

# Integrated Portable Hardness Tester

## TH170



### Features

- USB communication interface
- Automatic identification of Impact test direction
- Memory of 270 average data in 9 group files
- Upper and lower limit setting
- Automatically switch off
- Backlight for convenient use in darkness
- Integrated calibration function
- Battery capacity display
- AAA 1.5V battery
- Computer software available

### Technical Specifications

Standard Impact device:	D impact device integrated
Hardness Scales:	HLD, HB, HRC, HRB, HV, HS
Measuring range:	See Table below
Measuring direction:	360°
Measuring accuracy:	± 6 HLD (760 ± 30 HLD)
Memory:	270 average readings in 9 group files
Output:	USB2.0
Min. Surface Roughness of Workpiece:	1.6µm (Ra)
Operating temperature:	0 °C to + 40 °C
Max. Workpiece Hardness:	955HV
Min. radius of Workpiece (convex/concave):	R min=50mm (with support ring R min = 10mm)
Min. workpiece weight:	2-5kg on stable support; 0.05-2kg with compact coupling
Min. workpiece thickness coupled:	5mm
Min. thickness of hardened layers:	0.8mm
Continuous working time:	150hrs (without backlight)
Power:	AAA 1.5V batteries (2 pcs)
Operating temperature:	0 °C to + 50 °C
Overall Dimensions:	155 x 25 x 55mm
Weight:	166g

## Materials & Measuring Range TH170 (HL:200-900)

<b>Material</b>	<b>HRC</b>	<b>HRB</b>	<b>HRA</b>	<b>HB</b>	<b>HV</b>	<b>HS</b>
Steel & Cast Steel	17.9-68.5	59.6-99.6	59.1-85.8	127-651	83-976	32.2-99.5
Steel				143-650		
CWT, ST	20.4-67.1				80-898	
Stainless Steel		46.5-101.7		85-655	85-802	
GC, Iron				93-334		
NC, Iron				131-387		
C, Aluminium		23.8-84.6		19-164		
Brass		13.5-95.3		40-173		
Bronze				60-290		
Copper				45-315		

## Support Rings

On curved surfaces having a radius of under 30mm, effective positioning on the workpiece is facilitated by the use of the support ring (set of 7) .The appropriate support ring is screwed on to the end of the impact device in place of the standard flat support ring. The set includes support rings suitable for bar / tube and grooves up to a radius of 11mm.

Special support rings for convex or concave surface can be manufactured.

## Standard delivery

- Processor integrated with impact device D
- Test block with HLD-valve
- Battery AAA 1.5V
- Cleaning brush
- Carrying case
- Certificate
- Instruction Manual
- Warranty Card

## Optional Accessories

- Support Rings
- Printer TA220S with Cable
- Computer software