

TIME®5100/5102/5104

PORTABLE HARDNESS TESTER

Standard Delivery

| | |
|-----------------------|---|
| •Main unit | 1 |
| •Test block HLD | 1 |
| •USB connecting cable | 1 |
| •Cleaning brush | 1 |
| •Battery AAA 1.5V | 2 |
| •TIME certificate | 1 |
| •Instruction manual | 1 |
| • Warranty card | 1 |

Optional Accessories

- Support rings
- Dataview software

**Features**

- USB communication interface
- Automatic identification of impact test direction
- Memory of 270 average data in 9 group files
- Upper and lower limit setting
- Automatically switch off
- Backlight for convenient use in darkness
- Battery capacity display
- AAA 1.5V battery
- Integrated calibration function
- TIME®5100: integrated with D impact device for normal hardness testing
- TIME®5102: integrated with C impact device for hardness testing on thin, light and face-hardened workpiece
- TIME®5104: integrated with DL impact device for hardness testing of deep grooves and tooth surface

Technical Specification

| Model | TIME®5100 | TIME®5102 | TIME®5104 |
|--|---|---|---|
| Impact Device | D integrated | C integrated | DL integrated |
| Hardness scales | HLD, HB, HRC, HRB, HV, HS | HLC, HB, HRC, HRB, HV, HS | HLDL, HB, HRC, HRB, HV, HS |
| Accuracy | ±6HLD(760 ±30HLD) | ±12HLC | ±12HLDL |
| Memory | 270 average readings in 9 group files | | |
| Output | RS 232 to printer | RS232 to printer | RS232 to printer |
| Min. Surface Roughness of Work piece | 1.6µm (Ra) | 0.4µm (Ra) | 1.6µm (Ra) |
| Max. Work piece Hardness | 900HLD | 960HLC | 950HLDL |
| Min. radius of Work piece (convex/concave) | Rmin = 50mm (with support ring Rmin= 10mm) | Rmin=11mm (with support ring) | Rmin = 10mm (with support ring Rmin= 10mm) |
| Min. Work piece weight | 2~5kg on stable support 0.05~2kg with compact coupling | 0.5~1.5kg on stable support 0.02~0.5kg with compact coupling | 2~5kg on stable support 0.05~2kg with compact coupling |
| Min. Work piece thickness coupled | 5mm | 1mm | 5mm |
| Min. Thickness of hardened layers | 0.8mm | 0.2mm | 0.8mm |
| Indentation depth | Impact Devices data | Impact Devices data | Impact Devices data |
| Continuous working time | 150h (without backlight) | | |
| Power | AAA 1.5V batteries | | |
| Operating temperature | 0~40℃ | 0~40℃ | 0~40℃ |
| Overall dimensions(mm) | 155×55×25 | 160×60×25 | 215×60×25 |
| Weight(g) | 166 | 180 | 180 |