 40 mm / 1½" dia.
06236924	For specimens 50 mm / 2" dia.
06236910	Retention Rings To retain individual specimens in specimen mover plates for cleaning in Lavamin. 15 pcs. For specimens 25 mm / 1" dia.
06236911	For specimens 30 mm / 1¼" dia.
06236912	For specimens 40 mm / 1½" dia.
06236913	For specimens 50 mm / 2" dia.
06236925	Rubber mat To keep small and light specimens in place, for Tegramin-25, TegraForce and RotoForce specimen mover plates. For use with Lavamin. For 140 mm dia. specimen mover plates
06236926	To keep small and light specimens in place, for Tegramin-30 specimen mover plates. For use with Lavamin. For 160 mm dia. specimen mover plates

Others NDT

40900065	Dispensing Gun Hand-operated dispensing gun for RepliSet For 265 ml cartridges
40900066	For 50 ml cartridges
40900067	Case Aluminium carrying case for transporting the 50 ml RepliSet system. Foam rubber inserts have room for all necessities for field applications: 1 Dispensing gun, 5 new cartridges and 2 cartridges in use, 2 x 35 pcs. static-mixing nozzles, nozzle tips, backing paper, cleaning fluid and finished replicas. The content is ordered separately L x d x h = 445 x 155 x 330 mm

CUTTING

MOUNTING

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ACCESSORIES



MD-Concert Concertino



MD-Storage Cabinet



Table unit

Lab Furniture

Laboratory Furniture	
05306101	MD-Concert Storage cabinet for 9 MD preparation surfaces in 300 mm (12"), 250 mm (10") or 200 mm (8") dia.
05306102	MD-Concertino Storage cabinet for 7 MD preparation surfaces in 200 mm (8") dia.
05666001	Storage Cabinet MEDCU For 10 MD preparation surfaces in 350 mm (14") dia. 235 x 380 x 395 mm (h x w x d)
06266102	Table unit For Discotom and Labotom cut-off machines. With compartment for recirculation cooling unit, drawer for tools and shelves for cut-off wheels Width: 93 cm, depth: 95 cm, height: 75-80 cm (29.5-31.5")
06266901	Extension for table unit Can be mounted on both right and left hand side Width: 400 mm, depth 950 mm
06266902	Shelf for Table unit Shelf for Discotom and Labotom table unit. H:4,5 cm D: 48,6 cm L: 90,2 cm

Cooling Systems

Advanced Cooling System	
05766933	XL Filter bag Replacement filter bag for repeated use with the filter tray. Replacement filter bag
05766928	Filter bag Filter bag for use with 50 l tank (05766906) and 100 l tank (05766905), requires 05766927 for use with 100 l tank. Reusable sieve. Stainless steel For use with 50 l tank

Grinding and polishing Xmatic



Xmatic	Cat. no.
Xmatic 3x200-240V, 50-60 Hz	06896129
Xmatic 3x380-480V, 50-60 Hz	06896146
Xmatic with Ultrasonic cleaning 3x200-240V, 50-60 Hz	06896229
Xmatic with Ultrasonic cleaning 3x380-480V, 50-60 Hz	06896246

Xmatic Compact



Xmatic Compact	Cat. no.
Xmatic Compact 3x200-240V, 50-60 Hz	06886129
Xmatic Compact 3x380-480V 50/60Hz	06886146
Xmatic Compact with Ultrasonic cleaning 3x200-240V, 50-60 Hz	06886229
Xmatic Compact with Ultrasonic cleaning 3x380-480V 50/60Hz	06886246
Xmatic Compact with vertical conveyor 3x200-240V, 50-60 Hz	06886329
Xmatic Compact with vertical conveyor 3x380-480V 50/60Hz	06886346
Xmatic Compact with Ultrasonic cleaning and vertical conveyor 3x200-240V, 50-60 Hz	06886429
Xmatic Compact with Ultrasonic cleaning and vertical conveyor 3x380-480V 50/60Hz	06886446

Grinding and polishing Xmatic

Xmatic & Xmatic Compact	Cat. no.
MD disc 250 mm (10") dia 250 mm (10") dia. Magnetic fixation disc for MD grinding and polishing surfaces	06896902
	
MD disc 300 mm (12") dia 300 mm (12") dia. Magnetic fixation disc for MD grinding and polishing surfaces	06896903
	
Beacon To display the actual working condition	06296900
	
Recirculation system for MD station For recirculating the cooling water for grinding on MD grinding/polishing station Consist of: 75 l tank, pump, level sensor, cylinder for filter bag, 1 disposable filter bag for MD grinding/polishing station, water hose	05766937
Alcohol Separator For collection of the waste-alcohol from the cleaning station	06896904
	

Grinding and polishing Xmatic

Leveling device	Cat. no.
Uniforce levelling device without pressure foot	04886101

Levelling device for levelling of specimens in specimen holders 140, 160 and 200 mm dia.
Without pressure foot for positioning of specimens



Uniforce levelling device with pressure foot	04886102
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Levelling device for levelling of specimens in specimen holders 140, 160 and 200 mm dia.
With pressure foot for positioning of specimens



CUTTING

MOUNTING

GRINDING

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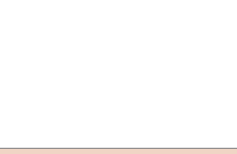
ACCESSORIES

Grinding and polishing Xmatic

Specimen holders					
RFID* 140 mm dia. For use on MD disc size 250 mm (10") dia.					
Hole size	Holes	Shape	Photo	Material	Cat. nr.
-	0	—		Aluminum	06066701
25-40 mm	4			Aluminum	06066901
25-40 mm	4			Stainless steel	06066904
10-32 mm	6			Aluminum	06066918
10-32 mm	6			Stainless steel	06066915
RFID* 160 mm dia. For use on MD disc size 300 mm (12") dia.					
Hole size	Holes	Shape	Photo	Material	Cat. nr.
-	0	—		Stainless steel	06066702
-	0	—		Aluminum	06066703
20-40 x 68 mm	3			Stainless steel	06066721
50 mm	4			Stainless steel	06066913
25-40 mm	6			Stainless steel	06066907
25-40 mm	6			Aluminum	06066910
10-25 x 34 mm	6			Stainless steel	06066720
10-25.5 mm	12			Stainless steel	06066921

* RFID technology enables Xmatic to automatically track the specimen holders

Grinding and polishing Xmatic

Consumables	Cat. no.
Filter bags for recirculation system on MD grinding / polishing station Disposable filter bags for recirculation system 	49900085
Filter bags for recirculation system on high-speed plane grinding station Disposable filter bags for recirculation system on high-speed plane grinding station 	49900086
Disposable Bowl Liner For easy cleaning of bowl on MD grinding / polishing station and high-speed plane grinding station 	49900077
Diamond Point for Dressing Tool For dressing of MD-Alto grinding surface 	02606962
Aluminum oxide sticks for dressing MD grinding surfaces For truing and opening of MD grinding surfaces 	40800241
Diamond point for dressing tool (for high removal plane grinding stone) Diamond point for dressing tool 	40800045
Disposable Liners 75/100 l tank For collecting waste material in 75/100/150 l tank 	49900043

Grinding and polishing Xmatic

Xmatic Compact retrofit kits	Cat. no.
Vertical conveyor	06886901

Vertical conveyor for retrofit on Xmatic Compact with ultrasonic wash



Vertical conveyor	06886902
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Vertical conveyor for retrofit on Xmatic Compact



Grinding and polishing AbraPlan-30

Recirculation system	Accessories	Cat. no.
	Recirculation pump The three phases recirculation pump is connected directly to the AbraPlan-30 resulting in that the emergency stop also controls the recirculation pump. 	
	3 x 200-240 V 50/60 Hz	06296929
	3 x 380-415 V 50/60 Hz	06296946
	3 x 460-480 V 50/60 Hz	06296954
	50 l recirculation tank The tanks are produced in stainless steel for a long product lifetime and high heat dissipation. 	05766906
	Filter bag Struers filter bags are designed to work with our large recirculation tanks, by removing as much debris as possible from entering your drainage system. 	05766928
	Disposable liners. 5 pcs. For collecting waste material in 50 l tank. 	49900042
Beacon		Cat. no.
To display the actual working condition		06296900

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



Grinding and polishing AbraPlan-30

Levelling device	Cat. no.
Uniforce levelling device without pressure foot	04886101

Levelling device for levelling of specimens in specimen holders 140, 160 and 200 mm dia.
Without pressure foot for positioning of specimens



Uniforce levelling device with pressure foot	04886102
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Levelling device for levelling of specimens in specimen holders 140, 160 and 200 mm dia.
With pressure foot for positioning of specimens



Grinding and polishing AbraPlan-30

Specimen holders					
160 mm dia.					
Hole size	Holes	Shape	Photo	Material	Cat. no.
25-40 mm	6			Stainless steel	06066909
25-40 mm	6			Aluminum	06066912
10-25,5 mm	12			Stainless steel	02606917
10-25 x 34 mm	6			Stainless steel	02606918
20-40 x 68 mm	3			Stainless steel	02606920
Max. 24 x 52 mm	3	-		Stainless steel	02606924
29-32mm	8			Aluminum	02606954
38-40 mm	6			Aluminum	02606955
50-51 mm	4			Stainless steel	02606963
-	0	-		Stainless steel	02606926
-	0	-		Aluminum	02606928

CUTTING

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Grinding and polishing AbraPlan-30

Specimen holders					
200 mm dia.					
Hole size	Holes	Shape	Photo	Material	Cat. no
25-5 mm	6			Stainless steel	06066914
53-90 mm	3			Stainless steel	02606922
39-32 mm	12			Aluminum	02606956
38-40 mm	8			Aluminum	02606957
49-52 mm	6			Aluminum	02606958
-	0	-		Stainless steel	02606927
-	0	-		Aluminum	02606929

Grinding and polishing AbraPol-30

Dosing unit	Cat. no.
DP-Pump unit	06306901

For dosing diamond suspension or lubricant on AbraPol-30.
Easy connector included



OP-Pump unit	06306902
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For dosing oxide suspension on AbraPol-30. Easy connector included



Preparation disc with driving pins	Cat. no.
MD-Disc, 350 mm dia.	02426933

Magnetic fixation discs enable you to change the preparation surface fast and easy. It furthermore ensures less resilience when preparing your specimens. Only for use with our MD surfaces.



