



BUEHLER® MACROMET® 5121

Rockwell and Rockwell Superficial Type Hardness Tester

- Motorized Force Application With Closed Loop Feedback for Precise Control of Selected Test Loads for all Rockwell and Rockwell Superficial Scales
- Large Easy-To-Use LCD Console for Tester Control and Hardness Readout
- Automated Minor Load Stop and Major Load Application
- Extended Indenter Arm Allows Testing Inside Enclosed Parts

BUEHLER® **MACROMET® 5121**

Specifications

MACROMET® 5121 Twin Rockwell and Rockwell Superficial Type Hardness Tester, with digital control and hardness readout via an easy-to-use LCD touch screen. Closed loop test force feedback and an electronic brake ensures precise minor load application at 3kgf or 10kgf and major load application at 15kgf, 30kgf, 45kgf, 60kgf, 100kgf, and 150kgf for all Rockwell scales. The LCD panel provides a readout of the hardness value in the current scale, or in a converted scale, including: HV, HK, HRA, HRB, HRC, HRD, HRF, HRG, HR15T, HR30T, HR45T, HR15N, HR30N, HR45N, HS, HB, HBW and tensile strength. Statistical output for batches of up to 1024 measurements is provided along with corrections for cylindrical or spherical surfaces. The extended indenter arm will allow the testing of internal surfaces as small as 7/8" (22mm) diameter as well as parts of up to 6" (150mm) deep (center of indenter to the tester body). The elevating screw accommodates specimen heights of up to 8" (205mm). Regardless of specimen size, the test surface is well lit with a powerful illuminator positioned beneath the tester arm. For some size parts, the tester can be used in continuous mode with the arm automatically raising for the next part. The tester comes with: a diamond cone indenter for HRC, HRA, HRD and HRN scales, a 1/16" ball indenter with spare balls for HRB, HRF, HRG, and HRT scales, a 2 1/2" (64mm) diameter flat anvil, a 1.6" (40mm) diameter V-anvil, test blocks for HRC, HRB, HR30N and HR30T scales, tester cover, operators manual, accessory case and tools.

Large font size for the hardness readout and an Icon driven menu options ensures ease-of-use.

A number of set up screens are available to allow the test parameters to be easily changed.

Statistical analysis of up to 1024 hardness values is provided along with graphing and data editing capabilities.

1800-5121 Tester, weight approx 132 lbs. (60kg), Dimensions 9.8" x 26.4" x 23.8" (250 x 670 x 605mm)

Model 1800-5121A, for operation on 110V 60Hz

Model 1800-5121D, for operation on 220V 50Hz

Model 1800-5121E, for operation on 240V 50Hz

Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.

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BUEHLER ANALYST® SECTION

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