

# HARDNESS TESTER PCE-2000N

### Leeb hardness tester for metals

The PCE-2000N hardness tester from PCE-Instruments uses the Leeb rebound method. This is a dynamic hardness test method in which a standardized test specimen, usually a hard metal ball, hits a test surface at a defined impact energy. The impact of the hard metal ball on the test surface results in a plastic deformation of the surface at the point of impact. This

deformation results in an energy loss which is proportional to the hardness of the workpiece and which can be determined by means of the ratio of rebound to impact velocity of the specimen.

# ISO cal option

- various other impactors as accessories
- measurement in different angles possible
- readings are saved to USB pen drive
- external impact device with 1.5 m cable
- wide measurement range
- 6 different hardness scales



## **APPLICATION**





# **TECHNICAL SPECIFICATIONS**

Measurement ranges	170 960 HLD 17.9 69.5 HRC 19 683 HB 80 1042 HV 30.6 102.6 HS 59.1 88 HRA 13.5 101.7 HRB	Display resolution Data memory Data output Power supply Auto Power Off Operating conditions Storage conditions Dimensions	128 x 64 pixel OLED 600 averages in 6 data groups USB pen drive 3 x AAA batteries after 12 min of inactivity +10 +50 °C, 20 90 % RH -30 +60 °C 160 x 80 x 40 mm (H x W x D)
Impact device included (optional impact devices) Cable length impact device	D (DC, D+15, C, G, DL) approx. 1.5 m	Weight	Meter with batteries: approx. 300 g / <1 lb Impact device: approx. 75 g / <1 lb
Accuracy Repeatability	±0.5 % (@800 HLD) 0.8 % (@800 HLD)	Material Steel / cold-rolled steel	HRA 59.1 85.8 HRC 20 68.5
Hardness scales	HL (Leeb) HV (Vickers) HB (Brinell) HS (Shore) HRA (Rockwell A)		HRB 38.4 99.6 HB 127 651 HSD 32.2 99.5 HV 83 976
	HRB (Rockwell B) HRC (Rockwell C)	Alloyed tool steel	HRC 20.4 67.1 HV 80 898
Measurable materials	Steel Cast steel Alloy steel Stainless steel	Stainless steel	HRB 46.5 101.7 HB 85 655 HV 85 802
	Grey cast iron Spheroidal graphite iron Cast aluminium alloy	Grey cast iron Spheroidal graphite iron Cast aluminium	HB 93 334 HB 131 387 HRB 23.8 84.6 HB 19 164
	Cu-zinc (brass) Copper-tin alloy Copper	Brass Bronze	HRB 13.5 95.3 HB 40 173 HB 60 290
	Оорры	Copper	HB 45 315

#### Optional accessories:

Impact device D Impact device DC Impact device D+15 Impact device C Impact device G Impact device DL	Order code	PCE-2000N Probe D PCE-2000N Probe DC PCE-2000N Probe D+15 PCE-2000N Probe C PCE-2000N Probe G PCE-2000N Probe DL
--	--	---



Subject to change without notice