

## Product Information

### HT-1000A & HT-2000A Hand Held Portable Hardness Tester



## Features

- Manufactured to ASTM A956
- Easy to use.
- Suitable for testing a variety of materials.
- Compact and lightweight, perfect for testing materials on-site.
- User friendly display.
- Readings in HL, HV, HB, HRC, HRB, or HSD scales.
- Display of average reading, ultimate tensile strength (UTS), test material, test scale and test direction.
- Large memory can store up to 200 sets of test results, including reading data and time, material, hardness scale, direction and average.

## Application

The HT-1000A and HT-2000A have many applications in the primary metals, metal fabrication, utilities, petroleum, chemical, automotive and aerospace industries. Their small size and easy to use, one-handed operation, makes them ideal for testing large and heavy forgings or castings, such as steel mill rolls and turbine housings. Also, due to their small size and portability, the testers can be used to test individual parts of a large assembly without taking the finished assembly apart. The testers can be used in any direction, and require only a small surface area to obtain a quick and accurate reading.

These versatile testers can be easily used by anyone, anywhere, to obtain direct accurate hardness readings.

## Operation

Operation of the HT-1000A and HT-2000A is easy and test results can be obtained in just seconds. To obtain a reading simply load the tester, position it on the material, and push the button. Setting up the instrument is also very simple. Two function keys are used to select up to 10 materials, 6 hardness scales and 5 testing directions.

For those users who require a print-out of their readings, the HT-2000A includes an infrared printer requiring no cable. Use is simple, just aim the instrument's infrared transmitter at the printer's receiving window to transmit up to 200 test results. The individual test readings, converted hardness values, average values, UTS, the time and date are instantly printed.

The HT-1000A and HT-2000A are battery powered for extra portability.

## Specification

- **Testing Range** (material dependant):

Vickers	(HV)	50 to 940
Brinell	(HB)	30 to 670
Rockwell	(HRB)	4 to 100
Rockwell	(HRC)	20 to 69
Shore D	(HSD)	32 to 99
- **Scales:**  
HL, HV, HB, HRB, HRC, HSD
- **UTS:**  
Kgf/cm<sup>2</sup>, Tons/in<sup>2</sup> (HT-2000A only)
- **Accuracy:**  
+/- 0.5% (based on the average of 5 readings at 60 HRC).
- **Testing Direction:**  
Any Direction
- **Materials:**  
Steel, Cast Steel, Alloy Tool Steel, Stainless Steel, Refractory Steel, Bearing Steel, Grey Cast Iron, Nodular Cast Iron, Aluminium Alloys, Brass, Bronze, Copper.
- **Operating Temperature:**  
Operating 14°F to 104°F (-10°C to +40°C)  
Storage 4°F to 122°F (-20°C to +50°C)
- **Batteries:**  
Tester: Two 3V Lithium CR-2330 Batteries  
Printer: Four 1.5V Alkaline AA Batteries
- **Battery Life:**  
Tester Work Life: 40 hours continuous (2,500 test results)  
Shelf Life: 2 Years
- **Printer:**  
6,000 print lines
- **Data Storage**  
Automatically records up to 200 test results including readings, conversions, average values, hardness scale, material, direction, date and time.
- **Time and Date:**  
Time and date with a 10 year calendar.
- **Tester Dimensions:**  
6.5" (165mm) x 1.1" (28mm) x 1.1" (28mm) x 1.1" (28mm)
- **Contact Dia:**  
0.79" (20mm) and 0.53" (13.5mm)
- **Weight:**  
4.2 oz (120 grams)

### HT-1000 A Package Includes:

- HT-1000A Hardness Tester
- Calibration Certificate
- UKAS Accredited Test Block
- Support Ring .79" (20mm)
- Support Ring .53" (13mm)
- Plastic Carrying Case
- Tube Cleaning Brush
- CR-2330 Lithium Batteries (2)
- Operating Manual

### HT-2000A Package Includes:

- HT-2000A Hardness Tester
- Calibration Certificate
- UKAS Accredited Test Block
- Support Ring .79" (20mm)
- Support Ring .53" (13mm)
- HP 82240B Infrared Printer
- CR-2330 Lithium Batteries (2)
- 1.5V AA Alkaline Batteries (4)
- Plastic Carrying Case
- Tube Cleaning Brush
- Operating Manual

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