

BEARING & TOOL CENTRE



Head Office

1st Floor, Vyapar Bhavan, Kadia Kui, **Relief Road**, Ahmedabad - 380001. **Ph:- 079 - 22160386, 65254835, 22134835 Mobile : 7819819941, 9375706649**

Ahmedabad Branch GF-B-14, Jayraj Complex, Nr. Soni ni Chawl, Odhav, Ahmedabad - 382415. Ph:- 079 - 22890202, 65458950, 65404657, 65400202 Mobile : 7878825197, 7819819938, 9375706648

Website : www.bearingtoolcentre.com, www.bearingtoolscentre.com | Email : info@bearingtoolcentre.com

Our Sister Concern : RELIEF SERVICE CENTRE

Repairs, Removal of Jaw Error, Bore Gauge Extension, Instrument Modifications & Spares

Quotation

105 Metal Hardness Tester

Make	Time	Time	Time	Time	Time	ITI	M & W
Model	TH 170 / 130 / 150	TH 132	TH 5100 (TH 130/150/170)	TH 160	TH 180	130	MHT-1
Rs.	Disconti	52500	45100	94600	43700	49990	32000
Catalog	Page – 3,4	Page - 3,4	Page – 3,4			Page No 6,7	Page No 9

105 – 1 Portable Hardness Tester Insize Make

Model	ISHL-P100	ISH-PHA-P	ISH-SPHA-P	ISH-SPHD	ISH-PHB
Rs.	44003	87221	118144	107687	90428
Catalog	Page - 11	Page – 11	Page – 13	Page – 14	Page – 14

105 – 2 Optional Work piece for Portable Hardness Tester Insize Make

Model (ISH - SPHA)	DC	С	D	D + 15	DL	G
Rs.	46186	52499	Included	145510	145510	145510
Catalog			Page	e - 13		

105 – 3 Support Rings For Portable Hardness Tester Insize Make

Model (ISH)	R1015	R14530	R2550	R1113	R12517	R16530	SR1113	SR12517	SR16530	SR1015	SR14530	RUN
Туре	Α	Α	Α	В	В	В	С	С	С	D	D	Ε
Rs.	2608	2608	2608	2608	2608	2608	2608	2608	2608	2608	2608	2608
Catalog						Pa	ge – 13					

Only Insize Products - *** Warranty -12 Months, Certificate - No

105 – 4 Metal Hardness Tester - Metrix+ @	With 10% Discount	Model	Rs	Catalog
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1	Metal Hardness Tester HL-HRC-HRB-HRA-HB-HV-HS	MI 970	38600	Page No 7
2	Metal Hardness Tester Integrated Probe HL-HRC-HRB-HRA-HB-HV-HS	'HARDMASTER"	36000	Page No 8
3	Metal Hardness Tester HL-HRC-HRB-HRA-HB-HV-HS	130	48600	Page No 8
4	Curvature Ring Set For HARDMASTER		10000	Page No 8

Terms & Conditions –

- Goods offered Subject to Prior Sale
- Price Validity: "15 Days from Date of Quotation"
- C.S.T 2% extra against form C. Otherwise 5% without form C For Out of Gujarat Sales only.
- VAT 5% extra for Sales within Gujarat. Prices Ex-Godown Ahmedabad.
- Payment against Proforma Invoice, Packing, Forwarding & Freight extra.
- Bank Detail Kotak Mahindra Bank Ltd.
- Branch Shivranjini
- Bank IFSC Code KKBK 0000 810
- Bank Account No. 08102 00000 2689
- Note While making payment online do mention your Company's name.
- TIN NO 24070901229 , CST No. 24570901229
- We are looking forward to your valued orders.

