

Catalogue for Scientific Examination of Materials And Analysis of Non-Metal Materials

Year 2026

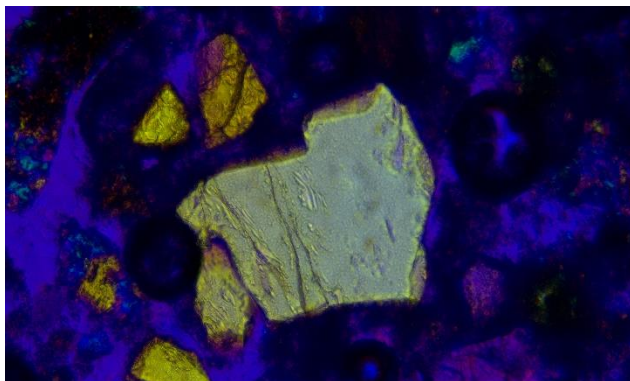
Thin Section Techniques



We are specialized on industrial sample processing.

Thin Section Technique

Consumable Materials
Accessories for manual production
Compact unit for sample separations
and thin sections



Service

Sample processing
Sample evaluation
On-site training
Online consulting

Application videos



Look out for our special jubilee offers!

We introduce ourselves Company

As a specialist for applications of non-metal materials, we offer a wide range of service for all questions of sample preparation – microscopy – digital image recording and image processing.

After 14 years at a well-known manufacturer in these themes, the company MicroKern was founded in 2001.

We celebrate our 25th anniversary!

Side by side with reputable manufacturer, scientists and partners, we are your first contact for these applications. With this orientation on defined applications and customer segments, we guarantee high competences and current knowledge.

We offer consumable materials, add-ons and technical solutions, which we optimise in price and efficiency. We develop our systems for you with our partners and produce components and add-ons on our own. **Products from our own development.**

Specifically, for microtomy and thin section techniques we work together with our customers on the issues of the day.

In 2003 our Training Centre was established. Our aim was it, to offer our customers small groups, experienced speakers and mentors in application-oriented trainings. Equipped with the latest devices, microscopes, digital systems and image processing programs, we are proud to welcomed over 590 participants.

Not self-evident, but we offer our trainings for our customers even on-site. Meanwhile we successfully trained already more than 120 companies. These special trainings are tailored to the need of people, their applications and equipment. They are a useful addition and are becoming more and more popular!

In 2016 our laboratory was established. We process your samples, help by finding solutions with embedding, microtomy, thin section technique and microscopic analysis. My qualified team is looking forward to your challenge.

We are looking forward to a future cooperation!



Martin Kern

M.Sc. Geology and Economy

Founder of the Company

- ✓ 2001 established MicroKern
- ✓ Founders 'Award by Berlin-Neukölln (2003)
- ✓ 2003 established Microscopy Centre Berlin
- ✓ 2016 established Laboratory of Application

Author of the books

- ✓ Observation and Measurement Microscopy in Materials Science (2007) – English and German
- ✓ Geologie im Gelände (1988 und 1999) – *only* in German
- ✓ Mikroskopische Technik für die industrielle Anwendung (2003) – *only* in German
- ✓ Die Top 40 Fragen rund um die Mikroskopie (2014) – *only* in German
- ✓ Präparation und Mikroskopie für nichtmetallische Werkstoffe und Verbunde (2019) – *only* in German
- ✓ Mitautor wissenschaftlicher Veröffentlichungen – *only* in German

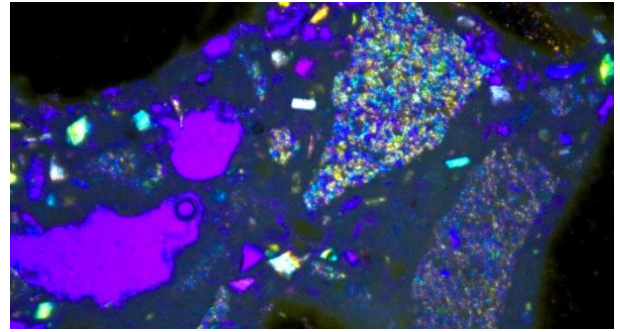
Since 2009 lecturer at **Lette Vereins-Berlin, dep. Metallographic and Materials Technology**, with the focus on materials technology, materials of non-metals and microscopy.

Official partner of BHT-University (Berlin) and Lette Verein-Berlin.

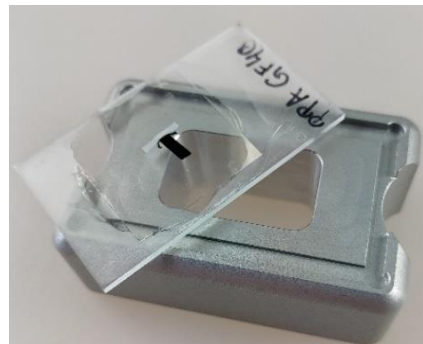


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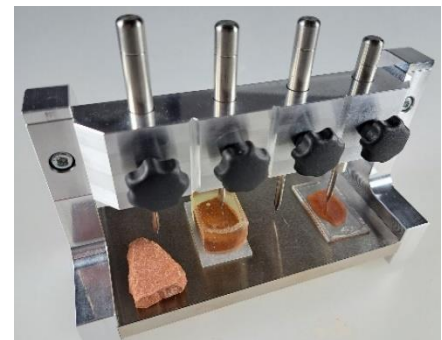
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Grinding holder for cutting machines



Thin section holder



Sample press

Thin Section Techniques

News

LED-Lighting for stereo microscopy

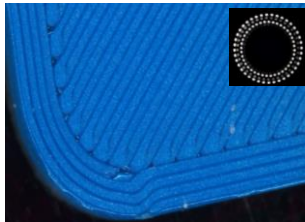
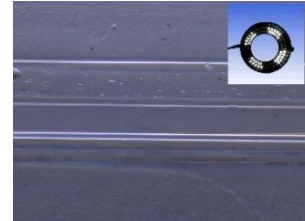


LED-lighting will be more and more used in application areas. For the microscopy we can offer a large program for almost all applications from our partner Schott. As usual in high quality and liability.



