

## BALANCING BRACKET CODE ISH-BL01



- Suitable for hardness measurement of long strip specimens
- By adjusting the counterweight, to ensure that the indenter is perpendicular to the specimen

### SPECIFICATION

Sample diameter	<50mm
Test bench type	V-type anvil
Dimension	600×100×100mm
Weight	5kg

application



## JACK LIFTING BRACKET CODE ISH-ST02



- No need to hold the sample, fixing the sample can reduce measurement error

### SPECIFICATION

Sample diameter	<50mm
Test bench type	V-type anvil
Adjusting the height	200mm (customizable)
Dimension	250×250×400mm
Weight	11kg

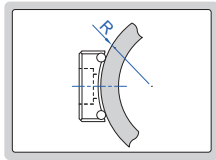
application



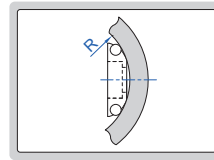


## SUPPORT RING SET FOR PORTABLE LEEB HARDNESS TESTER CODE ISH-PH-SP9

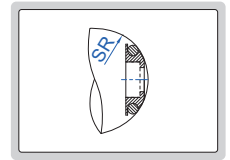
type A



type B



type C



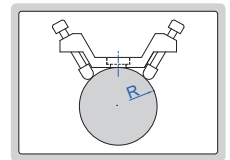
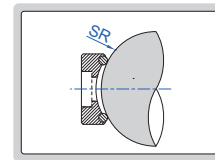
### SPECIFICATION

Type	Applicable workpieces	Range (mm)	Quantity
A	cylindrical outside surface	R10-15	3 pcs
		R14.5-30	
		R25-50	
B	cylindrical inside surface	R11-13	3 pcs
		R12.5-17	
		R16.5-30	
C	spherical inside surface	SR11-13	3 pcs
		SR12.5-17	
		SR16.5-30	
D	spherical outside surface	SR10-15	2 pcs
		SR14.5-30	
E	cylindrical outside surface	R>10	1 pc

type D



type E



## DIGITAL MAGNETIC ROCKWELL HARDNESS TESTER CODE ISHR-D121



flat anvil for test block  
(included)

- Apply to large and heavy steel or iron workpieces
- With statistic function, display average, maximum and minimum values
- Convert to HV, HB and tensile strength
- According to ISO 6508, ASTM E18



### 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×AA 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

## MAGNETIC ROCKWELL HARDNESS TESTER CODE ISHR-M111



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



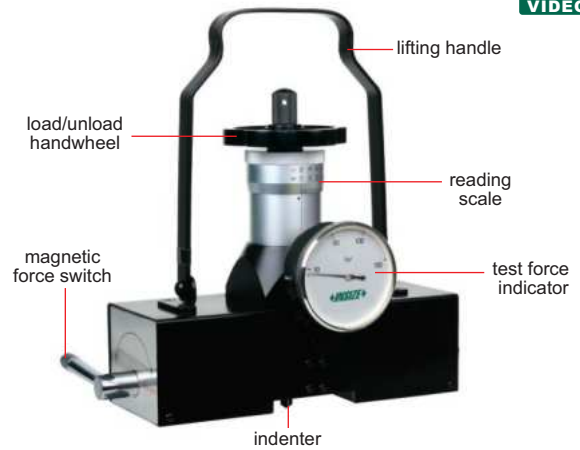
flat anvil for test block  
(included)



supports for cylinder or  
tube workpieces (included)



magnifier with LED  
(included)



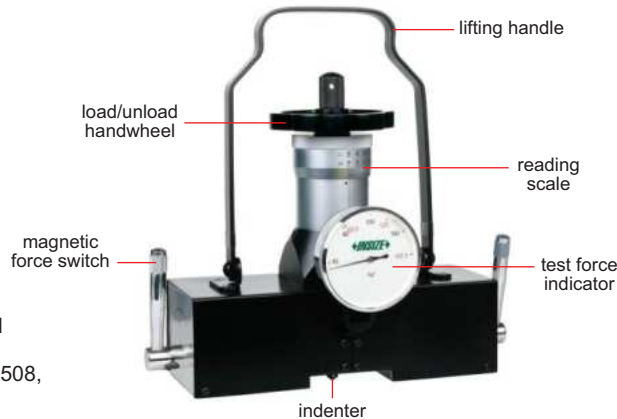
### SPECIFICATION

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

### STANDARD DELIVERY

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

## MAGNETIC BRINELL/ROCKWELL HARDNESS TESTER CODE ISHR-B141



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



flat anvil for test block  
(included)



supports for cylinder or  
tube workpieces (included)



magnifier with LED  
(included)



measuring microscope  
(included)

