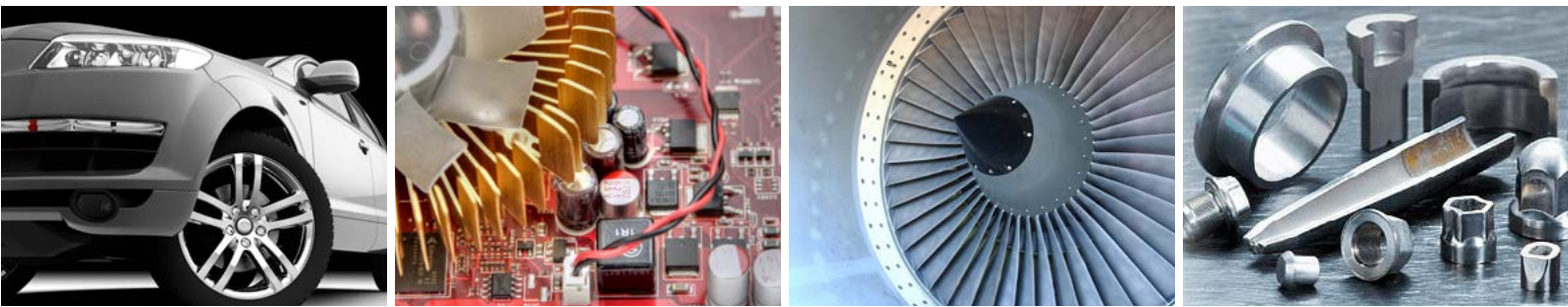


# Product Portfolio





# ENSURING CERTAINTY — YEAR AFTER YEAR

At Struers we take pride in offering equipment, consumables and knowledge support tailored to your specific needs.

You can ask our experienced Application Specialists for advice about any process issues or for assistance in methods development. You can also obtain prompt, timely and effective service from our certified Service Engineers. And you have instant access, anywhere and at any time, to a wealth of information and training from Struers e-Gate.

We call it ensuring certainty for our customers.

# Product Portfolio

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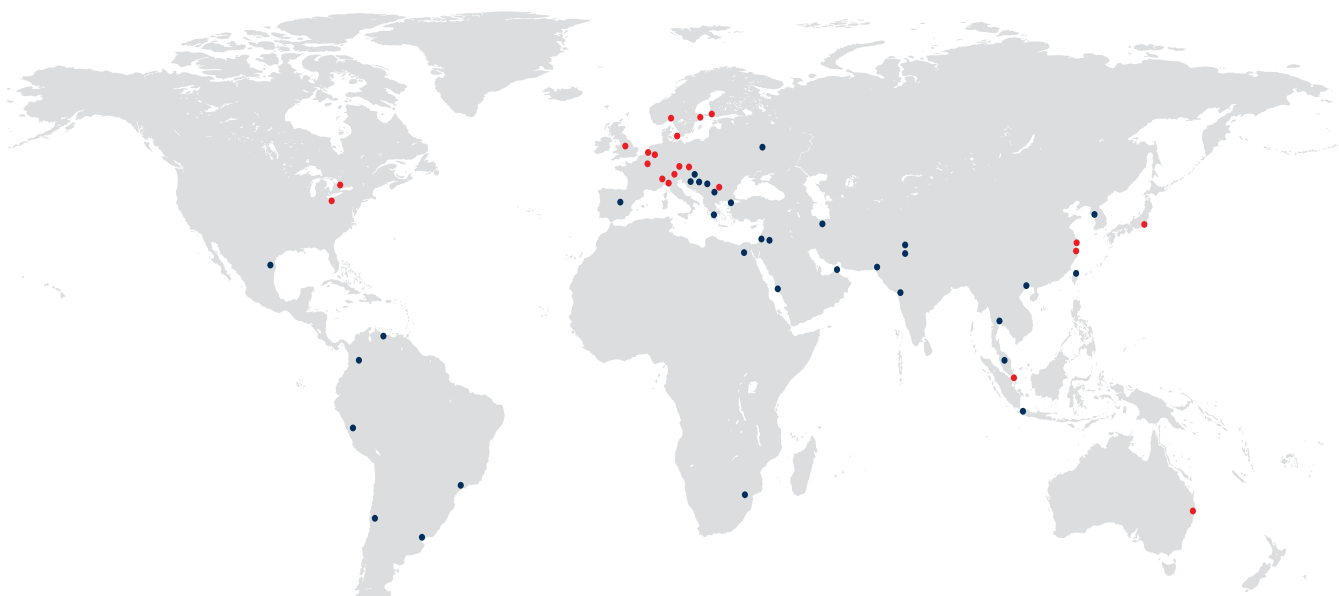
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Struers **worldwide** – see contacts on the back

Cutting

Mounting

Grinding

Polishing

Hardness Testing

Mineralogy

Other

Imaging SW

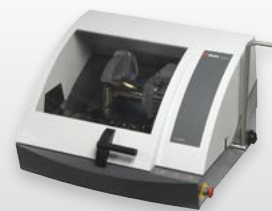
# Cutting through Thick and Thin



Perfect materialographic cutting requires precision without overheating or material deformation, usually combined with speed. The cut-off machine and cut-off wheel must match the geometries and composition of the workpieces.

