

# Equotip Bambino

The Equotip Bambino hardness tester is a simple, economical and easy-to-use portable rebound tester for hardness measurements on most metals. It combines a light and compact design and an innovative impact device type D to offer an unmatched price/performance ratio.



## Features

- Scratch proofed anodized aluminum housing - rugged and durable, compact in size at just 147.5 x 44 x 20 mm
- The large bright LCD display and the 3-button keypad allow easy readings and simple device control
- Rapid reload and trigger mechanism and automatic correction for impact direction
- Wide measurement range on most common hardness scales (HV, HB, HRC, HRB, HS, Rm)
- The user may upload and use custom conversions for uncommon alloys
- Internal, non-volatile data storage of 2'000 readings complete with tagging of important information like day, time, and detailed measurement statistics
- Intelligent on/standby power switching for optimum battery charge life

## Applications

- On-site testing in metal production and processing
- Excellent for material selection, acceptance and quality control tests
- Great also for production level testing on heavy and big parts
- Handy for difficult to access or confined test locations, also curved sample surfaces.



## Primary Industries

- Metal production & processing
- Automotive & transportation
- Machinery & power plants
- Petro-chemical, refineries
- Aerospace & shipyard
- Metal constructions
- Testing services & laboratories



## Warranties

- Standard 2-year limited warranty on electronic indicating units
- Optional extended warranty periods up to 3 years

## Standardization

- ASTM A956, DIN 50156



## Testing with EQUOTIP BAMBINO - Easy as 1-2-3



1. Positioning



2. Arming



3. Testing



BAMR (Pty) Ltd, PO Box 23973, Claremont, 7735, South Africa  
 Ph : 27 (0)21 683 2100, Fax : 27 (0)21 674 1485  
 Email : sales@bamr.co.za, Web : www.bamr.co.za

1. Position the BAMBINO on the surface point to be tested, perpendicular to the surface.
2. Arm the impact device – slide the actuator towards the housing. The catch chuck grasps the impact body and draws it against the energy spring to a defined force. This motion “wakes up” the electronics and the display shows the current test settings.
3. Test is accomplished by again sliding the actuator towards the housing. This releases the impact body from the catch chuck and propels it towards the test surface within the defined energy. Results are immediately displayed in the selected scale. No separate trigger action is necessary – loading and release is accomplished in the same motion. Better than ISO N7. Excessive scattering of test result indicates poor surface preparation.

## Configuring the EQUOTIP BAMBINO



The display output of your test results (scale and material) can be configured individually by the 3 button on-board control system. Sensing and compensation for impact direction is default, but can also be switched off..

## Technical Specifications

<b>Dimensions</b>	147.5 X 44 X 20 mm
<b>Weight</b>	110 g
<b>Impact Energy</b>	11 mJ (11 Nmm)
<b>Impact Body D</b>	5.5 g
<b>Spherical Test Tip</b>	Ø 3 mm, Tungsten Carbide (ca. 1500 HV)
<b>Measurement Range</b>	150 - 950 HL
<b>Conversions</b>	81 - 955 HV, 81 - 678 HB, 20 - 70 HRC, 38 - 102 HRB, 30 - 100 HS, 274 - 2193 N/mm <sup>2</sup>
<b>Resolution</b>	1 HL, 1 HV, 1 HB, 0.1 HRC, 0.1 HRB, 0.1 HS, 1 N/mm <sup>2</sup>
<b>Impact Direction</b>	Automatic Sensing and Compensation (Fine Angular Resolution)
<b>Measurement Accuracy</b>	±4 HL (0.5% At 800 HL)
<b>Operating Environment</b>	-10 to +60 °C, 90% Max. Humidity
<b>Construction</b>	Scratch Proofed Anodized Aluminum
<b>Display</b>	Large, High Contrast LCD
<b>Battery</b>	Li-Ion, Charges from USB Port
<b>Battery Life</b>	Over 20,000 Impacts on a Full Charge
<b>On/Off</b>	Automatic, Using Intelligent Wake-Up/Sleep Mode



## Unit Kits

- 351 20 001 EQUOTIP BAMBINO** hardness tester, unit D  
**Includes :**  
 BAMBINO hardness test device with impact body D, small D6a and large D6 support ring, cleaning brush, neck/wrist strap (lanyard), charger and USB cable, USB memory stick with PDF files of operating manual/quick reference guide, device box, product certificate
- 351 20 002 EQUOTIP BAMBINO** hardness tester, unit D (351 20 001) with test block D with Proceq calibration certificate, large carry case

## Optional Accessories

- 350 01 140** Test block D with Proceq calibration  
**350 01 139** Test block D with MPA calibration and certificate  
**351 90 001** Large carrying case - space for test block & major accessories  
**350 01 015** Coupling paste (can)  
**350 03 000** Set of support rings (12 pcs.)  
**351 90 003** AC charger/power supply (110-220 V)  
**820 35 103** Operating instructions  
**820 35 102** Quick reference guide

## Replacement Parts

- 350 01 004** Impact body D\*  
**350 01 009** Support ring D6\* (19,5 x 5,5 mm)  
**350 01 010** Support ring D6a\* (13,5 x 5,5 mm)  
**351 90 019** Device box  
**351 90 016** Neck/Wrist strap (Lanyard)  
**351 90 018** USB cable, 1.8 m  
**351 90 017** Cover for USB receptacle  
**350 01 008** Cleaning brush  
**341 80 112** USB charger

\* wear and tear items