### SPECIFICATION

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

### STANDARD DELIVERY

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



## TEST STAND FOR DIGITAL SHORE DUROMETERS CODE ISH-DS-STANDA

- For digital shore durometers (code **ISH-DSA**, **ISH-DSD** and **ISH-DSOO**)
- Perform repeatable hardness measurement due to fewer possibilities of human error or measurement variations
- Special structure for stable loading
- Weight block A (included) is for **ISH-DSA**, weight block D (optional) is for **ISH-DSD**, remove weight block for **ISH-DSOO**



weight block D (optional) for ISH-DSD



### SPECIFICATION

Stage diameter	Ø115mm
Max. workpiece height	45mm
Max. testing width	63mm (from test point to the column)
Dimension	Ø195×370mm
Weight	5.61kg

### STANDARD DELIVERY

Test stand	1 pc
Weight block A (for ISH-DSA)	1 pc

### OPTIONAL ACCESSORY

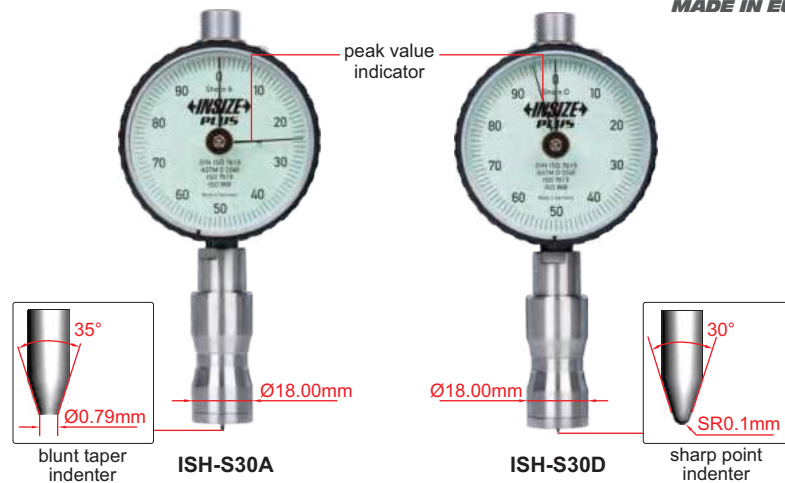
Weight block D (for ISH-DSD)	ISH-DS-W4
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## SHORE DUROMETERS

**INSIZE PLUS**  
MADE IN EUROPE

- According to ISO868, ISO7619, ASTM D 2240
- With peak value indicator
- Handhold use or work with test stand (code **ISH-OS2**)



### SPECIFICATION

Code	ISH-S30A	ISH-S30D
Scale	Shore A	Shore D
Test material	soft plastic, soft rubber, etc.	hard plastic, hard rubber, etc.
Measuring range *	0~100HA	0~100HD
Graduation	1HA	1HD
Accuracy	±0.5HA	±0.5HD
Indenter protrusion	2.5mm	
Weight	184g	

\* Use **ISH-S30D** when measuring result is higher than 90HA  
Use **ISH-S30A** when measuring result is lower than 20HD

## TEST STAND FOR SHORE DUROMETERS CODE ISH-OS2

**INSIZE PLUS**  
MADE IN EUROPE



- For shore durometers (code **ISH-S30A** and **ISH-S30D**)
- Perform repeatable hardness measurement due to fewer possibilities of human error or measurement variations
- Special structure for stable loading
- 1kg weight block (included) is for **ISH-S30A**, 4kg weight block (optional) is for **ISH-S30D**

