



206 RTD Digitronic

DIGITAL
ROCKWELL
BRINELL

- Twin Hardness Tester for Rockwell - Brinell tests
- Digital readout

ADVANCED AFFRI TECHNOLOGY INSIDE OFFERS MODERN SOLUTIONS

- The force is created by a dynamometer without requiring oil, shock absorbers and dead weight as in the obsolete systems
- AFFRI Dynamometer System permits the operator to use the machine with highly accurate results and repeatability even if the machine is unlevelled, inclined or near the vibration area; The hardness tester can very well operate directly near the work machine controlling the production in real time.
- Friendly and very easy software permits the storing of results, calculates averages and connect to a printer or a PC to transmit stored data.
- Set of anvils permits easy tests on round or flat surfaces
- Also special accessories can be manufactured to easily test various sizes of test pieces.

VERY EASY TO USE:

Select load and scale with proper indenter, Turn the hand wheel up till it touches the sample with the indenter and activate the lever to apply and remove major load.
The result will appear automatically.

ROCKWELL - BRINELL HARDNESS TESTER



By applying C shape indenter Art. 604, difficult points as: insides of tubes and near to hollows can be reached.

A complete machine for any test requirement AFFRI® hardness tester of the 206 RT DIGITRONIC series is produced in several versions. One of these series is arranged so as to carry out both Rockwell and Brinell's tests with digital direct reading. The measurement principle is the classic Rockwell's principle with electronic control of the test cycle. Loads can be selected with the rotary knob and accuracy index. Possibility to connect to a computer for result and statistic calculation processing. The possibility of connection to a printer for diagram plotting and statistic makes the 206 RTD DIGITRONIC durometer a modern and helpful instrument for the materials control.



It is possible to carry out tests on any part even if small dimensioned. The visible indenter allows to reach extreme points for testing tool cutting edges as well. The bellow guard guarantees a constant and safe motion with no need of maintenance.

Electronic management of the measurement cycle

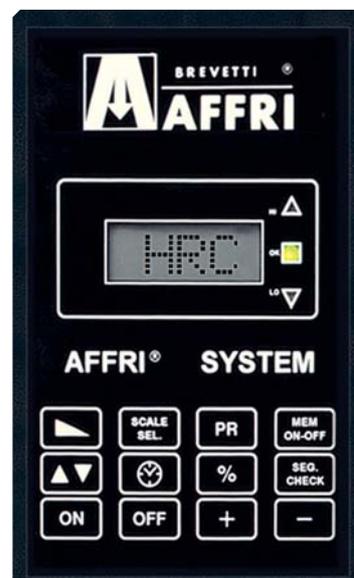
- Each test phase is followed on the liquid crystal display in digital progression.
- Keyboard setting of the measurement data: choice of Rockwell or Brinell hardness scales.
- Sets out the minimum and maximum tolerance limits
- Test time that can be set out from 1 to 99 seconds.
- Data output via RS 232 C for connection to printer and computer for diagram plotting and statistics.



- Digital reading on all Rockwell and Brinell scales and tensile module conversion.



It has been designed to obtain the best reliability through time and result accuracy as well. It got through severe tests. **The sturdy piece-holder** column assures an exact measure-





206 RTD Digitronic



ment on any detail. The internal part is both chromium-plated and grinded. We can supply different pieceholder anvils: from the large plane table to shaped anvils fit for any requirement.

O.M.A.G.  BREVETTI
AFFRI
REGOLATORI DI DUREZZA
HARDNESS TESTERS
CE
MODELLO
MADE IN ITALY



At request

- Ball penetrator in hard metal \varnothing 2,5-5 mm (1/4" - 1/8") for plastic
- Vickers penetrator
- Brinell test block
- Vickers test block
- Microscope 1216A Model for Vickers measuring
- Printer 80 column with RS 232 C connection
- Computer for statistic program
- Statistic programs
- Large flat anvil 140 mm \varnothing
- Special penetrator art. 604 for tests standard insides of tubes

Optional: Vickers and Brinell optical tests

Microscope 1216 available with 20-40 magnifying lens, provided with battery internal lighting and 90° rotary micrometric scale for opposed diagonal measurement. It allows to perform Brinell and Vickers exact impression measurements.

Standard accessories

- 1 Flat anvil 60 mm
- 1 "V" anvil 60 mm
- 1 Combined spot "V" + flat anvil
- 1 Wooden case
- 1 Calibration certificate
- 1 Hardness conversion table
- 1 Dust cover

standard for 206 RTD

- 1 HRC diamond penetrator
- 1 HRB ball penetrator \varnothing 1/16"
- 1 HRC test block
- 1 HRB test block

standard for 206 RTSD

- 1 HRN diamond penetrator
- 1 HRT ball penetrator \varnothing 1/16"
- 1 HRN test block
- 1 HRT test block

Technical characteristics

MODEL	206 RTD DIGITRONIC	206 RTSD DIGITRONIC
Preload	10 kgf (98,07) N	3 kgf (29,4) N
Test loads	60-100-150 Rockwell (588-980-1471) N 62,5-125-187,5 Brinell (612-1225-1839) N 10-60 Vickers (98,07-588) N	15-30-45 Rockwell superficiale (147-294-441) N 15,6-31,2 Brinell (153-306) N 3-15-30 Vickers (29-147-294) N
Working	Rockwell traditional - electronic control	
Feasible tests	Rockwell, Brinell + Vickers	Rockwell superficiale + Brinell + Vickers
Reading	12 scale Rockwell + Brinell + R Kg/mm ²	6 scale Rockwell
Reading resolution	0,1 HR	
Accuracy	Conformation standards EN-ISO 6506 / 6507 / 6508 / ASTM-E18	
Height capacity	215 mm	
Depth capacity	190 mm	
Diameter of column	60 mm	
Diameter of anvil	60 mm	
Max load of test piece	1.000 kg	
Data output	RS 232 C	
Data selection transmission	ok, hard, soft	
Power supply	220V 50÷60Hz - 200VA	
Field of application	For all metals, steel, hard steel, cast iron, bronze, aluminium over 0,6 mm, plastics, soft and hard rubber	Nitriding, cementation, hard facing with depth less to 0,6 mm
Net weight	65 kg	
Packing weight	85 kg	
Packing measures	37x60x102 cm	

Change ment of data can be effected without notice



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