Mitutoyo

Mitutoyo Quality

Rockwell Hardness Testing Machine
HR-530 Series

Test Equipment

Bulletin No. 2255

Mitutoyo

Rockwell Hardness Testing Machine

HR-530 Series

NEW Products

Unique electronic control makes the HR-530 series of hardness testers capable of Rockwell, Rockwell Superficial, Rockwell testing of plastics (A & B) and Light Force Brinell hardness testing.

HR-530
(810-237)
Maximum specimen size:
Height 250 mm, Depth 150 mm

HR-530L
(810-337)
Maximum specimen size:
Height 395 mm, Depth 150 mm

Inside ring hardness testing

Test the hardness of the inside wall of a ring without cutting the ring into pieces. (All models.) Minimum diameter is 34 mm, but inside diameters as small as 22 mm can be tested by using the optional 5 mm diamond indenter (**19BAA292**).

Display with color touch-screen

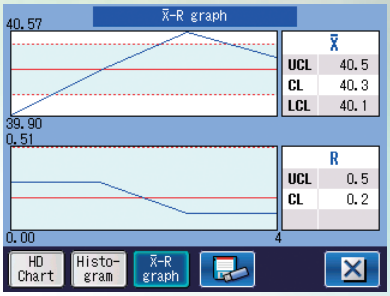
5.7-inch color LCD

The HM and HV series user interface has been adapted to include Rockwell hardness testing capabilities. Versatile color screens display the results of statistical calculations and graphics functions, etc.

When space restrictions are an issue, the touch-panel display unit can be mounted on top of the tester.

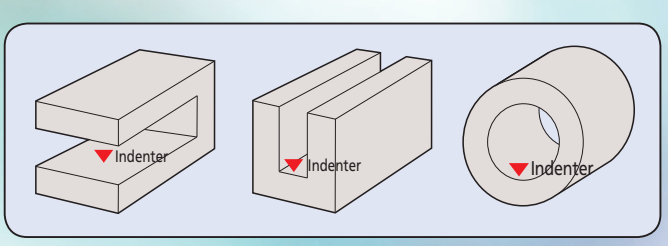
Graphic display of statistical calculation results and X̄-R control charts

This series allows numeric display of statistical analysis results such as maximum and minimum values, mean value and graphic display of X̄-R control charts and histograms required for hardness evaluation.



Measurement with a nose indenter shaft

A nose-type indenter enables measurement not only of the flat top surface of a specimen, but also the inside surface of a cylindrical specimen.



Continuous measurement function

When testing multiple workpieces with the same height, continuous testing is possible by pressing the foot switch or the START button.

RS-232C, Digimatic and USB interface ports

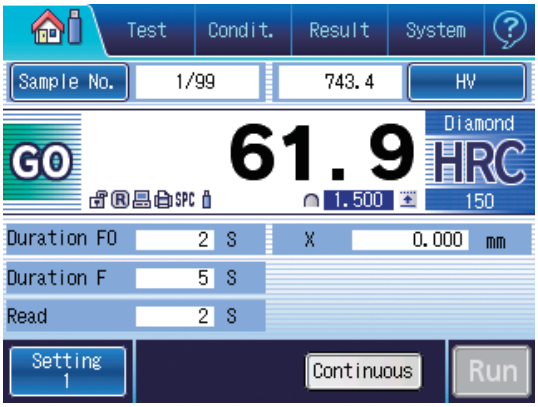
Mitutoyo

Touch-panel display and function

The HR-530/530L models offer the combination of functionality and operability in a touch-panel display.

HR-530
(810-237)

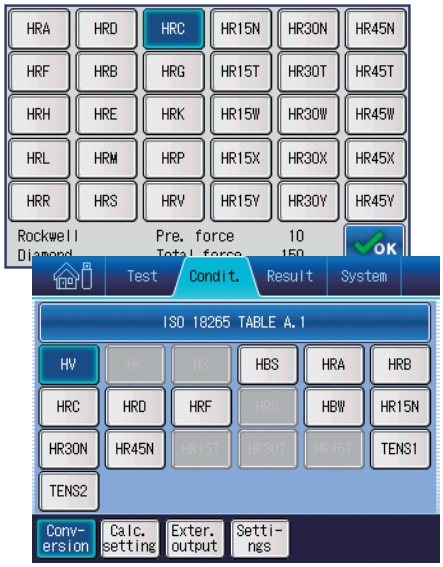
•Standard operating display



Statistical calculation results and test conditions can be stored as text data and graphs can be stored as graphic data.

