

Technical data	Model					
	DuraVision-20	DuraVision-200	DuraVision-40	DuraVision-400	DuraVision-30	DuraVision-300
Test load range (main loads)	9.8-2450 N (1-250 kgf)		29.4-7350 N (3-750 kgf)		98-29430 N (10-3000 kgf)	
Anvil/stage height adjustment	Manual	Motorized	Manual	Motorized	Manual	Motorized
Test anvil size WxD [mm]	Ø90	320 x 415	Ø90	320 x 415	Ø90	320 x 415
Clamping speed [mm/s]	-	9.2	-	9.2	-	9.2
Test height [mm]	0-315	0-430	0-315	0-430	0-315	0-430
Throat depth [mm]	255					
Max. sample weight*	200 kg / 440 lbs*					
XY-stage movement	Optional (manual). Max. test load 500 kgf			-	Optional (manual). Max. test load 500 kgf	-
General data						
Operation	Embedded Windows 7 PC with 8.4" touch screen					
Communication ports	2xUSB 2.0, 1xSerial (RS232), 1xEthernet/LAN (RJ 45), 1xVGA, 1xPS/2					
Evaluation camera	CMOS 1.3 MPix (1280 x 1024 pixels), ½" chip size, USB 2.0					
Illumination source	Adjustable LED					
Ring light with dark field illumination	Optional					
Illumination adjustment	Automatic					
Focus	Automatic					
Hardness evaluation	Automatic					
Zoom	2-step optical zoom integrated, additional 7-step zoom optional					
Objective lenses	2.5x, 4x, 10x, 20x, 40x					
Automatic measurement turret	Optional, 6-position					
Hardness conversion according to	EN ISO 18265 / ASTM E140 / DIN 50150 Integrated in software					
Geometric correction of hardness value	Automatic (convex, concave, spherical) Integrated in software					
Statistical functions	Integrated in software					
Report generator	Integrated in software					
CHD measurement	Optional		-		Optional	-
Temperature [°C]	5-40 °C					
Humidity [% rel.]	Max. 90 %					
Voltage	1 x 110/230 V / 50-60 Hz					
Max. fluctuation	+/- 10%					
Max. power consumption	120 W	240 W	120 W	240 W	120 W	240 W
Fuses (110 / 230 V)	T6.3 A					
Safety rating EN 60529	IP20					
Dimensions, H x W x D [mm]	1200 x 280 x 760	1200 x 320 x 760	1200 x 280 x 760	1200 x 320 x 760	1200 x 280 x 760	1200 x 320 x 760
Dimensions, incl. base cabinet, H x W x D [mm]	1705-1905 x 850 x 805					
Weight, basic machine [kg]	400	420	400	420	400	420
Shipping weight [kg]	500	520	500	520	500	520
Test methods available	Knoop: HK1, HK2 Vickers: HV1, HV2, HV3, HV5, HV10, HV20, HV30, HV50, HV100. Brinell: HBW1/2.5, HBW1/5, HBW1/10, HBW1/30, HBW2.5/15.625, HBW2.5/31.25, HBW2.5/62.5, HBW2.5/187.5 HBW5/62.5, HBW5/125, HBW5/250 HBW10/250 Rockwell: HRA-HRV (all) Rockwell Superficial: HR15/30/45N/T/W/X/Y (all) Plastics Testing: 49 N, 132 N, 358 N, 961 N		Vickers: HV3, HV5, HV10, HV20, HV30, HV50, HV100. Brinell: HBW1/5, HBW1/10, HBW1/30, HBW2.5/15.625, HBW2.5/31.25, HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW5/125, HBW5/250, HBW5/750, HBW10/250, HBW10/500 Rockwell: HRA-HRV (all) Rockwell Superficial: HR15/30/45N/T/W/X/Y (all) Plastics Testing: 49 N, 132 N, 358 N, 961 N		Vickers: HV10, HV20, HV30, HV50, HV100. Brinell: HBW1/10, HBW1/30, HBW2.5/15.625, HBW2.5/31.25, HBW2.5/62.5, HBW2.5/187.5 HBW5/62.5, HBW5/125, HBW5/250, HBW5/750 HBW10/250, HBW10/500, HBW10/1000, HBW10/3000 Rockwell: HRA-HRV (all) Rockwell Superficial: HR15/30/45N/T/W/X/Y (all)	
Conforms to standards	Brinell: EN ISO 6506, ASTM E10, JIS Z 2243 Rockwell: EN ISO 6508, ASTM E18, JIS Z 2245, ISO 2039-2 Vickers: EN ISO 6507, ASTM E384, JIS Z 2244 Knoop: EN ISO 4545, ASTM E384, JIS Z 2251 Ball indentation hardness (Plastics testing): ISO 2039-1/-2					

* The max. sample weight on DuraVision-200/-300/-400 is limited by the support / base cabinet used.
The indicated max. weight is based on the cabinets EMZ14 / EMZ15, but can be increased if a different cabinet is used.