TIME MAKE

PORTABLE HARDNESS TESTER >>TH130/132/134







TH130 / TH5100

TH132

TH134 / TH5104

Features:

- Impact size, easy operation.
- Wide measuring range in HLD, direct display of converted hardness values in HB, HRB, HRC, HRA, HV, HS
- High applicability, can be used for hardness testing of most metals.
- Test at any angle even upside down.
- Optional printer TA230 available
- Easy measurements on large & heavy workpieces
- Measuring for confined spaces of large workpieces
- TH130: integrated with D impact device for normal hardness testing
- TH132: integrated with C impact device for hardness testing on thin, light and face-hardened workpieces
- TH134: integrated with DL impact device for hardness testing of deep grooves and tooth surface

Technical Specification

	TH130 / TH5100	TH132	TH134 / TH5104
Impact device	D integrated	C integrated	DL integrated
Hardness scales	HLD, HB, HRC, HRA, HV, HS	HLD, HB, HRC, HV, HS	HLDL,HB, HRC, HRB, HV, HS
Accuracy	±6HLD(760 ±30HLD)	±12HLC	±12HLDL
Memory		99 average readings	
Output		RS232 to printer	
Average Surface Roughness of Work piece	1.6µ (Ra)	0.4µ (Ra)	1.6µ (Ra) Diameter = 2.8mm
Max. Work piece Hardness	900HLD	960HLC	950HLDL
Min. radius of Work piece (convex/concave)	Rmin = 50mm (with support ring Rmin= 10mm)	Rmin = 11mm (with support rings)	Rmin = 10mm
Min. Work piece weight	2~5kg on stable support 0.05~2kg with compact coupling	0.5~1.5kg on stable support 0.02~0.5kg with compact coupling	2~5kg on stable support 0.05~2kg with compact coupling
Min. Work piece thickness coupled	5mm	1mm	5mm
Min. Thickness of hardened layers	0.8mm	0.2mm	0.8mm
Indentation depth	Impact Devices data	Impact Devices data	Impact devices data
Continuous working time	60 h	60 h	60 h
Power	Rechargeable Li-Polymer batteries	Rechargeable NiMH battery	rechargeable NiMH battery
Operating temperature	0~40□	0~40□	0~40□
Overall dimensions	155×24×55mm	155×24×55mm	210×24×55mm
Weight	180 g	175g	200g

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Standard delivery

- Main unit
- •Test block with HLD value
- Charger
- •Brush
- Protection pocket
- •TIME certificate
- Instruction manual
- •Warranty card

Optional accessories

Printer TA230Support rings



Time TH170 / TH5100 Portable Hardness Tester



Item Code: TH-170 / TH5100

USB communication interface, Automatic identification of Impact test direction, Memory of 270 average data in 9 group files, Upper and lower limit setting. Other features are as follows:

- Automatically switch off
- Back light for convenient use in darkness
- Software calibration
- Battery capacity display
- AAA 1.5V battery
- Computer software available.

TIME Group Inc.

Integrated Portable Hardness Tester TH130



Materials & Measuring Range TH130 (HL:200-900)

Material	HRC	HRB	HRA	HB	HV	HS
Steel & cast steel	20-68	60-100	59-86	93-674	83-976	32-100
Cold work tool st.	20-67	10 100			80-898	
Stainless steel	20-62	46-100		85-655	85-802	
Grey cast iron				93-334		
Nodular cast iron				131-387		
Cast aluminun alloys	5			27-159		
Copper/Zinc alloys (brass)		13-95		40-1.73		
CuAI/CuSn alloys (bronze)				60-290		
Wraught copper alloys				45-315	information and	

Support Rings

On curved surfaces having a radius of under 30mm, effective positioning on the workpiece is facilitated by the use of support rings (set of 7). The appropriate support ring is screwed on to the end of the impact device in place of the standard flat support ring. The set includes support rings suitable for bar/tube and grooves up to a radius of 11mm.

Special support rings for convex or concave surfaces can be manufactured.

TH130 comes complete with a testblock, plastic case, charger and instruction manual.

