

UIS Technology

Materials Testing Equipment



SUH-200

Digital Universal Hardness Tester

SUH-Series

Features

- Design according to ISO6508-1 ,ISO6506-1 ,ISIRI 7811 ,ISIRI 7809 ,ASTM E18 ,ASTM E10 ,and ASTM E92 standards.
- Servo electrical operation mechanism. Accurate load cell for measuring force.
- HMI Touch screen display panel.
- Capability of selecting and testing all types of Rockwell (15methods) superficial Rockwell (15 methods) direct method, Vickers (8 methods), Brinell (24methods) indirect method (up to 200 kgf).
- High tests record capacity (40000 tests)
- Statistical reports from the latest performed tests (covering Max, Min, Average, ST-Deviation)
- User friendly and fully automatic with possibility for calibration of machine's measuring devices.



Low Cost , High Performance

Description

SUH-200 hardness tester machine is capable of testing metals hardness in Rockwell (direct measurement), Vickers, and Brinell (indirect measurement). In Rockwell direct method the indenter penetration depth is directly measured by the machine and hardness displayed. In indirect method the indenter print diameter and diagonal should be measured by auxiliary equipment and hardness calculated. The load is applied by means of a highly accurate servo electrical mechanism with advanced control where the load is measured by a very accurate load cell providing variety of test methods: Rockwell (15 methods), Rockwell Superficial (15 methods), Vickers (8 methods), Brinell (24 methods) (up to 200 kgf) by SUH-200. All types of standard indenters can be installed for different hardness test methods. Different anvils are available for holding various parts. Statistical reports of latest tests are obtainable with all test parameters selected and observed on the touch screen display.

With accuracy as a percentage of reading 0.5% applied load (50 grf max error) and 0.05 micrometer resolution for general indenter displacement. In addition to the previously mentioned the machine has 0~300mm stroke and 200mm mounting depth for specimen installation.

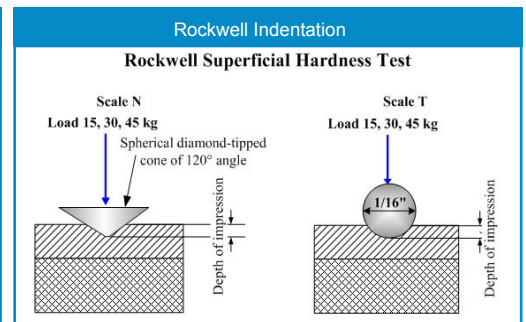
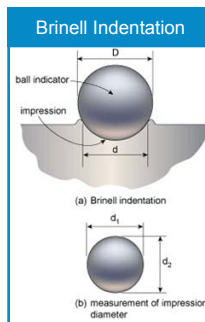
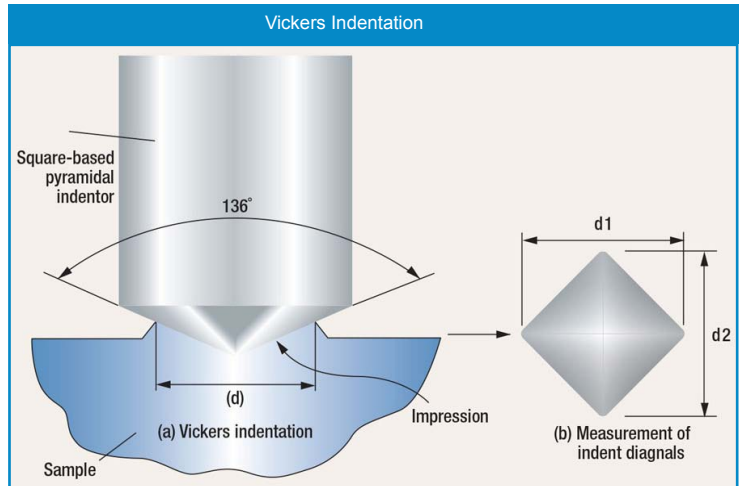
There are other options like: Internal memory for recording test data up to 40000 tests, RS-232 port for data transfer to PC and USB port for saving data in external memory.

A Rockwell C indenter with a round flat 98mm anvil and a Standard test block are among the machine accessories.

Application

SUH-200 is generally applied for measuring metals hardness in Rockwell, Vickers, and Brinell methods in ambient temperature. It is also widely used in research and development of alloys, quality control of metal products...

- Hardness control after heat treatment, welding, coating...
- Quality control of metal alloys
- Research on loads on surface and surface resistance of metallic materials
- Quality control of metal products such as profiles, tubes, pipes, sheets and bars



Technical Specifications

Code	SUH-200
Max Load	200 kgf
Load Measurement	Accuracy as a percentage of reading 0.5% applied load (50 grf max error)
Displacement Measurement	0.01 μm resolution
Hardness Measurement	±1 HRC accuracy with 0.01 HRC resolution
Anvil Stroke	300 mm
Depth for Specimen Installation	Max 200 mm
Operating Ambient Temp	10 – 38 °C
Humidity	10-50 % without condensation
Connection	PC connection by RS-232 serial port and USB port for data recording in external memory
Power Supply	220 VAC ,3 Amp
Dimensions (W*D*H)	26 × 60 × 92 cm
Weight	110 kg

Agent



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