MD-Disc, 300 mm dia.	02426918
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Magnetic fixation discs enable you to change the preparation surface fast and easy. It furthermore ensures less resilience when preparing your specimens. Only for use with our MD surfaces.



Aluminum disc, 300 mm dia.	02426906
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For use when preparing your specimens with OP and DP surfaces and other self-adhesive grinding and polishing consumables.



Wet grinding disc, 305 mm dia.	02426909
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The wet grinding disc is for fixation of SiC paper.



Grinding and polishing AbraPol-30

Turntable with keyholes

05886905

Turntable with keyholes and 12 pins for preparation discs.
To prevent lifting up of preparation discs



Disposable bowl liner 3 pcs.

49900067

For easy cleaning of your bowl



Shift valve

06306903

To be used if you have a recirculation system and use a method with OP-suspensions



Beacon

06296900

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



Grinding and polishing AbraPol-30

Recirculation system	Accessories	Cat. no.
	Recirculation pump The three phases recirculation pump is connected directly to the AbraPlan-30 resulting in that the emergency stop also controls the recirculation pump. 	
	3 x 200-240 V 50/60 Hz	06296929
	3 x 380-415 V 50/60 Hz	06296946
	3 x 460-480 V 50/60 Hz	06296954
	50 l recirculation tank The tanks are produced in stainless steel for a long product lifetime and high heat dissipation. 	05766906
	Filter bag Struers filter bags are designed to work with our large recirculation tanks, by removing as much debris as possible from entering your drainage system. 	05766928
	Disposable liners. 5 pcs. For collecting waste material in 50 l tank (05766906) 	49900042

Grinding and polishing AbraPol-30

Levelling device	Cat. no.
Uniforce levelling device without pressure foot	04886101

Levelling device for levelling of specimens in specimen holder's 140, 160 and 200 mm dia. Without pressure foot for positioning of specimens



Uniforce levelling device with pressure foot	04886102
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Levelling device for levelling of specimens in specimen holder's 140, 160 and 200 mm dia. With pressure foot for positioning of specimens



Grinding and polishing AbraPol-30

Specimen holders					
160 mm dia. for 300 mm dia. preparation disc					
Hole size	Holes	Shape	Photo	Material	Cat. no.
25-40 mm	6			Stainless steel	06066909
25-40 mm	6			Aluminum	06066912
10-25,5 mm	12			Stainless steel	02606917
10-25 x 34 mm	6			Stainless steel	02606918
20-40 x 68 mm	3			Stainless steel	02606920
Max. 24 x 52 mm	3	-		Stainless steel	02606924
29-32mm	8			Aluminum	02606954
38-40 mm	6			Aluminum	02606955
50-51 mm	4			Stainless steel	02606963
-	0	-		Stainless steel	02606926
-	0	-		Aluminum	02606928
Flexible specimen holder					07066961
For unmounted odd-shaped specimens. Area: Min. 20 x 40 mm. Max. 100 x 100 mm Height: Min. 10 mm. Max. 20 mm Special software required. Software version ≥ 3.03.					

CUTTING

MOUNTING

GRINDING

POLISHING

VERIFICATION

ACCESSORIES

Grinding and polishing AbraPol-30

Specimen holders					
200 mm dia. for 350 mm dia. preparation disc					
Hole size	Holes	Shape	Photo	Material	Cat. no.
25-5 mm	6			Stainless steel	06066914
53-90 mm	3			Stainless steel	02606922
39-32 mm	12			Aluminum	02606956
38-40 mm	8			Aluminum	02606957
49-52 mm	6			Aluminum	02606958
-	0	-		Stainless steel	02606927
-	0	-		Aluminum	02606929

Grinding and polishing Tegramin-30

Tegramin dosing module	Cat. no.
With 1 DP pump	06036900

Easy connector (s) included.



With 2 DP pump	06036901
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Easy connector(s) included.



With 2 DP pumps and 1 OP pump	06036902
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Easy connector(s) included.



Bottle tray for 8 bottles	06036911
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Bottle tray with space for eight ½ or 1 liter square bottles.



Grinding and polishing Tegramin-30

Preparation disc with cone

Cat. no.

MD-Disc, 250 mm dia.

06086402

Magnetic fixation discs enable you to change the preparation surface fast and easy. It furthermore ensures less resilience when preparing your specimens. Only for use with our MD surfaces. With cone for easy replacement.



Aluminum disc, 250 mm dia.

06086405

For use when preparing your specimens with OP and DP surfaces and other self-adhesive grinding and polishing consumables. With cone for easy replacement.



Cover

06036903

Transparent cover.



Lid for preparation disc

06036906

For protection of preparation disc during non-use.



Splash guard for preparation disc

06026905

For manual preparation with small gap to prevent stuck specimens.



Grinding and polishing Tegramin-30

Disposable bowl liner 5 pcs.

49900052

For easy cleaning of your bowl



Shift valve

06036904

To be used if you have a recirculation system and use a method with OP-suspensions



Recirculation system

Cat. no.

Cooling System 3

A recirculation cooling unit must be connected for cost-efficient water utilization and to collect removed abrasives. A complete system contains a tank, pump and filter bag.



1 x 100 V / 50 Hz

05766516

1 x 220-240 V / 50 Hz

05766522

1 x 100-120 V / 60 Hz

05766523

1 x 220-240 V / 60 Hz

05766524

1 x 100-120 V / 50-60 Hz CSA

05766616

Disposable liners. 5 pcs.

49900042

For collecting waste material in 50 l tank.



Grinding and polishing Tegramin-30

Levelling device	Cat. no.
For 140 mm dia. specimen holders	05256903

For levelling of specimens in specimen holder's 140 mm dia.



Uniforce levelling device without pressure foot	04886101
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Levelling device for levelling of specimens in specimen holders 140, 160 and 200 mm dia.
Without pressure foot for positioning of specimens



Uniforce levelling device with pressure foot	04886102
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Levelling device for levelling of specimens in specimen holders 140, 160 and 200 mm dia.
With pressure foot for positioning of specimens



Grinding and polishing Tegramin-30

Specimen mover plate	Cat. no.
Coupling	06086901

For specimen mover plates.



Hole size	Holes	Shape	Photo	Material	Cat. no.
25 mm	6	●		Stainless steel	06086932
30 mm	6	●		Stainless steel	06086933
40 mm	6	●		Stainless steel	06086934
50 mm	6	●		Stainless steel	06086935
1 "	6	●		Stainless steel	06086939
1 ¼ "	6	●		Stainless steel	06086940
1 ½ "	6	●		Stainless steel	06086941
2 "	6	●		Stainless steel	06086942
20x30 mm	6	●		Stainless steel	06086944
Accustop-30	3	●		Stainless steel	06086937
Accustop-40 and TYNDS holder	3	●		Stainless steel	06086938
-	0	-		Stainless steel	06086936

Grinding and polishing Tegramin-30

Specimen holders					
Hole size	Holes	Shape	Photo	Material	Cat. no.
25-40 mm	6			Stainless steel	06066909
25-40 mm	6			Aluminum	06066912
10-25,5 mm	12			Stainless steel	02606917
10-25 x 34 mm	6			Stainless steel	02606918
20-40 x 68 mm	3			Stainless steel	02606920
Max. 24 x 52 mm	3	-		Stainless steel	02606924
29-32mm	8			Aluminum	02606954
38-40 mm	6			Aluminum	02606955
50-51 mm	4			Stainless steel	02606963
-	0	-		Stainless steel	02606926
-	0	-		Aluminum	02606928
Flexible specimen holder					Cat. no.
For unmounted odd-shaped specimens.					07066961
Area: Min. 20 x 40 mm. Max. 100 x 100 mm Height: Min. 10 mm. Max. 20 mm Special software required. Tegramin software version ≥ 1.33					

Grinding and polishing Tegramin-25

CUTTING

MOUNTING

GRINDING

POLISHING

VERIFICATION

ACCESSORIES

Tegramin dosing module**Cat. no.****With 1 DP pump****06036900**

Easy connector (s) included.

**With 2 DP pump****06036901**

Easy connector(s) included.

**With 2 DP pumps and 1 OP pump****06036902**

Easy connector(s) included.

**Bottle tray for 8 bottles****06036911**

Bottle tray with space for eight ½ or 1 liter square bottles.



Grinding and polishing Tegramin-25

Preparation disc with cone

Cat. no.

MD-Disc, 250 mm dia.

06086402

Magnetic fixation discs enable you to change the preparation surface fast and easy. It furthermore ensures less resilience when preparing your specimens. Only for use with our MD surfaces. With cone for easy replacement.



Aluminum disc, 250 mm dia.

06086405

For use when preparing your specimens with OP and DP surfaces and other self-adhesive grinding and polishing consumables. With cone for easy replacement.



Cover

06036903

Transparent cover.



Lid for preparation disc

06036906

For protection of preparation disc during non-use.



Splash guard for preparation disc

06026905

For manual preparation with small gap to prevent stuck specimens.



Grinding and polishing Tegramin-25

Disposable bowl liner 5 pcs.

49900052

For easy cleaning of your bowl



Shift valve

06036904

To be used if you have a recirculation system and use a method with OP-suspensions



CUTTING

MOUNTING

GRINDING

POLISHING

VERIFICATION

ACCESSORIES

Grinding and polishing Tegramin-25

Recirculation system	Cat. no.
Cooling System 3	

A recirculation cooling unit must be connected for cost-efficient water utilization and to collect removed abrasives. A complete system contains a tank, pump and filter bag.



1 x 100 V / 50 Hz	05766516
1 x 220-240 V / 50 Hz	05766522
1 x 100-120 V / 60 Hz	05766523
1 x 220-240 V / 60 Hz	05766524
1 x 100-120 V / 50-60 Hz CSA	05766616

Disposable liners. 5 pcs.	49900042
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For collecting waste material in 50 l tank.



Grinding and polishing Tegramin-25

Levelling device	Cat. no.
For 140 mm dia. specimen holders	05256903

For levelling of specimens in specimen holder's 140 mm dia.



Uniforce levelling device without pressure foot	04886101
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Levelling device for levelling of specimens in specimen holders 140, 160 and 200 mm dia.
Without pressure foot for positioning of specimens



Uniforce levelling device with pressure foot	04886102
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Levelling device for levelling of specimens in specimen holders 140, 160 and 200 mm dia.
With pressure foot for positioning of specimens



Grinding and polishing Tegramin-25

Specimen mover plate	Cat. no.
Coupling	06086901

For specimen mover plates.