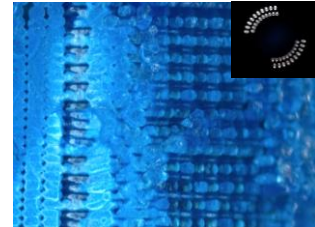
Advantage LED lighting

- Long LED-lifespan (up to 50.000 hours)
- Cost savings (Halogen lamps)
- Low warmth development
- Rippel- and flicker free lighting
- Control of singular LED's (Segments)
- Low active cooling (fan) low noise and vibration

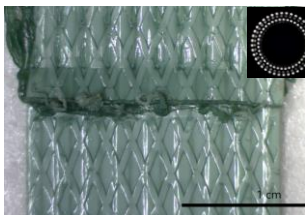


Application example

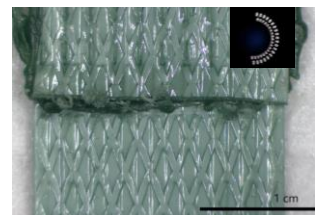
3D print surface – Regular ring lighting (left) and relief lighting (right) for break structure in oblique light.



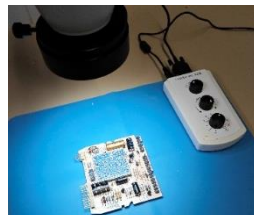
Ammonite – prepared for species identification. Left in full-circle lighting. Right for exact identification of fine lines (Loben line) in quarter-circle.



Glue point in reflected light full-circle (left) and half-circle (right) for examination of glue artefacts.



For all stereo microscopes we offer adapter for ALL object diameters – thanks to 3D print!



Cut-off Wheels for Thin Section Preparation

For the production of even and high-quality thin sections – specially for composites, we recommend SiC cut-off wheels. With these very thin wheels it is possible to produce precise section results by using our slide holder.



More cut-off wheels on request.

Cut-off Wheels SiC, Package 5 pieces		
Article Number	Description	Price
PCut011	Diameter 150mm, 20mm drill, 0,5mm thickness	102,00 €
PCut012	Diameter 200mm, 12,7mm drill, 0,8mm thickness	146,00 €

Cut-off Wheels, Corundum, Package 5 pieces		
Article Number	Description	Price
PCut009	Diameter 150mm, 12,7mm drill, 0,5mm thickness	102,00 €
PCut010	Diameter 200mm, 12,7mm drill, 0,8mm thickness	147,00 €

Cut-off Wheels Diamond, Nickel-bound, 1 piece		
Article Number	Description	Price
DiaCut022	Diameter 150mm, 12,7mm drill, 1,5mm thickness	565,00 €
DiaCut024	Diameter 200mm, 12,7mm drill, 1,8mm thickness	699,00 €

Embedding Media for Thin Section Preparation

In microtomy it is important to observe some parameter:

- ✓ Clear (for transmitted light microscopy)
- ✓ Low hardening temperature (avoid thermic damage)
- ✓ Low viscosity (infiltration porous material)
- ✓ Good edge seal
- ✓ Accelerate digestion
- ✓ Cutting with steel or hard metal knives








We have all the right materials for you!

Epoxy Resin EPOX clear, low viscosity, low curing temperature, good edge seal		
Article Number	Description	Price
66040437	TECHNOVIT Epox Resin, gap free, UV-colour stable, application possible under vacuum, high transparency good adhesion, glass bottle 1000ml	94,00 €
66040438	TECHNOVIT hardener, regular, 500g	52,00 €

Embedding Media and Units for Microtomy

KULZER Innovations

Light curing embedding media, glass clear, fast embedding		
Article No.	Description	Price
64708496	<p>TECHNOVIT 2000LC, low viscosity, short Curing time, curing temperature up to 50°C Controllable, glass bottle with dosing attachment 1000ml</p> 	138,00 €
66005103	<p>TECHNOVIT 2000 Fixing paste, viscous, to stabilize and orientate larger samples, syringe with 1x4g even for base embedding 1x4g</p> 	46,00 €
66020779	<p>TECHNOVIT 2210 Liquid, fixing paste, middle viscous, to stabilize and orientate small and filigree samples, syringe 2 x 1ml</p> 	46,00 €
66020780	<p>TECHNOVIT 2220, infiltration paste blue, middle viscous to post-infiltrate during preparation, 15g</p> 	76,00 €
66043721	<p>TECHNOVIT 2220, infiltration paste clear, middle viscous to post-infiltrate during preparation, 15g</p>	76,00 €
66043553	<p>NEW: TECHNOVIT Blue LED Mobile for fast single fixing and embedding</p> 	125,00 €

Embedding Media and Units for Microtomy KULZER Innovations

Technotray Power

Generously homogenic lighted space up to 9 specimens

Interiors: WxDxH: 170 x 160 x 120 mm

- ✓ Strong light output (optional 6 tubes à 9 Watt)
- ✓ High-quality aluminium reflectors
- ✓ Automatic timer with 3 settings (5 min., 10 min., permanent)
- ✓ AutoStart when inserting the drawer



KULZER Technotray Polymeration Unit		
Article Number	Description	Price
K66060914	Polymeration Unit for TECHNOVIT 2000LC With max. 6 tubes à 9 Watt, above and below lights. Max. 9 samples curing simultaneously. Drawer for sure insert of the samples.	789,00 €

QATM Infiltrationssystem for embedding under vacuum

Until now an infiltration could only be done after pouring the sample into an embedding mould. Herefore classical exsiccation were used. The results were unsatisfactory, hence the air in the pores or cracks were difficult to expel.

