



LEEB HARDNESS TESTER RDL – 300

Portable Leeb Hardness Tester RDL-300 is the digital addition to our extensive range of portable rebound hardness testers following Leeb principle with easy and fast operation, excellent accuracy, versatile, compact and lightweight.

Portable size of RDL-200 allow them to test large and heavy forgings or castings, such as steel mill rolls and turbine housings. These hardness tester require access to only a small surface area. This leeb tester can be used in many applications in various industries such as aerospace, automotive, primary metals, metal fabrication, petroleum, chemical, and utilities.



FEATURES

- Large memory for 100 groups test results
- Statistical data and upper-lower limit setting
- Prints all test results and histogram
- RS-232 interface (to hyperterminal or data view software)
- Time and date setting; auto-clock
- Back-light LCD
- Direct display of hardness scales HRB, HRC, HV, HB, HS, HL
- Conversion to tensile strength σ_b (U.T.S.)
- For all metallic materials
- Impact device provides testing at any angle, even upside down Integral thermal printer
- High accuracy $\pm 6\text{HLD}$ and conforms to ASTM A 956
- Six impact devices are available for special applications



TECHNICAL SPECIFICATION

Product Name	Portable Leeb Hardness Tester
Model	RDL-300
Hardness Scale	HL,HRC ,HRB, HRA, HV,HB,HS
Measuring Range	(170-960)HLD,(17-68.5)HRC,(19-651)HB,(80-976)HV,(30-100)HS,(59-85)HRA(13 -100)HRB
Measuring Direction	0~360°
Indicating Error	HLD:±5; HRC:±1; HB:±4
Memory	100 Groups test maximum
Printer	Built-in Printer
Shell Material	Plastic
Statistics	Average value, min-max ,upper-lower limits
Data-Output	RS-232
Impact Device	D (standard)
Optional impact Devices	DC/D+15/DL/G/C/E
Work piece radius	Rmin=50mm(with support ring Rmin=10mm)
Min. Workpiece weight	2~5kg on stable support 0.05~2kg with compact coupling except C and G impact device
Workpiece min. thickness	5mm,expect with impact device G:10mm,C:1mm
Workpiece min. case hardened depth	0.08mm except C impact device 0.2mm and impact device 1.2mm
Dimension	212mm×72mm×30mm
Power Supply	AA6V,500mm(A1.8AV),A2.5~4hours
Operating Temperature	0 °C to 40 °C



MEASURING RANGE/MATERIALS

Material	HLD	HRB	HRC	HB	HV	HSD
Steel and cast steel	300-900	38-100	20-68	81-654	81-955	32-100
Cold work tool steel	300-840	—	20-67	—	80-898	—
Stainless steel	300-800	46-101	—	85-655	85-802	—
Grey cast iron	360-650	—	—	93-334	—	—
Nodular cast iron	400-660	—	—	131-387	—	—
Cast aluminum alloys	170-570	23-84	—	19-164	—	—
Brass	200-550	13-95	—	40-173	—	—
Bronze	300-700	—	—	60-29	—	—
Copper	200-690	—	—	45-315	—	—



SCOPE OF SUPPLY

Standard Delivery	Standard Delivery
Instrument Main Body	RS-232 Data cable
Impact device type D	RoboTest certificate
Hardness Block(750-830)HLD	Charger
Mini-printer	Accessories Box
Cleaning brush	Instrument Manual

OPTIONAL ACCESSORY

Optional Accessories	Optional Accessories
Hardness Block(460-540)HLD	printer paper
Optional Impact device type	Software Data Pro
Optional Support Ring	