NAUMETRICS.
premium measuring instruments

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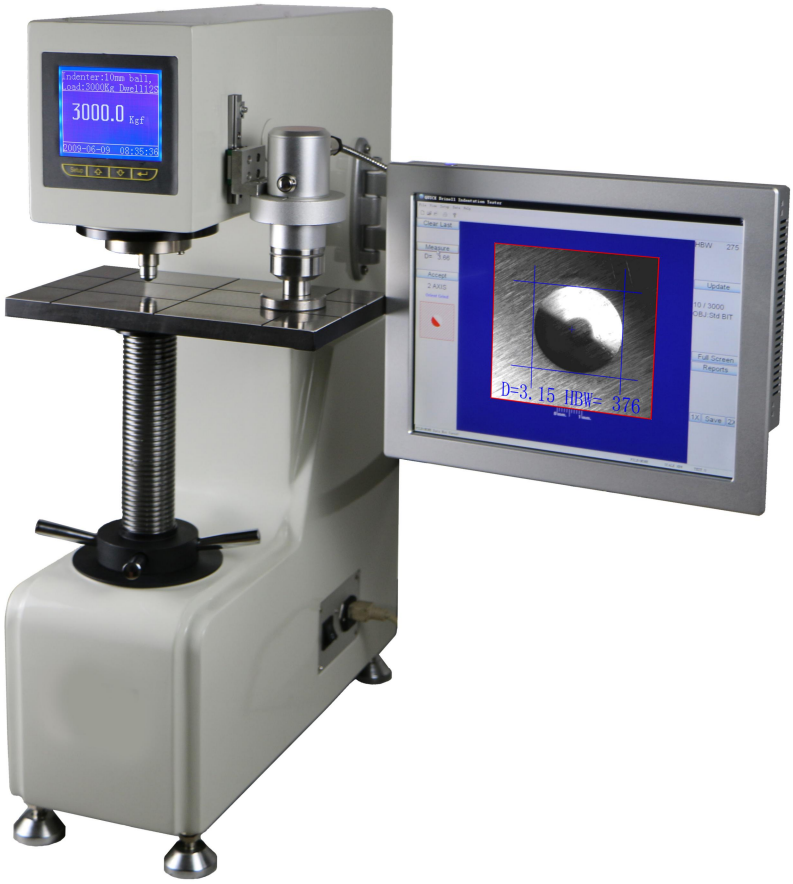
Brinell Hardness Tester

MODEL:KHT600-M WITH QUICK SYSTEM



Specification:

- The tester incorporates the latest load cell technology. The test load is applied via a closed-loop control unit with a load cell, a DC motor and an electronic measurement and control unit. The result is highly accurate measurements at all test loads up to 0.5%.
- PnP tech. Simple plug - and - play tech allows for much more quick and easy installation than
- traditional weights type machine.
- Equipped with CCD camera and PC make the indentation measuring automatically.
- Touch screen, keyboard and mouse 3 ways operation methods available.
- The whole weight of the tester is 50% less than the traditional dead weights type tester.
- Test load selection by keyboard and LCD screen. No need of handling heavy weights or cleaning the messy oil.

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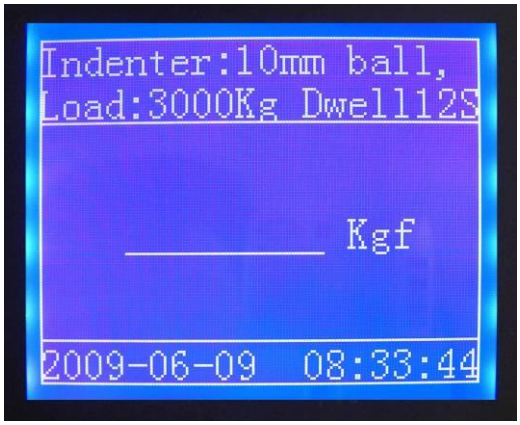
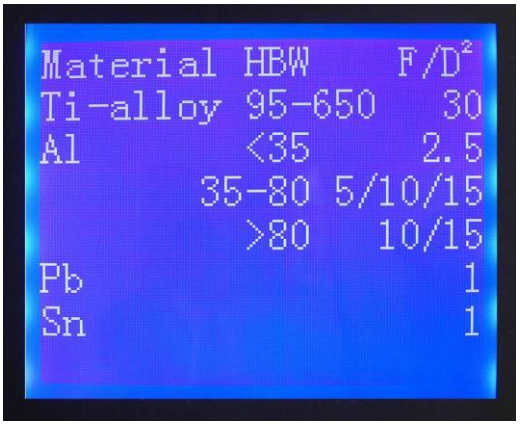
- Selectable dwell times by screen. The indenter, load, and other test informations are showing clearly on the large LCD screen.