Struers are committed to making your cutting as easy, fast and precise as possible. Reduce your preparation time and costs by making the optimum cut using the winning combination of Struers cut-off machines and cut-off wheels.

- Constant feed speed – the patented movement of the cut-off wheel ensuring high and uniform cutting quality
- ExciCut – for easy and fast cutting of the hardest materials
- OptiFeed – to ensure the fastest possible cutting without damage to the sample or wheel
- AutoStop – for unattended cutting
- MultiCut – for automatic serial cutting of parallel sections
- AxioCut – for cutting of very large workpieces
- AxioWash – the automatic cleaning program
- Pressurized motor compartment - no dust environment for main moving parts



## Minitom

Automatic, low-speed precision cut-off machine ideal for delicate cutting applications in small laboratories.  
Footprint: W280 mm x D400 mm  
Cut-off wheel 75-127 mm dia.

## Secotom-1

Manual cut-off machine specially developed for PC boards and other thin samples. Built-in illumination from below for easy and precise positioning. Easy to operate and ideal for plate materials.  
Footprint: W575 mm x D735 mm  
Cut-off wheel 203 mm dia.

## Accutom-10/-100

High precision automatic cut-off machines with smart and intuitive user interface for higher productivity. Grinding mode also available on Accutom-100.  
Footprint: W644 mm x D720 mm  
Cut-off wheels range 75-150 mm dia.  
Grinding cup wheels 100-150 mm dia.  
[www.accutom.com](http://www.accutom.com)

## Secotom-15/-50

Universal, automatic, table-top precision cut-off machines for cutting of all types of workpieces.  
Footprint: W644 mm x D784 mm  
Cut-off wheels 75-203 mm dia.

## Labotom-5

Manual cut-off machine with easy to use control panel and ergonomic handle for fast and easy cutting.  
Footprint: W700 mm x D680 mm  
Cut-off wheel 250 mm dia.  
[www.labotom.com](http://www.labotom.com)



## Cut-Off Wheels

Struers cut-off wheels have an abrasive density that varies across the wheel radius, with increasing density towards the centre of the wheel. This means that the cutting performance of the wheel remains constant even as it wears into a smaller diameter.

Struers cut-off wheels with a hexagonal surface are an addition to our standard line of cut-off wheels. The 3D wheels reduce heat damage with more efficient cooling. In addition, the 3D surface means less cutting debris and easier cleaning of your equipment.



## Clamping Tools

Even the most well-built cut-off machine needs good clamping tools. Struers designs solid and easy-to-use clamping tools to meet any requirement. We offer an extensive programme of clamping tools to fit regularly as well as irregularly shaped workpieces.



### Labotom-15

Manual cut-off machine with large cutting table, easy to use control panel and ergonomic handle for fast and easy cutting. Footprint: W870 mm x D877 mm Cut-off wheel 350 mm dia. [www.labotom.com](http://www.labotom.com)

### Discotom-100/-10

Automatic and manual cut-off machines with large cutting table and spacious chamber ensuring exceptional cutting flexibility. Footprint: W920 mm x D890 mm Cut-off wheels 300 mm dia (Discotom-100) and 250 mm dia (Discotom-10). [www.discotom-100.com](http://www.discotom-100.com)

### Axitom-5

Automatic cut-off machine, designed for maximum user friendliness. X-large cutting chamber and MultiCut for automatic serial cutting of parallel sections. Footprint: W1155 mm x D1305 mm Cut-off wheel 350 mm dia.

### Exotom-150

Powerful, high capacity automatic cut-off machine designed for the production environment. Includes the unique ExciCut technology enabling cutting through the hardest workpieces. Footprint: W1350 mm x D1500 mm Cut-off wheel 432 mm dia.

### Magnutom-400/-500

High capacity automatic cut-off machines designed for 24/7 cutting of large and oversized workpieces. Footprint: W1758 mm x D1463 mm Cut-off wheels 432 mm dia (Magnutom-400) and 508 mm dia (Magnutom-500). [www.magnutom.com](http://www.magnutom.com)

# Fast Mounting Right at Your Fingertips



The purpose of mounting is to protect fragile or coated materials during the preparation and to obtain good edge retention. Mounting is also used to produce specimens with uniform size. Two different techniques are available: hot mounting and cold mounting.

Struers mounting presses use a low-mass heating/cooling system allowing for rapid heat transfer and faster cooling. In addition, water consumption can be reduced by 80% with Struers pulsed-cooling system.



## Mounting consumables

Struers supply hot and cold mounting resins to meet all your mounting needs: Clear and coloured, resins with good edge retention or with electrical conductivity for electro-polishing. Furthermore, resins suitable for SEM examination, and user-friendly resins in tablet form for fast and clean serial mounting are available to you.



### CitoVac

A vacuum impregnation machine for impregnation of porous specimens and for gluing specimens to slides for the production of thin sections. With CitoVac several specimens can be impregnated and embedded at the same time.  
Footprint: W380 mm x D370 mm



### CitoPress-1

A single cylinder hot mounting press. It incorporates advanced process control to optimise the mounting cycle. Innovative design results in ultra-short heating and cooling times.  
Footprint: W480 mm x D560 mm  
[www.citopress.com](http://www.citopress.com)



### CitoPress-10

A single cylinder hot mounting press with advanced productivity features. Automatic dosing system enables fast and easy dosing of resin. On-screen Hot Mounting Application Guide. Database option and Sensitive option for porous samples.  
Footprint: W480 mm x D560 mm  
[www.citopress.com](http://www.citopress.com)



### CitoPress-20

A high-capacity, dual cylinder hot mounting press. Automatic dosing system enables fast and easy dosing of resin. On-screen Hot Mounting Application Guide. Database option and Sensitive option for porous samples.  
Footprint: W550 mm x D560 mm  
[www.citopress.com](http://www.citopress.com)



### CitoDoser

An optional automatic dosing system, enabling dosing of a pre-set amount of mounting resin. The advantages are faster filling of the cylinders and less spilling of resins.



