

# Digital hardness meter

with inbuilt printer

for all metallic materials

large measuring memory

with PC-interface

inbuilt battery-charger

for all measuring directions



Hardy Test D700®

The HardyTest D700® measures the hardness of a large number of materials in six hardness units. Seven types of impact devices enable the hardness measurement of special test piece forms in different hardness grades. It is equipped with an integrated printer and the opportunity to PC transfer.

# ecise and practica



### **Features**

- Wide measuring range
- Available hardness scales: HRB, HRC, HV, HB, HS, HL
- Large memory capacity
- 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
- 7 types of impact devices for specific applications available; automatic identification after connection
- Integrated printer
- Large display: all functions and parameters are displayed + backlight
- PC-transfer with USB cable and software
- Built-in charging circuitry
- Battery capacity display 150 hours operating time (without backlight and printing)
- Auto-Power-Off to save energy

### **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

Optional

- Set of supporting rings

Other impact devices

- Defect analysis of pressure vessels, steam generators, etc.
- Material identification of metal warehouses

## Standard delivery

- Main unit
- Impact device D
- Cleaning brush
- Small support ring
- Charger cable
- Paper for printing
- Manual
- Service-case
- USB-cable and software



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

| Standard Impact Device D | HRB    | HRC   | НВ      | HV     | HS     |
|--------------------------|--------|-------|---------|--------|--------|
| Steel,<br>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<br>Iron     | -      | -     | 131-387 | -      | -      |
| Aluminum<br>Alloys       | 24-85  | -     | 19-164  | -      | -      |
| Brass                    | 14-95  | -     | 40-173  | -      | -      |
| Bronze                   | -      | -     | 60-290  | -      | -      |
| Copper                   | -      | -     | 45-315  | -      | -      |



## Salutron Messtechnik GmbH

D-32107 Bad Salzuflen Max-Planck-Straße 62

Web:

Phone: 0049 (0) 52 22 - 95 97 60 Fax: 0049 (0) 52 22 - 5 04 99 Email: info@salutron.de

www.salutron.de

**Technical Specifications** 

HL (Leeb), HB (Brinell), HRB (Rockwell B), Hardness units HRC (Rockwell C), HV (Vickers), HS (Shore D)

Measuring range 170 - 960 HLD Measuring direction 360°

Standard impact device

Memory size Max. 500 groups (relative to the times of impacts 1-32)

Records the number of measurements, date, average value, im-Statistics pact device, material and hardness unit for each measured value.

Setting of limits Acoustic signal by overstepping preset min. and max. limits

> 5kg solid material; Minimum weight of sample

2-5kg on stable surface; < 2kg with coupling paste on stable surface

Memory function Manually or automatically Data transfer USB-cable and software

> Languages **English and German** 128 × 64 Dot-Matrix-LCD Display

Backlight Adjustable brightness

150 hours (without backlight and printing) Battery capacity

Battery-pack (6V NI-MH) with integrated charging circuit and Power supply charging cable

9V / 500mA Battery charging cable

Print paper (length x width) 57.5 (± 0,5 mm) x 30 mm

Storage temperature -30°C to +60°C Relative humidity

≤ 90% -10°C to +50°C

Working temperature Weight

340 g (with batteries)

Size 212 x 80 x 32 mm

Technical details are subject to change.

Certified **EN ISO 9001**