

ULTRASONIC HARDNESS TESTER CODE ISHU-330

SPECTION ERTIFICATE

DATA

OUTPUT

Application:

- 1. For steel material
- Test surface hardening layers (carburized, nitriding, high frequency hardened, etc.)
 Suitable for arc and conical surface

ATTENTION: HARDNESS BLOCKS

FOR CALIBRATION ARE OPTIONAL

- 4. Suitable for small or light workpieces
- 5. Test large workpieces at any direction
- 6. Suitable for rough surfaces





test cylinder surfaces

(use V-groove on the cover)

ATTENTION: NEED TO CONFIRM IF THE

WORKPIECES ARE SUITABLE BEFORE PURCHASE

test flat surfaces (with the cover)

- Small test indentation Test force and time are not affected by the operator
- Quick testing, only 2 seconds
- Average and statistics test modes Memory of 1024 test results for browsing and output
- Automatic power off
- Anti-dust and waterproof

SPECIFICATION OF MAIN UNIT

Hardness scale		HV, HB, HRC, MPa			
Range		100~940HV, 80~650HB, 20~70HRC, 370~1740MPa			
Resolution		1HV, 1HB, 0.1HRC, 1MPa			
	НВ	±3%			
Accuracy	HV	±3%			
	HRC	±1.5%			
Data output		USB			
Operation ter	nperature	-20°C ~ +40°C			
Power supply		built-in rechargeable battery			
Dimension of main unit		120×60×25mm			
Weight of ma	in unit	200g			

STANDARD DELIVERY

Main unit	1 pc
Probe A	1 pc
Rechargeable battery	2 pcs
Charger	1 pc
Software and USB cable	1 pc

SPECIFICATION OF PROBE

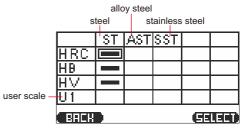
Туре	A (standard)	B (optional)	
Test force	50N	10N (small force)	
Application	general use	plating	
Maximum roughness of workpieces (Ra)	2.5µm	1.5µm	
Minimum weight of workpieces (direct measurement)	0.1kg *	0.1kg*	
Minimum thickness of workpieces (direct measurement)	1mm *	1mm *	
Minimum radius of workpieces	5mm	5mm	
Minimum thickness of surface hardening layer or plating	0.1mm	0.03mm	
Minimum test area	Ø1mm	Ø1mm	
Dimension and weight of probe	140ר37mm, 271g	145ר37mm, 271g	

*If the weight or thickness of workpieces is less than required, the workpieces should be fixed or coupled on solid support.





(included)



select the material and scale, use the corresponding standard hardness blocks or workpieces for calibration (calibration of HRC, HB and HV for steel are already made, calibration is needed before use other materials and scales)

Probe B	ISHU-460-B
Couplant	ISH-COUPLANT
Hardness block HRC20~30	HDT-B-HRC1
Hardness block HRC35~55	HDT-B-HRC2
Hardness block HRC60~70	HDT-B-HRC3
Hardness block 200~300HV5	HDT-B-HV5B
Hardness block 400~500HV5	HDT-B-HV5D
Hardness block 700~750HV5	HDT-B-HV5G
Hardness block 90~200HBW10/1000	HDT-B-HB10C1
Hardness block 200~300HBW10/3000	HDT-B-HB10A2
Hardness block 400~500HBW10/3000	HDT-B-HB10A4



PORTABLE LEEB HARDNESS TESTER APPLICABLE MATERIAL AND HARDNESS RANGE OF 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 LEEB HARDNESS TESTER **CODE ISH-PHB**



Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa) Memory of 99 measurement values for browsing

- Set measurement times (1~9) to have average value
- Connected with printer via bluetooth
- Automatic power off, according to ASTM A 956



small support ring (included)



wireless printer (optional)

SPECIFICATION

SF LOILICATION				
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			
	minimum weight	5kg		
		2kg (on solid support)		
Applicable		0.1kg (coupled on plate)		
workpiece	minimum thickness: 5mm			
	minimum radius of curved surface: 30mm			
	maximum roughness (Ra): 1.6µm			
Power supply	3×AAA batteries			
Dimension	150×84×28mm			
Weight	200g			

STANDARD DELIVERY

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

Wireless printer	ISH-DS-PRINTER		
Couplant	ISH-COUPLANT		
Support rings	refer to details		
Hardness test block D	HDT-B-HLD3		







