



The **Dedicated Brinell** Hardness Tester

For you who want a dedicated Brinell hardness tester
with low footprint and high load range

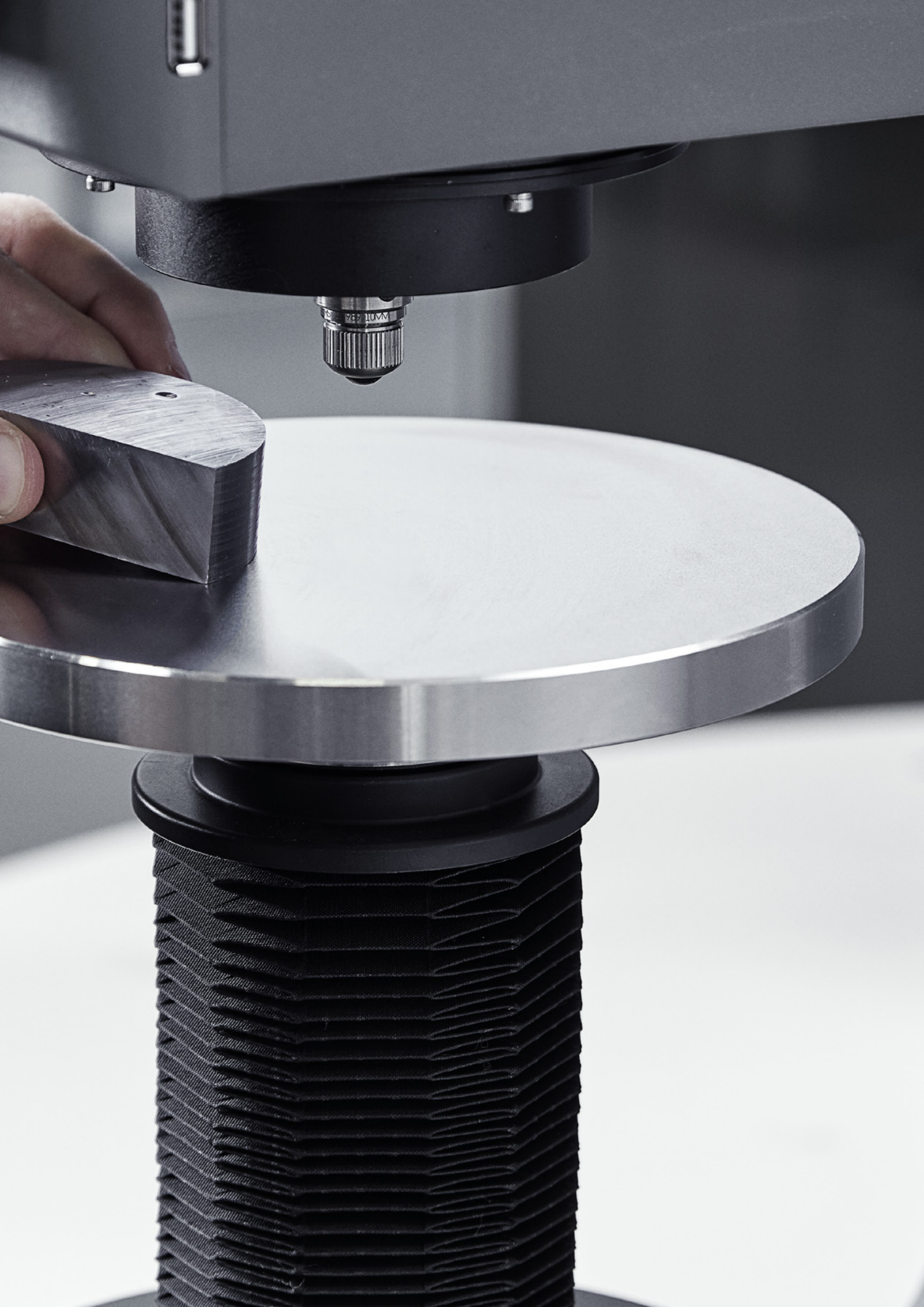
Semi-automatic | Macro | Brinell



The Power of Repeatability

If you read this, you have probably realized something that most people haven't – you know that great repeatability saves you time, money and frustration. That's why we have created the Duramin hardness testers, so that they exceed the standards. Because standards don't always cut it.

**Enjoy the power of repeatability
by Duramin-3000.**





Duramin-3000

81171020

4 Details That Makes a Difference

Meet a hardness tester that is unique in its combination of a very small footprint and a very large load range. Especially for you who wants a dedicated solution just for Brinell measurements – no more, no less. On this page we have selected 4 details that we think, you will find particularly interesting.

Small footprint. Surprisingly high load range

Who said, you can't have both?

