TIME®5100/5102/5104

PORTABLE HARDNESS TESTER

Optional Accessory

- Support rings
- Dataview software

Standard Delivery Main unit Test block HLD USB connecting cable Cleaning brush Battery AAA 1.5V TIME certificate Warranty card

Instruction manual

Features

- . Light Mini Unit with simple menu, easy and convenient to use
- . Conversion of hardness scales(HL, HV, HB, HRC, HRB and HS)
- USB interface to connect the PC, assisted by Software Dataview TH51X (especially for TH51X series Hardness Test) with both online measurement and offline data analysis mode: curve chart, data sheet, setting of tolerance limit and data report are available.
- Connected to Printer by RS 232 and test values can be printed directly
- •Measuring Direction:Any direction 360°
- · Automatic identification of impact test direction
- . Memory of 270 data in 9 group
- · Backlight for convenience in darkness
- •Upper / lower limits setting
- •AAA 1.5V battery, whose capacity shown in display
- ·Auto power off
- •TIME*5100: integrated with D impact device for the majority of hardness testing requirements
- •TIME[®]5102: integrated with C impact device for hardness testing on thin, light and surface hardened components
- •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 g | 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 | 960HLD | 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 | 8h (without backlight) | | |
| Power | AAA 1.5V batteries | | |
| Operating temperature | 0~40°C | 0~40°C | 0~40°C |
| Dimensions (mm) | 155×55×25 | 160×60×25 | 215×60×25 |
| Weight (g) | 180 | 180 | 180 |



Online measurement



Data analysis

Bar chart



Dataview TH51X is special software for TH51X series Hardness Tester. The data stored in the Hardness Tester TH51X series can be transferred to the PC for further analysis with Dataview TH51X. It has online measurement mode and offline anaalysis mode, data analysis, graphics display and print output functions are all available.

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SOFTWARE

Curve chart



Data sheet

| Ti . | YAR | Tolerance Line | Record Namebers |
|------|-------|----------------|-----------------|
| 1 | MIN | | Hill |
| | | | 100 |
| 1 | 605.0 | | 100 |
| 4.0 | 649.0 | | |
| 9 | 638.0 | | |
| 6. | 696.0 | | |
| 2 | 640.0 | | |
| 9 | 641.0 | | |
| 4 | 682.0 | | |
| 10 | 605.0 | | |
| | | | |
| | | | |

Setting of tolerance limit



Data report

