

INNOVATEST[®]



TH-1100

Universal Portable Hardness Tester



PORTABLE HARDNESS TESTER

TH-1100

The completely new -entry level- Dyna TH-1100, part of the unbeatable series of TIME Leeb type dynamic hardness testers offers a very affordable but accurate hardness testing solution for on-site testing in workshops and in field operation. The unit assures accurate and reliable measurement.

Any metallic products with a minimum solid mass of 2 kg can be tested according to the Leeb principle. The display shows hardness values in all common scales, such as HRC, HRA, HRB, HV, HB, HS, and HLD. The instrument is equipped with chargeable batteries that provides 16 hours continuous operation.

FEATURES

- Direct display of hardness values in Rockwell HRB, HRC, Vickers HV, Brinell HB, Shore HS, Leebs HLD
- Test results appear directly on the large display
- Impact Device D integrated: no cables
- Memory up to 99 data group files
- Tests at any angle, even upside down
- High quality LCD display
- Battery capacity display
- Simple handling and low test expenditure



TECHNICAL SPECIFICATIONS

• Standard impact device	D integrated
• Hardness scales	HRC, HRA, HRB, HV, HB, HS & HLD
• Measuring range / materials	See table
• Tolerance	0.5% at 800HLD
• Memory	99 data group files
• Output	NO
• Min. surface roughness of workpiece	1.6 μ (Ra)
• Max. workpiece hardness	960HLD
• Min. radius of workpiece (convex/concave)	Rmin= 50mm (with support ring Rmin= 10mm)
• Min. workpiece weight	2~5kg on stable support 0.05~2kg with compact coupling
• Min. workpiece thickness coupled	5mm
• Min. thickness of hardened layers	0.8mm
• Charging time	3 hours
• Continuous working time	16 hours
• Power	Rechargeable Li battery
• Operating temperature	0~40°C
• Overall dimensions	145x35x30mm
• Weight	110 g

OPTIONAL SUPPORT RINGS

No.	Type	Remarks
1	Z10-15	For testing cylindrical outside surface R10~R15
2	Z14.5-30	For testing cylindrical outside surface R14.5~R30
3	Z25-50	For testing cylindrical outside surface R25~R50
4	HZ11-13	For testing cylindrical inside surface R11~R13
5	HZ12.5-17	For testing cylindrical inside surface R12.5~R17
6	HZ16.5-30	For testing cylindrical inside surface R16.5~R30
12	UN	For testing cylindrical outside surface, radius adjustable R10~ ∞

STANDARD DELIVERY

- Main Unit integrated with impact device
- Test block with HLD value
- Charger
- Cleaning brush
- Certificate
- Manual
- Carrying case

OPTIONAL ACCESSORIES

- Support rings



MEASURING RANGE

Material	HLD	HRB	HRA	HRC	HB	HV	HS
Steel & cast steel	300~900	38.4~99.8	59.1~85.8	20~68.4	81~654	81.1~955	32.5~99.5
CWT.ST	300~840			20.4~67.1		80~898	
Stainless steel	300~800	46.5~101.7		19.6~62.4	85~655	85~802	
GC. Iron	360~650				93~334		
NC.Iron	400~660				131~387		
C.Alum	200~570	23.8~34.6			26.8~164		
Brass	200~550	13.5~95.3			40~173		
Bronze	300~700				60~290		
Copper	200~690				45~315		

Represented by:

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