



Reference Hardness Tester for calibration laboratories

This highly accurate Hardness Tester is designed for laboratories calibrating Test Blocks. It includes Affri System technology and a fully automatic system to perform calibration in accordance with the International Standards ASTM, EN ISO-JIS .

- **Integral AFFRI System**
- **Absolute measurement**
- **The Start button initiates an uninterrupted test sequence comprising:**
 - **approach the piece**
 - **clamping**
 - **impression of reference surface**
 - **complete measurement cycle with subsequent release**
- **The result is not influenced by deflections during the test cycle**
- **Large and fixed table supporting test pieces**

Designed for different applications: A) EN ISO 6508-3 for Rockwell; B) EN ISO 6508-3 for Superficial Rockwell; C) EN ISO 6506-3 for Brinell; D) EN ISO 6507-3 for Vickers
The excellent accuracy and repeatability fully meet the requisite standards. A table of practical results obtained on AFFRI machines and another reference machine shows AFFRI's high comparable performance (①):

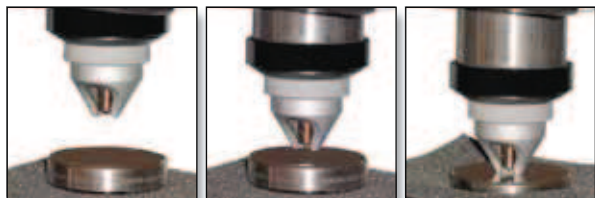
The integral Affri system of this machine operates on the same principle as that adopted in the regular production machines shown this catalogue.

Values obtained with Master reference hardness tester and with Affri reference hardness tester using the same indenter and test blocks for the range (26 HRC, 44 HRC, 65 HRC)

①

	Nominal Hardness 26 HRC		Nominal Hardness 44 HRC		Nominal Hardness 65 HRC	
	Master Reference Tester (HRC)	AFFRI Reference Tester (HRC)	Master Reference Tester (HRC)	AFFRI Reference Tester (HRC)	Master Reference Tester (HRC)	AFFRI Reference Tester (HRC)
	26.05	26.34	44.27	44.31	64.99	65.17
	26.13	26.64	44.28	44.34	65.04	65.12
	26.20	26.25	44.29	44.32	65.11	65.16
	26.32	26.18	44.25	44.32	65.07	65.20
	26.34	26.21	44.24	44.32	65.16	65.16
Average Standard deviation	26.21 0.12	26.32 0.19	44.27 0.02	44.32 0.01	65.07 0.07	65.16 0.03

AUTO CONTACT WITH TEST PIECE AND AUTOMATIC TEST CYCLE





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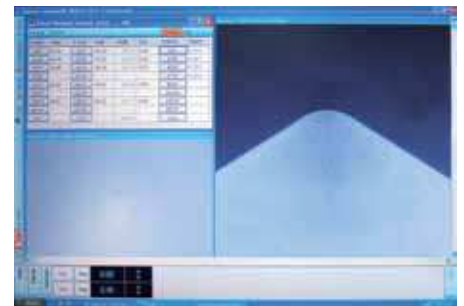
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Designed for Vickers and Brinell as per ISO 6507-3, ISO 6506-3 Standards

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Measure of the geometry on Rockwell, Vickers indenters as per ISO 6508-3 ISO 6507-3



Automatic measure on Rockwell indenter profile including radius



Measure of Vickers indenter profile and coincidence at edge point

AUTO CONTACT WITH TEST PIECE AND AUTOMATIC TEST CYCLE

