

# 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

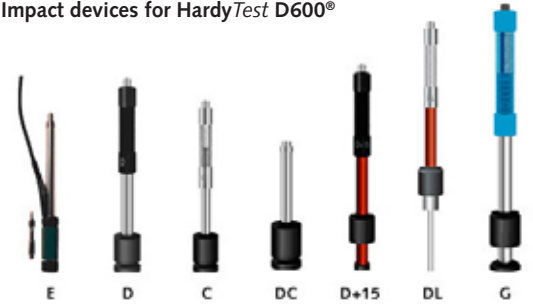
## Main Application

- 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

- |  |  |
|--|--|
| <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> |
|--|--|

## 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;<br>2-5kg on stable surface;<br>< 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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