

BENCH (ROCKWELL) HARDNESS TESTER TH300/301/310/320



TH320

Features:

- Horizontal protrudent nose design, testing on surfaces difficult to reach
- Testing internal surface of ring parts whose diameter is not less than 23mm (0.900")
- Testing external surface of round bars whose diameter is not less than 3mm (0.120")
- Automatic test process
- High definition backlight LCD
- Simple and easy selectable operation menu
- RS-232/USB data output
- TH300: Rockwell hardness tester
- TH301: Rockwell hardness tester with auto-switch of test force.
- TH310: Rockwell superficial hardness tester
- TH320: Rockwell & Rockwell superficial hardness tester



Horizontal protrudent nose design



TH300

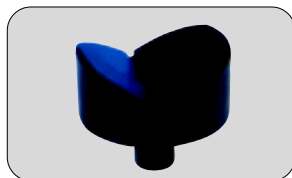


Technical Specification:

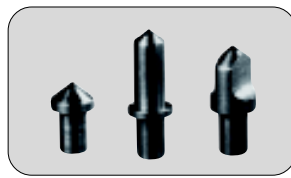
	TH300	TH301	TH310	TH320
Hardness scales	Rockwell A, B, C,D,E,F, G, H, K, L, M, P, R, S, V	Rockwell A, B, C, D,E, F, G, H,K, L, M, P, R, S, V	Rockwell superficial 15/30/45N,T, W, X, Y	Rockwell A,B,C,D,E,F,G,H,K, L,M,P,R,S,V Rockwell superficial15/30/45N,T,W,X,Y
Resolution	0.1Rockwell unit			
Pre-load	98.07N/10kgf		29.42N/3kgf	98.07N/10kgf, 29.42N/3kgf
Total load	588.4N/60kgf, 980.7N/100kgf, 1471N/150kgf		147.1N/15kgf, 294.2N/30kgf, 441.3N/45kgf	588.4N/60kgf, 980.7N/100kgf, 1471N/150kgf, 147.1N/15kgf, 294.2N/30kgf, 441.3N/45kgf
Display	Matrix backlight LCD			
Language	English, French, Germany	English		
Operation	Menu selectable, Membrane keypad			
Test process	Automatic			
Load duration	2-50 seconds, Can be set, dynamic displayed and stored			
Functions	<ul style="list-style-type: none"> • Upper / lower hardness limits setting and alarming • Data statistics : Ave., Max., Min., standard Deviation • Convert tested values to HB, HV, HLD and δ_b (Tensile-strength) • Curvature correction: cylinder and sphere surface 	<ul style="list-style-type: none"> • Upper / lower hardness limits setting and alarming • Data statistics : Ave., Max., Min., standard Deviation • Convert tested values to HB, HV, HLD, Rockwell Superficial and δ_b (Tensile-strength) • Curvature correction: cylinder and sphere surface 	<ul style="list-style-type: none"> • Upper / lower hardness limits setting and alarming • Data statistics : Ave., Max., Min., standard Deviation • Convert tested values to HB, HV and δ_b (Tensile-strength) • Curvature correction: cylinder and sphere surface 	<ul style="list-style-type: none"> • Upper / lower hardness limits setting and alarming • Data statistics : Ave., Max., Min., standard Deviation • Convert tested values to HB, HV, HLD and δ_b (Tensile-strength) • Curvature correction: cylinder and sphere surface
Data output	RS232	RS232, USB	RS232	
Tester standard	ISO6508.2 , ASTM E-18			
Testing space	Vertical: 250mm (9.85")	Vertical: 260mm (10.24")	Vertical: 250mm (8.66")	
	Horizontal:150mm (5.91")	Horizontal:150mm (5.91")	Horizontal:150mm (6.00")	
Work piece size	External surface cylinder: Min. ϕ 3mm (0.120") Internal surface cylinder: Min. ϕ 23mm (0.900")			
Power supply	220v/110v, 50Hz, 4A			
Dimensions	715mm × 225mm × 790mm	715mm × 225mm × 790mm	720mm × 225mm × 790mm	720mm × 240mm × 815mm
Weight	100kg		70kg	120kg

Standard delivery

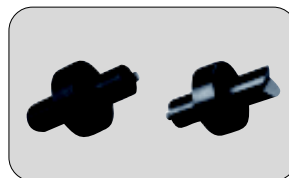
TH300	TH301	TH310	TH320
Main Unit	Main unit	Main unit	Main unit
	Test Block A		Test Block A, B, C
Test Block B	Test Block B	Test Block 15N	Test Block 15N
Test Block C	Test Block C	Test Block 30N	Test Block 30N
	USB driver disk	Test Block 30T	Test Block 30T
120° cone diamond indenter	120° cone diamond indenter	120° cone diamond indenter	120° cone diamond indenter
1/16"(1.5875mm) ball indenter	1/16"(1.5875mm) ball indenter	1/16"(1.5875mm) ball indenter	1/16"(1.5875mm) ball indenter
1/16"(1.5875mm) spare ball	1/16"(1.5875mm) spare ball	1/16"(1.5875mm) spare ball	1/16"(1.5875mm) spare ball
Screw for indenter	Screw for indenter	Screw for indenter	Screw for indenter
Round flat anvil $\phi 70$	Round flat anvil $\phi 70$	Round flat anvil $\phi 70$	Round flat anvil $\phi 70$
Large Vee anvil	Large Vee anvil	Large Vee anvil	Large Vee anvil
Screw driver	Screw driver	Screw driver	Screw driver
Power supply cable	Power supply cable	Power supply cable	Power supply cable
Instruction manual	Instruction manual	Instruction manual	Instruction manual
Warranty card	Warranty card	Warranty card	Warranty card
TIME Certificate	TIME Certificate	TIME Certificate	TIME Certificate



