

# Digital hardness meter

*with high accuracy*

- *for all metallic materials*
- *large measuring memory*
- *PC-interface*
- *7 types of impact devices*



**Hardy**  
**Test D600**<sup>®</sup>

The **HardyTest D600®** measures the hardness of a large number of materials in various hardness units. Seven types of impact devices make this possible. It is equipped with a USB/RS232-cable for PC transfer.



# precise and practical

## Measuring Features

- **Wide measuring range** with Leeb hardness testing principle
- **6 hardness units**
- **Large memory capacity** with information about number of group, date, average value, impact device, impact times, material for every measured value
- **Upper and lower limit can be preset.** It will alarm automatically when the measured value exceeds the limit.
- **Test at any angle,** even upside down
- **User calibration function**

## Equipment

- **7 types of impact devices** for specific applications available; **automatic identification** by connection
- **Large LCD-display:** all functions and parameters are displayed + backlight
- **PC-transfer** with cable (both USB and RS232 interface) and software
- Battery capacity display - **100 hours operating time** (without backlight)
- **Auto power off** (after 5 minutes) to save energy

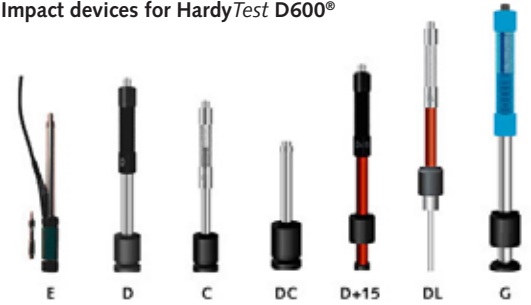
## Main Application

- Measurements on steel, cast steel, cold work tool steel, stainless steel, gray cast iron, nodular cast iron, cast aluminium alloys, brass, bronze and wrought copper alloys
- Measurements on large and small hollows, bearings, heavy parts, permanently assembled parts
- **Defect analysis** of pressure vessels, steam generators, etc.
- **Material identification** of metal warehouses

## Standard delivery

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|--|--|
| <ul style="list-style-type: none"> <li>- Main unit</li> <li>- Impact device D</li> <li>- Cleaning brush</li> <li>- Small support ring</li> <li>- High value Leeb test block</li> <li>- Manual</li> <li>- Service-case</li> <li>- USB/RS232-cable</li> <li>- Software HT-50 Data View on USB Stick</li> </ul> | <b>Optional</b> <ul style="list-style-type: none"> <li>- Set of supporting rings</li> <li>- Printer</li> <li>- Other impact devices</li> </ul> |
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## Impact devices for HardyTest D600®



**Impact device D:** Universal device for most hardness requirements

**Impact device DC:** Ultra-short version; manually loaded on the front; same characteristics as type D; for testing in boreholes, built-in parts, hollow cylindrical parts, etc.; max. 940 HV

**Impact device DL:** With extremely long and fine front piece only for steel and cast steel; for testing in narrow or hard to reach areas; max. 950 HV

**Impact device D+15:** The front part is narrow and the coil is located behind it; same characteristics as type D; only for steel; for hardness testing in slots, grooves, recessed areas, gear flanks, grooves, cavities, tooth flanks, etc.; max. 940 HV

**Impact device C:** Reduced impact energy of about 1/4 of type D; for tempered or surface treated steel, small or sensitive-to-shock parts (minimal imprint is left); max. 1000 HV

**Impact device G:** With large test-tip diameter; impact energy 9 times larger than type D; on steel, gray or nodular cast iron; for large cast parts and forgings or parts with high surface roughness; max. 650 HB (only in Brinell)

**Impact device E:** With a synthetic diamond test tip of approx. 5000 HV; for very hard materials (above 50 HRC / 650 HV) such as carbide, barrels, etc.; max. 1200 HV

Technical Specifications	
Hardness units	HL (Leeb), HB (Brinell), HRB (Rockwell B), HRC (Rockwell C), HV (Vickers), HS (Shore D)
Measuring range	170 - 960 HLD
Measuring direction	360°
Standard impact device	D
Memory size	48-600 groups (relative to number of impact times 1-32)
Statistics	Number of group, date, average value, impact device, impact times, material, measured values
Setting of limits	Acoustic signal by overstepping preset min. und max. limits
Minimum weight of sample	> 5kg solid material; 2-5kg on stable surface; < 2kg with coupling paste on stable surface
Memory function	Manually or automatically
Data transfer	Cable (both USB and RS232-connection) und software
Languages device and manual	English
Display	128 x 64 Dot-Matrix-LCD
Backlight	ON / OFF key
Battery capacity	100 hours (without backlight)
Auto Power Off	After 5 minutes
Power supply	2 x 1,5 Volt-AA-batteries
Relative humidity	≤ 90%
Working temperature	-10°C to +40°C
Weight	380 g (with batteries)
Size	125 x 67 x 30mm

Technical details are subject to change.

Standard Impact Device D	HRB	HRC	HB	HV	HS
Steel, Cast Steel	38-100	20-69	127-651	83-976	32-100
Cold Work Steel	-	20-67	-	80-898	-
Stainless Steel	47-102	-	85-655	85-802	-
Gray Cast Iron	-	-	93-334	-	-
Nodular Cast Iron	-	-	131-387	-	-
Aluminum Alloys	24-85	-	19-164	-	-
Brass	14-95	-	40-173	-	-
Bronze	-	-	60-290	-	-
Copper	-	-	45-315	-	-



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