STANONE®







STH180





Portable Leeb Hardness Tester





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STH180 Portable Leeb Hardness Tester, based on Leeb Hardness Measuring principle, for quick, on-site testing the hardness of metallic materials, with free conversion between Leeb, Brinell, Rockwell hardness scale and others. It is widely used in failure analysis of metal processing and manufacturing.

The STH180 is provided with "D" type impact device, as standard.

Features:

- Measures hardness in various metallic materials.
- High-contrast segment LCD.
- 6 impact devices can be matched to one main unit.
- **Data Storage: 100 Groups** hardness measurement, each set of data includes single test value, average value, measurement data/ time, impact direction, frequency, and other information.
- **Portable and rugged** design for field operations.
- **Stable performance** in harsh environments, **resistant** to vibration and shock



Functions:



 High-contrast display with various hardness scales (HL, HB, HRB, HRC, HRA, HV, HS).

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Portable Leeb Hardness Tester



Integral Casting, Reliable and Durable

Reduce the fault rate effectively

DC test the inner wall of the tube DL test the gear

Hardness Tester

D-Type Impact Device

Features:

Built-in Impact Body: Simplifies hardness testing. Detachable Support Ring: Customizable and maintainable. Hardened Layer Thickness Requirement: ≥ 0.8mm.

Physical Specifications:

Height: 147mm Weight: 50g Diameter: 20mm

D-Type Hardness Block

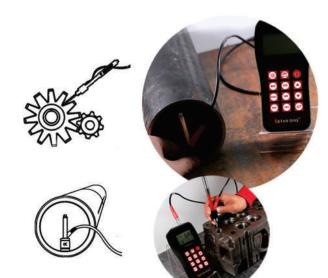
Features:

D type block standard with Leeb testers. Plating process ensures stable hardness values.

Physical Specifications:

Height: 90mm Weight: 2.67kg Diameter: 55mm





Application across all impact devices

STH180



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Impact Device

D Type: Provided with instrument, for normal measurement.

Optional (Extra)

DC type: Optional Configuration for testing hole or hollow cylindrical.

DL type: Optional Configuration for testing Slender narrow groove or hole.

D+15: Optional Configuration for testing groove or reentrant surface.

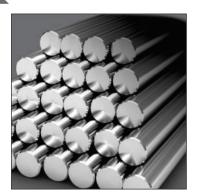
G type: Optional Configuration for testing Small, light, thin parts and Surface with hardened layer.

Optical Impact Device Special Shape Impact

Applied Materials



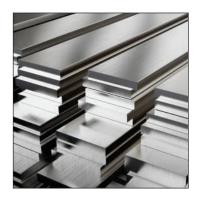
Alloy Steel



Steel and Cast Steel



Cast Steel Workpiece



Stainless



Copper-Tin-Alloy



Nodular Cast Iron



Cast Aluminium



Copper-Zinc Alloy

Application Fields

- Die cavity of molds.
- Bearings and other parts.
- Failure analysis of pressure vessel, steam generator and other equipment.
- Heavy work piece.
- The installed machinery and permanently assembled parts.
- Testing the surface of a small hollow space.
- Material identification in the warehouse of metallic materials.
- Rapid testing in large range and multi-measuring areas for large-scale work piece.





Portable Leeb Hardness Tester

Specifications Measuring Range Measuring Direction Error Repeatability		Mt III		(170~960) HLD				
Measuring Direction Error		\						
Error		Vertically download, Oblique, horizontal, vertical upward, automatically identify						
	D,±6 HLD							
Repediability	D, EO HLD							
Material	Steel and cast steel, Cold work tool steel, Stainless steel, grey cast iron, Nodular cast iron, cast aluminuam							
Hardness Scale	HL,HB,HRB,HRC,HRA,HV,HS							
Impact Energy	D11mJ							
Impact Weight	D5.5g/7.2g							
Impact Ball Hardness	D1600HV							
Impact Diameter	D3mm							
Impact Ball Material	DTungsten carbide							
Sample Surface Roughness	D1.6µm; C0.4µm							
Min Depth of Harness layer	D≥0.2mm							
Calibration	Single-point calibration							
Auto Power Off	About 100h (without backlight)							
Communication Port	USB1.1							
Shell Material	ABS plastic							
Power	3V(two AA size, alkaline batteries)							
Display Type	High-contrast Segment LCD							
Data Storage	100 measurement series.							
Product Dimensions	150mm×74mm×32 mm							
Product Net Weight	245 grams							
Measurement range:								
Material	Scale Impact Device							
Waterial	Jeane	D/DC	D+15	С	G	E	DL	
Steel and cast steel	HRC	20~68.5	19.3~67.9	20.0~69.5		22.4~70.7	20.6~68.2	
Steel and cast steel	HRB	38.4~99.6			47.7~99.9		37.0~99.9	
	HB	27-651	80~638	80~683	90~646	83~663	81~646	
	HV	83~976	80~937	80~996		84~1042	80~950	
	HS	32.2~99.5	33.3~99.3	31.8~102.1		35.8~102.6	30.6~96.8	
C.W. tool steel	HRC	20.4~67.1	19.8~68.2	20.7~68.2		22.6~70.2		
	HV	80~898	80~935	100~941		82~1009		
Stainless steel	HRB	46.5~101.7						
	HB	85~655						
Cupy spet inpu	HV HB	85~802 93-334						
Grey cast iron Nodular cast iron	HB	131-387			127~364			
Cast aluminum Brass (copper zinc alloy)	HB HB	19~164		23~210	32~168			
	HRB	23.8~84.6		23~210	23.8~85.5			
	HB	40~173		22.7~03.0	23.0~03.3			
	HRB	13.5~95.3						
Bronze (copper al/tin alloy)	HB	60~290						
Wrought copper alloy	HB	45~315						

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Professional

Grade

Products

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Best In Class

Warranty

Programmes

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Product &

Service

Training

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Quality Management System

ISO 9001: 2015

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