

# IMPACT - D TH 170

NEW

## UNIVERSAL HARDNESS TESTER

- Portable dynamic metal hardness testing set TH-170
- For the fast local-independent hardness test
- Impact device D integrated: no cables
- Automatic identification of impact test direction
- Test at any angle, even upside down
- Direct display of hardness values in Rockwell HRB, HRC, Vickers HV, Brinell HB, Shore HS, Leeb HLD
- For nearly all metals
- Memory up to 270 data in 9 group files
- Upper and lower limit setting
- Automatic power off
- Large LCD with backlight
- Data output USB
- Software-calibration
- Battery capacity indicator



### Standard delivery

- Main unit integrated with impact device D
- Test block with HLD value
- Battery AAA 1.5V (2 pcs)
- Cleaning brush
- Coupling paste
- USB-interface cable with CD-ROM (driver)
- Pocket protection case
- User Manual
- PHYNIX certificate
- Plastic carrying case

### Optional accessories

- Test block UKAS - certified
- Support rings for convex and concave surfaces

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## TECHNICAL SPECIFICATIONS

Hardness scales	HRC, HRB, HB, HV, HS, HLD
Measuring range / materials	see table below
Measuring direction	0° - 360°
Accuracy	± 6HLD (for HLD ~ 800)
Memory	270 average readings in 9 group files
Interface	USB 2.0
Standard impact device	Type D integrated
Max. surface roughness of workpiece	1,6µm Ra
Max. workpiece hardness	900 HLD
Min. workpiece radius (convex/concave)	Rmin = 50mm (with support ring Rmin= 10mm)
Min. workpiece weight	2kg on stable support, 0.1kg with coupling paste
Min. workpiece thickness coupled	3mm with coupling paste
Min. thickness of hardened layers	0,8mm
Indentation depth	See page: Impact devices data
Power supply	AAA 1.5V batteries (2 pcs)
Operating temperature	0°C-40°C
Overall dimensions	150mm x 55mm x 25 mm
Weight	165 g



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Materials versus range

Material	HLD	HRB	HRC	HB	HV	HS
Steel & cast steel	300-900	38-100	20-68	81-650	81-950	32-100
Cold work tool steel	300-840	-	20-67	-	80-900	-
Stainless steel	300-700	45-100	-	85-655	85-802	-
Grey cast iron	360-650	-	-	93-335	-	-
Nodular cast iron	400-660	-	-	130-380	-	-
Cast aluminium alloys	-	24-85	-	20-160	-	-
Brass	200-550	13-95	-	40-175	-	-
Bronze	300-700	-	-	60-290	-	-
Copper	200-690	-	-	45-315	-	-

The ranges are stipulated by the application limits of the relevant static procedure



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