

		DuraVersa-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	Conversions to other hardness methods according to ASTM E140, ISO 18265, GB/T 1172	
Force range	DuraVersa-100A	1.96 - 2452 N (200 gf - 250 kgf)
	DuraVersa-100B	1.96 - 7357.5 N (200 gf - 750 kgf)
	DuraVersa-100C	1.96 - 29430 N (200 gf - 3000 kgf)
Test force	Force application	Load cell, closed loop, force feedback system
	Test force tolerance	< 0.25% for test force 100 gf to 250 kgf < 0.5 % for test forces below 100 gf
	Dwell time settings	Default 10 seconds, user defined. Up to 250 seconds
Electrical data	Power supply DuraVersa-100A/B	100 - 240 V AC, 50 / 60 Hz, single phase
	Power supply DuraVersa-100C	Specify 100 - 110 V AC, 50 / 60 Hz, single phase or 220 - 240 V AC, 50 / 60 Hz, single phase
	Power consumption max. work load	72 W
	Power consumption Idle	60 W
	Power consumption max. load	156 W
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	280 kg (617 lbs)	
Read method	Automated from Camera Image	



		DuraVersa-100
Measurement camera resolution		18 MP
Overview camera resolution		13 MP
Overview camera field of view		variable 40 x 30 mm - 140 x 110 mm (1.6 x 1.2" - 5.5 x 4.3")
Turret	Motorized turret	9 position turret, incl. 1 laser / touch probe, rest freely configurable
Position in nosepiece for overview camera		1
Max no. of indenters		7
Max no. of objectives		7
Indenter Shaft	Diameter	6.35 mm or 3 mm
Available objectives		Selectable 0,7x, 2,5x, 5x, 10x, 20x , 40x 60x and 100x , all long working distance objectives.
Z-Axis		Motorized



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Motorized Stage Options	DirectConnect stage, 215 x 160 mm	Travel: 75 x 75 mm Resolution: 0.001 mm Repeatability: ± 0.0015 mm Load: up to 400 kgf
	DirectConnect stage, 260 x 205 mm	Travel: 120 x 120 mm Resolution: 0.001 mm Repeatability: ± 0.0015 mm Load: up to 400 kgf
	DirectConnect stage, 360 x 205 mm	Travel: 220 x 120 mm Resolution: 0.001 mm Repeatability: ± 0.0015 mm Load: up to 400 kgf
	DirectConnect stage, 490 x 224 mm	Travel: 340 x 120 mm Resolution: 0.001 mm Repeatability: ± 0.0015 mm Load: up to 4000 kgf
	DirectConnect stage, 410 x 265 mm	Travel: 200 x 150 mm Resolution: 0.001 mm Repeatability: ± 0.0015 mm Load: up to 4000 kgf
	DirectConnect stage, 510 x 265 mm	Travel: 300 x 150 mm Resolution: 0.001 mm Repeatability: ± 0.0015 mm Load: up to 4000 kgf
	DirectConnect stage, 560 x 265 mm	Travel: 400 x 150 mm Resolution: 0.001 mm Repeatability: ± 0.0015 mm Load: up to 4000 kgf
	Auto Illumination	Yes
Stage Illumination	Yes	
Laser/LED Guide with integrated touch probe	Yes	



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Software	Operating software	Embedded software for work flow system & tester control
	Integrated PC	Yes
	Monitor	27" touchscreen FHD (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, Bluetooth, HDMI
	System	Data output
Sample height	With motorized stage: 400 kg load capacity	120 mm (4.7")
	With motorized stage: 4000 kg load capacity	100 mm (3.9")
Sample weight	DuraVersa-100A/B	50 kg (110 lbs)
	DuraVersa-100C	200 kg (441 lbs)
Throat depth		230 mm (9.1")
Safety standards		CE labeled 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 .