PORTABLE LEEB HARDNESS TESTER **CODE ISH-SPHA**





- 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
- Tolerance testing
- Touch screen operation, large display with backlight Language: English, Chinese, Italian, German,
- French and Portuguese
- Automatic power off
- According to ASTM A 956

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

ISIZE-

781 110 4

781 HLD

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

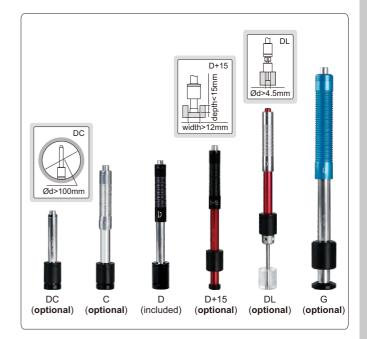
Impact device DC	ISH-SPHA-DC
Impact device C	ISH-SPHA-C
Impact device D+15	ISH-SPHA-D15
Impact device DL	ISH-SPHA-DL
Impact device G	ISH-SPHA-G
Hardness test block D *	HDT-B-HLD3
Hardness test block G *	HDT-B-HLG2
Couplant	ISH-COUPLANT
Support rings	refer to details

* Hardness test block G (HDT-B-HLG2) is for impact device G (ISH-SPHA-G).

Hardness test block D (HDT-B-HLD3) is for all others impact devices.

APPLICABLE WORKPIECE

Impact device		DC	С	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 roughness of workpiece (Ra)		1.6µm	0.4µm	1.6µm	1.6µm	1.6µm	7µm
B.81. 1.	direct measurement	5kg	1.5kg	5kg	5kg	5kg	15kg
Minimum weight of workpiece	on solid support	2kg	0.5kg	2kg	2kg	2kg	5kg
coupled on plate		0.1kg	0.02kg	0.1kg	0.1kg	0.1kg	0.5kg
Minimum thickness of workpiece		5mm	1mm	5mm	5mm	5mm	10mm





-INSIZE





hardness test block D (included)



small support ring (included)



printer (included)

PORTABLE LEEB HARDNESS TESTERS (BASIC TYPE)

Can change probes

+INSIZE

- Dual-coil probe for high accuracy
- Universal testing angle, no need to set impact direction
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC, HRA and HRB), Shore (HS) and tensile strength (SGM)
- Dual value display, shows both Leeb and converted hardness Large LCD display with backlight
- Can choose large font display and statistics display Automatically calculate maximum, minimum and average value
- Save 300 data
- Operation temperature: -10°C~45°C
- According to ASTM A956, DIN 50156, GB/T 17394

SPECIFICATION

Code	HDT-LP200 HDT-LP200B		
Printer	not included	included	
Output	-	bluetooth	
Resolution	1HLD/1HV/1HB/0.1HRC/0.1HRB/ 0.1HRA/0.1HS/1SGM		
Accuracy	±6HLD (when HLD=800)		
Measuring range	HL 100-960/HRC 0.9-79.2/HRB 1-140/ HB 1-1878/HV 1-1698/HS 0.5-1370/ HRA 1-88.5/SGM (rm) 1-6599N/mm ²		
Power supply	2xAA battery		
Dimension	127×67×30mm		
Weight	240g		

STANDARD DELIVERY

Main unit	1 pc
Hardness test block D	1 pc
Small support ring	1 pc
Cleaning brush	1 pc
Impact device D	1 pc
Printer (included in HDT-LP200B)	1 pc

OPTIONAL ACCESSORY

Impact device DC	HDT-LP200-DC
Impact device C	HDT-LP200-C
Impact device D+15	HDT-LP200-D15
Impact device DL	HDT-LP200-DL
Impact device E [*]	HDT-LP200-E
Impact device G	HDT-LP200-G
Hardness test block D **	HDT-B-HLD3
Hardness test block G **	HDT-B-HLG2
Support rings	refer to details

*Impact device E (HDT-LP200-E) must be purchased together with the main unit.

**Hardness test block G (HDT-B-HLG2) is for impact device G (HDT-LP200-G).

Hardness test block D (HDT-B-HLD3) is for all others impact devices.







