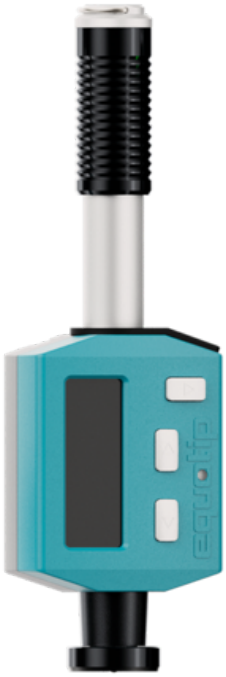

Hardness Testing

Equotip Piccolo 2 - Bambino 2

Entry model of Leeb D/DL probe with integrated display

Resolution & depth

Fully integrated and handy Leeb D/DL hardness tester with a compact and robust housing. Ideally suited for quick on-site hardness tests.

Versatility

Compact housing and automatic angle correction allow flexible use and can be automated (Piccolo 2 only).

User Experience

Comes with the high accuracy known for all Equotip products.

Equotip Bambino 2 / Piccolo 2
Tech Specs

Piccolo 2 / Bambino 2

Display	Monochrome, 4-digit
Instrument protection	Scratch-proof, hard-coated zinc metal alloy
Memory	2'000 impacts (Piccolo 2 only)
Combination with another testing method	DL conversion kit for Piccolo 2 / Bambino 2
Connectivity	USB-B for charging , PC connection (Piccolo 2 only)
Battery	Li-Ion, 175 mAh
Battery lifetime	> 20'000 impacts
Charging time	< 2h, 100 mA charging current
Power input	5V, through USB-B
Dimensions	147.5 x 44 x 20 mm / 5.71 x 1.75 x 0.79 in
Weight	142 g / 5 oz
Humidity operation	< 90% RH, non-condensing
Operating temperature	(-) 10°C + 50°C / 14°F – 122°F
Certification	CE, KC, FCC

Bambino 2/ Piccolo 2 Software

Special features	- Automatic compensation for impact direction (except DL probe) - Remote controll of Piccolo 2 settings - User-defined hardness conversions
Conversion curves applicable for materials	- Steel and cast steel - Work tool steel - Stainless steel - Grey Cast Iron (Lamellar, Nodular) - Cast aluminium, Alu AN40 - Brass Cu/Zn Alloys - Wrought copper alloys
Languages	Language-universal
Regional settings	Metric and imperial units, multi-language and time-zone
Audio support	Full digital audio

Desktop Software (Windows)

PC Software	Piccolo Link (Piccolo 2 only) for data download, management and export (CSV, PNG), Conversion curve management, and for upgrades of constantly expanding Equotip and Equotip Link Software
Language support	English, German, French, Italian, Spanish, Russian, Chinese

Instrument
Tech Specs

Native Scale	HLD/HLDL
Conversion scales	HB, HV, HRB, HRC, HS, MPA (σ1, σ2, σ3)
Measurement range	150-950 HLD, 250-970 HLDL
Indenter	Tungsten carbide (D, DL)
Impact energy / Test force	11 Nmm (D, DL)
Accredited calibration	ISO/IEC 17025
Standard compliance	ASTM A370 ASTM A956 DIN EN ISO 16859 GB/T 17394 JB/T 9378
Guidelines	ASME CRTD-91 DGZfP Gudeline MC 1 VDI / VDE Gudeline 2616 Paper 1 Nordtest Technical Reports 99.12, 99.13, 99.36
Conversion standards	ASTM E140 ISO 18265 Proceq's own conversion curves
Measurement resolution	1 HLD/HLDL/HV/HB; 0.1 HRC/HRB/HS 1 N/mm 2 (Rm)
Measuring accuracy	± 4 HLx (0.5% @850 HLD)
Measurement deviation (E)	Lower than DIN EN ISO 16859
Coefficient of variation (R)	Lower than DIN EN ISO 16859
Weight	234 g / 8.26 oz
Dimensions	147.5 x 44 x 20 mm / 5.71 x 1.75 x 0.79 in

Standards & Guidelines	Description
ASTM A 370	
ASTM A 956	
ASTM E 140	
DIN 50156	
GB/T 17394	
ISO 16859	
JB/T 9378	
ASME CRTD-91	
DGZfP Guideline MC 1	
Nordtest Technical Reports 424-1, 424-2, 424-3	
VDI / VDE Guideline 2616 Paper 1	