

Features

- TIME®6166 Rockwell Hardness Tester
- TIME®6167 Superficial Rockwell Hardness Tester
- TIME®6168 Rockwell & Superficial Rockwell Hardness Tester
- Conversion of common hardness scales (HLD, HV, HB) & Conversion of Tensile Strength, up to 15/30 kinds of Rockwell hardness scales.
- Automatic test process.
- Dolphin nose indenter can measure workpieces that cannot be measured by conventional models such as circular, tubular, and stepped samples.
- The high-strength cast aluminum alloy body ensures the accuracy of the equipment and is durable.
- The lead screw adopts special material modulation processing, and the lifting is stable and reliable.
- The large disc handle is ergonomically designed and can clamp the specimen more conveniently, quickly and stably.
- Large test space: 260mm in the vertical direction and 150mm in the horizontal direction.
- Intuitive UI and interactive design are adopted, which perfectly fits human intuitional thinking and avoid the trouble of reading manuals.
- The 5.7-inch TFT touch screen clearly displays the test results including the current scale, test force, pressure, maximum value, minimum value, average value, repeatability, strength conversion, hardness conversion, current operation prompts and upper and lower limits
- The initial test force, total test force, and elastic recovery retention time can be set, which are in line with the latest standards of GB/T230-2018, ISO6508, ASTM E18.
- The test force and the scale are automatically switched, and automatic reset after power failure.
- With the LVDT sensor, the resolution is increased to 0.01HR, and the residual depth value is innovatively added (range: 10~700μm)
- Data output to U disk, micro printer, or computer for data processing and printing.



Dolphin indenter design for testing in place difficult to reach



5.7-inch TFT touch screen
Intuitive UI and interactive design

TIME®6166/6167/6168

ROCKWELL HARDNESS TESTER

TIME6166/6167/6168

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Technical Specification

Model	TIME®6166	TIME®6167	TIME®6168
Hardness scales	HRA, HRBW, HRC, HRD, HREW, HRFW, HRGW, HRHW, HRKW, HRLW, HRMW, HRPW, HRRW, HRSW, HRVW	HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW, HR15WW, HR30WW, HR45WW, HR15XW, HR30XW, HR45XW, HR15YW, HR30YW, HR45YW	HRA, HRBW, HRC, HRD, HREW, HRFW, HRGW, HRHW, HRKW, HRLW, HRMW, HRPW, HRRW, HRSW, HRVW, HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW, HR15WW, HR30WW, HR45WW, HR15XW, HR30XW, HR45XW, HR15YW, HR30YW, HR45YW
Resolution	0.1/0.01 Rockwell unit		
Pre-load	98.07N/10kgf	29.42N/3kgf	29.42N/3kgf, 98.07N/10kgf
Total load	588.4N/60kgf, 980.7N/100kgf, 1471N/150kgf	147.1N/15kgf, 294.2N/30kgf, 441.3N/45kgf	147.1N/15kgf, 294.2N/30kgf, 441.3N/45kgf, 588.4N/60kgf, 980.7N/100kgf, 1471N/150kgf
Test load type	weights, automatically switch, automatically reset after power failure		
Display	5.7-inch TFT touch screen; intuitive UI and interactive design		
Residual depth range (h)	10~700µm, real-time display		
Language	English		
Dwell time	1-99 seconds		
Standards	GB/T230-2018, ISO6508, ASTM E18, BSEN10109, ASTM E140, ASTM A370		
Testing space	Vertical: 260mm, horizontal:150mm		
Work piece types	flat surface; cylindrical surface, minimum outer diameter 3mm; inner ring surface, minimum inner diameter 23mm.		
Storage	≥1500 groups		
Power supply	220V/110V, 50Hz, 4A		
Dimensions (mm)	715×230×870		
Weight (kg)	100	90	120



Steel ball indenter



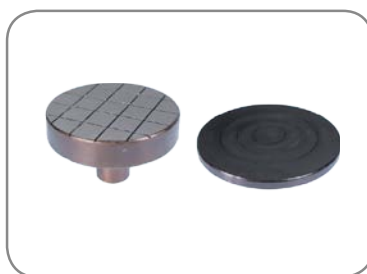
Short diamond indenter
Slim diamond indenter
Flat diamond indenter



Point/V-shape anvil



Flat anvil Ø225 & round flat anvil



Thin sample anvil & flat anvil Ø150



Flat/V-shape anvil & large V-shape anvil

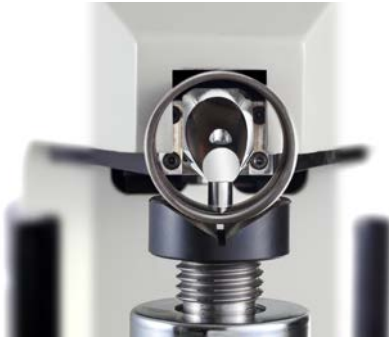
Standard Delivery

Name	Quantity	TIME®6166	TIME®6167	TIME®6168
Main unit	1	●	●	●
Diamond Rockwell indenter	1	●	●	●
Ø1.588mm ball indenter	1	●	●	●
Round anvil, V shape anvil	1 for each	●	●	●
Test block HRA, HRBW	1 for each	●		●
Test block HRC	3	●		●
Test block HR15N, HR30N, HR30TW	1 for each		●	
Screw for indenter	2	●	●	●
Power supply cable	1	●	●	●
Level adjustment screw	4	●	●	●
Anti-dust cover	1	●	●	●
Warranty card	1	●	●	●
Instruction manual	1	●	●	●

Optional Accessory

- Ø1.5875mm steel ball indenter
- Ø3.175mm steel ball indenter
- Ø6.350mm steel ball indenter
- Ø12.70mm steel ball indenter
- Short/flat/slim diamond indenter
- Point/V shape anvil
- Flat anvil Ø225
- Flat anvil Ø150
- Round flat anvil
- Thin sample anvil
- Flat /V-shape anvil
- Large V-shape anvil
- Assistant support
- Assistant joist
- Software
- Communication cable
- Micro printer

Applications



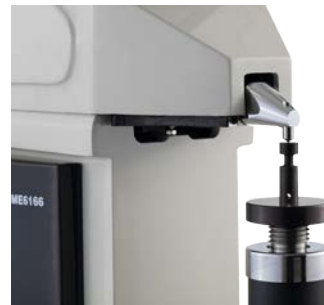
Ring/pipe inner wall hardness test



Stepped sample hardness test



Gear hardness test



Surface hardness test of pin shaft



Screw lead hardness test



Hardness test of anchor clip



Plexiglass plate plastic Rockwell HRMW test



Use diamond specimen support to test HR30TSm and HR15TSm of thin tin plate