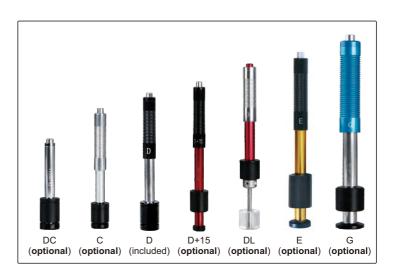
small support ring (included)



wireless printer (included in HDT-LP200B)

HDT-LP200





APPLICABLE WORKPIECE

Impact device		DC	С	D	D+15	DL	E	G
Application		inner wall of small space	small or thin workpiece, coating layer	general use	deep groove	narrow slot or small hole	very hard material	casting or forging workpiece
Maximum roughne	ss of workpiece (Ra)	2µm	0.4µm	2µm	2µm	2µm	2µm	7µm
	direct measurement	5kg	1.5kg	5kg	5kg	5kg	5kg	15kg
Minimum weight of workpiece	on solid support	2kg	0.5kg	2kg	2kg	2kg	2kg	5kg
of Hompicoc	coupled on plate	0.05kg	0.02kg	0.05kg	0.1kg	0.05kg	0.05kg	0.5kg
Minimum thicknes	s of workpiece	3mm	1mm	3mm	3mm	3mm	3mm	10mm





 Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC, HRA and HRB),

Automatic power off, automatic calculation of statistics

Connected to PC software via USB or Bluetooth 2.0

10:28:2

According to ASTM A956, DIN 50156, GB/T 17394

dynamic ring display

M1

555

Dual value display, shows both Leeb and other conversion values

hardness

scale

max

value

material

test value

software (included), upload the memory to PC, print and send to EXCEL

31 files can be saved, each containing 100 measurement data

Shore (HS) and tensile strength (SGM)

 Connected with printer via Bluetooth Operation temperature: -20°C~70°C

bluetooth mode

4

420

-1

impact direction

upload the memory to PC software via USB cable or Bluetooth



Metal housingHD TFT 320×320 display

Four display modes

Tolerance testing

impact

device

min

value

Automatic direction correction

Impact device D

PORTABLE LEEB HARDNESS TESTER (HIGH ACCURACY) CODE HDT-L410



hardness test block D (included)



statistic display

230

standard deviation

send the stored data to EXCEL

test value

max. value

min. value

average

small support ring (optional) (included)

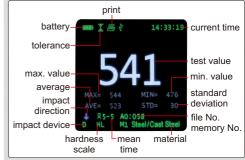
hardness scale



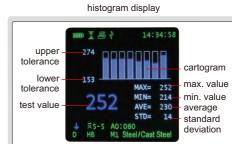


7/////

can choose large font display







SPECIFICATION

Resolution	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 0.1HRA, 0.1HS, 1SGM		
Accuracy	±4HLD (when HLD=800)		
Output	USB and bluetoo	th	
	minimum	5kg (direct measurement)	
	weight	2kg (on solid support)	
Applicable	Wolgin	0.05kg (coupled on plate)	
workpiece	minimum thickness: 5mm minimum radius of curved surface: 30mm		
	maximum roughness (Ra): 2µm		
Power supply	built-in 3.7V rechargeable battery		
Dimension	148×44×22mm		
Weight	115g		

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

Printer	HDT-L410-PRINTER
Support rings	refer to details
Hardness test block D	HDT-B-HLD3
DL probe	HDT-L410-DL



PORTABLE LEEB HARDNESS TESTER (BASIC TYPE) CODE HDT-L411







software CD (included)



hardness test block D (included)



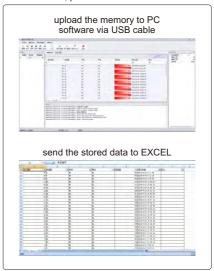
small support ring (included)



can choose large font display test value



software (included), upload the memory to PC, print and send to EXCEL



Impact device D

- Universal testing angle, no need to set impact direction
- Dual-coil probe, high accuracy
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Dual value display, shows both Leeb and converted hardness
 High contrast digital LCD display

- Can choose large font display
- Automatically calculate maximum, minimum, average value
- Connected to PC via USB
- Save 999 data
- Operation temperature: -20°C~45°C
- According to ASTM A956, DIN 50156, GB/T 17394

SPECIFICATION

Resolution	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 0.1HRA, 0.1HS, 1SGM		
Accuracy	±6HLD (when HLD=8	±6HLD (when HLD=800)	
Output	USB		
Measuring range	HL100-960, HRC1-74.7, HRB1.2-140, HB28-1027, HV45-1230, HS4-112, HRA7-88.5, SGM (rm) 118-3315N/mm²		
		5kg (direct measurement)	
	minimum weight	2kg (on solid support)	
Applicable		0.05kg (coupled on plate)	
workpiece	minimum thickness: 5mm		
	minimum radius of curved surface: 30mm		
	maximum roughness (Ra): 2µm		
Power supply	1xAAA battery		
Dimension	148×45×21mm		
Weight	105g		

