

LD SERIE



NEW!

LD 3000 A

Automatic Brinell HBW measurement
On-board LCD with portable probe
From 10 to 3000 kgf

LD SERIE

LD 3000

Manual - Only indentation



Semi-automatic Brinell hardness tester. Reading of indentation is made through standard microscope or through optional electronic microscope with auto-measure.

LD 3000 A

Automatic indentation reading



Automatic Brinell hardness tester with on-board LCD and portable probe. Real Brinell HBW in compliance with ASTM E10 and ISO 6506.

LD 3000 B

Automatic Brinell HBWT



Automatic Brinell hardness tester with depth hardness measurement for Brinell HBWT and Rockwell in compliance with ASTM E18 and ISO 6508. On-board LCD.

EASY AND FAST AUTOMATIC MEASUREMENTS

Spin the leveling screw's handle and bring your sample to make contact with the clamping hood blocking the piece.

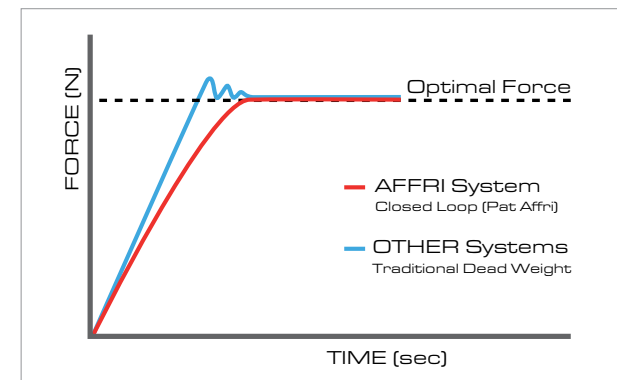
Press the START button and the measuring head approaches the sample, applies the load to perform the indentation and goes back upward; all in automatic succession without breaching a phase.



CLOSED LOOP TECHNOLOGY (Pat. AFFRI)

Load forces are applied through load cells and electronically controlled in "Closed Loop" with a frequency of 1 khz, assuring perfect linearity in every range. Range from 10 to 3000 Kgf.

Results are not affected by any structural deflection, misalignment, vibration or problems associated with dead weight systems on traditional testers. The tester can also run in an inclined position.



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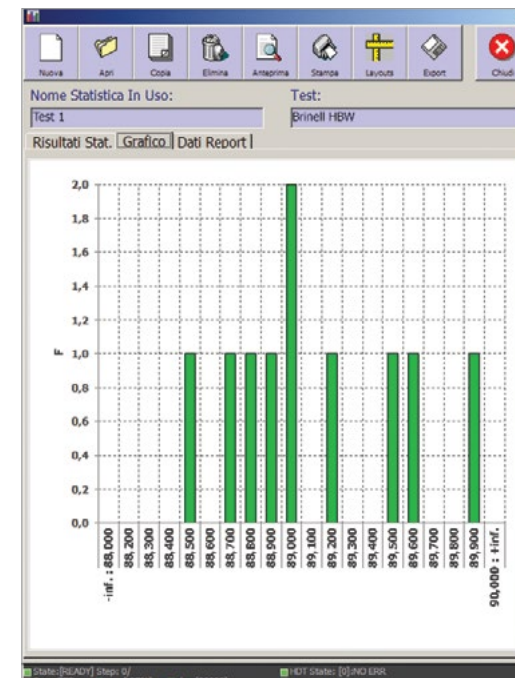
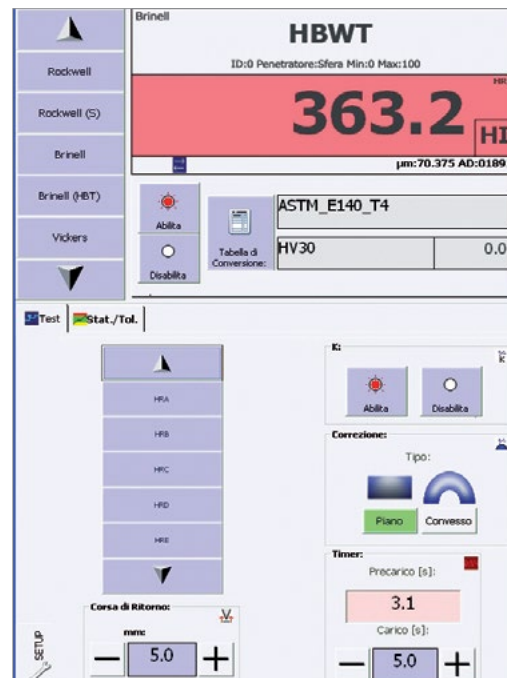
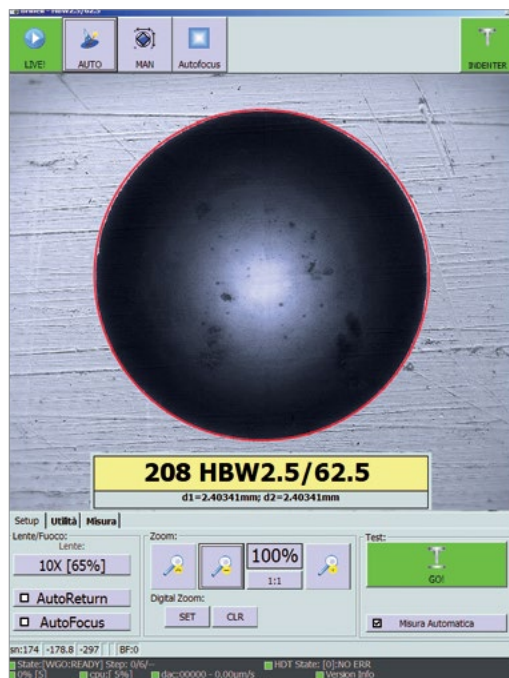
Clamping system

