

**ARW-220** For order **220122727**

## Impact hardness tester for metals

*Compact and easy to use portable digital hardness tester, particularly suitable for measuring hardness on solid surfaces, even large ones, which are difficult to access with other instruments. It uses the rebound measurement method (Leeb test) with an impact tester (probe) able of detecting the hardness on various types of material and converting the value into the main measurement scales (Rockwell B, Rockwell C, Brinell, Vickers).*



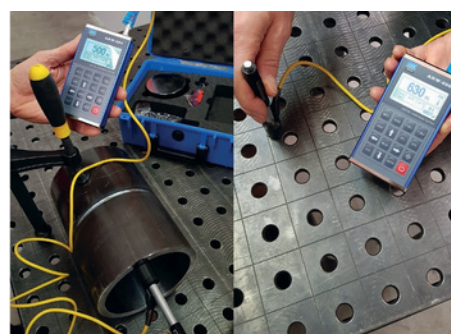
- **Calibration block included in the supply**
- Rebound measurement system (Leeb Test), **Standard "D" type impact probe included**
- Selectable measurement scales: Rockwell (B & C), Vickers (HV), Brinell (HB), Shore (HSD) Leeb (HL)
- **Strong metal** external structure
- Large **backlit LCD screen** (128x64), with all functions and parameters
- Internal menu in "English"
- **Internal data memory for 500 measurement groups, with 32 single values for each group**
- **Mini statistics function:** indicates the measured value, average value, direction of measurement, date and time
- **Data interface, cable and software included in delivery**
- Limit value function: A visual and acoustic signal helps the measurement
- Automatic recognition of the type of sensor used
- Ability to measure in any direction, vertical, diagonal, horizontal and upside down
- Auto power off for energy saving

### TECHNICAL SPECIFICATIONS

Measurement range	170 to 960 HLD (Standard "D" type probe)
Measurement direction	all directions possible, 360° ◀▶▶▶▶▶
Resolution	1 HL, 1 HV, 1 HB, 0.1 HRC, 0.1HRB, 1 HSD
Accuracy	1 % with 800 HLD
Minimum bending radius of the test object	50mm (concave/convex) using the adapter ring
Minimum thickness of the tested sample	30mm (type "D" probe) lower in case of use low impact "C" type impact tool
Data memory	For 500 measuring groups, with 32 individual values for each group, from which the average value is calculated
Display	Backlit LCD (128x34mm)
Conditions of use	Ambient temperature -10°C/40°C, Humidity ≤90%
Power supply	1.5V AA batteries (autonomy approx. 100h without backlight)
Dimensions	132x82x31mm
Weight	600g. (probe excluded)



Calibration block included in the supply



### MEASUREMENT FIELDS

Materials	Stairs	MIN	MAX
Steel and steel alloys	HRC	19,8	68,5
	HRB	59,6	99,6
	HSD	26,4	99,5
	HB	140,0	651,0
Cutting tools	HV	83,0	976,0
	HRC	19,8	68,5
	HRBH	59,6	99,6
	RC	19,8	68,5
Stainless steel	HB	140,0	651,0
	HV	83,0	976,0
	HB	140,0	334,0
Cast iron	HB	140,0	334,0
Ductile iron	HB	140,0	387,0
Aluminum alloys	HB	30,0	159,0
	HB	40,0	173,0
Brass (copper and zinc alloys)	HRB	13,5	95,3
Bronze (alloys of copper, aluminum, tin)	HB	60,0	290,0
Copper alloys	HB	45,0	315,0

### OPTIONAL ACCESSORIES

Support rings for spherical, concave, convex surfaces



### SUPPLY KIT

- Body Instrument
- Standard "D" type impact probe
- Standard calibration block
- Probe cleaning brush
- User manual
- ABS case
- Software and interface cable