ITI MAKE

Model ITI – 130 – Metal hardness Tester



Portable hardness tester ITI – 130

Large memory Palm size for narrow space Manual or automatic shut down LCD with back light

Applications

- * Die cavity of molds
- * Inspection of bearing and other mass produced parts on a production line
- * Failure analysis of pressure vessel, steam generator and other equipment
- * Inspection of installed machinery, permanent parts of assembled systems and heavy work pieces.
- * Testing surface of a small hollow space
- * Material identification in the warehouse of metallic materials
- * Rapid testing in large range and multi-measuring areas for large-scale work piece

Main Features

- * Palm size for narrow space.
- * Test at any angle, even upside down.

* Direct display of hardness scales HRB, HRC, HV, HB, HS, HL.

- * Large memory could store 250 groups including single measured value, impact direction, material and hardness scale etc.
- * User recalibration function allowed.
- * Can communicate with PC computer for statistics and printing by cable.
- * Manual or automatic shut down.
- * Low battery indication.



Leeb Hardness Tester Mod: MI-970

Typical Applications

* Die cavity of molds

* Inspection of bearing and other mass produced parts on a production line

* Failure analysis of pressure vessel, steam generator and other equipment

- * Inspection of installed machinery, permanent parts of
- assembled systems and heavy work pieces.
- * Testing surface of a small hollow space
- * Material identification in the warehouse of metallic materials
- * Rapid testing in large range and multi-measuring areas for
- large-scale work piece

Testing Features

- * Small in size for narrow space.
- * Test at any angle, even upside down.
- * Direct display of hardness scales HRB, HRC, HV, HB, HSD, HL.
- * Memory could store 50 groups including single measured value, impact direction, material and hardness
- scale etc.
- * User recalibration function allowed.
- * Can communicate with PC computer for statistics and printing by the optional cable.
- * Manual or automatic shut down.
- * Low battery indication.

Technical Specifications

- *Display: Large LCD with back light
- *Accuracy: Display error ±0.8% at LD=970
- *Measuring range: 170-970L
- *Conversion: HL-HRC-HRB-HB-HV-HSD
- *Materials: 9 different common materials
- *Memory: 50 Groups Including Single
- *Impact device: D Will handle the majority of hardness testing
- applications.
- *Power supply: 2x1.5V AA size battery
- *Dimension: 146×65×36mm
- *Weight: 130g (not including batteries)
- *Working temperature : 10°C~ + 50°C
- *Storage temperature : 30°C~+ 50
- *Standard Accessories: Impact Device D, Test Block, Small Ring,
- Cleaning Brush, Manual & Carry Case.
- *Optional Accessories: RS 232C+ Software, Support Ring Set,
- Irregular Impact Device, B Nylon Brush,





Leeb Hardness Tester "HARD MASTER"



Typical Applications & Testing Features:

- * Die cavity of molds.
- * Inspection of bearing and other mass produced parts on a production line.
- * Failure analysis of pressure vessel, steam generator and other equipment.
- * Inspection of installed machinery, permanent parts of assembled systems and heavy work pieces.
- * Testing surface of a small hollow space.
- * Material identification in the warehouse of metallic materials.
- * Rapid testing in large range and multi-measuring areas for large-scale work piece.
- * Palm size for narrow space.
- * Test at any angle, even upside down.
- * Direct display of hardness scales HRB, HRC, HV, HB, HSD, HL.
- * Large memory could store 250 groups including single measured value, impact direction, material and hardness scale etc.
- * User recalibration function allowed.
- * Can communicate with PC computer for statistics and printing by the optional cable.
- * Manual or automatic shut down.
- * Low battery indication.

Model Specification	Metrix+ "HARD MASTER	Metrix+ 130		
Display	14mm LCD with back light	Matrix LCD 128*64dot Back light		
Measuring Range	200~900L	170-960HLD		
Accuracy	Display error ±0.8% at LD=900	±10HLD		
Test Direction	360°(plumb down,down,ho	prizontal, indined up, plumb up)		
Conversion	HL-HRC-HRE)-HRA-HB-HV-HS		
Materials	9 different co	ommon materials		
Impact Device	D Will handle the majority of hardness testing			
Memory	250 data can be stored	500 data can be stored		
PC Connectivity	RS 232C	USB		
Re-Calibration	Allowed	Allowed		
Power	2 X 1.5V "AAA"Battery	4 X 1.5 "AA" Alkaline Battery		
APO	N	1		
Low Battery Indication	ا	4		
Weight & Dimension	146*65*36mm 130g.	150*80*38am 360g.		
Operating Temperature	0°C~ + 50°C	0°C ~ + 50°C		
Storage Temperature	-20°C ~ + 60°C	-20°C ~ + 70°C		
Accessories Include	D type Impact Device, Standard Leeb Hardness Block, A nylon Brush, Support ring, PC Interface Data cable, software CD, Manual & Aluminum Carry case			
Optional Accessories	B Nylon Brush, Irregular Type Impact Device and Support ring			



