

Integrated Portable Hardness Tester TH130



Hardness Scales: HRC, HRB, HRA, HV, HB, HS & HL

Combined impact device & digital display-No CABLES!

Integrated universal impact device D

Measures in any direction

Real time printing or batch printing

TH130 is an advanced integrated hardness tester distinguished by its very compact size, high accuracy, wide measuring range and simplicity of operation. It is suitable for testing the hardness of all metals and widely applied in many areas of industry.

TH130 hardness tester combines the universal impact advice D and a data processor in a single unit. It automatically computes all Vickers, Brinell, Rockwell, or Shore hardness values. The impact direction can be set so that accurate values can be achieved at any angle, even up-side down! Statistical mean value is automatically provided.

The measuring method of **TH 130** is defined as "the quotient of the impact body's rebound velocity over its impact velocity". When the tester is connected to its associated printer it can perform real time printing or batch printing. It can also be equipped with optional accessories such as support rings to meet the requirements of specialized applications.

Typical Applications

- In suit testing of large and/or heavy component, items already installed as parts of a machine
- During manufacture, especially of mass produced components
- In the stores for material identification
- In locations of difficult access, or in confined spaces
- For quality control in general, fast and very accurate



Specification

Size:	150 x 22 x 53mm
Impact device:	D
Impact energy:	11Nmm
Test tip:	Tungsten Carbide
Average No. of Readings :	60 000 to 70 000 readings
Measuring accuracy:	mean uncertainty $\pm 0.8\%$
Weight:	130g
Operating time :	8 hours continuous use/rechargeable
Impact direction:	any angle
Operating temperature:	0 °C to + 50 °C
Min. weight of sample:	5kg
Min. thickness of sample:	5mm
Min. thickness of layers:	0.8mm
Min. radius of curved surface:	30mm

Coupling paste is available for testing thin or small parts weighing less than 2kg

Materials & Measuring Range TH130

<i>Material</i>	<i>HLD</i>	<i>HRB</i>	<i>HRC</i>	<i>HRA</i>	<i>HB</i>	<i>HV</i>	<i>HS</i>
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 st.	300 - 870		20.4 - 67.1			80 - 898	
Stainless steel	300 - 800	46.5 - 101.7	19.6 - 62.4		85 - 655	85 - 802	
Grey cast iron	360 - 650				93 - 334		
Nodular cast iron	400 - 660				131 - 387		
Cast aluminium alloys	200 - 570	23.8 - 34.6			26.8 - 164		
Copper/Zinc alloys (brass)	200 - 550	13.5 - 95.3			40 - 173		
CuAl/CuSn alloys (bronze)	300 - 700				60 - 290		
Wrought copper alloys	200 - 690				45 - 315		

Support Rings

On curved surfaces having a radius of under 30mm, effective positioning on the work piece 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.

TH130 comes complete with a test block, plastic case, charger and instruction manual

Standard delivery

- Processor integrated with impact device D
- Test block with HLD-valve
- Battery charger
- Cleaning brush
- Carrying case
- Certificate
- Manual
- Guarantee Card