With the support of this new unit of QATM a vacuum can first be generated. Embedding takes place under these conditions.

A simple idea – with an huge effect!



QATM Infiltrations Unit		
Article Number	Description	Price
M6500001	NEW: Infiltration unit, 230 V/50 Hz, vacuum pressure 0,8 bar, W 330 x H 270 x D 300 mm (consisting of exsiccation with mechanical dosing attachment and vacuum pump, rotating wheel e.g. 9 PTFE-embedding mould up to Ø 40 mm, incl. 10 mixing cups)	On request

Embedding Moulds for Thin Section Preparation

The sample size is narrowed down on our glass slides of 28x48 mm for our offered Techniques. We offer suitable embedding moulds. While using light-curing media, pay attention on choosing transparent.

More embedding moulds on request.



Embedding Moulds round, Package 3 pieces		
Article Number	Description	Price
64713126	Embedding mould, round 15mm Ø, white, suitable for light-curing media	18,00 €
64708955	Embedding mould, round 25mm Ø, white, suitable for light-curing media	18,00 €

Embedding Aids for Sample Orientation, Box 1 piece		
Article No.	Description	Price
ClipBox001	Various embedding aids (120 pieces) in a box	57,00 €

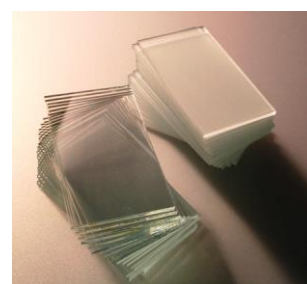


Release Agent for Sampling		
Article No.	Description	Price
TrenM001	Release agent, silicon free, 400ml	33,00 €

Glass Slides and Cover Glasses for Thin Section Preparation

Glass slides of 48x28mm, also known as „Giessener Format“, are used traditionally in thin section production. Nowadays the machine manufacturing of glass slides demands:

- ✓ Low tension glass to avoid glass breakage
- ✓ Glass thickness >1,5mm also to avoid glass breakage
- ✓ Even glass thickness with low tolerances ($\pm 0,05\text{mm}$)
- ✓ Low degrade (time and costs) during plane grinding
- ✓ Grinded edges (90°), to avoid hurts and breakouts
- ✓ Defined refractive index
- ✓ Matting due to selected sand blasting process (grain size)



Our top sellers: sold over 500.000 glass slides
Please note our attractive quantity discounts up to 25%!

In co-operation with W.Knittel Glasbearbeitungs GmbH, as a producer of various standard and special glass slides, we developed high-quality glasses which fulfil these demands.

Produced in Germany, exclusive for MicroKern

Glass Slides 48x28mm, 1,5-1,6mm, Package 50 pieces		
Article No.	Description	Price
MKVY16100028048.01KN	Cut edges, clear (OT)	20,70 €
MKVY16300028048.01KN	Polished edges, clear (OTG)	28,30 €
MKVY16150028048.01KN	Cut edges, grinded (OTM)	27,30 €
MKVY16350028048.01KN	Polished edges, grinded (OTGM)	35,90 €

Glass Slides 50x50mm, 1,5-1,6mm, Package 50 pieces		
Article No.	Description	Price
MKVY16100050050.01KN	Cut edges, clear (OT)	22,00 €
MKVY16300050050.01KN	Polished edges, clear (OTG)	29,80 €
MKVY16150050050.01KN	Cut edges, grinded (OTM)	28,90 €

Glass Slides 100x75mm, 1,5-1,6mm, Package 50 pieces		
Article No.	Description	Price
MKVY16100075100.01KN	Cut edges, clear (OT)	66,80 €

Glass Slides 150x100mm, 1,5-1,6mm, Package 50 pieces		
Article No.	Description	Price
MKVY16100100150KN	Cut edges, clear (OT)	87,50 €
MKVY16150110015KN	Cut edges, grinded (OTM)	104,50 €

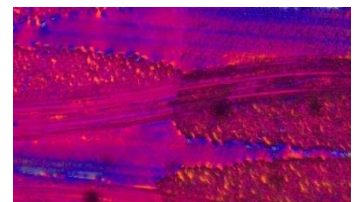
Glass Slides Labelling Pen		
Article No.	Description	Price
8110110	Diamond pen, for labelling glass slides without grinded rim	155,00 €
8110065	labelling pen, waterproof	8,00 €

Cover Glasses 0,17mm Thickness, Package 100 pieces		
Article No.	Description	Price
MK2424Y100KN	Cover glass 24x24mm	8,10 €
MK2440Y100KN	Cover glass 24x40mm	9,90 €
MK5050Y100KN	Cover glass 50x50mm	29,50 €



High Performance Cover Glass 0,17 +/- 0,005mm Thickness, Package 100 pieces

High performance cover glass: Suitable best for objectives with high numeric aperture and hence high resolving assets. The precise compliance with the thickness decisively influences the imaging quality. Strength No. 1.5H (0,17 +/- 0,005 mm), refractive index 1,5255 +/- 0,0015, made of borosilicate glass of hydraulic class 1



Article No.	Description	Price
VD72424Y1A01	Cover glass 24x24mm	31,00 €
VD72440Y1A01	Cover glass 24x40mm	43,00 €

More sizes on request

Adhesive and Mounting Media for Thin Section Preparation

For glueing and covering of the specimen one should use glass clear mounting medium. Specific media are available, which are optimized in viscosity, shrinkage, refractive index and hardening time.

revised



ATTENTION: Be aware of the problematic of different glue thickness between glass slide and sample!

