

# WATSON SPECIALISED TOOLING



## TIME HARDNESS TESTER

### Measuring Range

Material	HLD	HRB	HRC	HB	HV	HS
Steel & cast steel	300-900	38.4-99.8	20.0-68.4	81-654	81-955	32.5-99.5
Cold work tool steel	300-840	46.5-101.7	20.4-67.1		80-898	
Stainless steel	300-800			85-655	85-802	
Grey cast. Iron	360-650			93-334		
Nodular cast. Iron	400-660	23.8-84.6		131-387		
Cast AL. Alloys	170-570	13.5-95.3		19-164		
Brass	200-550			40-173		
Bronze	300-700			60-290		
Copper	200-690			45-315		

- 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
- Software calibration
- Battery capacity display
- AAA 1.5V battery
- Computer software available

Main unit integrated with impact D

Test block with HLD value

Cleaning Brush

Battery AAA 1.5V

TIME certificate

Instruction manual

Warranty card

Carrying case

### Optional accessories

- Support rings
- Printer TA220S with cable
- Computer software



Sold with test block,  
carry case and brush.

### Technical Specifications

Standard Impact Device	D integrated
Hardness scales	HLD, HB, HRC, HRB, HV, HS
Measuring range / materials	See table above
Measuring direction	360°
Accuracy	±6HLD(760 ±30HLD) ±10HLD(530 ±40HLD)
Memory	270 average readings in 9 group files
Output	USB2.0
Min. Surface Roughness of Workpiece	1.6 μ m ( Ra)
Max. Workpiece Hardness	955HV
Min. radius of Workpiece (convex/concave)	Rmin=50mm (with support ring Rmin=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
Indentation depth	Impact Device data (see page 8)
Continuous working time	150 h (without backlight)
Power	AAA 1.5V batteries (2pcs)
Operating temperature	0~40°C

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