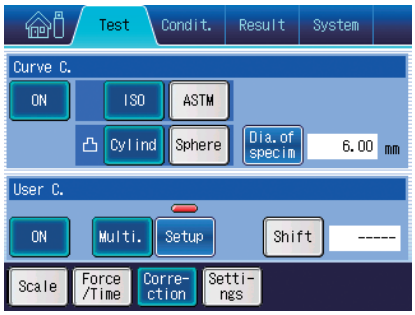
•Direct hardness scale selection

The required hardness scale can be selected with the touch panel. The initial test force and loading force are automatically set in accordance with the selected scale.



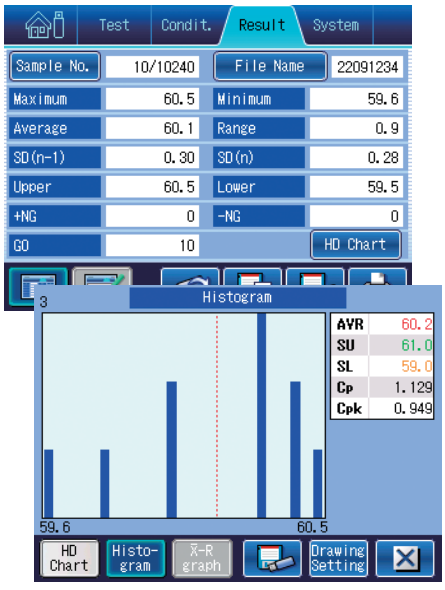
•Curved surface compensation and measurement

The curved-surface correction function enables curved surfaces, such as round bars and spheres, to be tested for hardness as easily as flat surfaces.

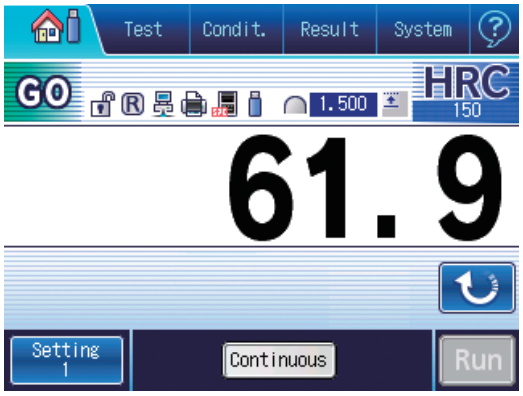


•Statistical analysis

The quality control of industrial materials by hardness testing uses a judgment based on multi-point test results. Moreover, the statistical calculation of the maximum value, minimum value, mean value, standard deviation, etc., is useful when analyzing multi-point test results.



• Simple display

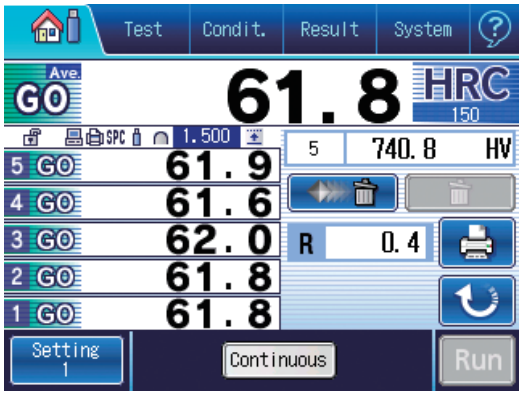


Only displays a test result and scale, making it appropriate for repeated testing under the same conditions.

• Multi-point test display

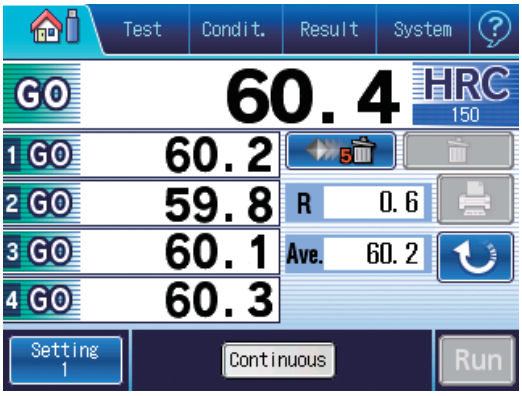
Provided with the navigation function to lead to each test point that has been set. This display is dedicated to the Jominy test which allows multi-point testing with simple operation.

• List display (mean value)



Displays the mean hardness value averaged over multiple arbitrarily specified points.

• List display (5-point display)



Displays records of test results as a list. This display is appropriate for establishing the relationship between prior and subsequent test results in terms of variation and mean value.