

		Duramin-100
Hardness methods	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
	Rockwell - optional	ISO 6508 ASTM E18 JIS Z 2245
Conversion		-
Force range	Duramin-100 M1	0.49-612.9 N (50 gf-62.5 kgf)
	Duramin-100 A2	0.49-1176.8 N (50 gf-120 kgf)
	Duramin-100 AC3	0.49-2452 N (50 gf-250 kgf)
Test force	Force application	Load cell, closed loop, force feedback system
	Test force tolerance	< 0.25% for test force 100 gf to 250kgf < 0.5 % for test forces below 100gf
	Dwell time settings	Default 10 seconds, user defined. Up to 250 seconds
Turret	Motorized turret	6 position turret, 2 indenter positions, 4 objective positions
Electrical data	Power supply	100 V AC - 240 V AC, 50/60Hz, single phase
	Power consumption max. work load	72 W
	Power consumption IdlePower consumption idle	60 W
	Power consumption max. load Power consumption Max. load Power consumption max. load	156W
Residual Current Circuit Breaker (RCCB)		Type A, 30 mA is required depending on local regulations.
Dimensions	Width	31.5 cm (12.4")
	Depth	61.5 cm (24.2")
	Height	110 cm (43.3")
Weight		190 kg /418.88 lbs)
Read method		Automated from Camera Image
Overview camera resolution		5 Mpix

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Overview camera field of view		200x160 mm (7.87"x6.3")
Measurement camera resolution		10.8 Mpix
Positions in nosepiece		6
Position in nosepiece for overview camera		1
Max no. of indentersMax no. of Indenters		2
Max no. of objectivesMax No. of Objectives		4
Indenter Shaft	Diameter	6.35 mm or 3 mm (two positions, one for 3mm shaft size and one for 6.35 mm shaft size. The 6.35 mm shaft indenter position can only perform loads $\geq 3\text{kgf}$.)
Standard objectives included		5x, 10x, 20x and 40x standard (2.5x, 60x, 100x optional)
Z-Axis		Motorized
XY Stage / Anvil	Duramin-100 M1	Anvil or manual
	Duramin-100 A2/AC3	Motorized
Stage Size	Duramin-100 M1	Anvil $\varnothing=200\text{mm}$
	Duramin-100 A2/AC3	337x187mm (13.3"x7.4")
Stage Stroke (travel range)	Duramin-100 M1	NA
	Duramin-100 A2/AC3	200 x 100 mm (7.9" x 3.9")
Auto Illumination		Yes
Stage Illumination		Yes
Laser/LED Guide		Yes
Software	Operating software	Embedded software for work flow system & tester control
	Integrated PC	Yes
	Monitor	15" touchscreen_ (2nd monitor optional)
	Dual view	Optional
	Possibility to connect Printer	Yes, but optional (A4, A3 full color laser printer)
	Ethernet Connection	Yes
	Data Export	5 USB ports, RJ45 Ethernet LAN, W-LAN, RS-232, Blue Tooth, 5 Axis CNC & motorized XY- stage connector, Dual HDMI screen connectors

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System	Data output	XML, CSV, Certified for Q-DAS (Optional)
Software modules		Total test, max, min, average, range, standard deviation, All in real time after each test
Sample height		136 mm (5.4")
Sample weight	Duramin-100 M1	50 kg (110 lbs)
	Duramin 100 A2/AC3	200 kg (441 lbs)
Throat depth		230 mm (9.1")
Safety standards		CE labelled according to EU directives
REACH		For information about REACH, contact your local Struers office
Operating environment	Surrounding temperature	10-35°C (50-95°F)
	Humidity	10%-90% RH non-condensing
Safety Circuit Categories/Performance Level	Emergency stop	EN ISO 13849-1 PL c, Category 1
		Stop category 0
Noise level	A-weighted sound emission pressure level at workstations	< 70 dB(A)
Vibration level	During operation	Total vibration exposure to upper parts of the body does not exceed 2.5 m/s ² .