Duramin-3000 is a small table top machine with a surprisingly high load range for a machine of its size. Providing a load range from 62,5 - 3000 kgf our own sales personal couldn't believe it until they experienced it for themselves.

Scarcely any training required

Let the simple touchscreen guide you

The simple touch screen on Duramin-3000 offers you all main functions and no complicated sub menus. It is easy to create your own templates including parameters such as method, light settings, limits for tolerance, contrast and brightness. Duramin-3000 will remember for you, and that brings the risks of using wrong test settings to a minimum.

Ultimate Degree of Accuracy

ensured by high precision load cell technology

Due to a load cell system where test loads are applied via a closed loop control unit with a load cell, a DC motor, and electronic measurement, Duramin-3000 exceed the standards for accuracy and repeatability. With the load cell system, we have eliminated the over- and under-shoot that is common in deadweight systems, ensuring the maximum safety for your daily test procedures.

Tests Irregular and Large Samples

With or without clamping

In addition to testing standard samples, the Duramin-3000 is ideal for testing irregular or larger samples due to many available different anvils and vices. You can even do your testing without clamping.

Duramin-3000

Color-coded hardness limits

For easy recognition of values within or outside of your specific limits.

Built-in report manager

Easily generate and export complete reports with results, statistics and customized comments.

Create different user profiles

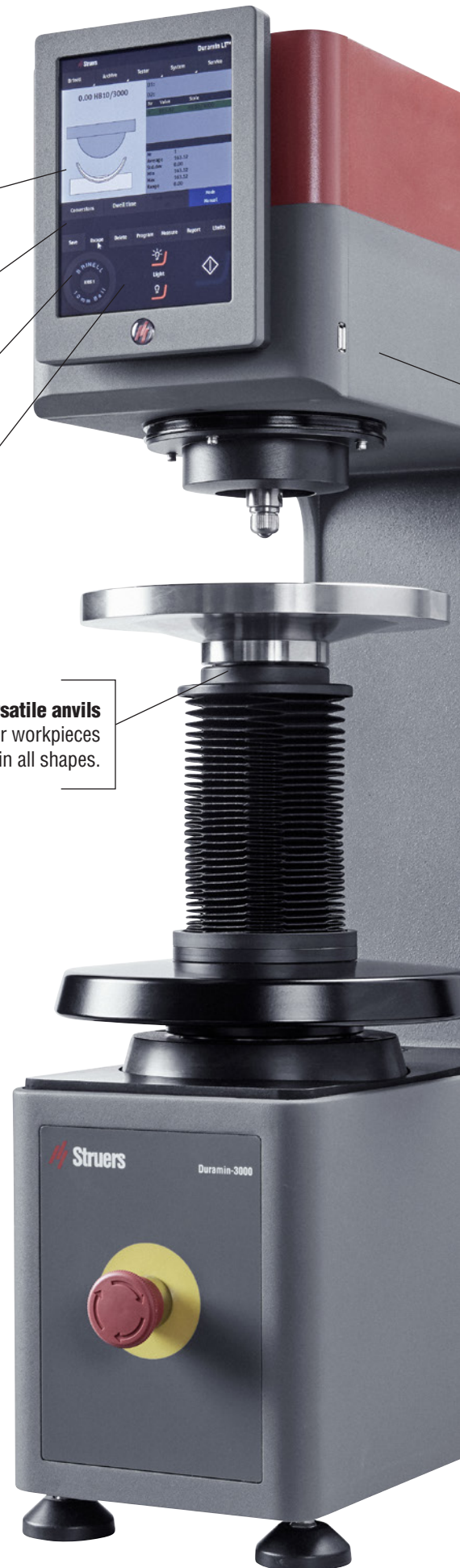
To restrict or allow different privileges.

Embedded Windows PC

Connect to any network and export data via Wi-Fi.

Versatile anvils

For workpieces in all shapes.





Handles ultra-heavy load ranges
Up to 3000 kgf.

High precision load cell
Delivers even higher precision
than required by standards.

Handheld zoom camera
for automatic indent evaluation.

Tough design
Shell of solid cast iron that are ideal for
a rough production environment.

More Than 140 Years Fine-Tuned Service

Don't hesitate to use it.

When you choose a hardness tester from Struers, you also choose some of the best specialists in the world and a wide range of support at your fingertips.

This includes:

- Access to our global support hotline
- Specialist counseling on how to optimize your individual processes
- All critical spare parts available for immediate shipping
- An annual service review
- Online manuals

Specialist counseling

You can always, and at no expense, contact Struers' experienced application specialists with any questions you might have regarding your Struers equipment, best practice testing, or your specific testing situation. That is a natural part of your Struers equipment purchase. Just go to [struers.com/contact](https://www.struers.com/contact) or contact your local specialist.