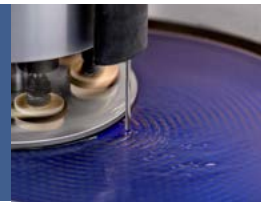
Mounting

**Struers** CitoPress-20

Parameter	Value	Unit	Range
Pressure	1000	psi	0-1000
Time	10	min	0-10
Temperature	20	°C	0-20
Speed	1000	rpm	0-1000

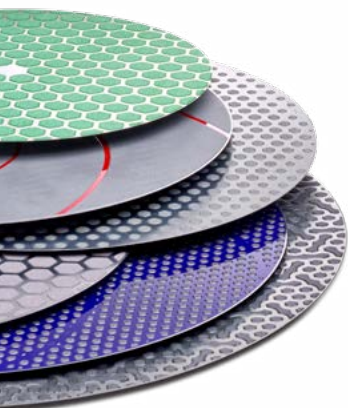
Buttons: [Up Arrow], [Down Arrow], [1-2], [3-4]

# Table top Preparation Systems



## Tegramin

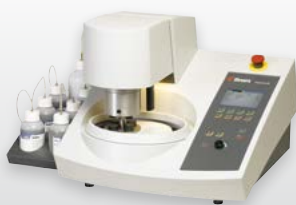
Based on many years of experience, the software of Tegramin has been developed with the materialographic user in mind. An intuitive graphical user interface (GUI) allows you to easily find the correct preparation method and change parameters if necessary. Simply select a method, run the preparation and get reproducible results every time.



## MD-System

The advanced MD-System comprises a magnetic supporting disc combined with metal-backed grinding discs and polishing cloths.

With MD-System grinding discs you can achieve consistently high material removal rates and maximum flatness, due to uniform removal of hard and soft phases in the specimen. At the same time, you can reduce preparation time and costs significantly.



### Tegramin-20

A sturdy 200 mm single-disc machine for the high quality preparation of all materials. Tegramin-20 has variable speed from 40-600 rpm, automatic dosing functions and a built-in database. Designed for the preparation of single specimens. Footprint: W600 mm x D650 mm [www.tegramin.com](http://www.tegramin.com)



### Tegramin-25

A durable 250 mm single-disc machine for high quality preparation of all materials. Tegramin-25 has variable speed from 40-600 rpm, and space for up to 7 dosing pumps. Designed for both single specimens and specimens clamped in holders. Footprint: W675 mm x D750 mm [www.tegramin.com](http://www.tegramin.com)



### Tegramin-30

A sturdy 300 mm single-disc machine for intensive, high quality preparation of many or large specimens. Tegramin-30 has variable speed from 40-600 rpm, and can be equipped with up to 7 pumps for dosing of suspension and lubricant. Designed for both single specimens and specimens clamped in holders. Footprint: W675 mm x D750 mm [www.tegramin.com](http://www.tegramin.com)



# Fully Automatic Cleaning Unit



## Lavamin

With Lavamin you save time with a faster cleaning process and the opportunity to change the preparation surface while the specimens are being cleaned. You will experience automated cleaning perfection every time and avoid replacement of preparation surfaces due to accidental contamination. In addition to saving you time and costs, Lavamin eliminates chemical cleaning agents and leaves no environmental footprint.

Lavamin is compatible with Struers specimen holders and mover plates with a diameter up to 160 mm.

- Shorten the specimen preparation process
- Avoid replacement of preparation surfaces due to accidental contamination
- Forget about cleaning agents and alcohol
- Use significantly less water
- Eliminate environmental footprint
- Work more comfortably and safely
- Achieve the same perfect result every time



Levelling tool for adjusting retention rings on individual specimens for Lavamin.

Grinding

Polishing

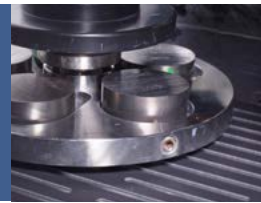


## Lavamin

*A fully automatic cleaning unit, uses a patent-pending and entirely automated process combining ultrasound and water rinsing together with high-speed spin-drying of the specimen holder/mover plate.*

*Footprint: W313 mm x D605 mm  
[www.struers.com/lavamin](http://www.struers.com/lavamin)*

# Fast, Automatic and High Volume Preparation

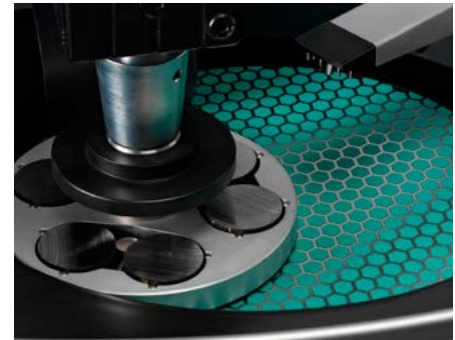


Automatic grinding and polishing are ideal where high capacity, short preparation times and maximum reproducibility are essential. Automation gives you faster preparation and reproducible results independent of site, seasonal or staff variations.