M&W MAKE

Portable Metal Hardness Tester

MHT-1



Accuracy: Display error ±0.8% at HLD=900 Measuring range: 200-900HLD Conversion: HLD-HRC-HRB-HB-HV-HSD Materials: 9 different common materials Memory: 250 data can be stored and re-readable Impact device: D Will handle the majority of hardness testing applications. Working temperature: 0°C~+40°C Storage temperature: -30°C~+60°C; Relative humidity: ≤90% Standard Accessories:

Main unit1	pcs
Standard test block1	pcs
Small support ring1	pcs
Manual1	pcs
Carrying case1	lpcs
Cleaning brush1	lpcs

Optional Accessories:

- 1. RS232C or USB cable+Software 2. Other type of impact devices and support rings
- 3. Impact body



ATTENTION:

BASIC MODEL

Portable Metal Hardness Tester



Portable Metal Hardness Tester

Product Code	Mfg. Code
191471119	MHT - 1

INSIZE MAKE

PORTABLE LEEB HARDNESS TESTER CODE ISHL-P100



- Supplied with impact device D
- Set measurement times (1~32) to have average value
- Based on Leeb(HLD), converted to Vickers(HV), Brinell(HB), Rockwell(HRC and HRB), Shore(HS) and tensile strength(MPa)
- Memory of 100 measurement values for browsing
- Automatic power off

SPECIFICATION

Min. reading	1HLD, 1HV, 1HB, 0	0.1HRC, 0.1HRB, 1HS, 1MPa		
Accuracy	±8HLD (when HLD=760±30)			
Display	Leeb, conversion hardness, material, impact direction, test times, average value, time			
		5kg		
	minimum weight	2kg (on solid support)		
Applicable worksisse		0.1kg(coupled on plate)		
Applicable workpiece	minimum thickness: 5mm			
	minimum radius of curved surface: 11mm			
	maximum roughness(Ra): 1.6µm			
Power supply	3×AAA batteries			
Dimension	155×72×27mm			
Weight	280g			

STANDARD DELIVERY

Main unit	1pc	
Impact device D	1pc	
Hardness test block D	1pc	
Small support ring	1pc	
Cleaning brush	1pc	

OPTIONAL ACCESSORY

Couplant	ISH-COUPLANT
Hardness test block D	ISHL-P100-BLOCK
Support rings	

APPLICABLE MATERIAL AND HARDNESS RANGE FOR IMPACT DEVICE D

Material	HLD	HV	HB	HRC	HRB	HS	Tensile strength(MPa)
Steel & cast steel	300-900	81-955	81-654	20-68	38-100	32-100	375-2639
Tool steel	300-840	80-898		20-67			
Stainless steel	300-800	85-802	85-655		46-101		
Cast iron	360-650		93-334				
Cast aluminum alloy	170-570		19-164		23-84		
Brass	200-550		40-173		13-95		
Bronze	300-700		60-290				
Copper	200-690		45-315				

PORTABLE HARDNESS TESTER CODE ISH-PHA*



- Supplied with impact device D
- Based on Leeb(HLD), converted to Vickers(HV), Brinell(HB), Rockwell(HRC and HRB), Shore(HS) and tensile strength(MPa)
- Connected with printer via bluetooth
- LCD display with backlight
- Automatic power off
- According to ASTM A956



