



ATI B3000

Automatic Brinell hardness tester



ATI B3000



HARDNESS MEASURES DIRECTLY IN PRODUCTION LINE OR IN LABORATORY

ATI B3000 hardness tester is fully performant and easy to use, making it the best choice for efficiency and to measure any surface on large or small products.

AUTOMATIC TEST CYCLE

ATI B3000 hardness tester is extremely easy to use: you just need to choose the correct hardness scale and push the START button. Now the table automatically brings the test piece in contact with indenter and the loading cycle starts automatically. The turret manages automatically the indenter-objectives switching. By simply touching the indentation image, the result immediately appears on the wide graphic display. At this point the hardness tester is again ready for a new measurements.



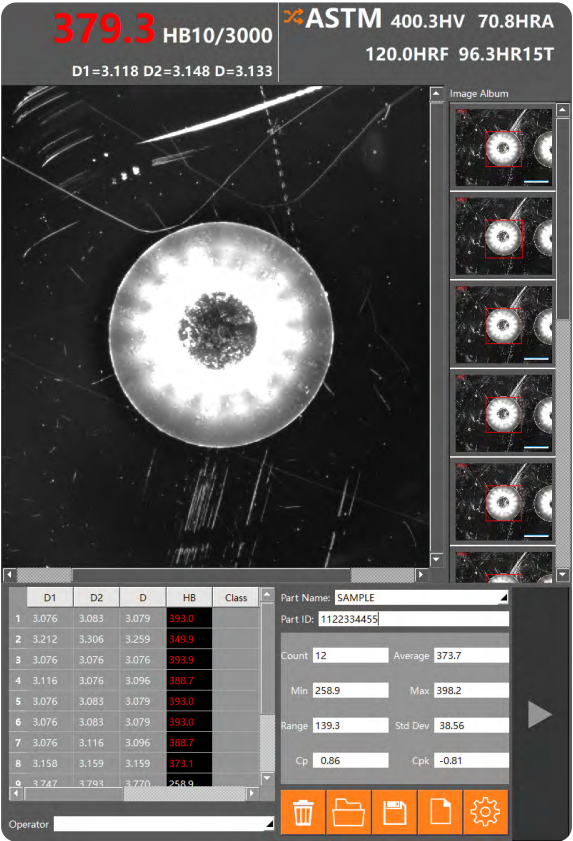
Automatic turret with 5 steps: 3 indenters for Brinell hardness tests and 2 optic lens for the indentation reading (20X and 40X).

SOFTWARE

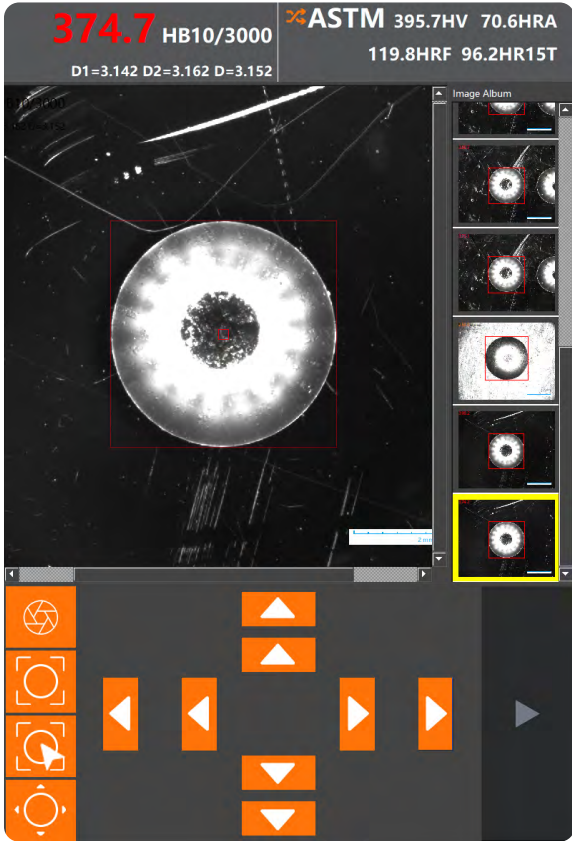
The software makes the measurement automated in each its phase: set the hardness test scales, check the camera properties, set the standard test method, conversion scales, manage the instrument tools and check if the installed instrument is correct and compliant with the selected hardness test method. The lists of results and their images are stored in the archive. The results are automatically transformed into graphs and statistics, in order to facilitate their control. Data can be exported by USB.



Easy menu: it is possible to select the function, get start of the test cycle, select the focus and the loads or check the previous results.



Lists of the results done and their associated image.



After the automatic measurement is completed, it is possible to take a manual measurement on the indentation.

TECHNICAL DATA

Model:	ATI B3000
Brinell Hardness scale:	HBW 2.5/62.5 - HBW 2.5/187.5 - HBW 5/62.5 - HBW 5/250 - HBW 5/750 - HBW 10/100 - HBW 10/500 - HBW 10/1500 - HBW 10/3000
Test Force (Kgf):	62.5 Kgf (612.9N), 100 Kgf (980.7N), 125 Kgf (1226N), 187.5 Kgf (1839N), 250 Kgf (2452N), 500 Kgf (4903N), 750 Kgf (4905N), 1000 Kgf (7905N), 1500 Kgf (14710N), 3000 Kgf (29420N)
Loading system:	Electronic control of load cells in "Closed-Loop"
Auto turret standard:	2 steps (1 indenter / 1 optical len 20X)
Auto turret as option:	5 steps (3 indenters / 2 optic lens 20X 40X)
Auto turret rotation:	Orizzontally 360° (2 steps or 5 steps)
Standards:	ISO 6506, ASTM E10-23 and equivalents
Accuracy of test force:	Accuracy better than 1% (62.5 - 3000 Kgf); Accuracy better than 0.5% (500 - 3000 Kgf)
Measuring device resolution:	0.1 µm
Hardness resolution:	0.1 HBW
Dwell load time:	From 0 to 99 seconds
Hardness accuracy:	Better than 0.5%
Height capacity:	350 mm
Depth capacity:	250 mm
Measurement range:	15.9-650 HBW (ASTM E10 (Recommended effective hardness value)
Camera resolution:	1,2 MPixel
Measurement methods:	Manual and automatic
Data output:	USB
Data storage:	The measured values are stored in EXCEL format on a USB flash disk
Display:	Multicolor LCD touch-screen 12"
Language:	English
Power supply:	110/220 V - 50/60 Hz single phase
Dimensions:	700 x 340 x 970 mm
Weight:	160 kg

The manufacturer reserves the right to make changes aimed at improving the products without prior notice.
Images for illustration purposes only. Colors and product details may vary.



CALIBRATION SERVICE AND SUPPORT

ATI AFFRI TESTING INSTRUMENTS offers real-time technical support, with remote diagnosis for technical and software issues. We provide remote software updates to ensure our products are always up to date. We are accredited for calibration and certification service with ANAB ILAC-MRA / ISO-IEC 17025 certifications. Our scope of accreditation includes calibration of ATI and many other brands, for instruments such as Rockwell, Brinell, Vickers, Knoop, Shore durometer, tensile, compression, and more. Contact us for a quote, regardless of the brand of equipment.

AFFRI is a ® trademark of
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