AFFRI®

E X P L O R E R

A hardness tester for robots and CNC machines.
ASTM E10 / E18 / E103 - ISO 6508.

EXPLORER

The most advanced technology to measure the hardness on board the CNC machine after milling and preparing the surface to be examined.
On components of complex or bulky shape that would be impossible to perform in the laboratory.
Know the hardness in a precise point thanks to the coordinates of the CNC machine; prepare the surface before performing a hardness test for perfect and real-time measurements without having to go to the laboratory. These are just some of the benefits with EXPLORER AFFRI thanks to its small size and low weight of only 2 Kg.
Connection with all machining centers from which only the commands for positioning the probe are used.
The accuracy of the measurements is guaranteed in any bad condition. The data is received by the BT radio receiver unit Data and values can be easily exported to a specific PC via the AFFRI software.
A probe with extension is also available to access the most difficult points to measure.
EXLORER complies with ASTM E10 / E18 / E103 and ISO 6508

ISO 30 / 50 or customized.

	EXPLORER SUPERFICIAL	EXPLORER
FORCE RANGE		
Preload:	29.42 N (3 kgf)	98.07N (10 kgf)
Rockwell:	---	588.4 - 980.7 - 1471 N (60 - 100 - 150 kgf)
Superficial Rockwell:	147.1 - 294.2 - 441.3 N (15 - 30 - 45 kgf)	---
Brinell:	153.2 - 294.2 - 306.5 N (15.625 - 30 - 31.25 kgf)	98.07 - 612.9 - 1226 - 1839 N (10 - 62.5 - 125 - 187.5 kgf)
FEASIBLE TESTS		
Rockwell:	---	HRA - HRB - HRC - HRD - HRF - HRG - HRL - HRM - HRR
Superficial Rockwell:	HR15N - HR30N - HR45N - HR15T - HR30T - HR45T - HR15W - HR30W - HR45W - HR15X - HR30X - HR45X - HR15Y - HR30Y - HR45Y	---
Brinell HBWT:	1/30 - 2.5/15.6 - 2.5/31.5	5/125(3) (Aluminum and its alloys) - 2.5/62.5(2) (Aluminum and its alloys) - 2.5/187.5(6) (Aluminum and its alloys) - 2.5/187.5(5) (Carbon steel) - 2.5/187.5(1) (Cast iron)
Temperature:	Measure test temperature range from - 40.0 to + 80.0 °C	Measure test temperature range from - 40.0 to + 80.0 °C

TECHNICAL DATA	
Conformity Standards:	EN-ISO 6506-2 / EN-ISO 6508-2 / ASTM-E10 / ASTM-E18 / ASTM-E103
Load accuracy:	Better than 0.5 %
Readout Division:	0.1 HR / HBWT
Temperature Range:	From 10 °C to 35 °C
Data Output:	RS 232 C (USB as option)
Software:	Affri - OMAG
Principle of Operation:	Dynamometric Load Cell

Please contact us for all at these address: ***support@affri.com*** - ***info@affri.com***