

IMPACT TH-1100



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Portable Dynamic hardness tester



Features

The IMPACT TH-1100 is a small, integrated digital hardness tester which operates according to the dynamic rebound method (standardized according to ASTM A956). The compact design allows easy on-site hardness testing on solid, components that are difficult to transport, or to be used on positions difficult to access by other hardness testers. Quick and reproducible measurements can be made independent of impact direction.

- Leeb principle, portable rebound hardness tester
- Hardness values in Rockwell HRB, HRC, HRA, Vickers HV, Brinell HB, Shore HS, Leeb HLD
- Test results appear directly on the display
- Impact Device D integrated: no cables
- Tests at any angle, even upside down
- Bright LCD display
- Battery capacity on display
- Rechargeable Li-on battery
- Simple handling and low test expenditure

Technical specifications

Standard impact device	D integrated
Hardness scales	HRC, HRB, HRA, HV, HB, HS & HLD
Measuring range / materials	See table
Accuracy	±6HLD
Output	No
Max. surface roughness of workpiece	1.6µm (Ra)
Max. workpiece hardness	960HLD
Min. radius of workpiece	Rmin= 50mm (convex/concave) (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
Charging time	3 hours
Continuous working time	> 8 hours
Power	Rechargeable Li battery
Operating temperature	0°C to 40°C
Overall dimensions	145mm × 35mm × 30mm
Weight	110gr

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Standard delivery

- Instrument with integrated impact device, type D
- Hardness test block with HLD value
- Coupling paste
- Support ring small
- Charger
- Cleaning brush
- INNOVATEST® certificate
- Manual
- Carrying case

Standard delivery

- DKD Reference hardness blocks
- Type Z10-15, for testing cylindrical outside surface R10~R15
- Type Z14.5-30, for testing cylindrical outside surface R14.5~R30
- Type Z25-50, for testing cylindrical outside surface R25~R50
- Type HZ11-13, for testing cylindrical inside surface R11~R13
- Type HZ12.5-17, for testing cylindrical inside surface R12.5~R17
- Type HZ16.5-30, for testing cylindrical inside surface R16.5~R30
- Type K10-15, for testing spherical outside surface SR10~SR15
- Type K14.5-30, for testing spherical outside surface SR14.5~SR30
- Type HK11-13, for testing spherical inside surface SR11~SR13
- Type HK12.5-17, for testing spherical inside surface SR12.5~SR17
- Type HK16.5-30, for testing spherical inside surface SR16.5~SR30
- Type UN, for testing cylindrical outside surface, radius adjustable R10~¥

Measuring range

Material	HLD	HRB	HRC	HRA	HB	HV	HS
Steel & cast steel	300-900	38.4-99.8	20-68.4	59.1-85.8	81-654	81.1-955	32.5-99.5
Cold work tool steel	300-840		20.4-67.1			80-898	
Stainless steel	300-800	46.5-101.7	19.6-62.4		85-655	85-802	
Gray cast iron	360-650				93-334		
Nodular cast iron	400-660				131-387		
Cast aluminum	200-570	23.8-34.6			26.8-164		
Brass	200-550	13.5-95.3			40-173		
Bronze	300-700				60-290		
Copper	200-690				45-315		
Wrought steel					143-650		

Order details

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