



		Duramin-3000
Hardness methods	Brinell	ISO 6506 ASTM E10 JIS Z 2243
	Conversion	Conversions to other hardness methods according to ASTM E140, ISO 18265, GB/T 1172
Force range		612.9 - 29420 N (62.5 - 3000 kgf)
Test force	Force application	Semi-automatic, closed loop, force feedback, loading, dwell, unloading
	Test force tolerance	< 0.5 %
	Dwell time settings	Defaults 10 seconds, adjustable 1 to 999 s
Turret		1
Electrical data	Power supply	100 V AC - 240 V AC, 50/60Hz, single phase
	Power consumption load	45 W
	Power consumption idle	28 W
	Power consumption max. load Power consumption Max. load Power consumption max. load	105 W
	Power inlet	1-phase (N+L1+PE) or 2-phase (L1+L2+PE) The electrical installation must comply with Installation Category II
Residual Current Circuit Breaker (RCCB)		Type A, 30 mA is required depending on local regulations.
Dimensions	Width	180 mm (7.1")
	Depth	607 mm (23.9")
	Height	785 mm (30.9")
Weight		132 Kg (291 lbs)
Read method		Hand held camera with automated readout
Overview camera resolution		NA
Overview camera field of view		NA
Measurement camera resolution		5 MPix
Positions in nosepiece		1
Position in nosepiece for overview camera		NA
Max no. of Indenters Max no. of indenters Max no. of Indenters		1



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Max no. of Objectives	Max	0
No. of Objectives	Max no. of	
objectives	Max No. of	
Objectives	Objectives	
Indenter Shaft	Diameter	6.35 mm (0.25")
Standard objectives included		NA
Z-Axis		Manual
XY Stage / Anvil		Anvil
Stage Size		Ø200 mm (7.9")
Stage Stroke (travel range)		NA
Auto Illumination		Yes
Stage Illumination		NA
Laser/LED Guide		NA
Software	Operating software	High performance embedded controller, i7, mSSD 120 GB MS Windows 10 operated
	Integrated PC	Yes
	Monitor	6.5" portrait mode capacitive touch screen
	Dual view	NA
	Possibility to connect Printer	NA
	Ethernet Connection	Yes
	Data Export	4x USB, Ethernet LAN, Wi-Fi, RS232, Bluetooth, HDMI (depending on configuration)
System	Data output	XML, CSV, Q-DAS certified (optional)
Software modules		Total test, max., min., average, range, standard deviation, all in real time after each test
Sample height		110 mm (4.3")
Throat depth		215 mm (8.5") (from Center of indenter to back)
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



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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 .
Special comments	<p>For 2.5 mm ball high magnification camera is required.</p> <p>For 5 mm ball check if high magnification camera is required.</p> <p>High magnification camera is required for 5 mm ball if HB5/250 or lower loads than 250kgf is used.</p> <p>For HB5/750 high magnification camera is required for hardness higher than 350HB</p>	