STANDARD DELIVERY

Main unit	1 pc
Hardness test block D	1 pc
Cleaning brush	1 pc
AAA battery	1 pc
Small support ring	1 pc
Software disc and USB cable	1 pc

Support rings	refer to details
Hardness test block D	HDT-B-HLD3

SUPPORT RING SET FOR PORTABLE LEEB HARDNESS TESTER **CODE ISH-PH-SP9**



type A



3	*
	9







Range (mm)

R10-15

R14.5-30 R25-50 R11-13

R12.5-17

R16.5-30 SR11-13

SR12.5-17

SR16.5-30 SR10-15

SR14.5-30

R>10













Applicable workpieces

cylindrical outside surface

cylindrical inside surface

spherical inside surface

spherical outside surface

cylindrical outside surface



























3 pcs

3 pcs

3 pcs

2 pcs

1 pc



type C

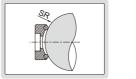


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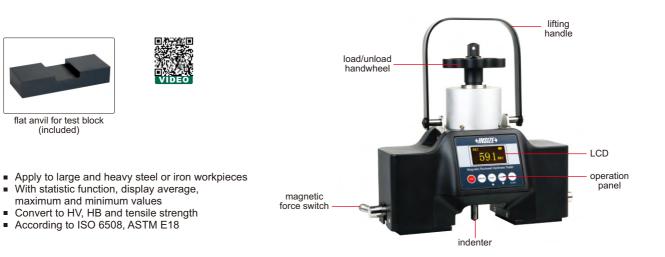








DIGITAL MAGNETIC ROCKWELL HARDNESS TESTER CODE ISHR-D121



SPECIFICATION

Hardness scale	HRA, HRB, HRC
Preliminary test force	10kg
Test force	60kg, 100kg, 150kg
Load control	manual
Min. reading	0.1HR
Flat workpiece requirement	length>190mm, width>60mm, thickness>5mm
Cylinder or tube workpiece requirement	length>200mm, diameter>Ø50mm, wall thickness>8mm
Power supply	3×AAA batteries
Dimension	245×105×230mm
Weight	5.3kg

STANDARD DELIVERY

Main unit	1 pc
Flat anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Hardness test block HRB85~95	1 pc
Hardness test block HRC60~70	1 pc
Hardness test block HRC20~30	1 pc

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SPECIFICATION

Туре

А

В

С

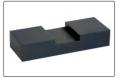
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MAGNETIC ROCKWELL HARDNESS TESTER CODE ISHR-M111

- Apply to large and heavy steel or iron workpieces
- According to ISO 6508, ASTM E18





flat anvil for test block (included)

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	10kg
Test force	60kg, 100kg, 150kg
Load control	manual
Min. reading	1HR
Flat workpiece requirement	length>180mm, width>60mm, thickness>5mm
Cylinder or tube workpiece requirement	length>180mm, diameter>Ø50mm, wall thickness>8mm
Dimension	220×70×220mm
Weight	4.7kg

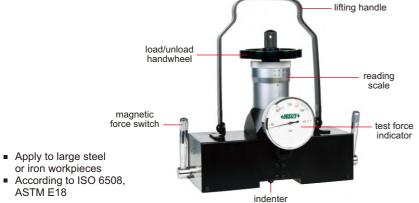
magnifier with LED (included)



STANDARD DELIVERY

Main unit	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	2 pcs
Hardness test block HRB85~95	1 pc
Hardness test block HRC60~70	1 pc
Hardness test block HRC20~30	1 pc
Flat anvil	1 pc
Support	4 pcs
Magnifier with LED	1 pc

MAGNETIC BRINELL/ROCKWELL HARDNESS TESTER CODE ISHR-B141



ASTM E18

SPECIFICATION

Rockwell scale	HRA, HRB, HRC, HRD, HRF, HRG
Brinell measuring range	20~650HBW
Rockwell test force	10kg preload, 60kg, 100kg, 150kg total load
Brinell test force	62.5kg, 125kg, 187.5kg
Load control	manual
Min. Rockwell reading	1HR
Measuring microscope	40X, graduation 0.01mm
Flat workpiece requirement	length>180mm, width>60mm, thickness>5mm
Cylinder and tube workpiece requirement	length>180mm, diameter>Ø50mm, thickness>8mm
Dimension	220×70×220mm
Weight	4.7kg



flat anvil for test block (included)



magnifier with LED (included)