Struers automated preparation systems are highly robust, and can be installed in an industrial environment for round-the-clock specimen preparation in quality control.

Reduce costs and improve efficiency and reproducibility with Struers features such as:

- Ease of operation
- Sturdy design for trouble-free preparation year after year
- Built-in dosing systems for consistent dosing of suspensions and lubricants
- Built-in preparation method database for increased repeatability
- High-speed preparation shortening your preparation time by up to 50% and reducing your consumable costs



## AbraPlan-20

A powerful plane grinding machine ideal for very large specimens or high volumes. With typical grinding times of 20-30 seconds, a high quality surface finish is quickly achieved. An automatic dresser is allowing unattended grinding. Footprint: W832 mm x D957 mm



## AbraPol-20

A powerful grinding and polishing machine ideal for very large specimens or high volumes. Variable speed specimen mover and large disc area for short preparation time and long consumable life. Built-in methods database and dosing units for easy operation. Footprint: W840 mm x D980 mm



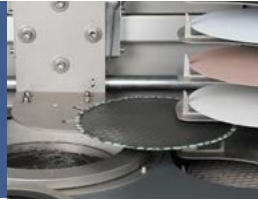
## Hexamatic

Automatic specimen preparation with the most user-friendly user interface of today. Nine different preparation surfaces can be combined for the preparation of almost all materials. Both specimens clamped in holders as well as individual specimens can be inserted in the conveyor with a capacity of 8 holders. Footprint: W2980 mm x D880mm



## MAPS-2

A Modular Automatic Preparation System (MAPS). Allowing a steady flow of materialographic preparation of any number of specimens, from plane grinding to final cleaning and drying. Ideal for the highest capacity requirements. Footprint: W1470 mm x D1080 mm



## DiaPro

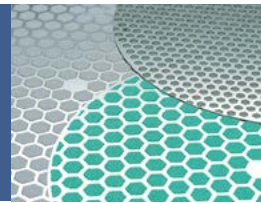
The unique DiaPro system combines diamond and cooling lubricant in an all-in-one suspension to achieve optimal efficiency and cost-effective performance. Use DiaPro with MD-System consumables to cut costs, and to reduce preparation time by 30% on average.



Grinding

Polishing

# Efficient and Economic Grinding and Polishing



Grinding and polishing of specimens is performed in order to create a plane surface, free of deformation and scratches, so that the true microstructure of the specimen becomes clearly visible under the microscope.

The quality of the finished surface is very much dependent upon the equipment and consumables used in the process. Struers provide a full range of grinding and polishing equipment and consumables to cater for the individual preparation requirements of a wide range of materialographic specimen types.

Through our e-Shop you can get access to our full range of consumables as well as a comprehensive list of preparation methods to suit your needs.



[e-shop.struers.com](http://e-shop.struers.com)

## DP Diamond Products

Struers offers high performance diamond products for all purposes within materialographic fine grinding and polishing. The broad product programme allows for any type of preparation, from manual to fully automatic.

Struers diamond products are available as suspensions, sprays, sticks and pastes in grain sizes from 35  $\mu\text{m}$  to 0.1  $\mu\text{m}$ .



### LaboPol-1/-2

A grinding and polishing machine in single (-1) or two speed (-2) version. Ideal for the small volume materialographic laboratory or in a high volume lab as supplementary equipment. Footprint: W410 mm x D670 mm



### LaboPol-4/-5/-6

A grinding, lapping and polishing machine with variable speed. With low speed of 12-120 rpm for gentle preparation of sensitive materials (-4), 50-500 rpm (-5) or 120-1200 rpm for polishing with alumina (-6). Footprint: W410 mm x D670 mm



### LaboPol-21/-25

A grinding and polishing machine with two discs. Available as single speed with 250 rpm (-21) or variable speed machine with 50-500 rpm (-25). It is possible to use one disc for manual and the other for semi-automatic preparation. Footprint: W700 mm x D690 mm



### LaboPol-35

A powerful machine for 300 mm diameter discs with variable speed from 50 to 500 rpm. It is possible to carry out grinding, lapping and polishing processes, including final polishing with oxide polishing suspensions. Footprint: W515 mm x D720 mm

