

Rockwell, Rockwell Superficial, Brinell Hardness Tester HR-530 and HR-600

Specifications

Functions	<ul style="list-style-type: none"> • Conversion function [HV, HK, HR (Rockwell hardness A, B, C, D, F, G / Rockwell Superficial 15T, 30T, 45T, 15N, 30N, 45N), HS, HB, tensile strength] • GO/NG judgment function • Serial test function (for specimens of the same thickness) • Cylindrical correction, spherical correction, offset correction, multi-point correction functions • Statistical calculation function • Graph generation function (X-R control charts)
Power supply	AC100V, 120V, 220V, 240V Auto-selection
Preliminary test force	29,42; 98,07 N
Statistic function	Maximum value, minimum value, mean value, standard deviation, upper limit, lower limit, GO count, range, NG count
Test force setting	By software setting
Table lifting	Manual (automatic breaking and load sequencing)
Standard	ISO 6508; JIS 7726; ISO 6506, JIS 7726; ISO 2039-2, ASTM D785, JIS K 7202; VDI/VDE 2616-1
Load control	Automatic (load/hold/unload)
Max. specimen depth	150 mm
Brinell Scale [N]	61,29; 98,07; 153,2; 245,2; 294,2; 306,5; 612,9; 980,7; 1226; 1839 N
Data output	RS-232C Digimatic, USB2
Force dwell time	1-120s (Selectable in units of 1s)

All main units are supplied without power cord, indenters and hardness reference materials. Please choose the required accessories separately.

Please choose for example:

63DIA023 diamond indenter ISO 6508 and ASTM E18
 63ETB040DG 60HRC hardness reference material ISO 6508 and ASTM E18
 02ZAA021 power cord

Series 810

The HR-530 series offers five different hardness testing methods: Rockwell, Rockwell Superficial, Brinell, Brinell Depth Measurement and Plastic Testing in a single unit.

This makes it a versatile tool ready to tackle tasks in production, goods inwards inspection and quality control in general.

- A real time electronic test force control system is built into the compact body along with an electronic force gage. The test force control prevents the system from applying too much test force at the point of reaching total testforce.
- Real time force control provides accurate test force generation and stable time cycle sequences conform to ISO standards.
- The serial measurement mode enables fast execution of a high numbers of tests on identical workpieces.
- A magnet brake system stops the spindle movement immediately at sensing of workpiece contact. This enables the HR-530 to perform semi automatic test sequences, eliminating the user influence.
- The lever indenter arm design enables not only interior and exterior measurements but also an excellent specimen surface overview. The functionality is furthermore enhanced by an LED workroom illumination.
- The intelligent lever arm design allows testing at inside positions without cutting the specimen. The minimum diameter that can be entered by the lever arm with the standard size diamond indenter is 35 mm.
- The optional short type diamond indenter (Part No. 63DIA007) additionally enables inside testing from Ø22 mm.
- HR-530L long type with an optional max. specimen height of 395 mm.
- Indenters, test blocks and power cord are not included in the scope of delivery and have to be ordered separately.



HR-530 (810-233-33)

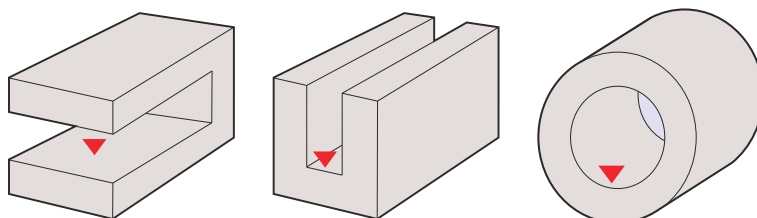
HR-530L (810-333-33)

Maximum workpiece size:

Maximum workpiece size:

Height 250mm
Depth 150 mm

Height 395 mm
Depth 150 mm



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Metric

No.	Model	Rockwell Scale Diamond	Rockwell Scale Ball 1,5875 mm	Rockwell Scale Ball 3,175 mm	Rockwell Scale Ball 6,35 mm	Rockwell Scale Ball 12,7 mm	Rockwell Superficial Scale Diamond
810-233-33/810-333-33/810-512-23	HR-530	HRA	HRF	HRH	HRL	HRR	HR15N
	HR-530L	HRD	HRB	HRE	HRM	HRS	HR39N
	HR-610A	HRC	HRG	HRK	HRP	HRV	HR45N
810-522-23/810-527-21	HR-620A	HRA	HRF	HRH	HRL	HRR	HR15N
	HR-620B	HRD	HRB	HRE	HRM	HRS	HR39N
		HRC	HRG	HRK	HRP	HRV	HR45N

No.	Rockwell Superficial Scale Ball 1,5875 mm	Rockwell Superficial Scale Ball 3,175 mm	Rockwell Superficial Scale Ball 6,35 mm	Rockwell Superficial Scale Ball 12,7 mm	Ball Indentation plastic test	Rockwell Plastic Test Scales Ball 3,175 mm	Rockwell Plastic Test Scales Ball 6,35 mm	Rockwell Plastic Test Scales Ball 12,7 mm
810-233-33/810-333-33/810-512-23	HR15TW	HR15WW	HR15XW	HR15YW		HRE	HRL	HRR
	HR20TW	HR30WW	HR30XW	HR30YW		HRK	HRM	
	HR45TW	HR45WW	HR54XW	HR45YW				
810-522-23/810-527-21	HR15TW	HR15WW	HR15XW	HR15YW	HB 49N	HRE	HRL	HRR
	HR20TW	HR30WW	HR30XW	HR30YW	HB 132N	HRK	HRM	
	HR45TW	HR45WW	HR54XW	HR45YW	HB 358N			
				HB 961N				

No.	Rockwell α Test Ball 12,7 mm	Vickers Depth Measurement	Brinell Scales indentation only Ball 1,0 mm	Brinell Scales indentation only Ball 2,5 mm	Brinell Scales indentation only Ball 5,0 mm	Brinell Scales indentation only Ball 10,0 mm	Brinell depth measurement Ball 2,5 mm
810-233-33/810-333-33/810-512-23	(HRR)		HBW 1/10 HBW 1/30	HBW 2,5/6,25 HBW 2,5/15625 HBW 2,5/31,25 HBW 2,5/62,5 HBW 2,5/187,5	HBW 5/25 HBW 5/62,5 HBW 5/125	HBW 10/100	HBD 2,5/62,5 HBD 2,5/187,5
810-522-23/810-527-21	(HRR)	HVD 30 HVD 50	HBW 1/1 HBW 1/2,5 HBW 1/5 HBW 1/10 HBW 1/30	HBW 2,5/6,25 HBW 2,5/15625 HBW 2,5/31,25 HBW 2,5/62,5 HBW 2,5/187,5	HBW 5/25 HBW 5/62,5 HBW 5/125 HBW 5/250	HBW 10/100 HBW 10/250	HBD 2,5/62,5 HBD 2,5/187,5 HBD 5/250