STANDARD DELIVERY	
Main unit	1 pc
Flat anvil	1 pc
Support	4 pcs
Diamond Rockwell indenter	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Ø2.5mm Brinell indenter	1 pc
Hardness test block HRB85~95	1 pc
Hardness test block HRC60~70	1 pc
Hardness test block HRC20~30	1 pc
Brinell test block	1 pc
Measuring microscope	1 pc
Magnifier with LED	1 pc





supports for cylinder or tube workpieces (included)



measuring microscope (included)

PORTABLE ROCKWELL HARDNESS TESTER

load/unload

handwheel

reading scale

magnifier

indente

test force indicator

handle

CODE ISHR-P151

base (included)

-MSIZ



anvil extension for thin workpieces (included)





flat anvil (included)

V-type anvil (included)

According to ISO 6508, ASTM E18

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	10kg
Test force	60kg, 100kg, 150kg
Load control	manual
Min. reading	1HR
Max. workpiece thickness	25mm
Max. testing width	25mm (from the center of indenter to the main body)
Dimension	240×70×160mm
Weight (with base)	2.5kg

STANDARD DELIVERY

Main unit	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	2 pcs
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
Flat anvil	1 pc
V-type anvil	1 pc
Base	1 pc
Anvil extension	1 pc
Magnifier	2 pcs

PIN BRINELL HARDNESS TESTER



- Measure Brinell hardness of large and heavy workpieces
- 1580kg test force and Ø7.26mm ball indenter, equal to 3000kg test force and Ø10mm ball indenter
- Static and impact test modes
- According to ISO and ASTM standard



SPECIFICATION







indenter

flat anvil

-

static test clamp

measuring microscope (included)

11

load

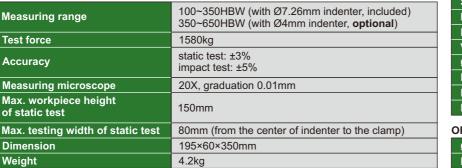
wrench

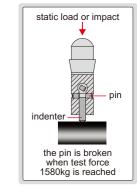
pins (included) V-type anvil (included)

handle

indenter

impact test handle





CODE ISHB-P101

Static test clamp	1 pc
Impact test handle	1 pc
Flat anvil	1 pc
V-type anvil	1 pc
Ø7.26mm indenter	1 pc
Hardness test block	1 pc
Pin	250 pcs
Measuring microscope	1 pc

Ø4mm indenter	ISHB-P101-INDENTER
Pin (250 pcs)	ISHB-P101-PIN





HAMMER IMPACT BRINELL HARDNESS TESTER CODE HDT-PB350



hammer impact to apply test force

SPECIFICATION

Test force

Accuracy

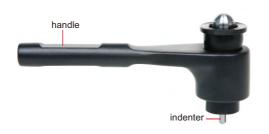
Repeatability

Dimension

Weight

Measuring microscope

Measuring range



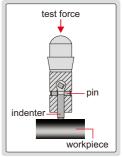
100~350HBW (with Ø7.26mm indenter, included) 350~650HBW (with Ø4mm indenter, **optional**)

- Measure Brinell hardness of large and heavy workpieces
 1580kg test force and Ø7.26mm ball indenter,
- equal to 3000kg test force and Ø1.20mm ball indenter









the pin is broken when test force 1580kg is reached

STANDARD DELIVERY

Main unit	1 pc
Ø7.26mm indenter	1 pc
Hardness test block	1 pc
Pin	250 pcs
Pin removal tool	1 pc
Measuring microscope	1 pc

OPTIONAL ACCESSORY

Ø4mm indenter	ISHB-P101-INDENTER
Pin (250 pcs)	ISHB-P101-PIN

HYDRAULIC BRINELL HARDNESS TESTER CODE ISHB-H131

0.8kg

1580kg ±5%HBW

±5%HBW

200×50×100mm

20X, graduation 0.01mm







measuring microscope (included)

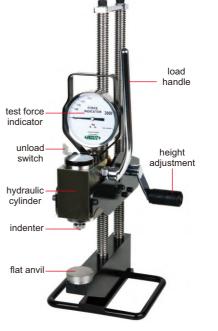
According to ISO 6506, ASTM E10

SPECIFICATION

Measuring range	16~650HBW
Test force	3000kg
Indenter	Ø10mm carbide ball
Measuring microscope	20X, graduation 0.01mm
Max. workpiece height	350mm
Max. testing width	90mm (from the center of indenter to the column)
Dimension	270×225×570mm
Weight	13.8kg