SPECIFICATION

Min. reading	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa					
Accuracy	±6HLD(when HLD=800)					
Display	Leeb(HLD), converted hardness, material, impact direction, test times, average value, date					
Output	bluetooth					
		5kg				
	minimum weight	2kg (on solid support)				
Annilashiawashalasa		0.1kg(coupled on plate				
Applicable workpiece	minimum thickness: 5mm					
	minimum radius of curved surface: 11mm					
	maximum roughness(Ra): 1.6µm					
Power supply	3×AAAbatteries					
Dimension	150 × 80× 24mm					
Weight	200g					

STANDARD DELIVERY

Main unit	1pc
Impact device D	1pc
Printer	1pc
Hardness test block	1pc
Small support ring	1pc
Cleaning brush	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORY

Supportrings	page S10
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APPLICABLE MATERIAL AND HARDNESS RANGE FOR IMPACT DEVICE D

Material	HLD	HV	HB	HRC	HRB	HS	Tensile strength(MPa)
Steel & cast steel	300-900	81-955	81-654	20-68	38-100	32-100	375-2639
Tool steel	300-840	80-898		20-67			
Stainless steel	300-800	85-802	85-655		46-101		
Castiron	360-650		93-334				
Cast aluminum alloy	170-570		19-164		23-84		
Brass	200-550		40-173		13-95		
Bronze	300-700		60-290				
Copper	200-690		45-315			2	

*Add suffix on code No. to devote AC voltage and plug (refer to page V1)



- Based on Leeb (HL), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Connected with printer via bluetooth
- Connected with computer via USB port
- Up to 800 test results can be saved
- Low and high limits with judgement
- Touch screen operation, large display with backlight Language: English, Chinese, Italian, German, French
- and Portuguese Automatic power off
- According to ASTM A 956

PORTABLE LEEB HARDNESS TESTER CODE ISH-SPHA

included

printer

hardness test block D

small support ring



SPECIFICATION

SPECIFICATION		
Min. reading	1HL, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa	
Accuracy	±6HL (when HL=800)	
Display	Leeb(HL), converted hardness, material, impact direction, test times, average value, deviation, time	
Output	bluetooth and USB	
Power supply	built-in rechargeable battery	
Dimension	135×83×24mm	
Weight	350g	

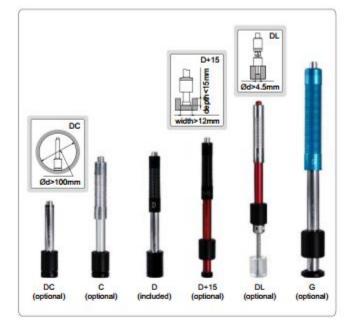
STANDARD DELIVERY

Main unit	1pc
Impact device D	1pc
Printer	1pc
Hardness test block D	1pc
Small support ring	1pc
Cleaning brush	1pc
AC/DC adapter	1pc
USB cable and software disc	1pc
Pen for touch screen	1pc

OPTIONAL ACCESSORY

Impact device DC	ISH-SPHA-DC
Impact device C	ISH-SPHA-C
Impact device D+15	ISH-SPHA-D15
Impact device DL	ISH-SPHA-DL
Impact device G	ISH-SPHA-G
Hardness test block D*	ISH-BHLD
Hardness test block G*	ISH-BHLG
Couplant	ISH-COUPLANT
Support rings	see details

* Hardness test block G (ISH-BHLG) is for impact device G (ISH-SPHA-G). Hardness test block D (ISH-BHLD) is for all others impact devices.