Adhesive and Mounting Media		
Article No.	Description	Price
70936261	Mounting media (xylol), low viscosity, bottle 100ml	75,00 €
1090160100	Mounting media (xylol free) low viscosity, bottle 100ml	81,00 €
66043721	Mounting media Technovit 2220 blue light hardening, xylol free, medium viscosity, clear 15g (look at embedding media)	76,00 €
96090	Cedara wood oil, bottle 100ml	96,00 €
60610	Canada balm, bottle 25ml	129,00 €

*Mounting media Leica CV-Ultra, xylol free, medium viscosity is no longer available. PS material and our plastic plates unfortunately are not xylol resistant!

Glass Slide Holder for Thin Section Preparation

With assistance of our own developed glass slide holder will it be possible to Produce secure and fast thin sections on your existing cutting and grinding machines.
Produced in Germany exclusive by MicroKern



Universal holder for cutting machine (80000026)



Standard Holder for glass slides (80000024)



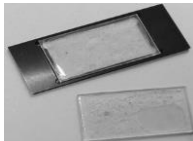
Holder with central aperture for glass slides (80000025)

Application video in preparation



Glass Slides Holder		
Article No.	Description	Price
80000026 <i>MICRO KERN</i> <i>JUBILÄUMS ANGEBOT</i>	Holder for glass slides 48x28mm, cast aluminium, for clamping in all cutting machines , with universal clamping jaws and holder as well as pressure screw, minimum clamping range 56x36x20mm (MK)	230,00 €
80000025 <i>MICRO KERN</i> <i>JUBILÄUMS ANGEBOT</i>	Holder for glass slides open 48x28mm, cast aluminium, form for ergonomic work on <u>manual grinding machines</u> , 56x36x20mm. With central aperture (15x25mm) for direct evaluation under your microscope. The cut must not be taken off. (MK)	194,00 €
80000024 <i>MICRO KERN</i> <i>JUBILÄUMS ANGEBOT</i>	Standard holder for glass slides 48x28mm, cast aluminium, form for ergonomic work on <u>manual grinding machines</u> , 56x36x20mm, 100g, (MK)	175,00 €

Holder Glass Slides

80000029	MICRO KERN <i>Jubiläum's Angebot</i>	Holder for glass slides 76x32mm to 48x28mm, For use of all microtome object guide, 2,00mm thickness (MK)		52,00 €
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NEW: Transmitted Light Table for Holder 80000025

Article No.	Description	Preis
BL-ZW1	<p>NEW: Transmitted light illumination with built-in Rotation polarisation for direct evaluation During grinding process.</p> <p>Size: 100x96x20mm, USB or power supply Usable with holder 80000025</p>	329,00 €

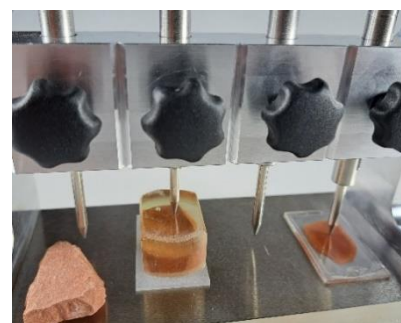


Thin Section Press

Sample press for production of thin sections. Developed for safe application of samples on a glass slide or embedding of thin sections with a cover glass. Four samples can be used simultaneously. Pressing can be fixed individual by spring tensioners.

This press is set absolutely parallel. The ground plate is made of a 16x8cm sized steel plate, which has an extra grinded surface. This ensures absolute plane-parallelism to the spring tensioners. The steel plate is as well extremely stabile against scratches and is easy to clean.

The extra wide aluminium frame and the special rubber feet give a good stability and slip-free working.



Produced in Germany for Micro Kern

Thin Section Press

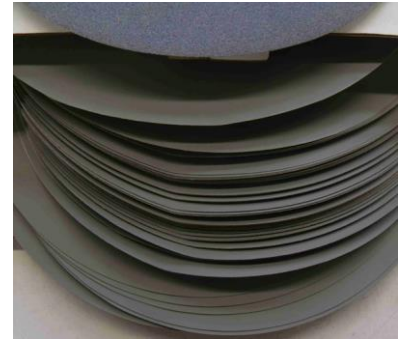
Article No.	Description	Price
80000032 MICRO KERN <i>Jubiläum's Angebot</i>	Thin section press for fixing of thin sections on glass slides and embedding samples with cover glasses. Special spring tensioners for simultaneous work on four samples. For traditional embedding media and glues. Für traditionelle Einbettmedien und Kleber. For light-curing media retrofittable.	699,00 €
	In Preparation: Same like above, but with strong LED (420-480nm) LED under light illumination for fast hardening of thin sections. Compact design, quick fixation and ergonomic design. Replaceable PMMA plate	On request

Grinding Paper for Thin Section Preparation

Grinding paper is used for specimen processing as well as for grinding Technique. Relating to grain size it has to consider that the end thickness has to be reached. We recommend GripFix adapter disc for fast and easy use of grinding paper.

Please take note of the diameter and material of your grinding plate!

More grain, diameters or plate material on request.



