

Warranty

**24**  
Month

Included



Included



Included



Included



Included



**Technical Highlights:**

- **Rebound** hardness tester
- **Impact type D** (standard) external. included
- **Accuracy: 1 %** at 800 HLD ( $\pm 6$  HLD)
- **Indicates:** Rockwell (B & C), Vickers (HV), Brinell (HB), Shore (HSD), Leeb (HL) and **Tensile strength** (MPa)
- Tests at **any angle** (360°)
- **Wireless IR** connection to the printer (included)



**Data Output to PC**

USB output included to print from internal memory



① **Printer:** Wireless IR printer included (battery operated) for **on-site printing** of measurement protocols: Sample printed report:

```

Test Report
-----
Impact Unit Type: D
Material : Steel& Caststeel
1 808 HLD  61.2 HRC
Date: 06/07/31 Time: 18:21:27
2 808 HLD  61.2 HRC
Date: 06/07/31 Time: 18:21:27
3 805 HLD  60.8 HRC
Date: 06/07/31 Time: 18:21:27
4 808 HLD  61.2 HRC
Date: 06/07/31 Time: 18:21:27
5 805 HLD  60.8 HRC
Date: 06/07/31 Time: 18:21:27
-----
s = 3 HLD  00.4 HRC
y = 806 HLD  61.0 HRC
Printed: 06/07/31 18:21:27
    
```



② **Impact type sensor:** The impact body is bounced against the test object. Depending on its hardness, deformation on the test object reduces the kinetic energy of the impact body. This reduced speed is measured and converted into Leeb Hardness. D-Type included

**Automatic recognition** of the impact sensor connected to the HMM  
**Supports rings** for **bended** testing samples available – please enquire.

**Other optional sensor:** Impact DC-Type **AHMO DC: € 415,-** Short impact sensor for narrow spaces for tests in holes or hollowed objects



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

③ **Standard block and support ring** for curved surfaces included. Allows to measure on curved surfaces (radius > 10 mm)



**Statistics kit:** Shows single measured value, average value, difference of Max to Min value, time and date

**Measurement possible from all directions** with automatic compensation

**Internal value memory** (with up to 9 values forming the average value of the group)

**Technical data:**

- Min. sample weight:  
Sensor D + DC: 3 kg  
Sensor G: 15 kg
- on a solide and stable support
- Min. sample thickness (mm):  
Sensor G: 10 mm  
Sensor D + DC: 8 mm
- **Min. sample radius** (concave / convex):  
50 mm (with support ring: 10 mm)

Size: W 150 x D 80 x H 30 mm;  
Weight: 200 g

Delivered in a hard carrying case



**Power supply**

- 3 x 1.5 AAA batteries
- Mains adapter included

**Power Management**

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

**Automatic unit conversion** The SAUTER HMM converts the measured results into all above mentioned popular **hardness** units and into **tensile strength** ( $\sigma_b$  MPa)

**Measuring range tensile strength:**  
 $\sigma_b$  from 375 to 2639 MPa (steel only)

**Measuring ranges hardness:**  
HL with sensor D (HLD): Min: 170 to Max: 960 HLD

Material	Impact Sensor	D/DC	
		Min	Max
Steel and cast steel	HRC	19,8	68,5
	HRB	59,6	99,6
	HSD	26,4	99,5
	HB	140,0	651,0
	HV	83,0	976,0
Cold work tool steel	HRC	19,8	68,5
	HV	83,0	976,0
Stainless steel	HRB	59,6	99,6
	HRC	19,8	68,5
	HB	140,0	651,0
Cast iron	HV	83,0	976,0
	HB	140,0	334,0
Ductile iron	HB	140,0	387,0
Cast aluminium alloys	HB	30,0	159,0
Brass (Copper-zinc alloys)	HB	40,0	173,0
	HRB	13,5	95,3
Bronze (Copper-aluminium-tin alloys)	HB	60,0	290,0
Wrought copper alloys	HB	45,0	315,0

Model	Sensor	Resolution	Price, excl. VAT	ISO Calibration Certificate
HMM	Typ D	1 HL	€ 1 390,-	€ 120,-