



Rangemaster Portable Hardness Tester

Miscellaneous Gaging
Hardness Testing



Hardness scales: Rangemaster features 5 international hardness scales as standard (in one unit) for a wide range of applications.

Hardness Scales	Testing Range	Resolution
Vickers Pyramid#	35 - 1000	1
Brinell	100 - 500	1
Rockwell B	30- 100	0.1
Rockwell C	20 - 70	0.1
Tensile Strength	255 - 1999N/mm ²	1

The first portable, digital hardness tester of its type, the Electromatic Rangemaster has the advantage of redesigned mechanics and improved micro-processor control technology for high accuracy and repeatability. One instrument includes British, American and German standards with hardness values in Vickers, Brinell, Rockwells B and C, and tensile strength.

Based on the well proven principles of portable testers, a mechanical load of 15kg is applied in two stages to a diamond indenter through special pre-loaded springs. The indenter penetrates the test surface to a maximum depth of only .005", reducing damage to an absolute minimum yet giving consistently accurate results.

Special Features:

- Large digital readout.
- Hardness values displayed in all major international scales.
- RS232C output for connection to SPC equipment or serial printer for data collection and treatment of results either as an ongoing process or at the end of a batch of readings.
- Storage capacity for over 400 readings. Can be downloaded to a serial printer for comprehensive test reports.
- Value above or below tolerance indicators.
- Last reading recall facility.
- Battery or 110v mains power.

Mode Functions

- Mode Key: select upper/lower tolerances; prints out stored readings; clears memory; sets date/time; selects calibration mode.
- -/Cancel Key: cancels previous reading; changes limits, date, time and calibration value.
- +/Recall Key: recalls previous reading, and changes limits, date, time and calibration.
- Set Range Key: selects the testing range required; sets the mode value in memory.

Order No.	Description
54-760-000	Rangemaster with Rockwell B, C; Vickers; Brinell and tensile strength scales and 2 calibration blocks.
53-760-020	Optional Bench Stand.
53-760-025	Optional Magnetic Holder
53-760-061	Replacement Rockwell C Test Block, high range
53-760-062	Rockwell C Test Block, low range
53-760-063	Rockwell B Test Block, high range
53-760-064	Rockwell B Test Block, low range