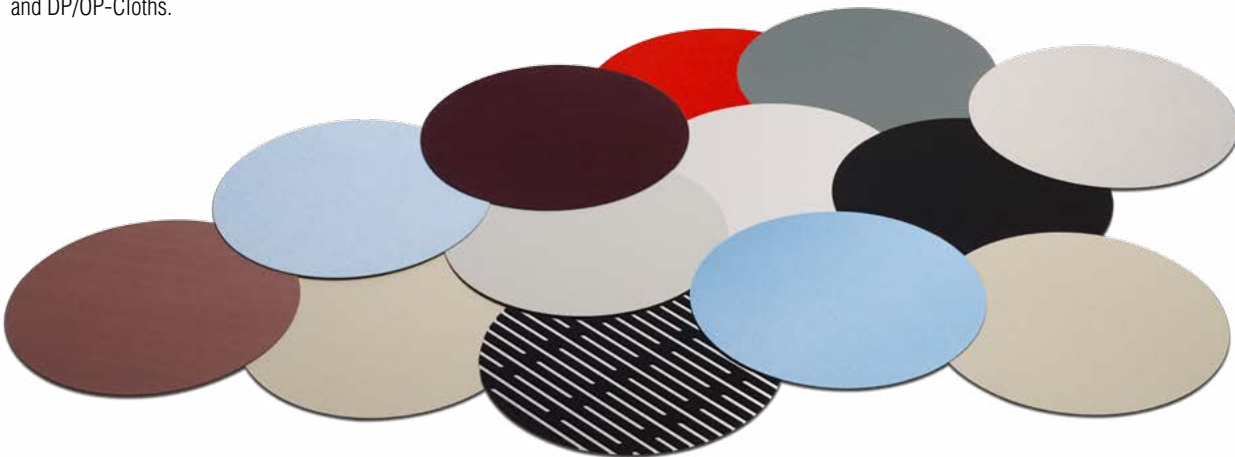
## DiaDuo-2

DiaDuo-2 is an all-purpose, all-in-one suspension containing both diamonds and lubricant, for materialographic fine grinding and polishing.



## Polishing Cloths

Struers polishing cloths are made of carefully selected fabrics. Extensive tests have led to the development of the market's best polishing cloths in terms of preparation quality and durability. Most polishing cloths are available in two versions: MD-Cloths and DP/OP-Cloths.



Grinding

Polishing



### LaboForce-1

A specimen mover for semi-automatic preparation of materialographic specimens on LaboPol grinding and polishing machines. Running with 8/10 rpm (50/60Hz) and suitable for fine grinding and polishing of 1-3 single specimens.



### LaboForce-3

A specimen mover for semi-automatic preparation of materialographic specimens on LaboPol grinding and polishing machines. Running with a speed of 200/240 rpm (50/60Hz) and designed for fine grinding and polishing of 1-3 single specimens.



### LaboForce-Mi

A semi-automatic specimen mover for lapping and polishing of thin sections. The force is applied through springs which can be individually adjusted up to maximum load of 20N. Special developed specimen holders ensure high reproducibility.



### LaboDoser

An automatic dosing unit for unattended specimen preparation with LaboPol. Built-in timer and 4 peristaltic pumps for dosing of diamond suspension, lubricant and all-in-one products such as DiaPro and DiaDuo. Footprint: W165 mm x D350 mm

# User-friendly Hardness Testing



The Struers line of hardness testers are state-of-the-art software-controlled devices which enable Vickers, Knoop, Brinell and Rockwell hardness tests to be performed rapidly, accurately and reliably. Our hardness testers are equipped with a unique test load range, covering many applications.

Easy-operation features such as automated test procedures, automatic illumination adjustment, integrated image analysis and large colour touch-screen help personnel to work faster and more accurately. Thus measured values are no longer dependent on the experience of the operator and on day-to-day variations in operator accuracy.

The various models are scaled for small to large volumes of specimens to meet the full range of micro indentation hardness and macro indentation hardness testing requirements.



*Vickers, Knoop, Brinell and Rockwell Indenters and Test Blocks.*



## **N4 / N6 / N7 (Portable)**

*Portable hardness testers for measurement on regular geometries (N4), inside diameters/bores (N6), and tooth flanks/gears (N7). Available in various sizes and configurations.*



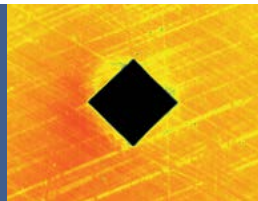
## **N3A**

*Bench-top Rockwell hardness testers with analogue display. A wide range of test loads is available. Footprint: W205 mm x D470 mm*



## **DuraJet**

*High-end Rockwell hardness testing machine with separate LCD touch screen display. Load cell technology ensuring highest degree of reproducibility. Vertical test head and fixed table for optimal stability. Footprint: W300 mm x D562 mm*



**Struers' hardness tester range** is the result of a close cooperation between Struers, with years of experience within the field of materialography, and EMCO-TEST, the number one expert in hardness testing systems on the market.

## Accessories

The Struers hardness testers come with a wide selection of accessories designed to help you with your particular hardness testing operations. A broad range of objective lenses, indenters and additional anvils in various sizes and shapes are available.



Hardness Testing



### DuraScan-10/-20

Semi-automatic hardness testing system with unique test load range from 10 gf to 10 kgf, covering many applications. Autofocus and automatic hardness evaluation for highest repeatability and reproducibility. Footprint: W505 mm x D420 mm



### DuraScan-50/-70/-80

Fully automatic hardness testing system with unique test load range from 10 gf to 10 kgf, covering many applications. 6-position measurement turret and fully automatic test cycles for highest flexibility. Overview camera for easy positioning of test points and test series. Footprint: W680 mm x D450 mm



