

		Duramin-600
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	ISO 6508 ASTM E18 JIS Z 2245
Force range	M1 & Z1	9.8-2451 N (1-250 kgf)
	M2 & Z2	29.4-7355 N (3-750 kgf)
	M3 & Z3	49-29420 N (5-3000 kgf)
Test force	Force application	Multi-load cell, closed loop
	Test force tolerance	< 0.25% for test force higher than 1 kgf < 0.5 % for test forces lower than 1 kgf
	Dwell time settings	Default 10 s, adjustable up to 250 s
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 load	71 W
	Power consumption idle	65 W
	Power consumption max. load Power consumption Max. load	196 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	380 mm (15")
	Depth	685 mm (27")
	Height	1423 mm (56")
Weight	Duramin-600 M	430 kg (947 lbs)
	Duramin-600 Z	430 kg (947 lbs)



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Read method		Automated
Overview camera resolution		N.A.
Overview camera field of view		N.A.
Measurement camera resolution		10.8 MPix
Positions in nosepiece		6 position turret, 2 indenter positions, 4 objective positions
Position in nosepiece for overview camera		-
Max no. of Indenters	Max no. of indenters	2
Max No. of Objectives	Max No. of objectives	4
Indenter Shaft	Diameter	6.35 mm
Standard objectives included		0.7x, 2.5x, 5x, 10x, 20x, 40x, 60x, 100x
Z-Axis		Manual (Motorized Optional)
Anti-colission protection		Yes
XY Stage / Anvil		Anvil or manual
Stage Size		Ø80 mm (3.1")
Stage Stroke (travel range)		N.A.
Auto Illumination		Yes
Stage Illumination		No
Laser/LED Guide		No
Software	Operating software	High performance embedded controller, i7, mSSD 120 GB MS Windows 10 operated
	Integrated PC	Yes
	Monitor	15" capacitive touch screen
	Dual view	No (Optional)
	Possibility to connect Printer	No
	Ethernet Connection	Yes
	Data Export	USB, Ethernet LAN, Wi-Fi, RS232, Bluetooth, HDMI
System	Data output	XML, CSV, Q-DAS certified (optional)
Software modules		Total test, max., min., average, range, standard deviation



		Duramin-600
Sample height		170 mm (6.7")
Throat depth		260 mm (10.2")
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