

## Product Information

### HT1000 & HT2000 Hand Held Portable Hardness Tester



Fig. 1: HT2000A portable hardness tester performing a test



Fig. 2: HT2000A with test block and printer

#### 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 (up to 10 with HT1000), including reading data and time, material, hardness scale, direction and average.

#### Range of application

The HT1000 and HT2000 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.

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 HT1000 and HT2000 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 HT2000 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 HT1000 and HT2000 are battery powered for extra portability.

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Options		Item No.
HT1000A & HT2000A	Standard model	<b>2111576 &amp; 2111577</b>
HT1000B & HT2000B	With 50 mm nose for tests in awkward locations	<b>2111578 &amp; 2111579</b>
HT1000C & HT2000C	Modified for use on thin, hardened layers	<b>2111580 &amp; 2111581</b>

Specification	
Testing Range (material dependant)	
	Vickers (HV) 50 to 940
	Brinell (HB) 30 to 670
	Rockwell (HRB) 4 to 100 (A & B models only)
	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>
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: -10 °C to +40 °C (14 °F to 104 °F) Storage: -20 °C to +50 °C (4 °F to 122 °F)
Batteries	Tester: Two 3 V Lithium CR-2330 Batteries Printer: Four 1.5 V 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 (HT2000) / 10 (HT1000) 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	165 x 28 x 28 mm (6.5 x 1.1 x 1.1")
Contact Dia	20 mm (0.79" ) and 13.5 mm (0.53")
Weight	120 g (4.2 oz)

#### Standard accessories supplied with HT portable testers

Standard Accessories	HT1000	HT2000
Calibration Certificate	•	•
UKAS Accredited Test Block	•	•
Support Ring .79" (20 mm)	•	•
Support Ring .53" (13 mm)	•	•
HP 82240B Infrared Printer		•
1.5 V AA Alkaline Batteries (4)		•
CR-2330 Lithium Batteries (2)	•	•
Plastic Carrying Case	•	•
Tube Cleaning Brush	•	•
Operating Manual	•	•

• already included in the scope of supply

Optional accessories	Item Number
Set of support rings	<b>2111591</b>