



Versatile hardness testing that ensures repeatability over a wide load range

Duramin-40 is the primary range of Struers micro/macro hardness testers. It is available with a manual and motorised XY-stage and with an overview camera. Duramin-40 comes with three load ranges; 10 gf - 10 kgf, 10 gf - 31.25 kgf, and 1 gf - 62.5 kgf. The tester includes an integrated PC with a separate monitor for touch screen or mouse operation. Dual monitors are also an option. The test cycle is fully automatic and a motorised 6-position turret is standard. Add-on modules include Kc fracture measurements, mapping and weld measurements.

- Suitable for Vickers, Knoop and Brinell hardness testing
- Automatic 6-position turret
- Manual XY stage or anvil
- Motorised Z axis
- Anti-collision system
- Automatic illumination
- Overview camera option
- Report editor
- Embedded PC with mouse or touch screen operation

Technical data



Struers ApS
Pederstrupvej 84
DK-2750 Ballerup, Denmark
Phone +45 44 600 800
Fax +45 44 600 801
struers@struers.dk
www.struers.com

AUSTRALIAN & NEW ZEALAND
Struers Australia
27 Mayneview Street
Milton QLD 4064
Australia
Phone +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
Téléphone +33 1 5509 1430
Télécopie +33 1 5509 1449
struers@struers.fr

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

CANADA
Struers Ltd.
7275 West Credit Avenue
Mississauga, Ontario L5N 5M9
Phone +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
Phone +86 (21) 6035 3900
Fax +86 (21) 6035 3999
struers@struers.cn

CZECH REPUBLIC & SLOVAKIA
Struers GmbH Organizační složka
vědeckotechnický park
Přilepská 1920,
CZ-252 63 Roztoky u Prahy
Phone +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
Telefon +49 (0) 2154 486-0
Fax +49 (0) 2154 486-222
verkauf@struers.de

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

HUNGARY
Struers GmbH
Magyarország Fióktelepe
2040 Budaörs
Szabadság utca 117
Telefon: +36 (23) 80 60 90
Fax: +36 (23) 80 60 91
Email: 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
Marumoto Struers K.K.
Takanawa Muse Bldg. 1F
3-14-13 Higashi-Gotanda,
Shinagawa
Tokyo
141-0022 Japan
Phone +81 3 5488 6207
Fax +81 3 5488 6237
struers@struers.co.jp

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

NORWAY
Struers ApS, Norge
Sjøskogveien 44C
1407 Vinterbro
Telefon +47 970 94 285
info@struers.no

AUSTRIA
Struers GmbH
Zweigniederlassung Österreich
Betriebsgebiet Puch Nord 8
5412 Puch
Telefon +43 6245 70567
Fax +43 6245 70567-78
austria@struers.de

POLAND
Struers Sp. z o.o.
Oddział w Polsce
ul. Jasnogórska 44
31-358 Kraków
Phone +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
Phone +40 (31) 101 9548
Fax +40 (31) 101 9549
romania@struers.de

SWITZERLAND
Struers GmbH
Zweigniederlassung Schweiz
Weissenbrunnstraße 41
CH-8903 Birmsdorf
Telefon +41 44 777 63 07
Fax +41 44 777 63 09
switzerland@struers.de

SINGAPORE
Struers Singapore
627A Aljunied Road,
#07-08 BizTech Centre
Singapore 389842
Phone +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
Teléfono +34 917 901 204
Fax +34 917 901 112
struers.es@struers.es

FINLAND
Struers ApS, Suomi
Hietalahdenranta 13
00180 Helsinki
Puhelin +358 (0)207 919 430
Faksi +358 (0)207 919 431
finland@struers.fi

SWEDEN
Struers Sverige
Box 20038
161 02 Bromma
Telefon +46 (0)8 447 53 90
Telefax +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
Phone +1 440 871 0071
Fax +1 440 871 8188
info@struers.com

	Duramin-40 M1/M2/M3			Duramin-40 A1/A2/A3			Duramin-40 AC1/AC2/AC3		
LOADS AND APPLICATIONS									
Model	M1	M2	M3	A1	A2	A3	AC1	AC2	AC3
Load range (main loads)	10 gf - 10 kgf	10 gf - 31.25 kgf	1 gf - 62.5 kgf	10 gf - 10 kgf	10 gf - 31.25 kgf	1 gf - 62.5 kgf	10 gf - 10 kgf	10 gf - 31.25 kgf	1 gf - 62.5 kgf
Vickers capability		Yes			Yes			Yes	
Knoop capability		Yes			Yes			Yes	
Brinell capability		Yes			Yes			Yes	
STAGES AND TURRETS									
XY-stage		Manual			Automatic			Automatic	
XY-stage or anvil size (mm)		90x90			350x225			350x225	
XY-stage stroke, max (mm)		25x25			220x120			220x120	
Vertical capacity (mm)		172			148			148	
Throat depth (mm)		170			170			170	
Motorized Z-axis		Yes			Yes			Yes	
Motorized turret		Yes			Yes			Yes	
Turret positions		6			6			7	
Anti-collision protection		Yes			Yes			Yes	
Machine weight		75 kg			80 kg			80 kg	
CAMERAS AND OPTICS									
Overview camera		No			No			Yes	
Overview cam FOV		-			-			200x160	
Overview camera resolution		-			-			5 MP	
Evaluation camera resolution		5 MP			5 MP			5 MP	
Auto illumination		Yes			Yes			Yes	
Stage illumination		Yes			Yes			Yes	
Laser or LED guider		Yes			Yes			Yes	
Dual view		No			Optional			Optional	
SOFTWARE AND MODULES									
Testpoint editor		Optional			Yes			Yes	
CHD measurement		Optional			Yes			Yes	
Edge detection		No			Optional			Optional	
Mapping module		No			Optional			Optional	
Welding module		Optional			Optional			Optional	
Kc fracture measurement		Optional			Optional			Optional	
Report editor		Yes			Yes			Yes	
Data export		Yes			Yes			Yes	
INTERFACES AND CONNECTIVITY									
Operation	Embedded Windows 7 PC with 15" touch screen. Mouse and keyboard operation is optional.								
Communication Ports	HDMI, VGA, RJ45, WLAN, USB, RS232								
WiFi		Yes			Yes			Yes	
Blue tooth		Optional			Optional			Optional	