



# 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

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

