

		Duramin-40
<b>Hardness methods</b>	Vickers	ISO 6507 ASTM E384, E92 JIS B 7725
	Knopp	ISO 4545 ASTM E92 JIS Z 2251
	Brinell	ISO 6506 ASTM E10 JIS Z 2243
	Conversion	Conversions to other hardness methods according to ASTM E140, ISO 18265, GB/T 1172
<b>Force range</b>	Duramin-40 M1/A1/AC1	0.098 - 98,1 N (10gf - 10 kgf)
	Duramin-40 M2/A2/AC2	0.098 - 306.5 N (10 gf - 31.25 kgf)
	Duramin-40 M3/A3/AC3	0.0098 - 612.9 N (1.0 gf - 62.5 kgf)
<b>Test force</b>	Force application	Load cell, closed loop, force feedback system
	Test force tolerance	< 0.25% for test force above 0.1kgf < 0.5 % for test forces lower than 0.1kgf
	Dwell time settings	Standard 10 seconds, user defined up to 250 seconds
<b>Turret</b>	Motorized turret	6 position turret, 2 indenter positions, 4 objective positions
<b>Electrical data</b>	Power supply	100 V AC - 240 V AC, 50/60Hz, single phase
	Power consumption Max. load Power consumption max. load	90 W
	Idle	67 W
<b>Residual Current Circuit Breaker (RCCB)</b>		Type A, 30 mA is required depending on local regulations.
<b>Dimensions</b>	Width	27.4 cm (10.8")
	Depth	47.2 cm (18.6")
	Height	77.5 cm (30.5")
<b>Weight</b>	Duramin-40 M1/M2/M3	120 kg (264.6 lbs)
	Duramin-40 A1/A2/A3/AC1/AC2/AC3	130 kg (286,6 lbs)
<b>Read method</b>		Automated from Camera Image
<b>Overview camera resolution</b>	Duramin-40 M1/ M2/ M3/A1/A2/A3	No camera
	Duramin-40 AC1/AC2/AC3	5 Mpix (optional)

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<b>Overview camera field of view</b>	Duramin-40 M1/ M2/ M3/A1/A2/A3	No camera
	Duramin-40 AC1/AC2/AC3	200 x 160 mm (7.9" x 6.3")
<b>Measurement camera resolution</b>		5 Mpix or higher
<b>Positions in nosepiece</b>	Duramin-40	6
<b>Position in nosepiece for overview camera</b>	Duramin-40 M1/ M2/ M3/A1/A2/A3	NA
	Duramin-40 AC1/AC2/AC3	1
<b>Max no. of Indenters</b>		2
<b>Max No. of Objectives</b>		4
<b>Indenter Shaft</b>	Diameter	3 mm (0.12")
<b>Standard objectives included</b>		Objective lenses and indenters are ordered separately
<b>Z-Axis</b>		Motorized
<b>XY Stage / Anvil</b>	Duramin-40 M1/M2/M3	Manual XY-stage
	Duramin-40 A1/ A2/ A3/ AC1/ AC2/AC3	Automatic XY-stage
<b>Stage Size</b>	Duramin-40 M1/M2/M3	100 x 100 mm (3.9" x 3.9")
	Duramin-40 A1/ A2/ A3/ AC1/ AC2/AC3	357 x 208 mm (14" x 8.2")
<b>Stage Stroke (travel range)</b>	Duramin-40 M1/M2/M3	25 x 25 mm (0.98" x 0.98")
	Duramin-40 A1/ A2/ A3/ AC1/ AC2/AC3	220 x 120 mm (8.7" x 4.7")
<b>Auto Illumination</b>		Yes
<b>Stage Illumination</b>		Yes
<b>Laser/LED Guide</b>		No
<b>Software</b>	Operating software	Embedded software for work flow system & tester control
	Integrated PC	Yes
	Monitor	15" touchscreen
	Possibility to connect Printer	Yes (A4, A3 full color laser printer optional)
	Ethernet Connection	Yes
	Data Export	5x USB, Ethernet LAN, Wi-Fi, RS232, Bluetooth, HDMI
<b>System</b>	Data output	XML, CSV, Q-DAS certified (optional)

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<b>Software modules</b>	Duramin-40 M1/M2/M3	Basic Statistics (included) Data export (included) Report editor (included) Test pattern (included) Editor, CHD (optional)
	Duramin-40 A1/ A2/ A3/ AC1/ AC2/AC3	Basic Statistics (included) Data export (included) Report editor (included) Test pattern (included) Editor, CHD (included) Kc Fracture (optional)
<b>Sample height</b>	Duramin-40 M1/M2/M3	172 mm (6.8")
	Duramin-40 A1/ A2/ A3/ AC1/ AC2/AC3	148 mm (5.8")
<b>Sample weight</b>		25 kg (55 lbs)
<b>Throat depth</b>		170 mm (6.7") (from Center of indenter to back)
<b>Safety standards</b>		CE labelled according to EU directives
<b>REACH</b>		For information about REACH. contact your local Struers office
<b>Operating environment</b>	Surrounding temperature	10-35°C (50-95°F)
	Humidity	10%-90% RH non-condensing
<b>Safety Circuit Categories/Performance Level</b>	Emergency stop	EN ISO 13849-1 PL c, Category 1 Stop category 0
<b>Noise level</b>	A-weighted sound emission pressure level at workstations	< 70 dB(A)
<b>Vibration level</b>	During operation	Total vibration exposure to upper parts of the body does not exceed 2.5 m/s <sup>2</sup> .