Hole size	Holes	Shape	Photo	Material	Cat. no.
30 mm	6	●		Stainless steel	06086903
40 mm	6	●		Stainless steel	06086904
50 mm	3	●		Stainless steel	06086905
1 ¼ "	6	●		Stainless steel	06086910
1 ½ "	6	●		Stainless steel	06086911
2 "	3	●		Stainless steel	06086943
Accustop 30	3	●		Stainless steel	06086907
-	-	-		Stainless steel	06086906

Grinding and polishing Tegramin-25

Specimen holders					
Hole size	Holes	Shape	Photo	Material	Cat. no.
10-32 mm	6	●		Stainless steel	06066917
10-32 mm	6	●		Aluminum	06066920
25-40 mm	4	●		Stainless steel	06066906
25-40 mm	4	●		Aluminum	06066903
29-32 mm	6	●		Aluminum	02606952
-	0	-		Aluminum	02606950
Flexible specimen holders					07066941
For unmounted odd-shaped specimens. Area: Min. 20 x 40 mm. Max. 90 x 90 mm Height: Min. 10 mm. Max. 20 mm Special software required. Tegramin software version $\geq$ 1.33					

Grinding and polishing Tegramin-20

Tegramin dosing module	Cat. no.
With 1 DP pump	06036900

Easy connector (s) included.



With 2 DP pump	06036901
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Easy connector(s) included.



With 2 DP pumps and 1 OP pump	06036902
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Easy connector(s) included.



Bottle tray for 8 bottles	06036911
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For organisation of bottles.
Bottle tray with space for eight ½ or 1 liter square bottles.



Grinding and polishing Tegramin-20

Preparation disc with cone

Cat. no.

MD-Disc, 200 mm dia.**06086401**

Magnetic fixation discs enable you to change the preparation surface fast and easy. It furthermore ensures less resilience when preparing your specimens. Only for use with our MD surfaces. With cone for easy replacement.



Aluminum disc, 200 mm dia.

06086404

For use when preparing your specimens with OP and DP surfaces and other self-adhesive grinding and polishing consumables.



Cover

06036903

Transparent cover.



Lid for preparation disc

06016906

For protection of preparation disc during non-use



Splash guard for manual preparation

06016905

With small gap to prevent stuck specimens



Grinding and polishing Tegramin-20

Disposable bowl liner 5 pcs.

49900056

For easy cleaning of your bowl



Shift valve

06036904

To be used if you have a recirculation system and use a method with OP-suspensions



Grinding and polishing Tegramin-20

Recirculation system	Cat. no.
Cooling System 3	

A recirculation cooling unit must be connected for cost-efficient water utilization and to collect removed abrasives. A complete system contains a tank, pump and filter bag.



1 x 100 V / 50 Hz	05766516
1 x 220-240 V / 50 Hz	05766522
1 x 100-120 V / 60 Hz	05766523
1 x 220-240 V / 60 Hz	05766524
1 x 100-120 V / 50-60 Hz CSA	05766616
Disposable liners. 5 pcs.	49900042

For collecting waste material in 50 l tank.



Grinding and polishing Tegramin-20

Specimen mover plate	Cat. no.
Coupling	06086900

For specimen mover plates



Hole size	Holes	Shape	Photo	Material	Cat. no.
25 mm	4	●		Stainless steel	06086912
30 mm	4	●		Stainless steel	06086913
40 mm	4	●		Stainless steel	06086914
1 "	4	●		Stainless steel	06086915
1 ¼ "	4	●		Stainless steel	06086916
1½ "	4	●		Stainless steel	06086917
-	0	-		Stainless steel	06066918

Grinding and polishing LaboPol-60

Control unit	Cat. no.
LaboUI	06206901

Robust control panel for manual preparation for fast preparation 24/7.



LaboForce-50 specimen mover	06356127
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Robust semi-automatic specimen mover for preparation of 1-4 specimens for fast, reliable specimen preparation 24/7.



LaboForce-100 specimen mover	06366127
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Robust semi-automatic specimen mover for preparation of 1-6 specimens for fast, reliable specimen preparation 24/7.



LaboForce-Mi specimen mover	06386130
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Robust low speed semi-automatic specimen mover for preparation of 1 - 8 mineralogical specimens for reliable specimen preparation 24/7.



CUTTING

MOUNTING

GRINDING

POLISHING

VERIFICATION

ACCESSORIES

Grinding and polishing LaboPol-60

Preparation disc with cone	Cat. no.
MD-Disc, 250 mm dia.	06086402
Magnetic fixation discs enable you to change the preparation surface fast and easy. It furthermore ensures less resilience when preparing your specimens. Only for use with our MD surfaces. With cone for easy replacement. 	
MD-Disc, 300 mm dia.	06086403
Magnetic fixation discs enable you to change the preparation surface fast and easy. It furthermore ensures less resilience when preparing your specimens. Only for use with our MD surfaces. With cone for easy replacement. 	
Aluminum disc, 250 mm dia.	06086405
For use when preparing your specimens with OP and DP surfaces and other self-adhesive grinding and polishing consumables. With cone for easy replacement. 	
Aluminum disc, 300 mm dia.	06086406
For use when preparing your specimens with OP and DP surfaces and other self-adhesive grinding and polishing consumables. With cone for easy replacement. 	
Wet grinding disc, 230 mm dia.*	06206932
The wet grinding disc is for fixation of SiC paper. * Wet grinding disc 230 mm dia. cannot be used in combination with with LaboForce-50. 	
Wet grinding disc, 250 mm dia.	06206918
The wet grinding disc is for fixation of SiC paper. 	
Wet grinding disc, 300 mm dia.	06206919
The wet grinding disc is for fixation of SiC paper. 	
Cast iron disc. 300 mm dia.	06206917
Concentrically grooved, cone-type disc for lapping mineralogical specimens. Made of special SiC-resistant cast iron alloy. 	

Grinding and polishing LaboPol-60

Splash guard**	Cat. no.
For manual preparation on a 250 mm dia. MD-Disc/Aluminum disc	06206921
For manual preparation with 250 mm MD-disc. LaboPol comes standard with 300 mm splash guard for manual preparation, with small gap to prevent stuck specimens.	
For semi-automatic preparation on a 250 mm dia. MD-Disc/Aluminum disc	06206929
For use with ø305 mm Wet grinding disc and for semi-automatic preparation with 250 mm MD-disc. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens.	
For semi-automatic preparation on a 300 mm dia. MD-Disc/Aluminum/Cast iron disc	06206925
For use with ø305 mm Wet grinding disc and for semi-automatic preparation with 250 mm MD-disc. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens.	
For Wet grinding disc 230 mm dia.	06206927
For use with ø230 mm Wet grinding disc. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens.	
For Wet grinding disc 250 mm dia.	06206928
For use with ø250 mm Wet grinding disc. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens.	
For Wet grinding disc 300 mm dia.	06206929
For use with ø305 mm Wet grinding disc and for semi-automatic preparation with 250 mm MD-disc. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens.	
Lid for preparation disc	06206913
For protection of preparation disc during non-use.	
Disposable bowl liner 5 pcs.	49900062
For easy cleaning of your bowl	

** LaboPol-60 comes standard with a splash guard for manual preparation on a 300 mm dia. MD-Disc/Aluminum disc, with a small gap to prevent stuck specimens.

Grinding and polishing LaboPol-60

Recirculation system	Cat. no.
Cooling System 3	

A recirculation cooling unit must be connected for cost-efficient water utilization and to collect removed abrasives. A complete system contains a tank, pump and filter bag.



1 x 100 V / 50 Hz	05766516
1 x 220-240 V / 50 Hz	05766522
1 x 100-120 V / 60 Hz	05766523
1 x 220-240 V / 60 Hz	05766524
1 x 100-120 V / 50-60 Hz CSA	05766616

Disposable liners. 5 pcs.	49900042
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For collecting waste material in 50 l tank.



Grinding and polishing LaboPol-30

Control unit	Cat. no.
LaboUI	06206901

Robust control panel for manual preparation for fast preparation 24/7.



LaboForce-50 specimen mover

06356127

Robust semi-automatic specimen mover for preparation of 1-4 specimens for fast, reliable specimen preparation 24/7.



LaboForce-100 specimen mover

06366127

Robust semi-automatic specimen mover for preparation of 1-6 specimens for fast, reliable specimen preparation 24/7.



LaboForce-Mi specimen mover

06386130

Robust low speed semi-automatic specimen mover for preparation of 1 - 8 mineralogical specimens for reliable specimen preparation 24/7.



Grinding and polishing LaboPol-30

Preparation disc with cone	Cat. no.
MD-Disc, 250 mm dia.	06086402
Magnetic fixation discs enable you to change the preparation surface fast and easy. It furthermore ensures less resilience when preparing your specimens. Only for use with our MD surfaces. With cone for easy replacement. 	
MD-Disc, 300 mm dia.	06086403
Magnetic fixation discs enable you to change the preparation surface fast and easy. It furthermore ensures less resilience when preparing your specimens. Only for use with our MD surfaces. With cone for easy replacement. 	
Aluminum disc, 250 mm dia.	06086405
For use when preparing your specimens with OP and DP surfaces and other self-adhesive grinding and polishing consumables. With cone for easy replacement. 	
Aluminum disc, 300 mm dia.	06086406
For use when preparing your specimens with OP and DP surfaces and other self-adhesive grinding and polishing consumables. With cone for easy replacement. 	
Wet grinding disc, 230 mm dia.*	06206932
The wet grinding disc is for fixation of SiC paper. * Wet grinding disc 230 mm dia. cannot be used in combination with with LaboForce-50. 	
Wet grinding disc, 250 mm dia.	06206918
The wet grinding disc is for fixation of SiC paper. 	
Wet grinding disc, 300 mm dia.	06206919
The wet grinding disc is for fixation of SiC paper. 	
Cast iron disc. 300 mm dia.	06206917
Concentrically grooved, cone-type disc for lapping mineralogical specimens. Made of special SiC-resistant cast iron alloy. 	