APPLICABLE WORKPIECE

Impact device		DC	C	D	D+15	DL	G
Application		inner wall of small space	small or thin workpiece, coating layer	general use	deep groove	narrow slot or small hole	casting or forging workpiece
Maximum roughne	ss of workpiece (Ra)	1.6µm	0.4µm	1.6µm	1.6µm	1.6µm	7µm
	direct measurement	5kg	1.5kg	5kg	5kg	5kg	15kg
Minimum weight of workpiece	on solid support	2kg	0.5kg	2kg	2kg	2kg	5kg
of workpiece	coupled on plate	0.1kg	0.02kg	0.1kg	0.1kg	0.1kg	0.5kg
Minimum thicknes	s of workpiece	5mm	1mm	5mm	5mm	5mm	10mm



PORTABLE LEEB HARDNESS TESTER CODE ISH-SPHD

Impact device D

- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), . Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Automatic direction correction .
- Connected with printer via bluetooth .
- Connected with computer via USB port . Up to 500 test results can be saved
- According to ASTM A 956

SPECIFICATION

Min. reading	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS					
Accuracy	±6HLD (when HLD=800)					
Output	USB and bl	USB and bluetooth				
		5kg (direct measurement)				
	minimum weight	2kg (on solid support)				
Applicable workpiece	weight	0.1kg (coupled on plate)				
	minimum thickness: 5mm					
	minimum ra	adius of curved surface: 30mm				
	maximum r	oughness (Ra): 1.6µm				
Power supply	built-in rech	built-in rechargeable battery				
Dimension	147×35×22	147×35×22mm				
Weight	65g					

APPLICABLE MATERIAL AND HARDNESS RANGE FOR IMPACT DEVICE D

Material	HLD	HV	HB	HRC	HRB	HS
Steel & cast steel	300-900	81-955	81-654	20-68	38-100	32-100
Tool steel	300-840	80-898		20-67		
Stainless steel	300-800	85-802	85-655		46-101	
Cast iron	360-650		93-334			
Cast aluminum alloy	170-570		19-164		23-84	
Brass	200-550		40-173		13-95	
Bronze	300-700		60-290			
Copper	200-690		45-315			

setting select test result test times total times 052 USB port on/off print

STANDARD DELIVERY

Main unit	1pc
Printer	1pc
Hardness test block D	1pc
Small support ring	1pc
Cleaning brush	1pc
AC/DC adapter	1pc
USB cable and software disc	1pc

OPTIONAL ACCESSORY

Connected with printer via bluetooth

 Automatic power off According to ASTM A 956

SPECIFICATION

Couplant	ISH-COUPLANT
Support rings	see details
Hardness test block D	ISH-BHLD

Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB),

Memory of 99 measurement values for browsing

Set measurement times (1~9) to have average value

Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)

PORTABLE LEEB HARDNESS TESTER CODE ISH-PHB



STANDARD DELIVERY

Main unit	1pc
Impact device D	1pc
Hardness test block D	1pc
Small support ring	1pc
Cleaning brush	1pc

OPTIONAL ACCESSORY	
Wireless printer	ISH-DS-PRINTER
Couplant	ISH-COUPLANT
Support rings	see details
Hardness test block D	ISH-BHLD



included

printe

hardnes test block D

small support ring



hardness test block D (included)



(included)



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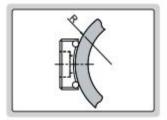
Min. reading 1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa Accuracy ±6HLD (when HLD=800) Leeb (HLD), converted hardness, material, Display impact direction, test times, average value, date bluetooth Output 5kg minimum 2kg (on solid support) weight 0.1kg (coupled on plate) Applicable

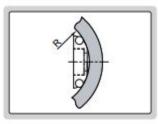
		minimum unokness. Jimm
		minimum radius of curved surface: 30mm
		maximum roughness (Ra): 1.6µm
	Power supply	3×AAA batteries
1.2	Dimension	150×84×28mm
	Weight	200g

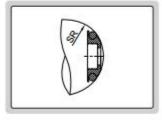
Material	HLD	HV	HB	HRC	HRB	HS	Tensile strength (MPa)
Steel & cast steel	300-900	81-955	81-654	20-68	38-100	32-100	375-2639
Tool steel	300-840	80-898		20-67			
Stainless steel	300-800	85-802	85-655		46-101		
Cast iron	360-650		93-334				
Cast aluminum alloy	170-570	1	19-164		23-84		
Brass	200-550	8	40-173	2	13-95		
Bronze	300-700		60-290				
Copper	200-690	1	45-315		l i		