Adapter Disc, Magnetic Adhesive for Wet Grinding Paper, Package 1 Piece		
Article No.	Description	Price
GEK024	Adapter disc 200mm Ø	40,00 €
GEK025	Adapter disc 250mm Ø	47,00 €
GEK026	Adapter disc 300mm Ø	57,00 €

Wet Grinding Paper, Package 100 Sheets		
Article No.	Description	Price
Fast removal (with the risk of wedge grinding)		
NSP003	Grain P 180 (75µm) 200mm Ø	62,00 €
NSP029	Grain P 180 (75µm) 250mm Ø	89,00 €
NSP042	Grain P 180 (75µm) 300mm Ø	118,00 €

Plane grinding and removal (with the risk of wedge grinding)		
Article No.	Description	Price
NSP006	Grain P 400 (35µm) 200mm Ø	62,00 €
NSP032	Grain P 400 (35µm) 250mm Ø	89,00 €
NSP045	Grain P 400 (35µm) 300mm Ø	117,00 €

Plane and fine grinding		
Article No.	Description	Price
NSP009	Grain P 800 (22µm) 200mm Ø	62,00 €
NSP035	Grain P 800 (22µm) 250mm Ø	89,00 €
NSP048	Grain P 800 (22µm) 300mm Ø	117,00 €

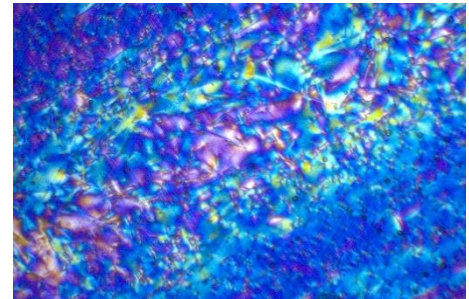
Fine grinding		
Article No.	Description	Price
NSP011	Grain P 1200 (15µm) 200mm Ø	62,00 €
NSP024	Grain P 1200 (15µm) 250mm Ø	89,00 €
NSP050	Grain P 1200 (15µm) 300mm Ø	117,00 €

Fine grinding and pre-polish		
Article No.	Description	Price
NSP013	Grain P 2500 (10µm) 200mm Ø	77,00 €
NSP039	Grain P 2500 (10µm) 250mm Ø	109,00 €
NSP052	Grain P 2500 (10µm) 300mm Ø	148,00 €

Final polish (Thin section)		
NSP138	Grain P 4000 (5µm) 200mm Ø	134,00 €
NSP140	Grain P 4000(5µm) 250mm Ø	191,00 €
NSP141	Grain P 4000 (5µm) 300mm Ø	281,00 €
NEW: Sanding foil (enables very gentle and flat pre-polishing for thin sanding) for high surface quality		
Article No.	Description	Price
Final polish (thin section)		
NSP144 NEW	Grain P 4000 (5µm) 250mm Ø	249,00 €
NSP145 NEW	Grain P 4000 (5µm) 300mm Ø	344,00 €

Polish Fabrics and Suspensions for Thin Section Preparation

For the production of thin sections, polishing can be largely dispensed with (glass-covered samples). For composite materials, which are not covered and/or are also to be examined in incident light, a wide variety of polishing cloths and suspensions are available.



- We would be glad to advise you.

More fabrics and suspensions on request.

PT Seda polish fabrics for composites GRP, CFRP package 5 pieces on steel disc well suited for non-metallic materials, universally applicable for 6µm to 0,25µm suspension		
Article No.	Description	Price
Pre-polish		
SPT067	medium-hard artificial silk cloth 200mm Ø	85,00 €
SPT068	medium-hard artificial silk cloth 250mm Ø	119,00 €
SPT069	medium-hard artificial silk cloth 300mm Ø	143,00 €

Diamond suspension, mono, with lubricants 20ct/l, water based		
Article No.	Description	Price
Pre-polish		
DDO-M014 -CT	CT DiaTwin MAX, bottle 500ml, 3µm	49,00 €
DDO-M015 -CT	CT DiaTwin MAX, bottle 500ml, 1µm	49,00 €

PT chem polish fabrics for composites GRP, CFRP, package 5 pieces on steel disc, universally suitable for ceramics, for final polishing (0.25µm)		
Article No.	Description	Price
Final polish		
SPT016	Soft synthetic fabric, porous 200mm Ø	83,00 €
SPT017	Soft synthetic fabric, porous 250mm Ø	158,00 €
SPT108	Soft synthetic fabric, porous 300mm Ø	185,00 €

PT skin polish fabrics for GRP and CFRP, 5 pieces on steel disc not for ceramiics		
Article No.	Description	Price
Final polish		
SPT089	Leather-like synthetic fabric 200mm Ø	90,00 €
SPT090	Leather-like synthetic fabric 250mm Ø	129,00 €
SPT091	Leather-like synthetic fabric 300mm Ø	165,00 €

Silica suspension for composites GRP and CFRP		
Article No..	Description	Price
Final polish		
OxyPol009	Silica polish agent, bottle 1000ml, 0,2µm	115,00 €
OxyPol007	Silica polish agent, bottle 1000ml, 0,05µm	73,00 €

Specimen Storage

Secure storage boxes for your glass slides 48x28mm. We offer high quality wooden boxes in different sizes.



Sustainable and durable!

Glass slide box, wood, sustainable and long-lasting		
Article No.	Description	Price
MK482825	Box for 25 glass slides	25,00 €
MK482850	Box for 50 glass slides	31,00 €
MK4828100	Box for 100 glass slides	42,00 €

Cleaning

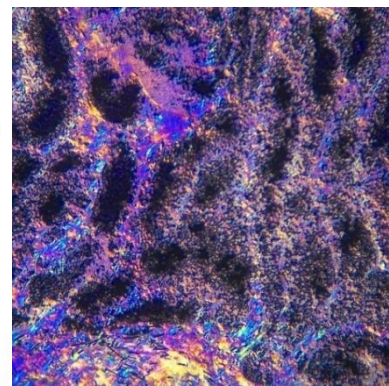
Article No.	Description	Price
MK99985	Air pressure spray for contactless remove of dirt and cutting rests, tin 200ml	26,00 €
MSR001	Cleaning set: air bellow, dust pencil, optic cleaning liquid (30ml) microfibre fabric (18 x 18 cm), 10 moist cleaning tissues	53,00 €
MSR003	Moist cleaning tissues (30 pieces), inclusive microfibre fabric (18x18cm)	10,00 €
MSR004	Microfibre fabric (37x37cm)	23,00 €

Laboratory Microscope for Preparation Control in Incident Light

In every laboratory for preparation has to be a microscope for optical control during your working steps. So you get best results, avoids artefacts at every step and saves time!