STANDARD DELIVERY

Main unit	1 pc
Flat anvil	1 pc
V-type anvil	1 pc
Spherical anvil	1 pc
Ø10mm carbide ball	2 pcs
Brinell test block	2 pcs
Measuring microscope	1 pc





CHAIN TYPE HYDRAULIC BRINELL HARDNESS TESTER CODE ISHB-C161

- To measure the hardness of cylinders or tubes
- According to ISO 6506, ASTM E10

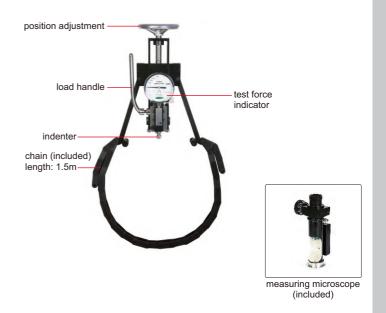


SPECIFICATION

Measuring range	32~650HBW	
Workpiece diameter range	Ø150~Ø500mm	
Test force	3000kg	
Indenter	Ø10mm carbide ball	
Measuring microscope	20X, graduation 0.01mm	
Dimension	270×225×570mm	
Weight	14.5kg	

STANDARD DELIVERY

Main unit	1 pc
1.5m chain	1 pc
Ø10mm carbide ball	2 pcs
Brinell test block	2 pcs
Measuring microscope	1 pc



ALUMINUM HARDNESS TESTERS

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- To measure the hardness of soft metal such as aluminum alloy, copper, brass, soft steel, etc.
 According to ASTM B647-84 (2000)

STANDARD DELIVERY

Main unit	1 pc
Spare indenter	1 pc
Hardness test block	1 pc
Wrench	1 pc



SPECIFICATION

Code	ISHW-L20	ISHW-L20A	ISHW-L20B	ISHW-B70	ISHW-B75	ISHW-B92
Application	for aluminum alloy general use	for aluminum alloy thick workpiece	for aluminum alloy small tube	for hard aluminum alloy and hard brass	for soft brass and copper	for soft steel and cold-rolled steel
Thickness requirement of flat workpiece	0.6~6mm	0.6~13mm	0.6~8mm	0.6~6mm	0.6~6mm	0.6~6mm
Internal diameter requirement of tube workpiece	>Ø10mm	>Ø10mm	>Ø6mm	>Ø10mm	>Ø10mm	>Ø10mm
Wall thickness requirement of tube workpiece	0.6~6mm	6~13mm (internal diameter Ø10~23.3mm) 0.6~6mm (internal diameter >Ø23.3mm)	0.6~8mm	0.6~6mm	0.6~6mm	0.6~6mm
Hardness range	lardness range 0~20HW					
Min. reading	1HW					
Accuracy	±0.5HW (at 5~17HW)					
Dimension	205×30×85mm					
Weight	500g					



BARCOL HARDNESS TESTER CODE ISHB-B300

DIGITAL SHORE DUROMETERS

SPECIFICATION

Hardness range	0~100HBa (equal to 25~150HBW)
Min. reading	1HBa
Accuracy	±2HBa (at 42~52HBa) ±1HBa (at 84~88HBa)
Min. workpiece thickness	0.8mm
Dimension	142×65×90mm
Weight	500g

STANDARD DELIVERY

Main unit	1 pc
Spare indenter	2 pcs
Hardness test block	2 pcs
Wrench	1 pc
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- aluminum alloy, fiber reinforced plastic, hard plastic, etc.
- According to ASTM B648-00, ASTM D2853-07



Code	ISH-DSA	ISH-DSD	ISH-DSOO
Unit	Shore A	Shore D	Shore OO
Test material	soft plastic, soft rubber, etc.	hard plastic, hard rubber, etc.	very soft plastic, rubber, sponge, textile, etc.
Measuring range	0~100HA*	0~100HD *	0~100HOO
Resolution	0.1HA	0.1HD	0.1HOO
Accuracy	±1HA	±1HD	±1HOO
Indenter protrusion	2.5mm		
Output	wireless and USB		
Power supply	built-in rechargeable battery		
Dimension	153×50×29mm		
Weight	170g		
*			

* Use ISH-DSD when measuring result is higher than 90HA Use ISH-DSA when measuring result is lower than 20HD



STANDARD DELIVERY

Main unit	1 pc
Calibration block	1 pc
Software and USB cable	1 pc
AC/DC adapter	1 pc

Printer	ISH-DS-PRINTER
Test stand	ISH-DS-STANDA