* Wet grinding disc 230 mm dia. cannot be used in combination with with LaboForce-50

Grinding and polishing LaboPol-30

Splash guard**	Cat. no.
For manual preparation on a 250 mm dia. MD-Disc/Aluminum disc	06206921
For manual preparation with 250 mm MD-disc. LaboPol comes standard with 300 mm splash guard for manual preparation, with small gap to prevent stuck specimens.	
For semi-automatic preparation on a 250 mm dia. MD-Disc/Aluminum disc	06206929
For use with ø305 mm Wet grinding disc and for semi-automatic preparation with 250 mm MD-disc. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens.	
For semi-automatic preparation on a 300 mm dia. MD-Disc/Aluminum/Cast iron disc	06206925
For use with ø305 mm Wet grinding disc and for semi-automatic preparation with 250 mm MD-disc. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens.	
For Wet grinding disc 230 mm dia.	06206927
For use with ø230 mm Wet grinding disc. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens.	
For Wet grinding disc 250 mm dia.	06206928
For use with ø250 mm Wet grinding disc. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens.	
For Wet grinding disc 300 mm dia.	06206929
For use with ø305 mm Wet grinding disc and for semi-automatic preparation with 250 mm MD-disc. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens.	
Lid for preparation disc	06206913
For protection of preparation disc during non-use.	
Disposable bowl liner 5 pcs.	49900062
For easy cleaning of your bowl.	

** LaboPol-30 comes standard with a splash guard for manual preparation on a 300 mm dia. MD-Disc/Aluminum disc, with a small gap to prevent stuck specimens

Grinding and polishing LaboPol-30

Recirculation system

Cat. no.

Cooling System 3

A recirculation cooling unit must be connected for cost-efficient water utilization and to collect removed abrasives. A complete system contains a tank, pump and filter bag.



1 x 100 V / 50 Hz

05766516

1 x 220-240 V / 50 Hz

05766522

1 x 100-120 V / 60 Hz

05766523

1 x 220-240 V / 60 Hz

05766524

1 x 100-120 V / 50-60 Hz CSA

05766616

Disposable liners. 5 pcs.

49900042

For collecting waste material in 50 l tank.



Grinding and polishing LaboPol-20

Control unit	Cat. no.
LaboUI	06206901

Robust control panel for manual preparation for fast preparation 24/7.



LaboForce-50 specimen mover	06356127
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Robust semi-automatic specimen mover for preparation of 1-4 specimens for fast, reliable specimen preparation 24/7.



Preparation disc with cone	Cat. no.
MD-Disc, 200 mm dia.	06086401

Magnetic fixation discs enable you to change the preparation surface fast and easy. It furthermore ensures less resilience when preparing your specimens. Only for use with our MD surfaces. With cone for easy replacement.



Aluminum disc, 200 mm dia.	06086404
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For use when preparing your specimens with OP and DP surfaces and other self-adhesive grinding and polishing consumables. With cone for easy replacement.



Wet grinding disc, 200 mm dia.	06206924
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The wet grinding disc is for fixation of SiC paper.



Grinding and polishing LaboPol-20

Splash guard*	Cat. no.
For semi-automatic preparation with a MD-Disc or an Aluminium disc	06206923
For semi-automatic preparation on LaboPol-20. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens	
For Wet grinding disc	06206926
For use with ø200 mm Wet grinding disc. LaboPol comes standard with guard for manual preparation, with small gap to prevent stuck specimens	
Lid for preparation disc	06206912
For protection of LaboPol-20 disc during non-use	
Disposable bowl liner 5 pcs.	49900061
For easy cleaning of your bowl	

* LaboPol-20 comes standard with a splash guard for manual preparation, with a small gap to prevent stuck specimens

Grinding and polishing LaboForce-100

CUTTING

MOUNTING

GRINDING

POLISHING

VERIFICATION

ACCESSORIES

LaboDoser-100	Cat. no.
With 4 peristaltic pumps for dosing of diamond suspensions and lubricants	06376104

Robust automatic dosing unit for dosing of diamond suspension, lubricant and all-in-one products for fast, reliable specimen preparation 24/7.



LaboDoser-10	Cat. no.
Stand for LaboDoser-10	06376904

Stand for use with Struers standard 500 ml/1000 ml bottles with diamond suspension, lubricant and all-in-one products. Includes cap with adjustable drip mechanism.

Cap for square bottles	06376906
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For use with LaboDoser-10 and Struers' standard 500 ml/1000 ml bottles with diamond suspension, lubricant and all-in-one products. With adjustable drip mechanism.

Grinding and polishing LaboForce-100

Levelling device	Cat. no.
For 140 mm dia. specimen holders	05256903

For levelling of specimens in specimen holder's 140 mm dia.



Uniforce levelling device without pressure foot	04886101
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Levelling device for levelling of specimens in specimen holders 140, 160 and 200 mm dia.
Without pressure foot for positioning of specimens



Uniforce levelling device with pressure foot	04886102
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Levelling device for levelling of specimens in specimen holders 140, 160 and 200 mm dia.
With pressure foot for positioning of specimens



Grinding and polishing LaboForce-100

Specimen mover plate	Cat. no.
Coupling	06086901

For specimen mover plates



Hole size	Holes	Shape	Photo	Material	Cat. no.
30 mm	6	●		Stainless steel	06086903
40 mm	6	●		Stainless steel	06086904
50 mm	3	●		Stainless steel	06086905
1 ¼ "	6	●		Stainless steel	06086910
1 ½ "	6	●		Stainless steel	06086911
2 "	3	●		Stainless steel	06086943
Accustop 30	3	●		Stainless steel	06086907
-	-	-		Stainless steel	06086906

Grinding and polishing LaboForce-100

Specimen holders					
140 mm dia. for 250 mm dia. preparation disc					
Hole size	Holes	Shape	Photo	Material	Cat. no.
10-32 mm	6			Stainless steel	06066917
10-32 mm	6			Aluminum	06066920
25-40 mm	4			Stainless steel	06066906
25-40 mm	4			Aluminum	06066903
29-32 mm	6			Aluminum	02606952
-	0	-		Aluminum	02606950
Flexible specimen holder					07066941
For unmounted odd-shaped specimens. Area: Min. 20 x 40 mm. Max. 90 x 90 mm Height: Min. 10 mm. Max. 20 mm Special software required. Software version $\geq$ 3.03.					

Grinding and polishing LaboForce-100

Specimen holders					
160 mm dia. for 300 mm dia. preparation disc					
Hole size	Holes	Shape	Photo	Material	Cat. no
25-40 mm	6			Stainless steel	06066909
25-40 mm	6			Aluminum	06066912
13-25,5 mm	12			Stainless steel	02606917
10-25 x 34 mm	6			Stainless steel	02606918
20-40 x 68 mm	3			Stainless steel	02606920
Max. 24 x 52 mm	3	-		Stainless steel	02606924
29-32mm	8			Aluminum	02606954
38-40 mm	6			Aluminum	02606955
50-51 mm	4			Stainless steel	02606963
-	0	-		Stainless steel	02606926
-	0	-		Aluminum	02606928
Flexible specimen holders					07066961
For unmounted odd-shaped specimens. Area: Min. 20 x 40 mm. Max. 100 x 100 mm Height: Min. 10 mm. Max. 20 mm Special software required. Software version ≥ 3.03.					

Grinding and polishing LaboForce-50

LaboDoser-10	Cat. no.
Coupling	06376905

For use with Struers ½ and 1 liter square bottles

Stand for LaboDoser-10	06376904
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Stand for use with Struers standard 500 ml/1000 ml bottles with diamond suspension, lubricant and all-in-one products. Includes cap with adjustable drip mechanism).

Cap for square bottles	06376906
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For use with LaboDoser-10 and Struers' standard 500 ml/1000 ml bottles with diamond suspension, lubricant and all-in-one products. With adjustable drip mechanism.

Grinding and polishing LaboForce-50

Specimen mover plate	Cat. no.
Coupling	06086900

For specimen mover plates



Hole size	Holes	Shape	Photo	Material	Cat. nro
25 mm	4	●		Stainless steel	06086912
30 mm	4	●		Stainless steel	06086913
40 mm	4	●		Stainless steel	06086914
1 "	4	●		Stainless steel	06086915
1 ¼ "	4	●		Stainless steel	06086916
1 ½ "	4	●		Stainless steel	06086917
-	0	-		Stainless steel	06086918

CUTTING

MOUNTING

GRINDING

POLISHING

VERIFICATION

ACCESSORIES

Grinding and polishing LaboForce-MI

LaboDoser-10	Cat. no.
Coupling	06376905

For use with Struers ½ and 1 liter square bottles

Stand for LaboDoser-10	06376904
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Stand for use with Struers standard 500 ml/1000 ml bottles with diamond suspension, lubricant and all-in-one products. Includes cap with adjustable drip mechanism).

Cap for square bottles	06376906
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For use with LaboDoser-10 and Struers' standard 500 ml/1000 ml bottles with diamond suspension, lubricant and all-in-one products. With adjustable drip mechanism.

Grinding and polishing LaboForce-MI

Specimen mover plate					Cat. nr.
Hole size	Holes	Shape	Foto	Material	Cat. nr.
25 mm	8			Stainless steel	05236901
30 mm	8			Stainless steel	05236902
40 mm	4			Stainless steel	05236903
60 mm	4			Stainless steel	05236904
20 x 30	8			Stainless steel	05236905

CUTTING

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ACCESSORIES

Grinding and polishing LaboUI

LaboDoser-10	Cat. no.
For use with Struers ½ and l liter square bottles	06376905

Dosing unit with adjustable drip mechanism and support arm.
For use with Struers standard 500 ml/1000 ml bottles with diamond suspension, lubricant and all-in-one products.

Stand for LaboDoser-10	06376904
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Stand for use with Struers standard 500 ml/1000 ml bottles with diamond suspension, lubricant and all-in-one products.
Includes cap with adjustable drip mechanism.

Cap for square bottles	06376906
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For use with LaboDoser-10 and Struers’ standard 500 ml/1000 ml bottles with diamond suspension, lubricant and all-in-one products.
With adjustable drip mechanism.

Indenters Duramin-40 & Duramin-4

Item number	Product Name	Shaft Size
06709132*	Adapter for second indenter, Duramin-4/-40	NA
6709114	Brinell ball indenter, 1 mm	3 mm
6709115	Brinell ball indenter, 2.5 mm	3 mm
6709116	Brinell ball indenter, 5 mm	3 mm
6709121	Vickers indenter	3 mm
6709130	Knoop indenter	3 mm

Note! All indenters are delivered with accredited certificate according to ASTM and ISO
 *Required for secondary indenter position.