- ✓ Robust stand
- ✓ 4-time objective revolver
- ✓ Binotubus fixed and oculars 10x/18
- ✓ Cross table with objective guide, **glass slides adapter** (48x28mm)
- ✓ Strong LED illumination and aperture diaphragm
- ✓ Bright field and **polarisation**
- ✓ Objectives 4x/0.10, 10x/0.25, 40x/0.65 and **60x/0.85**
- ✓ **Optional with photo output**

OPTIKA
M I K R O S K O P I E N
I N T E R N A T I O N A L



Microscope for Laboratory Optika B-192PL		
Article No.	Description	Price
B-193PI	Set offer with photo output	490,00 €
B-193sPI	Set offer without photo output	440,00 €

MICRO KERN
JUBILÄUMS ANGEBOT

Digital Micrometre Screw

To determine grinding and glass thickness

Recording for all applications $\varnothing = 5\text{mm}$

from 25mm adjustment dimension (60°) in a box

- Digital-display with ON/OFF-, ABS/INC-, UNIT- and SET-button

- Read out: 0,001m/0,00005"

- Measurement range: 0-25mm, accuracy: 0,008mm, inclusive table holder



Digital Micrometre Screw		
Article No.	Description	Price
M302.191.D	Set with table holder	236,00 €

Grinding Press

Grinding Press

- ✓ for parallel mounting of samples on microscope slides
- ✓ Convenient operation with minimal effort
- ✓ compact, robust and insensitive
- ✓ made of aluminium with anodised surface

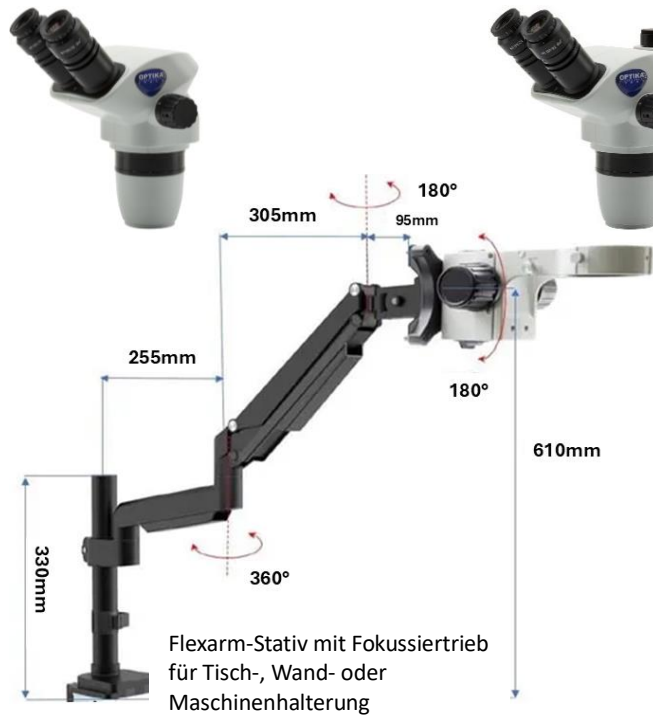


Grinding Press		
Article No.	Description	Price
434002-9010-0000	Grinding Press	772,00€
80000023	Metal slide 76x32x2mm	50,00 €
Zub011	Plasteline, 1kg	22,00 €
80000028	Mirror system: Holder with 3-axis-boom (13cm x/y/z range), mirror (50x50mm) and magnet foil for individual adaptation to each cutting machine, see page 17	478,00 €

MICRO KERN
JUBILÄUMS ANGEBOT

Stereomicroscope for macroscopic control

Microscopes with flexible mounts are required for preparative tasks. On one hand, ergonomic considerations must be taken into account, as work at the microscope usually involves long periods of time. On the other hand, very large and heavy samples can be examined without moving them.



Stereo microscope without and with photo exit
Zoom range: 8,46x
Enlargement: 6,5x-55,0x with eyeglass 10x/23
Working range: 102mm
Attachment lens 0,5x to 2,0x available



EASY LED-PLUS: 48xLED ring lighting with segmentable setting. Dimensions: 66mm insideØ/114mm outsideØ, 29mm height, Standard



VISI LED-SLIM: 48xLED ring lighting with segmentable setting. Dimensions: 66mm insideØ / 82mm outsideØ / 36mm height, slim variant with controller **MC1100**



EASY LED SPOTLIGHT PLUS: with two gooseneck fibre optics (500mm), for flexible work



Application example - adaption on machine (Microtome): for control of surface and target preparation, fixed on microscope

Cutting and Grinding Equipment for Thin Section Technique

When producing a thin section, artefacts during sample separation and the grinding process have a particularly strong effect. The two-sided processing of the sample and the production of a very thin 'disc' are the reasons for this.

The effort involved is also still a reason for many users not to do so. With the new device from QATM, this is no longer an argument. You can make your preparations quickly and safely as part of your routine. You can also work with an accuracy of 5 µm for the target preparation of universal materials. We work successfully with this system in our application laboratory.

Compact benchtop device for separating samples up to 40 mm in diameter. This makes it ideal for the production of target preparations and thin sections.