- The directions for $0.102F/D^2$ ratios selecting according to the materials and hardness range can be showing on the screen.



- Equipped with the computer and special Brinell indention measure software which can measure the Brinell indention accurately, quickly, reliably. It is a new measuring method by using CCD camera to capture the indention image, instead of reading diameter from optical microscope by operator then calculating the test value.
- The software can measure Brinell hardness value less than 0.01 seconds automatically. It has high recognition rate for the indentation on rough surface. As the following examples, the surface processed by turning, milling, grinding; even the sawing sections, surfaces filed by hand, or grinding by abrasion wheel, and rusty surfaces, and even damaged indentation, can be identified automatically.
- It is especially suitable for actual industrial field testing due to high speed, and high recognition rate on rough surface.
- The operation is very simple, just press the button on CCD once. It is no longer need to drag the mouse. Realize real automatic measurement.

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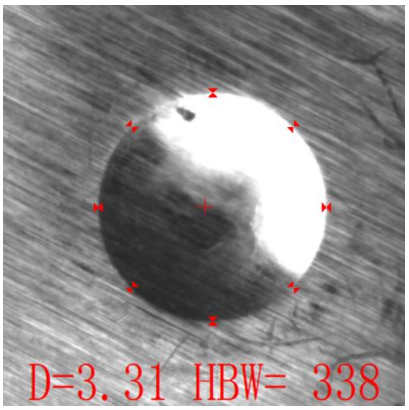
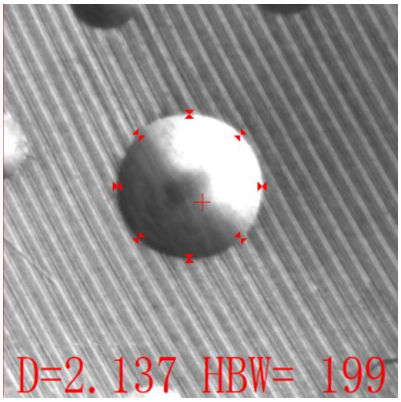
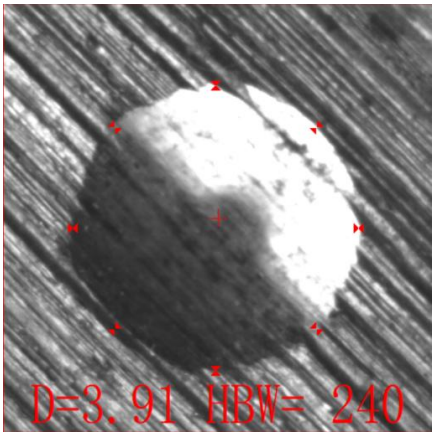


