

Warranty

24 Months

Included







Included



Included



Included



optional

Technical Highlights:

- Measures all metal samples (mass > 3kg, thickness > 8 mm)
- Rebound hardness tester
- 2 Impact type D (standard) external, included
- Accuracy: 1 % at 800 HI D
- Indicates: Rockwell (B & C), Vickers (HV), Brinell (HB), Shore (HS), Leeb (HL) and Tensile strength (MPa)
- Tests at any angle (360°)
- Standard battery operated
- Optional Sensors available



Automatic recognition of the impact sensor connected to the HMP

Data Output to PC RS 232C Output included, to print the internal memory

Software and cable to PC included

Measurement direction: all directions possible with automatic compensation

Printer

Optional: Thermo Mini printer ATU-05: 355,- €

> AHMR C: € 540,-25 % impact energy compared to type D for testing tiny or light objects or the suface of hardened layer

Impact C-Type



Impact DL-Type AHMR DL: € 1330,-For very narrow surfaces (ø 4.5 mm), e.g. slender or narrow grooves

Impact DC-Type

AHMR DC: € 540,-

Short impact sensor to allow testing in

narrow spaces or

in holes or hollow

objects



Impact D+15-Type AHMR D+15: € 540,-Slim front section for holes, grooves or re-entrant surfaces



Impact G-Typ AHMR G: € 1 330,-900 % impact energy compared to type D for big and heavy test objects with rough surfaces



Delivered in a hard carrying case



HMP Leeb Impact Hardness Tester

Mobility:

The SAUTER HMM provides a professional and resilient measurement solution wherever required, i.e. production, product control, etc

Automatic unit conversion: The SAUTER HMP converts the measured results into all above mentioned popular hardness units and into tensile strength (Ób MPa)

Statistics kit: Shows single measured value. average value, testing date, impact direction, impact time, etc.

Internal memory for 100 groups (with up to 32 values forming the average value of the group)

Measuring ranges hardness:

HL with D Sensor (HLD): Min: 170 to Max: 960 HLD

Material						lm	oact se	nsor					
		D/DC		D+15		C		G		E		DL	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
	HRC	20,0	68,5	19,3	67,9	20,0	69,5			22,4	70,7	20,6	68,2
	HRB	38,4	99,6					47,7	99,9			37,0	99,9
Steel and	HRA	59,1	85,8							61,7	88,0		
cast steel	НВ	127,0	651,0	80,0	638,0	80,0	683,0	90,0	646,0	83,0	663,0	81,0	646,0
	HV	83,0	976,0	80,0	937,0	80,0	996,0			84,0	1.042,0	80,0	950,0
	HS	32,2	99,5	33,3	99,3	31,8	102,1			35,8	102,6	30,6	96,8
Cold work tool steel	HRC	20,4	67,1	19,8	68,2	10,7	68,2			22,6	70,2		
	HV	80,0	898,0	80,0	935,0	100,0	941,0			82,0	1.009,0		
Stainless steel	HRB	46,5	101,7										
	НВ	85,0	655,0										
	HV	85,0	802,0										
Grey cast iron	HRC												
	HB HV	93,0	334,0					92,0	326,0				
Nodular cast iron	HRC HB HV	131,0	387,0					127,0	364,0				
Cast aluminium alloys	НВ	19,0	164,0			23,0	210,0	32,0	168,0				
	HRB	23,8	84,6			22,7	85,0	23,8	85,5				
Brass (Copper-zinc alloys)	НВ	40,0	173,0										
	HRB	13,5	95,3										
Bronze (Copper- aluminium-tin alloys)	НВ	60,0	290,0										
Wrought copper alloys	нв	45,0	315,0										

Measuring range tensile strength: Ób from 374 to 2652 MPa (steel only)

Standard block for calibration included

Technical data:

• Min. sample weight Sensor D + others: 3 kg Sensor C: 1,5 kg Sensor G: 15 kg

on a solide and stable support

- · Min. sample thickness (mm): Sensor G: 10 mm Sensor C: 1 mm Sensor D + others: 8 mm
- Min. sample radius (concave / convex): 50 mm (with support ring: 10 mm)

Size: W 150 x D 74 x H 32 mm; Weight: 245 g

Supports rings for bended testing samples available - please enquire.

Power supply 2 x 1.5V AA batteries, Operation time: 100 h

Power Management

- Auto-Power-Off function
- · Low-Battery indicator

Model	Sensor	Resolution	Price, excl. VAT	ISO Calibration Certificate
НМР —	– Тур D —	- 1 HL	€ 1 655,-	€ 120,-

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