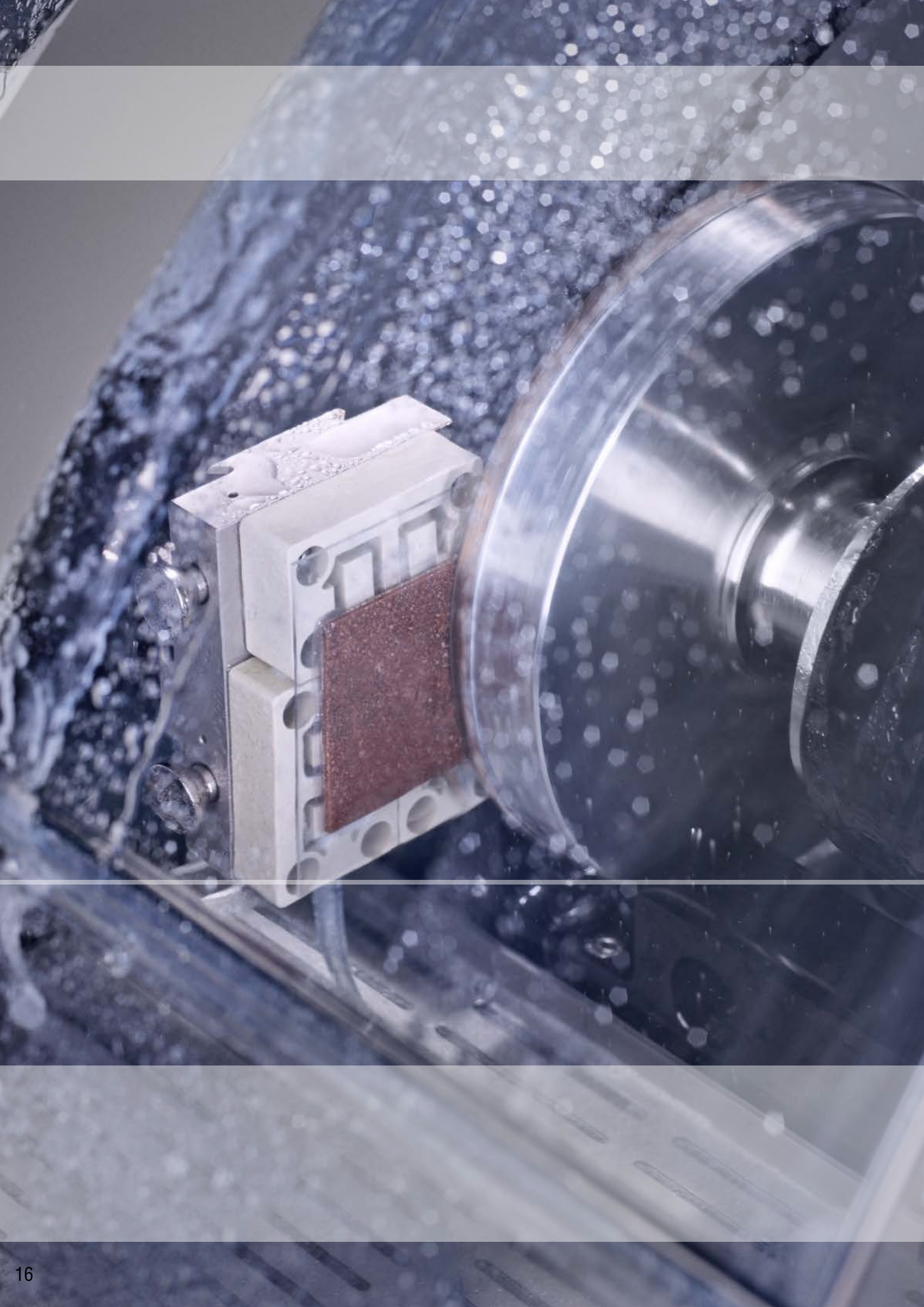
### DuraVision

Universal hardness testers with test load range 1-250 kgf, 3-750 kgf or 10-3000 kgf. Completely automatic test cycles eliminating operator influence. Very easy to operate due to the large colour touch-screen and intuitive software. Available with 6-position measurement turret and motorized test head. Footprint: W320 mm x D760 mm



### DuraVision-250/-350

Fully automatic universal hardness tester with test load range 1-250 kgf, 3-750 kgf or 10-3000 kgf. Motorized xy-stage, 6-position measurement turret and overview camera enable hours of automatic testing of traverses, welds, Jominy specimens etc. Footprint: W900 mm x D1100 mm





# Highly Specialised Systems for Mineralogical Preparation



Do you need an efficient system for preparation of mineralogical, geological or ceramic specimens? We offer the equipment and consumables required for producing thin sections or polished sections.

Mineralogical samples often contain both hard and soft phases, requiring specially adapted preparation methods. We acknowledge these particular requirements, and provide appropriate equipment and consumables for slide mounting, embedding and impregnation, and finally, lapping and polishing.

The preparation of thin sections for examination by transmitted light requires highly specialised equipment. Struers offers a system incorporating precision cutting and grinding in a single machine. A grinding accuracy of 2 microns can be achieved in preparation of multiple specimens.

Struers provides both manual and semi-automatic mineralogical specimen preparation equipment to cater for individual variations in volume of specimens and manning.