SELF COMPENSATING AND CLAMPING SYSTEM (Pat. AFFRI)

When testing unstable samples or deflective parts, the AFFRI System will follow the sample and not lose contact, compensating any frame deflection during the test cycle. Accurate results are assured even with oiled, dusty or dirty pieces.

VERTICAL STROKE

The measuring head with indenter has a vertical stroke of 30mm. The indenter head retracts into a protective cylinder at the end of the measurement cycle.



TOUCHSCREEN AND SOFTWARE

Wide touchscreen for easiness in test planning and a clear view of results. User friendly Windows® interface with conversion tables and round correction values for tests on convex cylindrical surfaces or various diameters. Statistics and charts are automatically generated. Standard and custom reports can be generated at a touch of a button. All results and testing sessions can be stored on the large archive using the on board software database.

BLUETOOTH OR USB

Connect to database networks, PC's and printers, to download data or for final custom reports.

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LD 3000 A AUTOMATIC READING

The preinstalled software controls the whole instrument avoiding setting errors or operators mistakes:

Indentation autoreading through camera and automatic readout. Powerful software for test cycle managing and automatic indent analyzing. Wide settings parameters for measurement setup, image adjustments, statistics and data storage.





LD 3000 B AUTOMATIC MEASUREMENT

The preinstalled software controls the whole instrument avoiding setting errors or operators mistakes:

Real Brinell HBW and Rockwell measurement in compliance with ASTM E18 E08 and ISO 6506 6508. Powerful software for test cycle managing. Wide settings parameters for measurement setup, image adjustments, statistics and data storage.

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TECHNICAL DATA

Accuracy	Better than 0.5 %
Temperature Range	From 10 °C to 35 °C
Data Output	USB stand
Power Supply	110 o 220 V / 50-60 Hz
Software	Affri - OMAG
Principle of Operation	Load Cell and Closed Loop (Pat. AFFRI)
Force Range	Brinell 98.07 - 153.2 - 294.2 - 306.5 - 612.9 - 1839 - 2450 - 4900 - 7350 - 9807 - 29403 N (10 - 15.6 - 30 - 31.2 - 62.5 - 187.5 - 250 - 500 - 750 - 1000 - 3000 kgf) Rockwell 588.4 - 980.7 - 1471 N (60 - 100 - 150 kgf) Vickers 98.07 - 147.1 - 294.2 - 490.3 - 980.7 N (10 - 15 - 30 - 50 - 100 kgf)
Feasible Tests	LD 3000: Only indentation LD 3000 A: Automatic indentation reading with onboard LCD and portable probe Brinell HBW 1/10 - 1/30 - 2.5/62.5 - 2.5/187.5 - 5/25 - 5/62.5 - 5/125 - 5/250 - 5/750 - 10/100 - 10/250 - 10/500 - 10/1000 - 10/1500 - 10/3000 Vickers HV 3 - HV 5 - HV 10 - HV 20 - HV 30 - HV 50 - HV 100 (Only indentation) LD 3000 B: Automatic Brinell HBWT and Rockwell measurements Brinell HBWT 2.5/62.5 - 2.5/187.5 - 5/125 - 5/250 - 5/750 - 10/500 - 10/1000 - 10/1500 - 10/3000 Rockwell HRA - HRB - HRC - HRD - HRF - HRG - HRL - HRM - HRR Vickers HV 3 - HV 5 - HV 10 - HV 20 - HV 30 - HV 50 - HV 100 (Only indentation)
Standards	EN-ISO 6508 / EN-ISO 6506 / EN-ISO 14577 / ASTM E-18 / ASTM E-10 / ASTM E384
Dwell Time	From 5 to 60 seconds programmable
Vertical Stroke	Screw stroke 150 mm. Removing the elevating screw, the vertical capacity increase till 300 mm for large parts.
Indenter/Clamping-Hood Stroke	30 mm
Depth Capacity	190 mm
Fields Of Use	For all type of metals under Brinell test method.
Packing Weight	350 kg
Packaging Measurements	140x 100 x 65 cm