CUTTING

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ACCESSORIES



Indenters Duramin-100

Item number	Product Name	Shaft Size
6709101	Rockwell diamond indenter	6,35 mm
6709102	Rockwell ball indenter, 1/16"	6,35 mm
6709103	Rockwell ball indenter, 1/8"	6,35 mm
6709104	Rockwell ball indenter, 1/4"	6,35 mm
6709105	Rockwell ball indenter, 1/2"	6,35 mm
6709110	Brinell ball indenter, 1 mm	6,35 mm
6709111	Brinell ball indenter, 2.5 mm	6,35 mm
6709112	Brinell ball indenter, 5 mm	6,35 mm
6709113	Brinell ball indenter, 10 mm	6,35 mm
6709114	Brinell ball indenter, 1 mm	3 mm
6709115	Brinell ball indenter, 2.5 mm	3 mm
6709116	Brinell ball indenter, 5 mm	3 mm
6709120	Vickers indenter, $\geq$ HV1	6,35 mm
6709121	Vickers indenter	3 mm
6709130	Knoop indenter	3 mm
6709921	Surface detection probe for Duramin-100/600/650*	6,35 mm

Note! All indenters are delivered with accredited certificate according to ASTM and ISO
Duramin-100 have two indenter positions, one for 3mm shaft size and one for 6,35 mm shaft size.
The 6.35 mm shaft indenter position can only perform loads $\geq$ 3kgf.
*If 60709003 is not ordered, this item must be ordered instead



Indenters Duramin-600 & Duramin-650

Item number	Product Name	Shaft Size
6709101	Rockwell diamond indenter	6,35 mm
6709102	Rockwell ball indenter, 1/16"	6,35 mm
6709103	Rockwell ball indenter, 1/8"	6,35 mm
6709104	Rockwell ball indenter, 1/4"	6,35 mm
6709105	Rockwell ball indenter, 1/2"	6,35 mm
6709110	Brinell ball indenter, 1 mm	6,35 mm
6709111	Brinell ball indenter, 2.5 mm	6,35 mm
6709112	Brinell ball indenter, 5 mm	6,35 mm
6709113	Brinell ball indenter, 10 mm	6,35 mm
6709120	Vickers indenter, $\geq$ HV1	6,35 mm
6709921	Surface detection probe for Duramin-100/600/650	6,35 mm

Note! All indenters are delivered with accredited certificate according to ASTM and ISO
Duramin-600 & 650 have three indenter positions, all for 6,35 mm shaft size
*If 60709003 is not order, this must be ordered instead



Indenters Duramin-150 & Duramin-160

Item number	Product Name	Shaft Size
6709102	Rockwell ball indenter, 1/16"	6,35 mm
6709103	Rockwell ball indenter, 1/8"	6,35 mm
6709104	Rockwell ball indenter, 1/4"	6,35 mm
6709105	Rockwell ball indenter, 1/2"	6,35 mm
6709101	Rockwell diamond indenter	6,35 mm

Note! All indenters are delivered with accredited certificate according to ASTM and ISO

Indenters Duramin-3000

Item number	Product Name	Shaft Size
6709111	Brinell ball indenter, 2.5 mm	6,35 mm
6709112	Brinell ball indenter, 5 mm	6,35 mm
6709113	Brinell ball indenter, 10 mm	6,35 mm

Note! All indenters are delivered with accredited certificate according to ASTM and ISO



Objective lens for Duramin-100/-600/-650

Item number	Product Name
6709001	Objective lens for Duramin-4/-40/-100/-600/-650, 2.5x
6709002	Objective lens for Duramin-100/-600/-650, 5x
6709003	Objective lens for Duramin-100/-600/-650, 10x*
6709004	Objective lens for Duramin-100/-600/-650, 20x
6709005	Objective lens for Duramin-100/-600/-650, 40x
6709006	Objective lens for Duramin-100/-600/-650, 60x
6709007	Objective lens for Duramin-100/-600/-650, 100x

Note! *If not ordered, 06709921 must be ordered instead. This will limit machine to only a 3 mm shaft indenter

Note! When ordering Duramin-100 the order must contain either 06709003 or 06709921

Objective lens for Duramin-4/-40

Item number	Product Name
6709001	Objective lens for Duramin-4/-40/-100/-600/-650, 2.5x
6709008	Objective lens for Duramin-4/-40, 5x
6709009	Objective lens for Duramin-4/-40, 10x
6709010	Objective lens for Duramin-4/-40, 20x
6709011	Objective lens for Duramin-4/-40, 50x
6709012	Objective lens for Duramin-4/-40, 100x

Note! When ordering Duramin-40 the order must contain at least one objective lens and one indenter



Micro and macro hardness tester accessories

Product	Description	Item number
	For plane parallel levelling of mounted specimens on Duramin-40/-100. Size 115 x 115 mm, with positioning holes. The holder can be fitted with adapter rings to accommodate other specimen sizes, see 06709350-57.	06709301
	For plane parallel levelling of mounted specimens on Duramin-4, -40, -100. Size 170 x 125 mm, with positioning holes. The holder can be fitted with adapter rings to accommodate other specimen sizes, see 06709350-57.	06709302
	For plane parallel levelling of mounted specimens on Duramin-4/-40/-100. Size 200 x 130 mm, with positioning holes. The holder can be fitted with adapter rings to accommodate other specimen sizes, see 06709350-57.	06709303
	Adapter rings for use with specimen holders 06709301, 06709302 and 06709303. Incert Reduction Ring Ø25 mm add 06709350 Incert Reduction Ring Ø30 mm / 1.25" add 06709351 Incert Reduction Ring Ø35 mm add 06709352 Incert Reduction Ring Ø40 mm / 1.5" add 06709353 Incert Reduction Ring Ø45 mm add 06709354 Incert Reduction Ring Ø 1" add 06709355 Incert Reduction Ring Ø 1 ¼" add 06709356 Incert Reduction Ring Ø 1,5" add 06709357	
	For Duramin-4/-40/-100. N.B. Max. test load 62.5 kgf.	06709310
	For clamping of thin specimens. Size 100 x 100 mm, with positioning holes. For Duramin-4/-40/-100. N.B. Max. test load 62.5 kgf.	06709309
	For testing of thin wires. The wire testing fixture is: 0.8 to 3.5mm	06709223
	For clamping of small workpieces. Width 55 mm, max. opening 50 mm. Size 100 x 100 mm, with positioning holes. For Duramin-4/-40/-100.	06709304

Product	Description	Item number
	For clamping of workpieces. With lock-down system. Width 25 mm, max. opening 20 mm.	06709305
	For clamping of workpieces. With lock-down system. Width 36 mm, max. opening 42 mm. Size L100 x W36 x H45 mm.	06709306
	For clamping of workpieces. With lock-down system. Width 36 mm, max. opening 72 mm. Size L x W x H mm	06709316
	For clamping of workpieces. With lock-down system. Width 75 mm, max. opening 100 mm. Size L190 x W75 x H70 mm.	06709307
	Jominy sample holder, 3 samples For clamping of workpieces. With lock-down system. Width 75 mm, max. opening 100 mm. Size L190 x W75 x H70 mm	06709307
	Jominy sample holder, 3 samples For clamping of workpieces. With lock-down system. Width 75 mm, max. opening 100 mm. Size L190 x W x H mm	06709312

Accessories universal and rockwell hardness tester

Product	Description	Item number
	Plane anvil, 60 mm dia. (For Duramin-100/-150/-160/-170/-600/-650. Ø80 mm, with Ø19 mm fitting) N.B. For Duramin-100/-170/-650, add 06709219.	06709201
	Plane anvil, 80 mm dia. (For Duramin-100/-150/-160/-170/-600/-650. Ø80 mm, with Ø19 mm fitting) N.B. For Duramin-100/-170/-650, add 06709219.	06709202
	Plane anvil, 200 mm dia. Screw fix (For Duramin-100/-170/-600/-650/-3000) To be screwed onto spindle N.B. For Duramin-100/-170/-650, add 06709219 and 06709220.	06709203
	Plane anvil, 235 mm dia. Screw fix (For Duramin-100/-650/-170/D-180. To be screwed onto spindle) N.B. Item 06709219 is also required.	06709204
	Spot anvil 5mm. (For Duramin-100/-150/-160/-170/-600/-650) N.B. For Duramin-100/-170/-650, add 06709219.	06709222
	Spot anvil 10mm (For Duramin-100/-150/-160/-170/-600/-650) N.B. For Duramin-100/-170/-650, add 06709219.	06709213
	Tiltable anvil, 150 mm. dia Irregular part table support, ø150mm, requires a testing table ≥150mm. For testing of non-parallel or irregular workpieces (For Duramin-100/-150/-160/-170/-600/-650/-3000) N.B. For Duramin-100/-170/-650, add 06709219.	06709214
	V-Anvil ø80mm 3.3-20mm. For workpieces 3-20 mm dia. Size Ø80 mm, with Ø20 mm fitting. (For Duramin-4/-100/-150/-160/-170/-600/-650/-3000) N.B. For Duramin-100/-170/-650, add 06709219.	06709210
	V-Anvil ø80mm 12-80mm For workpieces 12-80 mm dia. Size Ø80 mm, with Ø19 mm fitting. (For Duramin-4/-100/-150/-160/-170/-600/-650/-3000) N.B. For Duramin-100/-170/-650, add 06709219.	06709211
	V-Anvil ø80mm 20-140mm For workpieces 12-140 mm dia. Size Ø80 mm, with Ø19 mm fitting. (For Duramin-4/-100/-150/-160/-170/-600/-650/-3000) N.B. For Duramin-100/-170/-650, add 06709219.	06709212

