

# TECNIMETAL<sup>®</sup>

## TH-180

Portable Hardness Testing System



## HARDNESS TESTING SYSTEMS

## TH-180

The TH-180 is a versatile portable hardness testing solution combining dynamic Leeb rebound technology and a wireless signal allowing remote impact device operation.

Part of the family of the world famous TIME TH series portable testing instruments, the TH180 is the top of the range and allows the user to move freely around the work piece without being limited or hindered by cables.

In the TH-180, today's technology has been combined with over 25 years of know-how in the portable hardness testing field. **According to DIN Standard 50156 and ASTM A 956.**

Wireless and wired capabilities offering an unmatched reliability and ease of operation. While the main unit can be put save on a solid position, the units database driven storage CPU system allows up to 10 wireless impact devices to be used simultaneously. The main unit collects and calculates all the data and gives the user an overview of each impact devices average measuring result and the applicable test conditions.

Not only wireless probes can be connected! The main unit is also equipped with connection points for wired impact devices.

The built in fast, silent printer, prints testing results and statistics on demand. Alternatively the unit can be connected to a computer over a fast USB-2 connection.

- Hand-held device with a rugged shock-resistant housing
- Large and clear display with adjustable contrast and backlight
- Converts directly to HV, HB, HRC, HRB, HRA, HS
- Highly accurate  $\pm 4$  HL (0.5% at 800 HL) with automatic correction for impact direction
- Wide measurement range
- Simple operating menu structure and extensive on-screen help files
- Internal storage up to 2500 batches of data
- Wireless Impact device stores over 500 groups of data
- Down-/upload data from/to PC via USB, Ethernet or RS-232



## FEATURES

- The main unit works with different kind of wireless slave units, such as impact device Dw, Cw and DLw
- The Data of the slave unit is transferred to the main unit via bi-directional wireless communication.

### Main unit:

- Large full colour touch screen operation (320x240 matrix) backlit display
- Memory for up to 2500 data groups
- Upper or lower limits hardness settings, both visual and acoustic warning in case of exceeded test values
- Fast & silent thermal printer, prints all test data of the main unit and slave unit
- Seven wired impact devices are available for special applications, no need for calibration when impact device is replaced
- Automatic identification of impact device and test direction
- Stand-alone working mode and system working mode

### Slave unit:

- Automatic transfer of impact device ID and test direction
- Matrix LCD display
- Wireless technology for communication with main unit
- Can be used as stand alone instrument (See details of TH-1100)
- Stores readings and displays average test value
- Rechargeable Li-on battery

## TECHNICAL SPECIFICATION

- Measuring range : 170 - 960 HLD
- Highly accurate :  $\pm 4$  HL (0.5% at 800 HL)
- Testing direction : 360°C
- Hardness scale : HL, HRB, HRA, HB, HRC, HV, HS
- Memory : 2500 groups data in main unit  
500 groups transferred data from slave units
- Limit setting : 170 - 960 HLD
- Charging time : 6h (main unit), 2.5h (slave unit)
- Power : 12V/4A (main unit)  
6V/400mA (slave unit)
- Continuous working time : 12h (main unit), 50h (slave unit)
- Relative humidity : 90%
- Enviroment temperature : 0-40°C
- Dimension : 260mm x 170mm x 57mm(main unit)  
145mm x 35mm x 30mm(slave unit)
- Weight : 1070g (main unit), 120g (slave unit)

## STANDARD ACCESSORIES

- Main unit
- D unit
- D impact device
- Special support ring Z14.5-30
- Special support ring HZ12.5-17
- Special support ring K14.5-30
- Special support ring UN
- Nylon brush
- Test block HLD
- Coupling paste
- Power adapter for main unit
- Power adapter for D unit
- Instruction manual
- Warranty card
- Calibration certificate

## OPTIONAL ACCESSORIES

- Support rings
- Impact device
- Testblocks and certicates (UKAS, DKD etc.)

### SUPPORT RINGS



### IMPACT DEVICES



# TECNIMETAL

IGNACIO ELLACURÍA, 10-12  
TELS. 91 356 22 94 - FAX: 91 355 58 08  
28017 MADRID

E-mail: [info@tecnimetalsa.com](mailto:info@tecnimetalsa.com)

*We recommend you to contact our sales office for  
up-to-date information.*

*© All rights reserved*

[www.innovatest-europe.com](http://www.innovatest-europe.com)