### SPECIFICATION

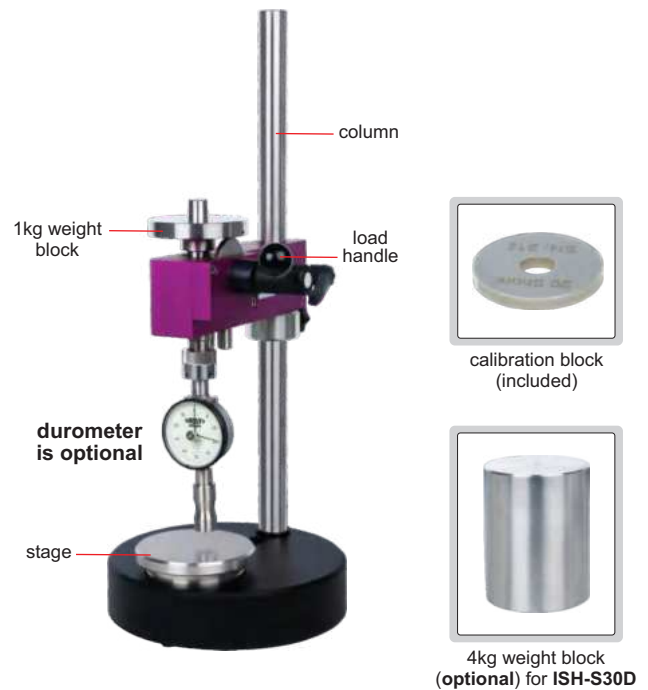
Stage diameter	Ø98mm
Max. workpiece height	180mm
Max. testing width	115mm (from test point to the column)
Dimension	Ø200×500mm
Weight	18kg

### STANDARD DELIVERY

Test stand	1 pc
1kg weight block (for ISH-S30A)	1 pc
Calibration block	1 pc

### OPTIONAL ACCESSORY

4kg weight block (for ISH-S30D)	ISH-OS2-W4
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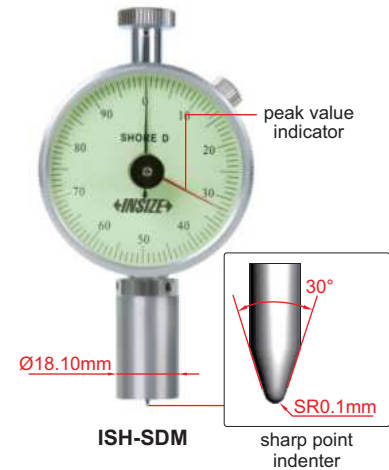
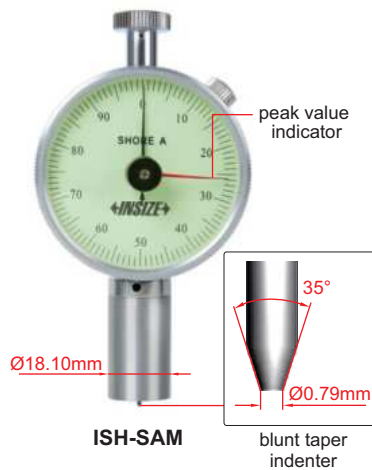
## SHORE DUROMETERS



calibration block (optional)



- According to ISO868, ISO7619, ASTM D 2240
- With peak value indicator
- Optional accessory: test stand **ISH-STAC** and **ISH-STD**



### SPECIFICATION

Code	ISH-SAM	ISH-SDM
Scale	Shore A	Shore D
Application	nature rubber, soft elastomer, etc.	hard rubber, plastic, hard elastomer, etc.
Measuring range *	10~90HA	20~90HD
Graduation	1HA	1HD
Indenter protrusion	2.5mm	
Dimension	115×60×25mm	
Weight	160g	

\* Use **ISH-SDM** when measuring result is higher than 90HA  
Use **ISH-SAM** when measuring result is lower than 20HD

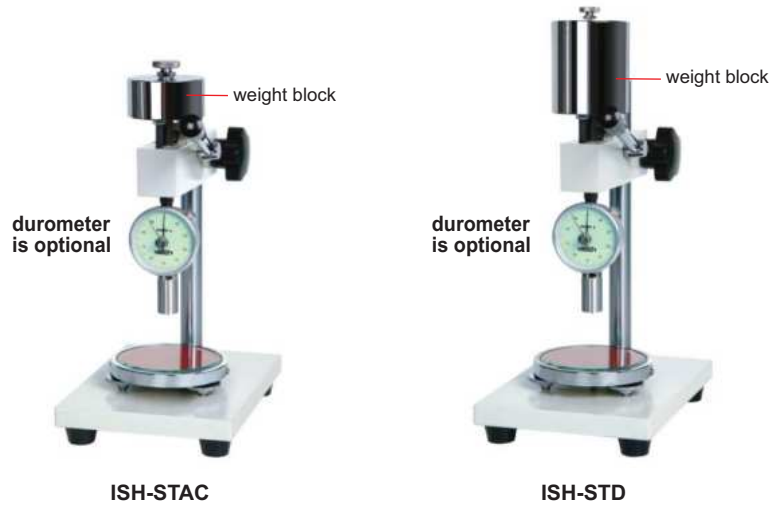
### OPTIONAL ACCESSORY

Calibration block	ISH-DS-BLOCK
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## TEST STANDS FOR SHORE DUROMETERS