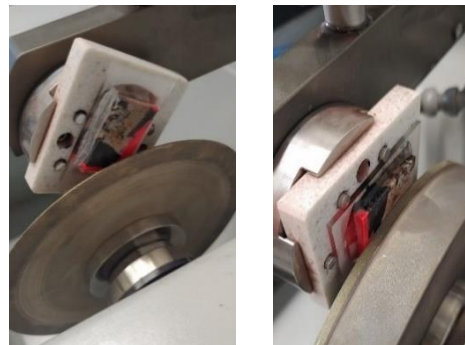
QATM Qcut150A „all in one“

- ✓ Sample separation and microsectioning on one system
- ✓ Absolutely simple free-cutting device for pre-preparation
- ✓ Adapted digital verification of the sample position
- ✓ Automatic system for thin section production
- ✓ Individual holder for holding samples (vacuum)
- ✓ Use of conventional consumables

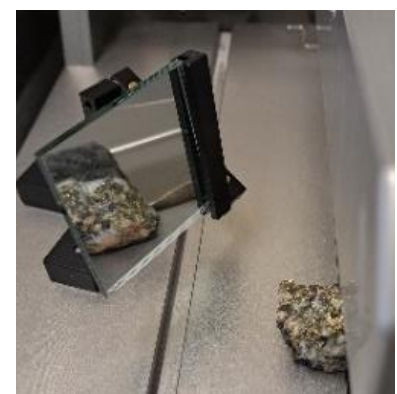
NEW



Sample separation and micro sectioning technique on one device. For target preparation or thin sectioning. No more reclamping and no more changing devices!



Free cutting device for fast pre-preparation. No more complex clamping devices required - simply superb. A simple mirror system helps you to separate samples accurately.



Cutting and Grinding Systems for Thin Section Technique



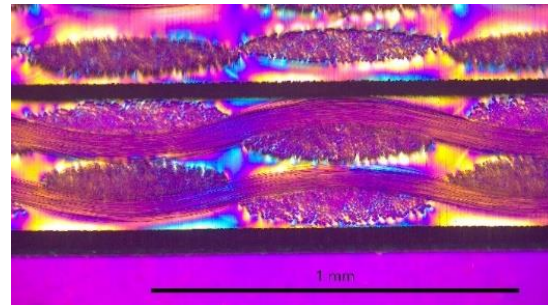
NEW

Digital optical system for target preparation with LED illumination, documentation and measuring device. Can also be adapted for mobile use on other devices.

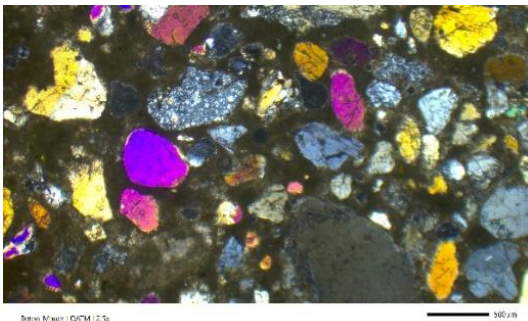
Application examples with QATM Cut 150A



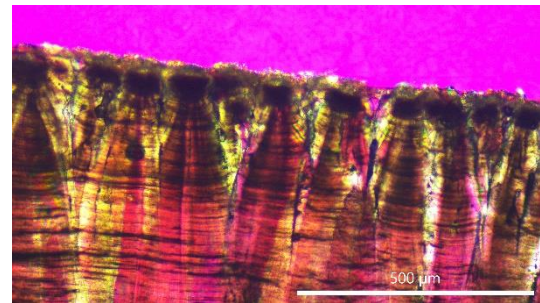
Thin section of a plastic weld seam transmitted light bright field.



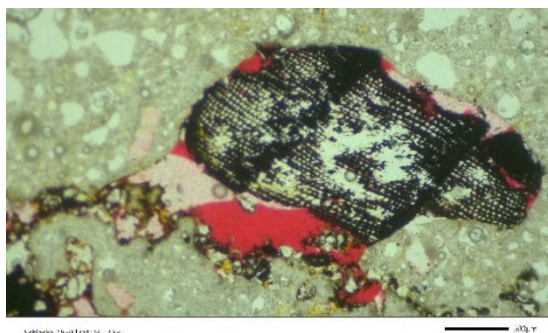
Printed circuit board substrate in thin section. Image transmitted light polarisation contrast (lambda)



Concrete in transmitted light Polarisation contrast (Lambda)



Ostrich egg in cross section. Polarisation contrast (Lambda)



Target preparation of a historical slag. Section of charcoal residue with clear wood structure. Incident light brightfield.

Sample Processing – our Laboratory

We offer to support you in our laboratory for sample processing. You are reaching your limits, need a second opinion to have your results confirmed, or just want to introduce an alternative “recipe”? – **We are at your service! Together – with our partners.**

We would be pleased to offer you a detailed quotation.