Product	Description	Item number
	Small V-Anvil 3-20mm, requires base plate (Requires Manual/Autom. X-Y stage) V-anvil for base plate 06709227. For workpieces 3-20 mm. dia.	06709225
	Large V-Anvil 20-75mm, requires base plate (Requires Manual/Autom. X-Y stage) V-anvil for base plate 06709227. For workpieces 20-75 mm. Dia	06709226
	Base plate for V-anvils 06709225 & 06709226. Size 100 x 100 mm, with positioning holes for mounting on XY-stage.	06709227
	Quick change anvil base (required for mounting testing tables, anvils) Required for mouting fixed anvils on Duramin-100/-170/-650. With external thread and Ø19 mm bore.	06709219
	Testing table flat Ø180mm, screwfix. (For Duramin-150/-160) To be screwed onto spindle.	06709218
	Testing table Ø200mm (For Duramin-600/-3000)	06709253
	Testing table Ø235mm (For Duramin-600/-3000)	06709254
	Large flat surface testing table 350x250mm, thickness 30mm with 2 T-slots, for large components. For Duramin-100/170/600/650/3000. For mounting on Du- add 06709220 and 06709219 ramin-100/170/650 add 06709217 For mounting on Duramin-150/160 add 06709221. For mouting on Duramin-600/3000	06709205
	Large flat surface testing table 450x350mm, thickness 35mm with 2 T-slots, for large components. For Duramin-100/170/600/650/3000. For mounting on add 06709220 and 06709219 Duramin-100/170/650 add 06709217 For mounting on Duramin-150/160 add 06709221 For mouting on Duramin-600/3000	06709206
	Large flat surface testing table 600x300mm, thickness 25mm, with 2 T-slots, for large light components With 2 T-slots, thickness 25 mm. For large, light workpieces.(For Duramin-100/-170/-600/-650) Requires 06709219 and 0670922	06709207

Accessories brinell hardness tester

Product	Description	Item number
	For Duramin-3000. Nose cone for clamping of specimen.	06709228

CUTTING

MOUNTING

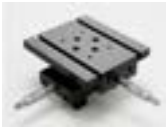
GRINDING

POLISHING

VERIFICATION

ACCESSORIES

Manual Stages

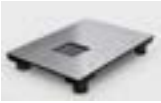
Product	Description	Item number
	Manual XY-stage, 100x100mm Manual X-Y stage with analogue metric micrometers, 100x100mm Duramin4 M2 needs 06709261 in order to mount the stage on the spindle.	06709260
	Manual XY-stage, large For Duramin-40 M/150/160/600/650 M. With positioning holes. Size 180x160 mm, stroke 25x25 mm, resolution 0.01 mm. Max load 300 kg NOTE! This is a large stage alternative for Duramin-40 M. Max load 300 kgf. For Duramin-40 M, add 06709230. For Duramin-150/160, add 06709231 and 06709232 For Duramin-600/650, add 06709233 and 06709234 For digital micrometers, see 06709216	06709215
	Fixing bush, manual XY-stage, D-100/-150/-160 For mounting of manual XY-stage 06709215 on Duramin-100/-150/-160. Also add 06709232	06709231
	Fixing bush, manual XY-stage, D-600/-650 For mounting of manual XY-stage 06709215 on Duramin-600 Also add 06709234	06709233
	Fixing plate, manual XY-stage, D-100/-150/-160 For mounting of manual XY-stage 06709215 on Duramin-100/-150/-160. Also add 06709231	06709232
	Fixing plate, manual XY-stage, D-600/-650 For mounting of manual XY-stage 06709215 on Duramin-600 Also add 06709233	06709234
	Adapter plate for large XY-stage NOTE! For Duramin-40 Adapter plate for mounting of large XY-stage 06709215. • Connecting plate for Duramin-40	06709230

Motorized Stages

Product	Description	Item number
	Motorized XY stage 257x188mm, Duramin-40 Motorized CNC X-Y stage, 257x188mm, total load up to 400Kgf max Displacement: 120x100mm, resolution 0.001 mm, repeatability +/-0.003mm NOTE! For Duramin-40 A1/A2/A3/AC1/AC2/AC3, Duramin-100 A2/AC3 and Duramin-650 A1/A2/A3/AC1/AC2/AC3 If ordering with new machine Remember to deduct the price of the standard stage for the machine. Standard stage: Duramin-40A/AC standard stage 06709245 Duramin-100 standard stage 06709246 Duramin-650AC1 standard stage 06709237 Duramin-650AC2/3 standard stage 06709239	06709244
	Motorized CNC X-Y stage, 307x208mm, total load up to 400Kgf max Displacement: 170x120mm, resolution 0.001mm, repeatability +/-0.003mm NOTE! Standard on D-170A, also fits on on D-40A/AC, D-100A, D-650A/AC Remember to deduct the price of the standard stage for the machine. Standard stage: Duramin-40A/AC standard stage 06709245 Duramin-100 standard stage 06709246 Duramin-170A standard stage 06709241 Duramin-650AC1 standard stage 06709237 Duramin-650AC2/3 standard stage 06709239	06709241
	Motorized XY Stage, 337x188mm, total load 400kgf, duramin-100 Motorized CNC X-Y stage, 337x188mm, total load up to 400Kgf max Displacement: 200x100mm, resolution +/- 0.001mm, repeatability +/-0.003mm NOTE! Standard on D-100A, also fits on on D-40A/AC, D-170A, D-650A/AC Remember to deduct the price of the standard stage for the machine. Standard stage: Duramin-40A/AC standard stage 06709245 Duramin-100 standard stage 06709246 Duramin-170A standard stage 06709241 Duramin-650AC1 standard stage 06709237 Duramin-650AC2/3 standard stage 06709239	06709246
	Motorized XY stage, 337x238mm, total load 400 kgf, Duramin-170/650 Motorized CNC X-Y stage, 337x238mm, total load up to 400Kgf max. Displacement: 200x150mm, resolution 0.001mm, repeatability +/- 0.003mm NOTE! Standard on D-650A/AC1, also fits on D-100A, D-170A D-650A/AC2/3 Remember to deduct the price of the standard stage for the machine. Standard stage: Duramin-40A/AC standard stage 06709245 Duramin-100 standard stage 06709246 Duramin-170A standard stage 06709241 Duramin-650AC1 standard stage 06709237 Duramin-650AC2/3 standard stage 06709239	06709237

Product	Description	Item number
	Motorized XY stage, 357x208mm, Duramin-40 Motorized CNC X-Y stage, 357x208mm, total load up to 400Kgf max Displacement: 220x120mm, resolution 0.001mm, repeatability +/- 0.003mm NOTE! Standard on D-40A/AC, also fits on on D-100A, D-170A, D-650A/AC Remember to deduct the price of the standard stage for the machine. Standard stage: Duramin-40A/AC standard stage 06709245 Duramin-100 standard stage 06709246 Duramin-170A standard stage 06709241 Duramin-650AC1 standard stage 06709237 Duramin-650AC2/3 standard stage 06709239	06709245
	Motorized XY stage, 410X280mm, total load 4000 kgf, Duramin-170/-650 Motorized CNC X-Y stage, 410X280mm, total load up to 4000Kgf max. Displacement: 200x150mm, resolution 0.001mm, repeatability +/- 0.008mm NOTE! Standard on D-650A/AC2/3 , also fits on D-100A, D-170A D-650A/AC1 Remember to deduct the price of the standard stage for the machine. Standard stage: Duramin-40A/AC standard stage 06709245 Duramin-100 standard stage 06709246 Duramin-170A standard stage 06709241 Duramin-650AC1 standard stage 06709237 Duramin-650AC2/3 standard stage 06709239	06709239
	Motorized XY stage, 437x238mm total load 450 kgf, Duramin-100/170/650 Motorized CNC X-Y stage, 437x238mm, total load up to 450Kgf max. Dis- placement: 300x150mm, resolution 0.001mm, repeatability +/- 0.003mm Remember to deduct the price of the standard stage for the machine. Standard stage: Duramin-40A/AC standard stage 06709245 Duramin-100 standard stage 06709246 Duramin-170A standard stage 06709241 Duramin-650AC1 standard stage 06709237 Duramin-650AC2/3 standard stage 06709239	06709238
	Motorized XY stage, 630x238mm total load 450 kgf, duramin-100/170/650 Motorized XY stage, 630x238mm, Stroke 400x150mm. Total maximum load 450 kgf, Resolution +/- 0.001mm, Repeatability +/- 0.003mm. NOTE! For Duramin-100/170A/650AC Remember to deduct the price of the standard stage for the machine. Standard stage: Duramin-40A/AC standard stage 06709245 Duramin-100 standard stage 06709246 Duramin-170A standard stage 06709241 Duramin-650AC1 standard stage 06709237 Duramin-650AC2/3 standard stage 06709239	06709242
	Motorized CNC X-Y stage, 630x238mm, total load up to 4000Kgf max. Displacement: 400x150mm, resolution 0.001mm, repeatability +/- 0.008mm Remember to deduct the price of the standard stage for the machine. Standard stage: Duramin-40A/AC standard stage 06709245 Duramin-100 standard stage 06709246 Duramin-170A standard stage 06709241 Duramin-650AC1 standard stage 06709237 Duramin-650AC2/3 standard stage 06709239	06709243

Anti vibration tables

Product	Description	Item number
	Passive vibration isolation stage, broad spectrum (For all variants of Duramin-4/-40)	06709229
	Passive vibration isolation stage, broad spectrum (For all variants of Duramin-100/-170/-650)	06709270

CUTTING

MOUNTING

GRINDING

POLISHING

VERIFICATION

ACCESSORIES

Machine tables/cabinet

Product	Description	Item number
	Cabinet test table with drawer for hardness testers 71x75x70cm (For Duramin-170/-650) Note! The Cabinet will be delivered without pre-made hole in the Table Top.	06709901
	Cabinet test table with drawer for hardness testers 71x90x57cm (For Duramin-600) Note! The Cabinet will be delivered without pre-made hole in the Table Top.	06709902
	Cabinet for Duramin-150/-160. H825 x W710 x D750 mm Note! The Cabinet will be delivered without pre-made hole in the Table Top.	06709903
	Cabinet test table with drawer for hardness testers 150x75x80cm (For Duramin-4/-40/-100) Note! The Cabinet will be delivered without pre-made hole in the Table Top.	06709904