## SystemAbele®



### Accutom-10/100

High precision automatic cut-off machines with smart and intuitive user interface for higher productivity. Grinding mode also available on Accutom-100. Footprint: W644 mm x D720 mm Cut-off wheels range 75-150 mm dia. Grinding cup wheels 100-150 mm dia. [www.accutom.com](http://www.accutom.com)

### Discoplan-TS

A cutting and grinding machine for fast and economical production of mineralogical thin sections. Features a diamond cup wheel and a vacuum holder for simultaneously grinding of up to 3 specimens to their final thickness with an accuracy of 2 microns. Footprint: W700 mm x D370 mm

### LaboPol-35

A powerful machine for 300 mm diameter discs with variable speed from 50 to 500 rpm. It is possible to carry out grinding, lapping and polishing processes, including final polishing with oxide polishing suspensions. Footprint: W515 mm x D720 mm

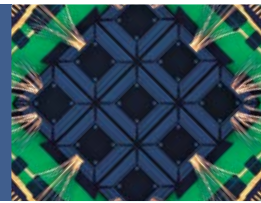
### LaboForce-Mi

A semi-automatic specimen mover for lapping and polishing of thin sections. The force is applied through springs which can be individually adjusted up to maximum load of 20N. Special developed specimen holders ensure high repro-ducibility.

### SystemAbele

For fast and easy manual preparation of thin sections LaboPol-5 can be used together with SystemAbele Accessories. The unique thickness control system provides users with a simple and efficient preparation process. Also included are patented UV bonding accessories and resins which significantly reduce curing time.

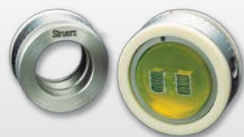
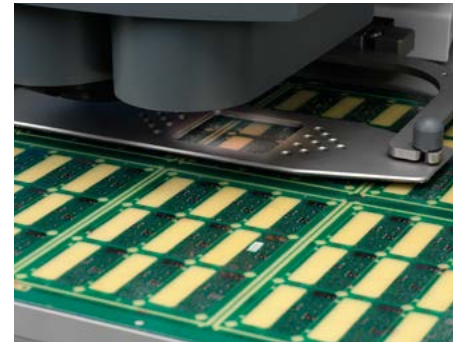
# The Exact Way to Controlled Material Removal



We offer a range of controlled material removal products to assist you in removing a specific volume or depth of material.

Do you need to reach a specific target in an electronic component? Reach the center of a row of solder balls not even visible to the eye? Do you track the progression of a fatigue crack by successive grinding? Perform step grinding for hardness or homogeneity testing? Or do you have delicate PCB samples, vulnerable to deformation during preparation?

With help from Struers, you can achieve the exact level of control and the configuration you need, in both manual and automated specimen preparation, for both visible and hidden targets.



## TriPod

A specimen holder for fast precision polishing of non-encapsulated samples such as electronic devices. Only a single adjustment screw is necessary for levelling of the sample. TriPod comes in two models, one for cross-sectioning and one for parallel polishing.

## AccuStop and AccuStop-T

Specimen holder for controlled manual grinding of individual materialographic specimens on SiC grinding paper. A wear-resistant ceramic base allows grinding to stop at a preset depth of the specimen, and ensures that the specimen surface is kept totally plane.

## AccuMeter

The AccuMeter Measuring Station was developed especially for use with AccuStop-T. The AccuMeter provides easy measurement of the tilt angle and has a micrometer measuring range is 0-25 mm in steps of 10 µm. The AccuMeter can also be useful together with AccuStop 30.

## ViaSampler

Automated PCB coupon extraction system, producing deformation-free test coupons. Enabling metallographic inspection of plated throughholes and blind vias down to 100 microns. An advanced vision system identifies the vias and selects the coupon.  
Footprint: W882 mm x D750mm

## ViaKit

A high-precision toolkit for preparation of up to 36 coupons at a time, making your coupon preparation process much easier. Ensuring that the exact centers of the via are reached on all coupons in just three preparation steps.



## ViaKit

ViaKit, makes your coupon preparation process much easier. It is designed to be used with the ViaSampler and includes all you need for pinning, mounting and preparing coupons.



### TargetX

Set-up station for hidden (internal) targets. The station is placed in the users x-ray (not included) and operated from the external console, permitting real-time alignment and measuring. For specimens with visible (external) targets, TargetZ is available. Footprint: W705 mm x D385 mm



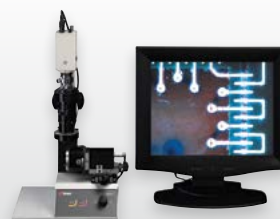
### TargetMaster

A micropolisher for FA labs performing target preparation with very high requirements to precision. Can be used either as stand-alone or with one of the two setup stations, TargetZ and TargetX. The TargetMaster automatically polishes to the desired target within a few microns. Footprint: W820 mm x D860 mm



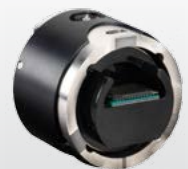
### TargetDoser

An automatic dosing station, providing preparation methods and process liquids to TargetMaster. TargetDoser comes with 7 pumps, 14 pre-programmed methods, and accommodates 200 user-defined methods. Footprint: W200 mm x D550 mm



### TargetZ

For aligning and measuring specimens with visible (external) targets. With a powerful vision system of up to 680x magnification and its 15" TFT monitor, TargetZ makes it a simple task to map and align even minute targets. Footprint: W235 mm x D315 mm



### TargetGrip

TargetGrip is a tiltable specimen holder dedicated to TargetMaster. It accommodates mounted samples up to 40 mm diameter. Adapters are provided for larger specimens (TARIN), cross-sectioning (TARSC) and parallel polishing (TARPA), as well as a 40 mm to 25 mm adapter (TARAD), which serves as SEM mount, too.

