

# Static hardness tester

*for measurements of hardened surfaces, coatings and metals in a compact format*

Large measurement range

Re-chargable battery

Easy to calibrate

High accuracy

Very large memory

2 in 1 impact device D + DL  
for measurements on small  
and hard accessible points



# HardyTest<sup>®</sup> 1800B

# Static hardness tester in a compact format

The hardness tester **HardyTest<sup>®</sup> 1800B** enables our clients to take measurements even at small and hard accessible points (e.g. tooth flanks). Through its small constructions it is easy to carry and always right at hand. Nevertheless it fulfills all requirements of a modern hardness tester.



Specifications	
Hardness unit:	HL (Leeb), HB (Brinell), HRB (Rockwell B), HRC (Rockwell C), HV (Vickers), HS (Shore D) ob breaking stress
Measurement range:	170 - 960 HLD / 80 - 940 HV (on steel)
Materials:	Steel/cast steel, tool steel, stainless steel, gray iron, spheroidal iron, aluminium alloys, brass, bronze, copper
Accuracy:	± 6 HL at 800 HL
Radius workpiece:	D: mind. 20 mm, DL: min. 4 mm
Min. weight of working piece:	5 kg; 2-5 kg on stable base; 2 kg with coupling paste
Min. thickness of working piece:	3 mm with coupling paste
Min. roughness of working piece:	1,6 µm (Ra)
Min. hardness depth:	0,8 mm
Penetration depth:	300 HV=24 µm, 600 HV=17 µm, 800 HV=10 µm
Measurement directions:	0 - 360°
Functions:	Value corrections and calibration, setting of impact device, material, hardness unit and measurement direction, automatic on/off, alarm at set min/max value
Statistics:	Display of mean, max and min
Memory:	4 blocks of 4000 values
Datatransfer to PC:	Via USB, Analysis via Software
Display:	OLED-Display, lighting adjustable
Power supply:	3,7 V re-chargable battery
Mesurement conditions:	-40°C to 80°C, ≤ 80% rel. humidity
Standards:	GB/T 17394-1998, ASTM A956, DIN 50156
Dimensions:	148 x 44 x 22 mm, lenght of impact device DL: 205 mm
Weight:	110 g, carrying case: 4,1 kg

## Characteristics:

- ✦ 2 in 1 impact device D + DL for measurements on small and hard accessible points
- ✦ Mountable DL probe (Ø 4 mm, length 50 mm)
- ✦ Large measurement range
- ✦ High accuracy ±2 HL
- ✦ Easy to calibrate
- ✦ Very large memory
- ✦ Re-chargable battery
- ✦ Applicable under extrem conditions (-40°C to 80°C)
- ✦ Statistical analysis of mean, min and max value
- ✦ Display, print and delete values (printing through bluetooth printer)
- ✦ Datatransfer to PC
- ✦ Software for data analysis

## Application:

- ✦ Measurements on steel, cast iron, tool steel, stainless steel, gray and ductile iron, brass, bronze, aluminum and wrought copper alloys
- ✦ Measurements on large and small molds, bearings heavy workpieces, and permanently assembled parts
- ✦ Failure analysis of pressure vessels, steam generators, etc.
- ✦ Material identification

## Areas of application:

- ✦ Production of metal and rubber components
- ✦ Mechanical engineering
- ✦ Research and development
- ✦ Solid state physics

## Standard delivery range:

- ✦ HardyTest 1800B<sup>®</sup> with integrated impact device type D
- ✦ Mountable impact device type DL
- ✦ Test block
- ✦ Brush
- ✦ 3.7 V re-chargable battery
- ✦ USB cable
- ✦ Certificate
- ✦ Battery charger
- ✦ Operation manual
- ✦ Carrying case

## Optional:

- ✦ Bluetooth printer
- ✦ Cable for printer
- ✦ 12 supporting rings (convex/concave)



\*All **SaluTron<sup>®</sup>** gauges correspond to national (DIN) and international (ISO, BS, ASTM) norms and possess the CE-sign.

Certified  
according to  
ISO EN 9001

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