Duramin software modules

Description	Item number
Weld measurement module Dedicated Weld Hardness measurement module for defining patterns according to base material, HAZ and Weld zone. • Customizable pattern, it can be adapted to any weld geometries. • Allows accurate positioning of the indents along the Fusion Line with specific distance from the surface (according to international standards). NOTE! Optional for Duramin-40 A1/A2/A3/AC1/AC2/AC3, Duramin-100 A2/AC3 and Duramin-650 AC1/AC2/AC3. This product requires a software license. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery, Serial number and info.tar file is required for the machine the module license is to be installed on and a mail address of the person who shall receive the module license. The module license is sent on mail as a file and with a document describing how to install the new license file. The serial number and info.tar file are found by going to "Tester -> Info", in the Duramin software. By clicking "Export info" in the lower left corner of the "Info" dialog, the info.tar file will be generated and sent to the desktop of the hardness tester. Please include this file when placing the order.	06703001
Fracture toughness (Kc) module Module for measuring Fracture Toughness K_{Ic} using Nihara's formulation. • Easy to identify the crack tips thanks to the magnifying lens tool. • Different formulations for Palmqvist and Median fracture models. NOTE! Optional for Duramin-40, Duramin-100, Duramin- 600 and Duramin-650 This product requires a software license. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery, Serial number and info.tar file is required for the machine the module license is to be installed on and a mail address of the person who shall receive the module license. The module license is sent on mail as a file and with a document describing how to install the new license file. The serial number and info.tar file are found by going to "Tester -> Info", in the Duramin software. By clicking "Export info" in the lower left corner of the "Info" dialog, the info.tar file will be generated and sent to the desktop of the hardness tester. Please include this file when placing the order.	06703002
Cartridge testing module Module for testing shells/casings according to ammunition industry demands. • Easy data management for multiple indents along the length of the cartridge. • The fully automatic test procedure generates a detailed report, providing single readings and statistics with Go/No Go indication. NOTE! For Duramin-40 A1/A2/A3/AC1/AC2/AC3 and 100 A2/AC3. This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703003

Description	Item number
CHD testing module CHD test module for machines with automatic stages. Enables CHD, SHD and NHD testing patterns. • Quick setup for test, analysis and reporting of surface treated samples. • Easy to position indentation patterns perpendicular to the surface thanks to the “Edge Detection” function. • Automatic test termination to reduce testing duration and save time. NOTE! Included as standard in Duramin-40 A1/A2/A3/AC1/AC2/AC3 and 100A2/AC3 Optional for Duramin-650 AC1 (06703005, Test point editor is required). This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703004
CHD, SHD, NHD testing module, manual XY-stage Module for enabling CHD, SHD, NHD patterns on manual stages. • Ideal for simple hardening depth tests which do not require an automatic stage. NOTE! For Duramin-40 M. Supports manual & digital micrometer stages only. 2 x 06709216 is strongly recommended (not including full pattern editor) For Duramin-600, Supports manual & digital micrometer stages only. 2 x 06709216 is strongly recommended. Also requires 1 x 06709215 This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703015
Test point editor Module for defining and setting up basic test patterns (line, square, zigzag, triangle) on testers with a motorized stage. • Create simple patterns in a few seconds. • Possibility to set up multiple patterns for automatic testing on multiple samples. NOTE! 06703005 is included as standard in all machines with a motorised XY-stage For Duramin-40M & Duramin-650M Use 06703016 This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703005

Description	Item number
Test point editor Advanced 3 axis coordinate & free style indent pattern configurator, +CHD, SHD, NHD and edge detection.. Enables advanced testing even on manual stages. NOTE! For Duramin-40 M and Duramin-650 M. Supports manual & digital micrometer stages only. 2 units of 06709216 is strongly recommended This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703016
Drawing and measurement module Module for annotations and manual measurements for simple non-hardness measurements (distances and angles). - For quick and accurate measurements on the surface without the need of an external microscope and software. - Measurements can be saved and included in a report with just a few clicks. NOTE! For For Duramin-40/-100/-600/-650. This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703017
(De-)carb.test acc.to ISO 898-1(screw threads) Module for detection and analysis of fastener threads in order to find appropriate test locations for a three-point ISO 898-1 pattern. - Automatic contour detection of the thread. - The pattern consists of a reference point, a point for testing for “Decarburization” and a point for testing for “Carburization”. NOTE! For Duramin-40 A1/A2/A3/AC1/AC2/AC3 and Duramin-100 A2/AC3. Requires 06703009, automatic contour scanning This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703006

Description	Item number
Remote control module Module for enabling remote control of the hardness tester using TCP/IP. • Communication interface. • The module allows the HAT to be controlled remotely using TCP/IP communication protocol. • The hardness testers can be remotely controlled by an Ethernet connection using the TCP/IP protocol. In order for this to function properly the hardness tester must be configured to allow communication via an Ethernet connection, wired or wireless. NOTE! Contact Product Manager for Duramin Hardnesstesters before offering this item For Duramin-40/Duramin-100/Duramin-600 and Duramin-650. This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703007
Automatic edge detection Module for edge recognition for creating test pattern parallel to the specimen edge. • For quick positioning of indents at specific distance and angles with respect to the sample contour. • Useful for automatic extensive analysis of surface hardness and hardening depth. NOTE! For Duramin-40 A1/A2/A3/AC1/AC2/AC3, Duramin-100 A2/AC3 and Duramin-650 AC1/AC2/AC3. This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703008
Automatic contour scanning Module for scanning the full contour of the specimen. • Builds a 2D model of the sample within seconds. • Enables the use of area hardness mapping. • Allows to measure the surface hardness around the sample or position the measurement points according to the geometry. NOTE! For Duramin-40 A1/A2/A3/AC1/AC2/AC3, Duramin-100 A2 /AC3 and Duramin-650 AC1/AC2/AC3. Includes Edge detection (06703008). This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703009

Description	Item number
Automatic mapping module Module for 2D or 3D hardness mapping over areas or scanned contours. - Creates a color map of the full surface, allowing to identify hardness variations and criticalities in the sample. - Ideal for extrapolation of mechanical properties of materials on the whole surface. NOTE! For Duramin-40 A1/A2/A3/AC1/AC2/AC3, Duramin-100 A2/AC3 and Duramin-650 AC1/AC2/AC3. Includes automatic contour scanning module (06703009) and Automatic edge detection (06703008). This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703010
Force/Depth/Time Diagram This feature will show the depth of the indenter in the material while performing a Rockwell measurement. The force/depth diagram contains the visualisation of the relation between indenter depth and the force applied. When advanced control of loading conditions is necessary. NOTE! For Duramin-100, Duramin-600 and Duramin-650 This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703019
Image stitching module Module for scanning and stitching for a full stage overview or detailed images of larger areas of a test sample. - Ideal for large samples such as big welds and large mechanical components. - No need for external microscopes and additional wide angle lenses. NOTE! For Duramins with motorized stages This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703018

Description	Item number
Q-DAS certify. Connection protocol Module for exporting test results in QDAS format (Aq def or Dfd/Dfx). Q-DAS labels each data field with K- numbers, where each K number stands for a standardized value so everybody that works according to this format, knows where each data field stands for without conversion. It is often used in car manufacturing. Our system generates these K fields in the export where a lot of common values like hardness value, limits, date/time stamp etc are standard in the export. If a user wishes to add extra K-fields that are not standard generated by us, he needs to make a Job or program and add these extra K-fields. • Ideal for implementation in large testing facilities. • For efficient data management and tracking of complex data sets. NOTE! For Duramin-40, Duramin-100, Duramin-600 and Duramin-650 This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703012
Duramin utility software Module for exporting test results, scale and time stamp directly into Microsoft Excel on an external PC. Connecting cable to laptop, a comport will appear in Windows. Setup Utility software so each test is sen into the active cell in Excel. • It allows raw data export in real time for customized data post processing. • Perfect for laboratories where remote data storage and analysis are necessary. NOTE! To be used with 2WC00103 for Duramin-150 and Duramin-4 To be used in connection with cable 06703906 for all other Duramin's. This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703013
Description: Tap screw measure (ISO2702) Module for fully automatic testing according to ISO 2702 for screw thread measurement of (de)-carbonized parts. • Allows to select screw type for easy testing according to ISO 2702. NOTE! For Duramin-40 A1/A2/A3/AC1/AC2/AC3, Duramin-100 A2/AC3 and Duramin-650 AC1/AC2/AC3. This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703021

Description	Item number
Description: Artificial Intelligence For Brinell Testing The AI model is trained through machine learning using a large volume of indents to train the system to correctly identify and measure indents. The software calculates each new indent based on its previous learning hereby improving measurement accuracy. The AI function improves the ability to detect new indentations that can be difficult to identify in other automated systems, as it is often the case with shallow indents or in rough surface materials that have undergone less metallographic preparation steps. NOTE! For Duramin-100, Duramin-600 and Duramin-650 This product is a software module. When ordered together with machine the module will be installed and ready for use. When ordering as aftersales delivery Serial number and info file from the D-drive (found on computer/D-drive/Duramin folder/info) is required of the machine the module is to be installed on and a mail address of the person who shall receive the module. The software module is sent on mail with the software module attached as a file including a document describing how to install.	06703022
Description	Item number
Optional Load for Duramin-100 Optional Load range of 10gF to 50gF for Duramin-100. To be ordered together with a new machine. Installation and Calibration Included. Consider need for adding additional Objective (not included in this article).	06709930



A SOLUTION FOR EVERY MATERIAL

Struers provides a broad range of hardness testing equipment suitable for every material and method, ranging from tabletop solutions to heavy-duty floor models.

As materialographic specialists, we know that your equipment will only deliver the right result if it is calibrated for your lab and your requirements.

That’s why, with Struers you get far more than class-leading equipment – you get a complete package of services to ensure everything is set up correctly from day one, with ongoing support to guarantee optimal performance and results far into the future.

Vickers testing for all materials

Vickers hardness test is often applied to determine hardness in materials in the micro hardness test load range.

Test method	Application	Product*
HV 0.01 HV 0.025 HV 0.05	Small geometries Thin layers Ceramics	Duramin-4 Duramin-40 Duramin-100
HV 0.1 HV 0.2 HV 0.3 HV 0.5	Hardness progressions (CHD, Eht or Nht)	Duramin-4 Duramin-40 Duramin-100
HV 1 HV 2 HV 3	Hardness progressions (CHD, Eht or Nht) Surface hardness testing	Duramin-40 Duramin-100 Duramin-600
HV 5 HV 10 HV 20	Welding test Sintered metals	Duramin-40 Duramin-100 Duramin-600
HV 30 HV 50 HV 100	Jominy Test, surface hardness testing Surface hardness testing Surface hardness testing	Duramin-40 Duramin-100 Duramin-600

* To find the right configuration for your hardness tester, please contact your local Struers representative.

Brinell testing for coarse or inhomogeneous grain structure materials

Brinell hardness testing is used for larger samples in materials with a coarse or inhomogeneous grain structure.

