



TIME TH5100 Portable Digital Hardness Tester



The TH5100 (previously TH170) is an advanced integrated digital hardness tester distinguished by its 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.

The TH5100 combines the universal impact device 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 TH5100 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.

Features

- Light, mini unit with simple, easy to operate menu
- Conversion of hardness scales (HL, HV, HB, HRC, HRB and HS)
- USB interface to connect to PC, assisted by Software Dataview TH51X
- Measuring Direction: Any direction 360°
- Automatic identification of impact test direction
- Memory of 270 average readings in 9 group files
- Backlight for convenience in darkness
- Upper and lower limits setting
- AAA 1.5V battery - capacity shown in display
- Auto power off





Technical Specifications

| Part Number | Description |
|--|--|
| Model | TIME TH5100 Portable Digital Hardness Tester |
| Impact device | D integrated |
| Hardness scales | HLD, HB, HRC, HRB, HV, HS |
| Accuracy | ±6HLD (760 ±30HLD) |
| Memory | 270 average readings in 9 group files |
| Min. surface roughness of work piece | 1.6µm (Ra) |
| Max. work piece hardness | 960HLD |
| Min. radius of work piece (convex/concave) | Rmin = 50mm (with support ring Rmin = 10mm) |
| Min. work piece weight | 2-5kg on stable support / 0.05-2kg with compact coupling |
| Min. work piece thickness coupled | 5mm |
| Min. thickness of hardened layers | 0.8mm |
| Indentation depth | Impact devices data |
| Continuous working time 8h (without backlight) | 8h (without backlight) |
| Power AAA 1.5V batteries | AAA 1.5V batteries |
| Operating temperature | 0-40°C |
| Dimensions | 155×55×25mm |
| Weight | 180g |
| Weight of Unit in accessories in case | 4.365kg |

Packing List

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| TIME TH5100 Portable Digital Hardness Tester |
| Test block with HLD |
| USB connecting cable |
| Dataview Software |
| Battery AAA 1.5V x 2 |
| Support Ring |
| Cleaning brush |
| Carrying case |
| TIME Certificate |
| Warranty Card |
| Manual |



Accessories

| |
|-------------------|
| Support Rings |
| Dataview Software |

