

		Duramin-4
Hardness methods Duramin-4 M1	Vickers	ISO 6507 ASTM E384, E92 JIS B 7725
	Knopp	ISO 4545 ASTM E92 JIS Z 2251
Hardness methods Duramin-4 M2	Vickers	ISO 6507 ASTM E384, E92 JIS B 7725
	Knopp	ISO 4545 ASTM E92 JIS Z 2251
	Brinell Duramin-40 M2 Only	ISO 6506 ASTM E10 JIS Z 2243
Force range	Duramin-4 M1	0,098 - 19,6N (10gf - 2 kgf)
	Duramin-4 M2	9,8 - 612,9 N (1 kgf - 62.5 kgf)
Test force	Force application	Multi-load cell, closed loop, force feedback system
	Test force tolerance	< 0.5 % for all test forces
	Dwell time settings	Default 10 seconds, user defined up to 999 seconds
Turret		Ultra-fast, 6 position turret, 2 intender position, 4 objective position
Electrical data	Power supply	100 V AC - 240 V AC, 50/60Hz, single phase
	Power consumption load	20 W
	Power consumption idle Power consumption Idle Power consumption idle	14 W
	Power consumption max. load Power consumption Max. load Power consumption max. load	26 W
Dimensions	Width	275 mm (10,8")
	Depth	474 mm (18,7")
	Height Duramin-4 M1	731 mm (28,8")
	Duramin-4 M2	811 mm (31,9")
Weight	Duramin-4 M1	90 kg
	Duramin-4 M2	107 kg
Read method		Analog eyepiece with 15x magnification

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Overview camera resolution		NA
Overview camera field of view		NA
Measurement camera resolution		NA
Positions in nosepiece		6
Position in nosepiece for overview camera		NA
Max no. of Indenters Max no. of indenters Max no. of Indenters		2
Max no. of Objectives No. of Objectives Max no. of objectives Max No. of Objectives		4
Indenter Shaft	Diameter	3 mm (0,12")
Z-Axis		Manual
Anti-colission protection		Yes
XY Stage / Anvil		Duramin-4 M1: Manual Stage (Manual or Digital Stage Micrometers) Duramin-4 M2: Anvil
Stage Size		Duramin-4 M1: Manual stage: 100 x 100 mm (3.9 x 3.9") Duramin-4 M2: Anvil: 60 mm (2.4")
Stage Stroke (travel range)		25 x 25 mm (0,98 x 0,98")
Auto Illumination		NA
Stage Illumination		NA
Laser/LED Guide		NA
Software	Operating software	Internal firmware
	Integrated PC	Internal controller
	Monitor	NA (6,5" screen)
	Dual view	NA
	Possibility to connect Printer	Optional
	Ethernet Connection	Optional
	Data Export	TXT
System	Data output	1x USB A, LVDS
Software modules		Statistics (included)



TECHNICAL DATA

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Sample height	Duramin-4 M1	150 mm (5.9")
	Duramin-4 M2	
Throat depth		170 mm (6.7") (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
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