- For shore durometers (code **ISH-SAM** and **ISH-SDM**)
- Perform repeatable hardness measurement due to fewer possibilities of human error or measurement variations



### SPECIFICATION

Code	ISH-STAC	ISH-STD
Applicable durometer	ISH-SAM	ISH-SDM
Stage diameter	Ø100mm	Ø100mm
Max. workpiece height	75mm	75mm
Max. testing width	65mm (from test point to the column)	65mm (from test point to the column)
Weight block	1kg	5kg

## FRUIT HARDNESS TESTER

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- Measure the hardness of apples, pears, strawberries and grapes, etc.
- The degree of ripeness can be judged by measuring the hardness of the fruit



### SPECIFICATION

Code	Range	Graduation	Accuracy	Probe diameter	Probe depth	Dimension	Weight
9643-4	0.5-4kg/cm <sup>2</sup> (0.5-4×10 <sup>5</sup> Pa)	0.02kg/cm <sup>2</sup> (0.02×10 <sup>5</sup> Pa)	±2%	Ø3.5mm	10mm	151×55×30mm	0.2kg

## HARDNESS TEST BLOCKS



Rockwell



Vickers



Brinell



Leeb



Micro-Vickers



Knoop



Ultrasonic



Shore

■ Supplied with manufacturer inspection certificate

### Rockwell hardness test blocks

Code	Type	Hardness	Dimension *
HDT-B-HRA	HRA	80-84	diameter: (60±1) mm  thickness: (11±1) mm
HDT-B-HRB	HRB	88-100	
HDT-B-HRC1	HRC	20-30	
HDT-B-HRC2	HRC	35-55	
HDT-B-HRC3	HRC	60-70	
HDT-B-HRD1	HRD	40-47	
HDT-B-HRD2	HRD	55-63	
HDT-B-HRD3	HRD	70-75	
HDT-B-HRE	HRE	107-114	
HDT-B-HRF	HRF	105-114	
HDT-B-HRG1	HRG	57-82	
HDT-B-HRG2	HRG	80-94	

### Vickers hardness test blocks

Code	Type	Hardness	Dimension *
HDT-B-HV5A	HV5	175-200	diameter: (60±1) mm  thickness: (11±1) mm
HDT-B-HV5B	HV5	200-300	
HDT-B-HV5C	HV5	300-400	
HDT-B-HV5D	HV5	400-500	
HDT-B-HV5E	HV5	500-600	
HDT-B-HV5F	HV5	600-700	
HDT-B-HV5G	HV5	700-750	
HDT-B-HV10A	HV10	175-200	
HDT-B-HV10B	HV10	200-300	
HDT-B-HV10C	HV10	300-400	
HDT-B-HV10D	HV10	400-500	
HDT-B-HV10E	HV10	500-600	
HDT-B-HV10F	HV10	600-700	
HDT-B-HV10G	HV10	700-750	
HDT-B-HV30A	HV30	175-200	
HDT-B-HV30B	HV30	200-300	
HDT-B-HV30C	HV30	300-400	
HDT-B-HV30D	HV30	400-500	
HDT-B-HV30E	HV30	500-600	
HDT-B-HV30F	HV30	600-700	
HDT-B-HV30G	HV30	700-750	
HDT-B-HV50A	HV50	175-200	
HDT-B-HV50B	HV50	200-300	
HDT-B-HV50C	HV50	300-400	
HDT-B-HV50D	HV50	400-500	
HDT-B-HV50E	HV50	500-600	
HDT-B-HV50F	HV50	600-700	
HDT-B-HV50G	HV50	700-750	
HDT-B-HV100A	HV100	175-200	
HDT-B-HV100B	HV100	200-300	
HDT-B-HV100C	HV100	300-400	
HDT-B-HV100D	HV100	400-500	
HDT-B-HV100E	HV100	500-600	
HDT-B-HV100F	HV100	600-700	
HDT-B-HV100G	HV100	700-750	

