

DuraVista-40		
Hardness methods	Vickers	ISO 6507 ASTM E384, E92 JIS B 7725
	Knoop	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
Force range	Main load ranges (select one)	0.098 - 19,6 N (10 gf - 2 kgf)
		0.098 - 98,1 N (10 gf - 10 kgf)
		0.098 - 306.5 N (10 gf - 31.25 kgf)
		0.0098 - 612.9 N (1.0 gf - 62.5 kgf)
		1.962 N - 612.9 N (200 gf - 62.5 kgf)
	Extended load ranges	Force range extension 0.00098 - 0.0098 N (0.1 - 1 gf)
		Force range extension 0.0098 N - 0.098 N (1 - 10 gf)
		Force range extension 0.098 N - 1.9 N (10 - 200 gf)
		Force range extension 19.6 - 98.1 N (2 - 10 kgf)
		Force range extension 98,1 - 306.5 N (10 - 31.25 kgf)
		Force range extension 306,5 - 612.9 N (31.25 - 62.5 kgf)
Test force	Force application	Load cell, closed loop, force feedback system
	Test force tolerance	< 0.25% for test force above 0.1 kgf < 0.5 % for test forces lower than 0.1 kgf
	Dwell time settings	Standard: 10 seconds User defined: up to 250 seconds
Turret	Motorized turret	6 position turret
Max no. of Indenters		2 (1 in standard delivery, 2. optional)
Max No. of Objectives		4
Indenter Shaft	Diameter	3 mm (0.12")
Standard objectives included		10x & 50x long working distance (LWD)

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Electrical data	Power supply	100 - 240 V AC, 50/60 Hz, single phase
	Power consumption Max. load	90 W
	Idle	67 W
Residual Current Circuit Breaker (RCCB)		Type A, 30 mA is required depending on local regulations.
Dimensions	Width	27.4 cm (10.8")
	Depth	47.2 cm (18.6")
	Height	77.5 cm (30.5")
Weight	DuraVista-40M	120 kg (264.6 lbs)
	DuraVista-40A	130 kg (286.6 lbs)
Measurement camera resolution		18 MP
Read method		Automated from Camera Image
Overview camera	DuraVista-40M	NA
	DuraVista-40A	13 MP
Overview camera field of view	DuraVista-40M	NA
	DuraVista-40A	200 x 160 mm (7.9" x 6.3")
Z-Axis		Motorized
XY Stage / Anvil	DuraVista-40M	Configurable manual or motorized XY-stage
	DuraVista-40A	Motorized XY-stage (configure size option)
Motorized stage options		DirectConnect stage: 215 x 160 mm Travel: 75 x 75 mm Resolution: 0.001 mm Repeatability: ± 0.0015 mm Total load: up to 400 kgf max.
		DirectConnect stage, 260 x 205 mm Max. travel: 120 x 120 mm Resolution: 0.001 mm Repeatability ± 0.0015 mm Total load: up to 400 kgf
		DirectConnect stage: 360 x 205 mm Max. travel: 220 x 120 mm Resolution: 0.001 mm Repeatability ± 0.0015 mm Total load: up to 400 kgf

DuraVista-40		
Auto Illumination		Yes
Stage Illumination		Yes
Laser/LED Guide		No
Software	Operating software	DuraSoft software for work flow system & tester control
	Integrated PC	Yes, external PC on request
	Monitor	27" touchscreen
	Possibility to connect Printer	Yes
	Ethernet Connection	Yes
	Data Export	2x USB, Ethernet LAN, Wi-Fi, Bluetooth, HDMI
System	Data output	XML, CSV, PDF (with virtual printer)
		Q-DAS export (optional)

DuraVista-40		
Software modules	DuraSoft for DuraVista-40M	Basic Statistics Data export Report editor Test pattern Vickers & Knoop automeasure
	DuraSoft for DuraVista-40A	Basic Statistics Data export Report editor 3-axis controller & free style test pattern editor Vickers & Knoop automeasure DuraSoft-Met metallography pack
	DuraSoft options for DuraVista-40M & 40A	Pattern editor CHD, SHD and NHD (requires motorized stage) Artificial Intelligence Deep Learning Brinell module Drawing and measuring functions Automatic edge detection (requires a motorized stage) KiC Palmqvist & Median measurement scales Image stitching for full stage overview (requires a motorized stage) Automatic Contour scanning (requires a motorized stage) 2D / 3D hardness scanning (includes automatic contour scanning) (requires a motorized stage) ISO 898-1 screw thread measurement of (de)-carbonized part. (requires Contour scanning) ISO-2702 tap screw thread measurement (requires a motorized stage) ISO 9015 Weld pattern configurator (requires motorized stage + overview camera or 0.7x objective) ISO bullets casings pattern Unlock API for robotic systems Q-DAS Certified connectivity protocol Barcode & QR data mapping software
Sample height	DuraVista-40 with manual stage	172 mm (6.8")
	DuraVista-40 with motorized stage	148 mm (5.8")
Sample weight		max. 25 kg (55 lbs)
Throat depth		170 mm (6.7") (from center of indenter to back)
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

TECHNICAL DATA
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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 .

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