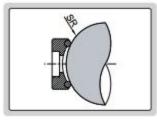
SUPPORT RINGS FOR PORTABLE HARDNESS TESTER

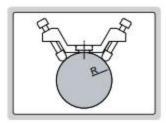












SPECIFICATION

Code	Туре	Applicable workpiece	Range (mm)
ISH-R1015			R10-15
ISH-R14530	A	cylindrical outside surface	R14.5-30
ISH-R2550			R 25 - 50
ISH-R1113			R11-13
ISH-R12517	в	cylindrical inside surface	R12.5-17
ISH-R16530			R16.5-30
ISH-SR1113		spherical inside surface	SR11-13
ISH-SR12517	С		SR12.5-17
ISH-SR16530			SR16.5-30
ISH-SR1015	D	spherical outside surface	SR10-15
ISH-SR14530	U	spherical outside surface	SR14.5-30
ISH-RUN	E	cylindrical outside surface	R>10

ITI MAKE

New Generation Technology Portable Digital Hardness Tester - ITI-130

Fully Automatic Flexible, Rigid And Rapid The Most Ability The Least Restriction Monolith, Yellow Parts



ITI-130

This device is built after two decades research and experience and disappears more limitations of conventional leeb devices and has

developed portable hardness tester power range .

This device has new ability by electromagnetic shooting and infrared velocity measurement and eliminates mechanical parts.

Applications:

Hardness testing of raw material Hardness testing of heavy and light pieces Hardness testing of metal pipes and CNG tanks N.D.T Testing Hardness testing of welding joints Hardness testing at production process Hardness testing of building structures and fuel pipes

Properties:

Hardness test without complex setting Capability of testing more Alloys Showing hardness result on HLD-HRC-HRB-HB-HV-HSC Memory for 3000(approx.)test and USB port transferring Calibration by standard block and user Softwere user calibration Small and light weight with Poly Carbonate rigid case

Technical Specification:

Measuring Direction	360°
Display	LCD
Data Memory	500 Readings Approx.
Battery Pack	800^ 1600 mAH Li-ion 3.7V
Battery Charger	USB type
Continuous working period	3000-4000 Test Approx.
Communication Interface	USB1





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Monolith Operation

Probe Separating ability

Low Alloy Steel

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ITI-130 probe

80-647 Brinell

Indenter 1.5 gr	Indenter 2.5 gr	Properties
H 30mm* x W 6	Dimention	
+4 HLD (0.5%	at 800 HLD)	Measument Accuracy
Li-Polymer 1Ah 3.7 V 5	Battery & Consumption	
+1 HI	D Resolution	
2	200 grm*	Weight
15mm (Flat)	22mm (Flat)	Mini work Piece Thickness
5mm (pipe) 15mm (Pipe)		Mini work Piece Weight
Min i Thickness	0.5mm	

Compare Table:

	Conventional Leeb	111-130
Test Speed	Few Seconds	Sub Second
Work Piece Weight	1000 grm Mini.	200 grm Mini.
Work Piece Thickness	30 mm Mini.	15 grm Mini, (4mm)* Pipe Form
Prob Dimensions	More Bigger	15*45mm
Operation	Handy	Automatic
Indenter Durability	Approx 3000 tests	1 Lakh Tests Approx.
Error in Magnetic Piece	Yes	No
User Calibration	No	Yes
Battery Charging Time	4-5hrs	30 mini to 1 hrs.

80-940 Vickers 41-99.5 Rockwell B 0-68.0 Rockwell C High Alloy Steel 300-840 Leeb 80-898 Vickers 20.4-67.1 Rockwell C Cast Iron 360-650 Leeb 93-334 Brinell CCC 400-658 Leeb 25-198 Brinell Brass 200-550 Leeb 40-173 Brinell Copper 200-690 Leeb 45-315 Brinell

200-900 Leeb



Accessories: Standard reference block Battery charger convex and concave Heads and cleaning brush Hand bag Manuals Equation table (ASTM - A956) Software CD Calibration Certificate

Technical Specifications & Designs are subject to change without any prior notice