

AN AUTOMATION APPROACH TO PERFORM ROCKWELL HARDNESS MEASUREMENTS

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Abstract

It is challenging to calibrate hardness reference blocks in compliance with the prevailing standards without performing time-consuming pre-measurements. A new method developed at the PTB uses data obtained during the preload phase of a Rockwell hardness measurement to automate the test cycle and thereby eliminates the need for pre-measurements. The new approach accelerates the overall calibration process and increases the user-friendliness of the Rockwell hardness testing equipment. This report gives an overview of the developed method.