Extra Services



ServiceGuard

which service is right for you?

Struers ServiceGuard covers a comprehensive range of technical services and training including service plans, service packages, single services and spare parts. Our global network of technical service engineers will work with you to determine the service level best suited to your requirements. See more at: [struers.com/service](https://www.struers.com/service)

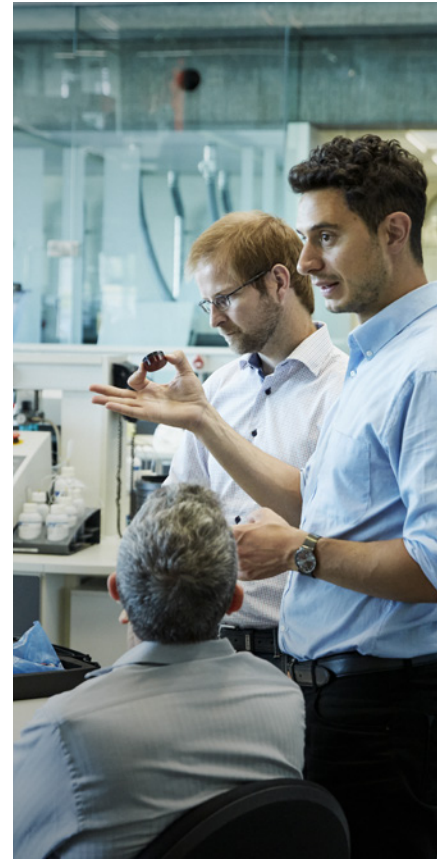
Service | Guard 



Calibration services

Internationally accredited or Struers certified

Choose the service that meets your restrictions in accreditation. Both services are designed to ensure that your hardness tester meets the required standards. A Struers technician performs calibration, including indirect or direct verification of a chosen number of methods.



Application assessment

Identify your optimization opportunities

A Struers Application Specialist visits your facility to perform an in-depth assessment of your use of Struers equipment, metallographic processes, and workflows. The specialist identifies quality and optimization opportunities and provides you with practical tips.

Want to know more? Go to [struers.com/duramin](https://www.struers.com/duramin)

Technical Data

Duramin-3000 is available in one model.

	Duramin-3000
Loads and applications	
Load range (main loads)	62.5 kgf – 3000 kgf
Brinell capability	Yes (2.5, 5 and 10 mm balls)
Anvil, stage and turret	
Anvil size (mm)	Ø 200
XY-stage or anvil	No
Vertical capacity (mm)	130
Throat depth (mm)	215
Motorized Z-axis	No
Max. sample weight	65 kg
Camera and optics	
Overview camera	No
Evaluation camera resolution (MP)	5
Indent evaluation	Automatic via handheld camera
Software and modules	
K1c fracture measurement	No
Report editor	Yes
Data export	Yes
Interfaces and connectivity	
Operation	Embedded Windows 10 PC with 6.5" touch screen. Mouse and keyboard operation is optional.
Communication Ports	USB, RJ45
Wi-Fi	Yes
Blue tooth	Optional
Supply	
Voltage / frequency	100-240 Vac, 50/60 Hz
Power, idle	28 W
Power, max.	105 W
Safety	E-stop, PL=C , Cat. 1
Dimensions	
Height	78.5 cm
Width	18 cm
Depth	60.7 cm
Machine weight (kg)	132 kg

You Get the Complete Solution If You Want It

An effective production plan does not include a lot of fitting time to enable your accessories to cooperate with your machine.

At Struers, we have made sure that you can get exactly the accessories you need for your Duramin Hardness Tester, always guaranteeing a perfect fit for your machine.

You will find a broad selection of indenters, test blocks, sample holders, anvils, and much more. And if you need a customized accessory, we will build it for you.

Accessories

Please choose from a wide range of accessories for your hardness test.

- Indenters, available in different sizes.
- Vices, available in different sizes.
- Anvils, available in different sizes.
- High Magnification Camera.
- Base cabinets.
- Test Blocks.