Our partner



KULZER
MITSUBI CHEMICALS GROUP

 **mikroskop-**
center.de

ZEISS

JENOPTIK

OPTIKA®
MICROSCOPES
ITALY

SCHOTT
glass made of ideas

SLEE medical

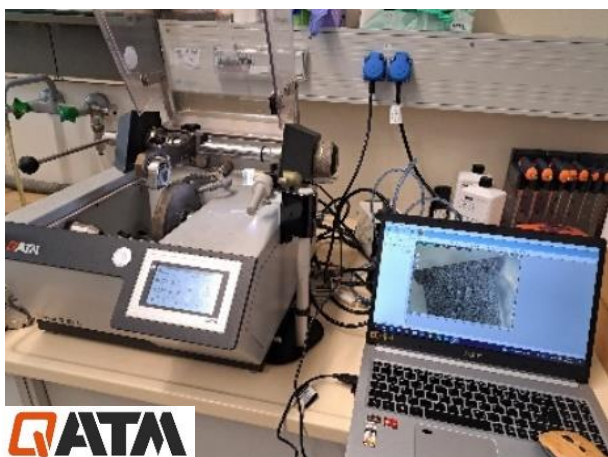
 **knittel**
GLASER



**NEW: Large and hard cut
microtome up to sample
size 120 x 120 x 60mm!**



microTec®

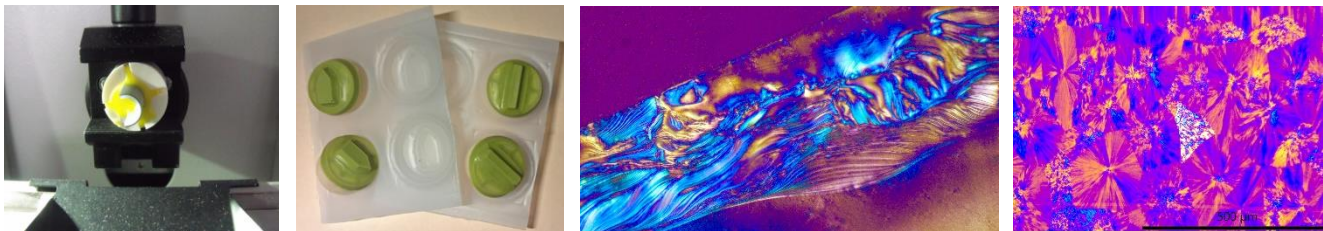


GATM

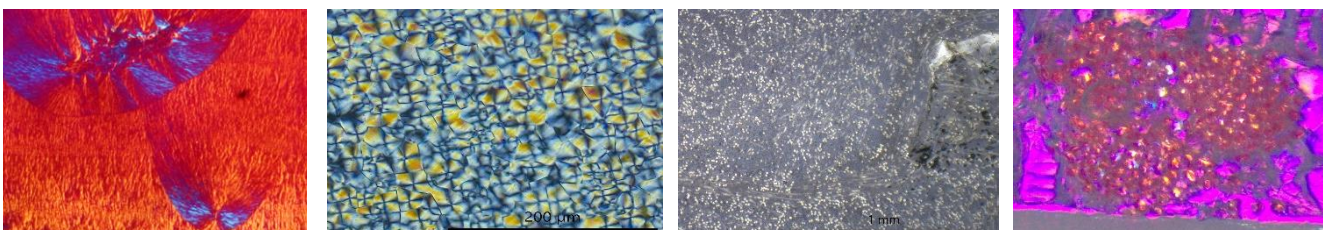
**NEW: Cutting and
thin grinding
systems with target
preparation!**

Sample Processing - Services

Probenvorbereitung für Mikrotomie		
Article Number	Description	Description
PBV	SampleProcessingPreparing	Sample sawing, trimming resp. customize, orientate pr stabilize form
PBSE	SampleProcessingBaseEmbedding	Base embedding into synthetic resin, for adaption on microtome
PBVE	SampleProcessingFullEmbedding	Full embedding (infiltration) with synthetic resin, resp. with vacuum support



Preparation Microtomy		
Article Number	Description	Description
PBKRYO	SampleProcessingCryo	Processing cryostat (temperature -5°C to -40°C)
PBMSM	SampleProcessingMicrotome CuttingKnife	Cutting sample on microtome and drawing on glass slide. Knife (disposable blade, steel) rotation or sled microtome
PBMSMTC	SampleProcessingMicrotome CuttingKnife TC	Cutting sample on microtome and drawing on glass slide. Knife (tungsten carbide) rotation or sled microtome
PBMSD	SampleProcessingMicrotome Cutting Diamond	Cutting sample on microtome and drawing on glass slide. Knife (Diamond) rotation or sled microtome.
PBMSMG	SampleProcessingMicrotome CuttingKnife LargeCut	Cutting sample on microtome and drawing on glass slide. Knife (disposable blade, steel) large-cut microtome
PBMSMGTC	SampleProcessingMicrotome CuttingKnife Large-Cut TC	Cutting sample on microtome and drawing on glass slide. Knife (disposable blade, steel, carbide) large-cut microtome



Sample Post-Processing for Microtome		
Article Number	Description	Description
PBE	SampleProcessingCover	Sample cut on glass slide in cover media to preserve as permanent preparation, labelling
PBAE	SampleProcessing Etching or Colouring	Sample etching, colouring

Sample Processing - Services

Microscopic Examination and Documentation		
Article Numer	Description	Description
MIK	M icroscope	Sample examine microscopic, screening
MIKV	M icroscope M easuring	According to specification measuring and processing of image structures, calibrate (interactive)
MIKA	M icroscope A nalysing	According to specification of image structures, calibrate
MIKD	M icroscope D ocumenting	According to specification image capture with digital camera, saving of the pictures and data files on USB stick
BER	R eport	Report, preparation and microscopy, measurement results, artefacts

Schedule orders on request.

We work with equipment and accessories of the following companies:

Microtomy: Slee medical GmbH, microTec Laborgeräte GmbH

Microscopy: Mikroskop Center GmbH (Zeiss, Leica), Optika S.r.l., Meiji Techno Co. LTD

Digital Photography: Jenoptik Optical Systems GmbH, Mikroskop Center GmbH (Zeiss)

Image Analysis: Mikroskop Center GmbH (Zeiss)

Terms of Business

Terms of Delivery and Payment

Errors for all articles are not excluded. We reserve the right to change and adjust.

The prices are valid for calendar year 2025 or till the publish of a new price list.

All prices do not include the applicable statutory value added tax.

Within Germany we deliver up to value of goods 200,00€ net with a shipping of 15,00€.

Shipping abroad will be charged at any time by any order amount.

Invoices are payable within two weeks from invoice date or by advanced payment.

Our general terms and conditions apply. If needed we will be glad to send them to you.