# Non-destructive Materials Examination by Advanced Replica Technique



For many applications it is either required or more economical to carry out the testing in a non-destructive way in the field.

By means of Struers lightweight portable equipment and advanced replica technique, a high quality replica of the prepared surface can be achieved, allowing a complete evaluation of the surface.

For examination of microstructures we can provide a complete range of portable equipment for non-destructive preparation, from basic grinding through mechanical or electrolytic polishing and etching.



The Transcopy replica technique can transfer the microstructure from flat surfaces, while the RepliSet system can be used for examination of 3D geometry as well. A microstructure or 3D geometry can be examined directly using a small portable microscope. On-site materialographic preparation and examination are particularly applicable to quality control, inspection- and failure analysis in power stations, aircraft, chemical plants etc.

## RepliSet System

RepliSet is excellent for examination of 3D geometry in general or in relation to corrosion, fractures or cracks.

The RepliSet system can even produce replicas which are dimensional correct, and have ultra fine detail reproduction as well as a plane back.

RepliSet has no shrinkage.



### PSM-5/-10

*The PSM-5 and PSM-10 are compact and portable microscopes for use in the field. PSM-5 provides up to 400x magnification, and PSM-10 up to 600x. Both are ideal for examination of prepared surfaces provided by Transpol-5 and Movipol-5.*



### Movipol-5

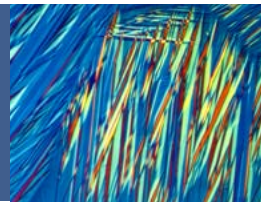
*Movipol-5 is a portable electrolytic metal polishing and etching machine. It is compact and robust and can be used anywhere.*



### Transpol-5

*Transpol-5 is a portable, metallographic grinding/polishing machine built to withstand rugged field conditions.*

# Time-saving Deformation-free Electrolytical Preparation



Avoid mechanical deformation and still maintain efficiency in the preparation of metallic samples. Electrolytic polishing gives you optimal deformation-free sample preparation and is well suited for homogeneous materials. In the electrolytic polisher the sample is configured as the anode in a suitable electrolyte, and material is removed by controlled metal dissolution. Electrolytic polishing can be followed by an etching process to bring forth contrasts in the microstructure of the metal.

Using Struers electrolytic preparation you can achieve electrolytic polishing and etching with just one machine. And we also cater for electrolytic thinning, especially suitable for preparation of samples for TEM (Transmission Electron Microscopy).

Save time by using Struers unique scan function to determine the correct polishing voltage. And maximise reproducibility with Struers micro-processor control and built-in database of preparation methods, giving consistent preparation parameters.



## Electrolyte A2

For electrolytic polishing of steel, stainless steel, aluminium and aluminium alloys, nickel alloys, tin and titanium.



### TenuPol-5

For automatic, electrolytical thinning of specimens for examination in a transmission electron microscope. The specimen is polished from both sides simultaneously, thus providing a structure with a minimum of deformation in just a few minutes.

Control unit Footprint:  
W385 mm x D350 mm  
Polishing unit Footprint:  
W270 mm x D180 mm



### LectroPol-5

For automatic, micro-processor controlled electrolytic polishing and etching of metallographic specimens. The unique scan function and built-in methods gives short preparation times and high reproducibility. Ideal for fast quality control.

Control unit Footprint:  
W385 mm x D350 mm  
Polishing unit Footprint:  
W220 mm x D350 mm

# Extract Knowledge with the Scentis Lab Management System



Imagine a working day where all your lab data is collected in one place and logically organized. Where reports are generated automatically and results are instantly communicated to your colleagues.

Scentis is a lab management system developed specifically for materialographic laboratories.

Use Scentis to acquire images, collect associated data, measure and analyse. Use Scentis to archive and manage your data and extract knowledge – from desktop to enterprise level.



## WeldingExpert

Stand-alone dedicated imaging tool for efficient and accurate weld bead control. Unique inverted optical system, automatic lighting, focus and calibration eliminate time-consuming, manual processes and measurement errors.

WeldingExpert is the only stand-alone dedicated imaging tool that gives you a simple way to ensure precise and cost-efficient weld bead inspection, measurement and reporting – all in one solution.



### Scentis

*An intelligent lab management software system developed specifically for materialographic labs. Collects images from microscopes and data from materialographic preparation equipment and hardness testers, and stores the data in one place.*

### Scentis Image

*A range of sophisticated image analysis modules. With Scentis you only purchase the image modules that you need. Choose between 9 modules, e.g. Grain Size module and Multiple Phase Percent Area module.*

### WeldingExpert-5/-11

*Dedicated imaging system for weld bead measurement. Consists of compact housing, LED lighting system, digital camera with motorized zoom and dedicated software for measurement and reporting. Footprint: W248 mm x D220 mm [www.struers.com/weldingexpert](http://www.struers.com/weldingexpert)*



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**About Struers**

*Struers is the world leader in materialographic innovation. We develop, manufacture and distribute quality materialographic preparation solutions to help our customers realize maximum productivity and performance in laboratories and production facilities around the world. Struers is based in Copenhagen, Denmark with affiliates in 23 countries. Struers' employees, including experienced metallographers and qualified service personnel, work from strategically positioned global offices, supported by a worldwide network of dealers.*

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