### Rockwell superficial hardness test blocks

Code	Type	Hardness	Dimension *
HDT-B-HR15N1	HR15N	70-77	diameter: (60±1) mm  thickness: (11±1) mm
HDT-B-HR15N2	HR15N	78-88	
HDT-B-HR15N3	HR15N	89-91	
HDT-B-HR30N1	HR30N	42-54	
HDT-B-HR30N2	HR30N	55-73	
HDT-B-HR30N3	HR30N	74-80	
HDT-B-HR45N1	HR45N	20-31	
HDT-B-HR45N2	HR45N	32-61	
HDT-B-HR45N3	HR45N	63-70	
HDT-B-HR15T	HR15T	88-93	
HDT-B-HR30T	HR30T	73-82	
HDT-B-HR45T	HR45T	58-72	

### Leeb hardness test blocks

Code	Type	Hardness	Dimension *
HDT-B-HLD1	HLD	490-570	diameter: (90±1) mm thickness: (55±1) mm
HDT-B-HLD2	HLD	590-670	
HDT-B-HLD3	HLD	750-830	
HDT-B-HLG1	HLG	460-540	diameter: (120±1) mm thickness: (70±1) mm
HDT-B-HLG2	HLG	550-630	

To be continued

Continued from previous page

### Micro-Vickers hardness test blocks

Code	Type	Hardness	Dimension *
HDT-B-HV005A	HV0.05	200-300	diameter: (25±1) mm  thickness: (6±2)mm
HDT-B-HV005B	HV0.05	300-400	
HDT-B-HV005C	HV0.05	400-500	
HDT-B-HV005D	HV0.05	500-600	
HDT-B-HV005E	HV0.05	600-700	
HDT-B-HV005F	HV0.05	700-750	
HDT-B-HV01A	HV0.1	200-300	
HDT-B-HV01B	HV0.1	300-400	
HDT-B-HV01C	HV0.1	400-500	
HDT-B-HV01D	HV0.1	500-600	
HDT-B-HV01E	HV0.1	600-700	
HDT-B-HV01F	HV0.1	700-750	
HDT-B-HV02A	HV0.2	200-300	
HDT-B-HV02B	HV0.2	300-400	
HDT-B-HV02C	HV0.2	400-500	
HDT-B-HV02D	HV0.2	500-600	
HDT-B-HV02E	HV0.2	600-700	
HDT-B-HV02F	HV0.2	700-750	
HDT-B-HV03A	HV0.3	200-300	
HDT-B-HV03B	HV0.3	300-400	
HDT-B-HV03C	HV0.3	400-500	
HDT-B-HV03D	HV0.3	500-600	
HDT-B-HV03E	HV0.3	600-700	
HDT-B-HV03F	HV0.3	700-750	
HDT-B-HV05A	HV0.5	200-300	
HDT-B-HV05B	HV0.5	300-400	
HDT-B-HV05C	HV0.5	400-500	
HDT-B-HV05D	HV0.5	500-600	
HDT-B-HV05E	HV0.5	600-700	
HDT-B-HV05F	HV0.5	700-750	
HDT-B-HV1A	HV1	200-300	
HDT-B-HV1B	HV1	300-400	
HDT-B-HV1C	HV1	400-500	
HDT-B-HV1D	HV1	500-600	
HDT-B-HV1E	HV1	600-700	
HDT-B-HV1F	HV1	700-750	

### Knoop hardness test blocks

Code	Type	Hardness	Dimension *
HDT-B-HK005A	HK0.05	200-300	diameter: (25±1) mm  thickness: (6±2)mm
HDT-B-HK005B	HK0.05	400-500	
HDT-B-HK005C	HK0.05	700-800	
HDT-B-HK01A	HK0.1	200-300	
HDT-B-HK01B	HK0.1	400-500	
HDT-B-HK01C	HK0.1	700-800	
HDT-B-HK02A	HK0.2	200-300	
HDT-B-HK02B	HK0.2	400-500	
HDT-B-HK02C	HK0.2	700-800	
HDT-B-HK03A	HK0.3	200-300	
HDT-B-HK03B	HK0.3	400-500	
HDT-B-HK03C	HK0.3	700-800	
HDT-B-HK05A	HK0.5	200-300	
HDT-B-HK05B	HK0.5	400-500	
HDT-B-HK05C	HK0.5	700-800	
HDT-B-HK1A	HK1	200-300	
HDT-B-HK1B	HK1	400-500	
HDT-B-HK1C	HK1	700-800	

