

# HARD TEST-I

MAGNETIC PORTABLE HARDNESS TESTER  
Conform to **ASTM E-18 / E-10**

HrA

Hh

Hrc

Hrb

Hr30t

HbS

Hb30

Hu

r

Hr15n

A new combined tester for Hardness and sigma break tests in one instrument:  
quick and accurate for production departments without requiring laboratory inspection.

- Conform with standard **ASTM B-724 DIN 50157**
- An invaluable help in the warehouse or factory
- Tests hardness on all type of metals
- Tests the break module sigma
- Does not require adjustment
- Ready for test in any moment
- 10 different conversion scales
- Stores results



## FIELDS OF APPLICATION FOR AFFRI® TESTERS

	Soft	Hard	
HRA - Rockwell A	20	92	For hard steel, nitriding, cementation, roller, steel for tools, soft and hard materials
HK - Knoop	25	97	For soft steel, non ferrous metals
HRC - Rockwell C	0	80	For hard steel, nitriding, cementation, roller, steel for tools
HRB - Rockwell B	26	100	For soft steel, non ferrous metals
HR30T - Rockwell 30T	16	83	For soft steel, non ferrous metals
HB5 - Brinell 5	5	205	For aluminium, soft aluminium alloy cast iron, bronze, brass
HB30 - Brinell 30	66	884	For heat treated steel, annealed steel, drawn products, deep-drawn strip
HV - Vickers	13	1865	For all material
R - Tensile module N/mm <sup>2</sup>	226	2898	For heat treated steel, annealed steel, drawn products, deep-drawn strip
HR15N - Rockwell HR15N	69	93	For hard steel, nitriding, cementation, roller, steel for tools

**QUICK:** in only 2 seconds the hardness and sigma are measured on large range of metallic products

**UNIVERSAL:** designed to check sheets, metal rolls, shaped parts, tubes, on aluminium, brass, copper and steel

**ACCURATE:** products and surfaces down to 0.08 mm thick can be checked. It works using the innovative Affri system which measures the real indentation depth applying constant incremental load rates through a minor and major load ( as in laboratory machines).

### TECHNICAL CHARACTERISTICS

Height capacity	self adjustable from 0.08 to 15 mm (other measures on request)
Conform to Standard	ASTM B-724
Reading scales	HRA HK HRC HRB HB30T HB5 HB30 HV R HR15N
Depth capacity	25 mm
Power	battery
Memory	100 measure and automatic VERAGE, Hi - Lo values

### APPLICABLE ACCESSORIES

Standard	Bag with instrument, test block, instruction for use
Extra	Special bases for special fixtures



**OMAG di AFFRI D. S.r.l.**  
 Via M. Tagliaferro, 8  
 I-21056 INDUNO OLONA - CEE (VA) - ITALY  
 Tel. +39 0332 200546  
 Fax +39 0332 203704  
 info@omagaffri.com

**Exclusive distributor:**  
**AFFRI®**  
 Via M. Tagliaferro, 8  
 I-21056 INDUNO OLONA - CEE - (VA) - ITALY  
 Tel. +39 0332 201533 +39 0332 206289  
 Fax +39 0332 203621  
 info@affri.com - www.affri.com

**America:**  
**AFFRI Inc.**  
 111 S. Lombard Rd Unit #4  
 ADDISON, IL 60101 - USA  
 Tel. 224 374 0931 - 630 303 1588  
 sales@affriusa.com  
 www.affri.com