Brinell indenters with different ball sizes
With accredited certificate acc. to ASTM & ISO

Cat. no.:
06709111

**2.5 mm Brinell
indenter**

Cat. no.:
06709112

**5 mm Brinell
indenter**

Cat. no.:
06709113

**10 mm Brinell
indenter**



Want to know more? Go to [struers.com/duramin](https://www.struers.com/duramin)

Struers ApS
Pederstrupvej 84
DK-2750 Ballerup, Denmark

Tel.: +45 44 600 800
Fax: +45 44 600 801
struers@struers.dk
www.struers.com

SINGAPORE
Struers Singapore
627A Aljunied Road,
#07-08 BizTech Centre
Singapore 389842
Tel.: +65 6299 2268
Fax: +65 6299 2661
struers.sg@struers.dk

SPAIN
Struers España
Camino Cerro de los Gamos 1
Building 1 - Pozuelo de Alarcón
CP 28224 Madrid
Tel.: +34 917 901 204
Fax: +34 917 901 112
struers.es@struers.es

FINLAND
Struers ApS Suomi
Sahajankatu 20-22 A6
00880 Helsinki
Tel.: +358 (0)207 919 430
finland@struers.fi

SWEDEN
Struers Sverige
Box 20038
161 02 Bromma
Tel.: +46 (0)8 447 53 90
Fax: +46 (0)8 447 53 99
info@struers.se

UNITED KINGDOM
Struers Ltd.
Unit 11 Evolution @ AMP
Whittle Way, Catcliffe
Rotherham S60 5BL
Tel.: +44 0845 604 6664
Fax: +44 0845 604 6651
info@struers.co.uk

USA
Struers Inc.
24766 Detroit Road
Westlake, OH 44145-1598
Tel.: +1 440 871 0071
Fax: +1 440 871 8188
info@struers.com

AUSTRALIA & NEW ZEALAND
Struers Australia
27 Mayneview Street
Milton QLD 4064
Australia
Tel.: +61 7 3512 9600
Fax: +61 7 3369 8200
info.au@struers.dk

BELGIUM (Wallonie)
Struers S.A.S.
370, rue du Marché Rollay
F- 94507 Champigny
sur Marne Cedex
Tel.: +33 1 5509 1430
Fax: +33 1 5509 1449
struers@struers.fr

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

CANADA
Struers Ltd.
7275 West Credit Avenue
Mississauga, Ontario L5N 5M9
Tel.: +1 905-814-8855
Fax: +1 905-814-1440
info@struers.com

CHINA
Struers Ltd.
No. 1696 Zhang Heng Road
Zhang Jiang Hi-Tech Park
Shanghai 201203, P.R. China
Tel.: +86 (21) 6035 3900
Fax: +86 (21) 6035 3999
struers@struers.cn

CZECH REPUBLIC & SLOVAKIA
Struers GmbH Organizační složka
vědeckotechnický park
Přílepská 1920,
CZ-252 63 Roztoky u Prahy
Tel.: +420 233 312 625
Fax: +420 233 312 640
czechrepublic@struers.de
slovakia@struers.de

GERMANY
Struers GmbH
Carl-Friedrich-Benz-Straße 5
D- 47877 Willich
Tel.: +49 (0) 2154 486-0
Fax: +49 (0) 2154 486-222
infoservice@struers.de

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

HUNGARY
Struers GmbH
Magyarországi Fióktelep
2040 Budaörs
Szabadság utca 117
Phone +36 (23) 80 60 90
Fax +36 (23) 80 90 91
hungary@struers.de

IRELAND
Struers Ltd.
Unit 11 Evolution@ AMP
Whittle Way, Catcliffe
Rotherham S60 5BL
Tel.: +44 0845 604 6664
Fax: +44 0845 604 6651
info@struers.co.uk

ITALY
Struers Italia
Via Monte Grappa 80/4
20020 Arese (MI)
Tel.: +39-02/38236281
Fax: +39-02/38236274
struers.it@struers.it

JAPAN
Struers K.K.
Takanawa Muse Bldg. 1F
3-14-13 Higashi-Gotanda,
Shinagawa
Tokyo
141-0022 Japan
Tel.: +81 3 5488 6207
Fax: +81 3 5488 6237
struers@struers.co.jp

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

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

AUSTRIA
Struers GmbH
Zweigniederlassung Österreich
Betriebsgebiet Puch Nord 7
5412 Puch
Tel.: +43 6245 70567
austria@struers.de

POLAND
Struers Sp. z o.o.
Oddział w Polsce
ul. Jasnogórska 44
31-358 Kraków
Tel.: +48 12 661 20 60
Fax: +48 12 626 01 46
poland@struers.de

ROMANIA
Struers GmbH, Sucursala Bucuresti
Str. Preciziei nr. 6R
062203 sector 6, Bucuresti
Tel.: +40 (31) 101 9548
Fax: +40 (31) 101 9549
romania@struers.de

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

Ensuring Certainty

With offices and affiliates in 24 countries and a presence in more than 50 countries worldwide, Struers is the world's leading materialographic solution supplier. We are dedicated to enabling our customers to ensure certainty in all aspects of materialographic preparation and testing, as well as material hardness testing - wherever they are in the world. Struers offers a complete range of equipment, consumables, service, and training programs – all supported by the most comprehensive knowledge base, global applications support, and a certified global service setup.

Learn more

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