\* The above dimensions are for reference only, subject to actual supply

### Brinell hardness test blocks

Code	Type	Hardness	Dimension *	
HDT-B-HB10A1	HBW10/3000	100-200	diameter: (100±1) mm  thickness: >16mm	
HDT-B-HB10A2	HBW10/3000	200-300		
HDT-B-HB10A3	HBW10/3000	300-400		
HDT-B-HB10A4	HBW10/3000	400-500		
HDT-B-HB10A5	HBW10/3000	500-600		
HDT-B-HB10A6	HBW10/3000	600-650		
HDT-B-HB10B1	HBW10/1500	100-200		
HDT-B-HB10B2	HBW10/1500	200-300		
HDT-B-HB10B3	HBW10/1500	300-400		
HDT-B-HB10B4	HBW10/1500	400-500		
HDT-B-HB10B5	HBW10/1500	500-600		
HDT-B-HB10B6	HBW10/1500	600-650		
HDT-B-HB10C1	HBW10/1000	90-200		
HDT-B-HB10C2	HBW10/1000	200-300		
HDT-B-HB10C3	HBW10/1000	300-400		
HDT-B-HB10C4	HBW10/1000	400-450		
HDT-B-HB10D1	HBW10/500	90-200		
HDT-B-HB10D2	HBW10/500	200-300		
HDT-B-HB10D3	HBW10/500	300-400		
HDT-B-HB10D4	HBW10/500	400-450		
HDT-B-HB25A1	HBW2.5/187.5	100-200	diameter: (64±1) mm  thickness: >6mm	
HDT-B-HB25A2	HBW2.5/187.5	200-300		
HDT-B-HB25A3	HBW2.5/187.5	300-400		
HDT-B-HB25A4	HBW2.5/187.5	400-500		
HDT-B-HB25A5	HBW2.5/187.5	500-600		
HDT-B-HB25A6	HBW2.5/187.5	600-650		
HDT-B-HB25B1	HBW2.5/62.5	90-200		
HDT-B-HB25B2	HBW2.5/62.5	200-300		
HDT-B-HB25B3	HBW2.5/62.5	300-400		
HDT-B-HB25B4	HBW2.5/62.5	400-450		
HDT-B-HB5A1	HBW5/750	100-200		diameter: (100±1) mm  thickness: >12mm
HDT-B-HB5A2	HBW5/750	200-300		
HDT-B-HB5A3	HBW5/750	300-400		
HDT-B-HB5A4	HBW5/750	400-500		
HDT-B-HB5A5	HBW5/750	500-600		
HDT-B-HB5A6	HBW5/750	600-650		
HDT-B-HB5B1	HBW5/250	90-200	diameter: (64±1) mm thickness: >6mm	
HDT-B-HB5B2	HBW5/250	200-300		
HDT-B-HB5B3	HBW5/250	300-400		
HDT-B-HB5B4	HBW5/250	400-450		

### Shore hardness test blocks

Code	Type	Hardness	Dimension *
HDT-B-SA	SA	6pcs/set (30, 40, 50, 60, 70, 80)	Ø50×7mm
HDT-B-SD	SD	3pcs/set (15, 30, 90)	50×50×7mm

### Ultrasonic hardness test blocks

Code	Type	Hardness	Dimension *
HDT-B-HRCU1	HRC	20-30	diameter: (90±1) mm  thickness: >16mm
HDT-B-HRCU2	HRC	35-55	
HDT-B-HRCU3	HRC	60-70	
HDT-B-HV5U1	HV5	200-300	
HDT-B-HV5U2	HV5	400-500	
HDT-B-HV5U3	HV5	700-750	
HDT-B-HB10U1	HBW10/1000	90-200	
HDT-B-HB10U2	HBW10/3000	200-300	
HDT-B-HB10U3	HBW10/3000	400-500	

### Hammer impact brinell hardness bar

Code	Type	Hardness	Dimension *
HDT-B-HB5C1	HBS5/750	177-217	12×12×150mm