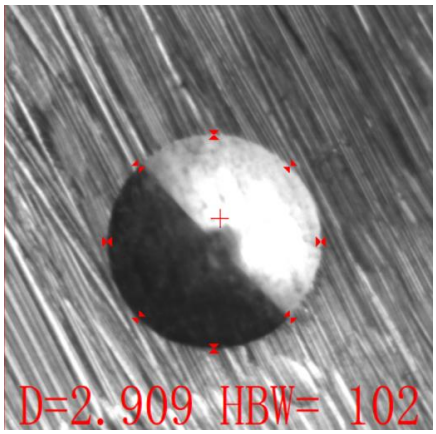
Grinding surface



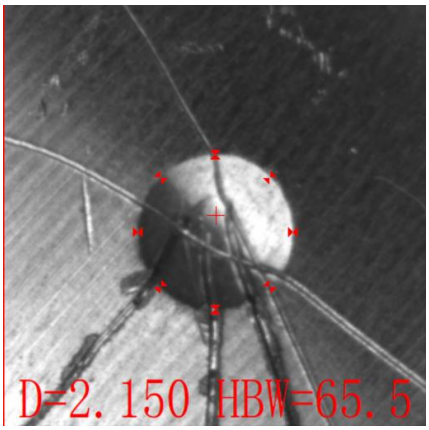
Turning surface



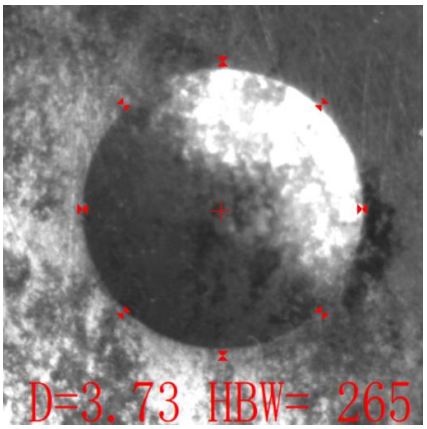
Grinding surface by abrasion wheel



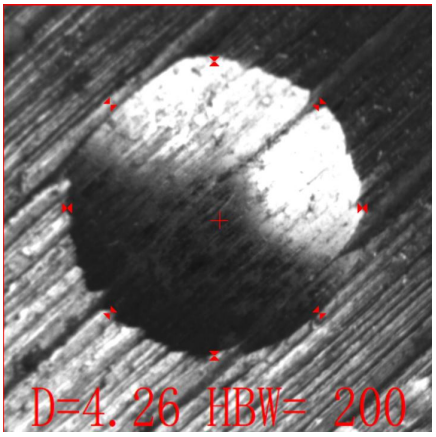
Filed surface



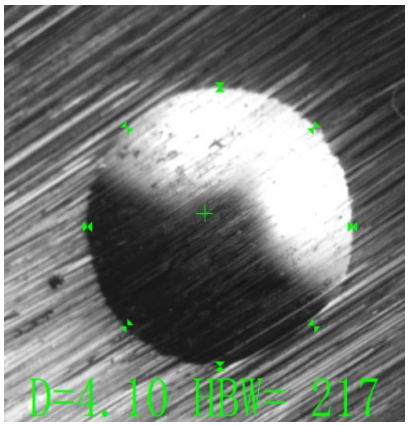
Scratched surface



Rusty surface



Sawed section



Sanding surface

Technical data：

Loads：3000kgf (29400N), 1500Kgf (14700N), 1000Kgf (9800N), 750Kgf（7355N），

500Kgf (4900N), 250Kgf (2452N), 187.5Kgf (1839N), 125Kgf (1226N),

100Kgf (980N), 62.5Kgf（612.9N)

Load dwell duration: 5s～50s, can be set and stored

Tungsten Carbide Ball indenter: 10mm, 5mm, 2.5mm

Measuring range: 3.18HBW~658HBW

Accuracy of indention measureing: ±0.5%

Accuracy of Brinell Hardness Value:

Hardness Range(HBW)	Error (%)	Repeatability(%)
≤ 125	± 2.5	≤3.0
125＜HBW≤225	± 2.0	≤2.5
＞ 225	±1.5	≤2.0

Max measurable height: 220 mm

Max measurable depth: 150 mm

Dimensions: 530mm×260mm×750mm

Power supply: 220/110 V, 50/60 Hz, 4A

Weight: 130kg

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Standard configuration

Host machine	1
Standard block 125-350HBW10/3000	1
Standard block 90-150HBW10/1000	1
Φ10mm Tungsten Carbide Ball indenter	1
Φ5mm Tungsten Carbide Ball indenter	1
Φ2.5mm Tungsten Carbide Ball indenter	1
Mounting screws for indenter	1
Flat anvil, 300mmx180mm	1
Power supply wire	1
Dust cover	1

Optional accessories:

“V ”shape anvil

Standard blocks of other value

Φ10mm Tungsten Carbide Ball

Φ5mm Tungsten Carbide Ball

Φ2.5mm Tungsten Carbide Ball