Load factor	Application / material	Test method (Ball size / load kgF)	Hardness range (HBW)	Product*
HB 30	Steel high carbon Steel alloy annealed Steel alloy hardened Iron Titanium	HBW 1/30 HBW 2.5/187.5 HBW 5/750 HBW 10/3000	95 ~ 650	Duramin-40 Duramin-100 Duramin-600 Duramin-650 Duramin-3000
HB 10	Light metals, Steel low carbon Cu / Al Cu-Alloys Alu-Alloys Mg-Alloys (hardened) Nickel annealed	HBW 1/10 HBW 2.5/62.5 HBW 5/25 HBW 10/1000	32 ~ 220	Duramin-40 Duramin-100 Duramin-600 Duramin-650 Duramin-3000
HB 5	Light metals Steel low carbon Cu / Al Cu-Alloys Alu-Alloys Mg-Alloys (hardened) Nickel annealed	HBW 1/5 HBW 2.5/31.25 HBW 5/12.5 HBW 10/500	16 ~ 110	Duramin-40 Duramin-100 Duramin-600 Duramin-650 Duramin-3000
HB 2.5	Light metals Zinc	HBW 1/2.5 HBW 2.5/15.625 HBW 5/62.5 HBW 10/250	8 ~ 55	Duramin-40 Duramin-100 Duramin-600 Duramin-650 Duramin-3000
HB 1	Light metals Lead Tin	HBW 1/1 HBW 2.5/6.25 HBW 5/25 HBW 10/100	3 ~ 22	Duramin-4 Duramin-40 Duramin-100 Duramin-600 Duramin-650 Duramin-3000

* To find the right configuration for your hardness tester, please contact your local Struers representative.

CUTTING

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ACCESSORIES

Knoop testing for thin layer and brittle materials

Knoop hardness test is often applied for testing of thin layers, such as coatings, or to test crackings in brittle materials.

Test method	Application	Product*
HK 0.001	Small geometries Thin layers Brittle materials Ceramics	Duramin-4
HK 0.005		Duramin-40
HK 0.01		Duramin-100
HK 0.025		Duramin-600
HK 0.05		Duramin-650
HK 0.1		
HK 0.2		
HK 0.3		
HK 0.5		
HK 1		
HK 2		

Rockwell testing - regular, for wide variety of materials

Rockwell hardness testing is considered as a relatively quick and easy hardness testing for a wide variety of materials.

Regular Rockwell uses a minor load of 10kg. Main load may be either 60kg, 100kg or 150kg				
Scale	Typical Application	Main load (kg)	Hardness range	Product*
HRA	Cemented carbides, thin steel and shallow case-hardened steel	60	20-88 HRA	
HRB	Copper alloys, soft steel aluminum alloys, malleable Iron, etc.	100	20-100 HRB	
HRC	Steel, hard cast irons, pearlitic malleable iron, titanium, deep cased hardened steel	150	20-70 HRC	
HRD	Thin steel and medium case-hardened steel and pearlitic malleable iron	100	40-77 HRD	Duramin-150 Duramin-160 Duramin-160Z Duramin-100 Duramin-600 Duramin-650
HRE	Cast iron, aluminum and magnesium alloys, bearing metal	100	70-100 HRE	
HRF	Annealed copper alloys, thin soft sheet metals	60	60-100 HRF	
HRG	Phosphor bronze, Beryllium Copper, malleable Irons,	100	30-94 HRG	
HRH	Aluminum, Zinc lead	100	80-100 HRH	
HRK	Bearing metals and other very soft or thin materials including plastics.	100	40-100 HRK	

Rockwell testing - superficial for thin layer materials

Superficial Rockwell is of particular use for testing hardness of thin samples or layers. It is also used for materials having the measured hardness outside the Regular Rockwell scale.

Superficial Rockwell uses a minor load of 3kg. Main load may be either 15kg, 30kg or 45kg				
Scale	Typical Application	Main load (kg)	Hardness range	Product*
HR 15N	Shallow hardened steels	15	69-94 HR 15N	Dramin-150 Duramin-160 Duramin-160Z Duramin-100 Duramin-600** Duramin-650**
HR 30N	Hard alloys other than hardened steel Hard thermal spray coatings like ceramics and carbides	30	41-85 HR 30N	
HR 45N	Also used for shallow indentations of e.g. sheet metal	45	19-76 HR 45N	
HR 15T	Soft steel Copper	15	77-93 HR 15T	
HR 30T	Aluminium alloy etc. Also used for shallow indentations of e.g. sheet metal	30	53-82 HR 30T	
HR 45T		45	28-71 HR 45T	
HR 15W	Nonmetallic materials Coatings (very soft materials)	15	HR 15W	
HR 30W		30	HR 30W	
HR 45W		45	HR 45W	
HR 15X		15	HR 15X	
HR 30X		30	HR 30X	
HR 45X		45	HR 45X	
HR 15Y		15	HR 15Y	
HR 30Y		30	HR 30Y	
HR 45Y		45	HR 45Y	

* To find the right configuration for your hardness tester, please contact your local Struers representative.

** Requires extra load cell

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The Flexible specimen holder is the only specimen holder on the market that can hold odd-shaped specimens without clamping. Combine it with our Tegramin-25/-30 and LaboForce-100 specimen mover and you can upgrade your manual grinding and polishing solution to semi-automatic. As a result, you benefit from a safer and faster process – and significantly higher reproducibility.

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- ✓ **Improve health & safety** by reducing strain on your wrist, elbows and shoulders
- ✓ **Boost throughput and efficiency** with a fast, clamp-free solution for odd-shaped specimens
- ✓ **Reduce process time** with high efficiency grinding surfaces

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time by up to
40 %



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MATERIALOGRAPHIC TRAINING COURSES

In our materialographic training courses, we combine theoretical understanding of the materialographic process with a practical approach, focusing on choosing and using suitable solutions and techniques.

To support the requirements of specimen preparation and examination, we also offer specific courses on hardness testing and microscopy.

Our TPM (The Professional Materialographer) training courses cover the entire materialographic process, from cutting to specimen analysis and verification.

Customized training, including specific processes or materials, can be arranged. Also training of lab teams in their own facilities is offered.

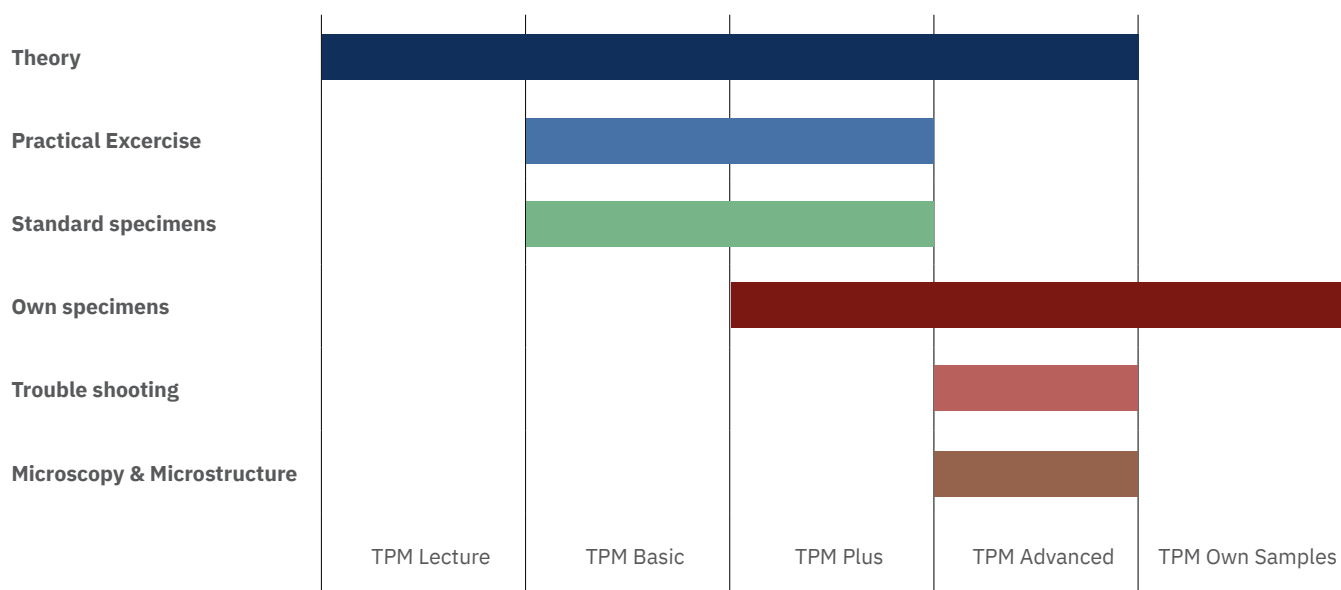
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“I really appreciate the high mentor to studio ratio in the lab work. It meant there was no wasted time. Overall, the experience was terrific.”

Course participant, TPM Plus





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| <p>Theory</p> <ul style="list-style-type: none"> • Increased theoretical knowledge base • Input to optimize materialographic process • Tools to select consumables | <p>Own specimens</p> <ul style="list-style-type: none"> • New timesaving and quality improving method to implement in your own lab • Solve relevant problems appearing in your own lab • Start using new unrevealed features on your own equipment that will assist preparation |
| <p>Practical Exercise</p> <ul style="list-style-type: none"> • See your own tasks in a new perspective • Application of the latest theories in a practical context • Introduction to how to save time and increase safety with the latest techniques | <p>Trouble-shooting</p> <ul style="list-style-type: none"> • Prepared to address future problems • Independent and fast problem solving on your own • Less trial and error, more systematic and straight to the point in problem solving |
| <p>Standard Specimens</p> <ul style="list-style-type: none"> • Experience with hands-on preparation • Application of selection guides for method selection • Introduction to changes for method optimization | <p>Microscopy & Microstructure</p> <ul style="list-style-type: none"> • Identify preparation artefacts quickly and resolve them • Use your own microscope better • Integrate microscopy as an active part of preparation to get efficient preparation |



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Ensuring certainty

Materialographic preparation and testing demands consistent, reproducible results. These come not only from your laboratory process, operators and equipment, but from your supply chain and your partner. As a Struers customer you benefit from high quality design and engineering of equipment and consumables, but just as much from our unique knowledge base, robust global supply chain, and expert service and applications support – where and when you need it. We call all this ensuring certainty

Struers remains dedicated to making the world a better place through the pursuit of deep scientific insights and ground-breaking technology. Today, we're your trusted partner in a fast-changing world, sharing our expertise and practical experience on a global scale. This gives you innovative solutions that help you face the future with confidence. We continue to lead the way in materialographic products and services, and to shape future developments towards a better society.