large Vee anvil



Short diamond indenter
Slim diamond indenter
Flat diamond indenter



Point/Vee anvil



Flat/Vee anvil



Round flat anvil $\phi 70$



Round flat anvil
 $\phi 225$



Round flat anvil
 $\phi 150$



Optional Accessory

- Printer TA230 (see page 47)
- Connecting cable
- Short diamond indenter
- Flat diamond indenter
- Slim diamond indenter
- 1/8" ($\phi 3.175\text{mm}$) indenter and spare ball
- 1/4" ($\phi 6.350\text{mm}$) indenter and spare ball
- 1/2" ($\phi 12.70\text{mm}$) indenter and spare ball
- Round flat anvil $\phi 225$
- Round flat anvil $\phi 150$
- Small Vee anvil
- Flat /Vee anvil
- Assistant support
- Assistant joist



Features:

- Operating Rockwell hardness testing of hard alloy, carbon steel, alloy steel and non-ferrous metal
- High digital display resolution
- Easy operation with auto loading and unloading of test force, and auto holding of test force.
- Standards: BS EN ISO 6508, ISO 6598.2 and ASTM E18

Technical Specification

Pre-load	98.1N (10kgf)
Total load	588.4N (60kgf), 980.7N (100kgf), 1471N (150kgf)
Rockwell Scales	1~100HRA, 0~130 HRB, 0~100HRC
Testing resolution	0.1Rockwell unit
Working method	Auto loading of main test force, auto hold and digital display of results
Vertical testing space	200mm (7.87")
Horizontal testing space	160mm (6.30")
Dimension	580 × 270 × 740mm
Weight	105kg

Standard Delivery

- Main unit 1
- Test block A 1
- Test block B 1
- Test block C 1
- 1/16" (1.5875mm) ball indenter 1
- 1/16" (1.5875mm) spare ball 3
- Diamond indenter 1
- Screw for indenter 1
- Flat anvil 1
- Vee anvil 1
- Instruction manual 1
- TIME certificate 1
- Warranty card 1

Optional Accessory

- φ70mm flat anvil
- φ80mm flat anvil
- φ120mm flat anvil
- φ150mm flat anvil
- φ70mm Vee anvil
- φ80mm Vee anvil
- Small Vee/point anvil
- Other test blocks

BENCH (ROCKWELL) HARDNESS TESTER TH500



Features:

- Measuring the Rockwell hardness of ferrous and non-ferrous metals such as hard alloy, carbon steel, alloy steel, cast iron
- Applied in the factories, scientific research institutes and laboratories of colleges etc
- Fresh design, easy to use, stable display value, convenient maintenance
- Standards conforming to: BSEN10109-96, ISO6508.2

Standard delivery

Pre-load	98.1N (10kgf)
Total load	588.4N (60kgf), 980.7N (100kgf), 1471N (150kgf)
Rockwell scales	HRC: 0-100, HRB: 0 - 100
Testing range	20~88HRA, 20~100HRB, 20~70HRC
Testing resolution	0.5HR Rockwell unit
Vertical testing space	200mm (7.87")
Horizontal testing space	160mm (6.30")
Dimensions	580 × 270 × 740mm
Net weight	100kg

Standard Delivery

- Main unit 1
- Test block A 1
- Test block B 1
- Test block C 1
- 1/16" (1.5875mm) ball indenter 1
- 1/16" (1.5875mm) spare ball 3
- Diamond indenter 1
- Flat anvil 1
- Vee anvil 1
- Weights 3
- Ground bolts 4
- Instruction manual 1
- TIME certificate 1
- Warranty card 1

Optional Accessory

- ϕ 70mm flat anvil
- ϕ 80mm flat anvil
- ϕ 120mm flat anvil
- ϕ 150mm flat anvil
- ϕ 70mm Vee anvil
- ϕ 80mm Vee anvil
- Vee/point anvil
- Other test blocks



Features:

- Measuring the Brinell hardness of unquenched steels, cast iron, non-ferrous metals and soft bearing-alloys etc
- High testing precision, extensive testing range, automatic load system
- High accuracy, wide measuring range
- Automatic force loading
- Standards conforming to: ASTM E-10, ISO6506.2

Technical Specification

Test force	1839N (187.5kgf), 2452N (250kgf), 7355N (750kgf), 9807N (1000kgf), 29420N (3000kgf)
Indenter ball diameter	2.5mm, 5mm and 10mm
Test force dwell time	6~99s adjustable
Testing range	8~650HBW
Vertical testing space	Max.230mm (9")
Horizontal testing space	Max.120mm (4.7")
Power supply	220V/110V, 50~60Hz, 2A
Net weight	218kg
Dimensions	730 × 230 × 890mm

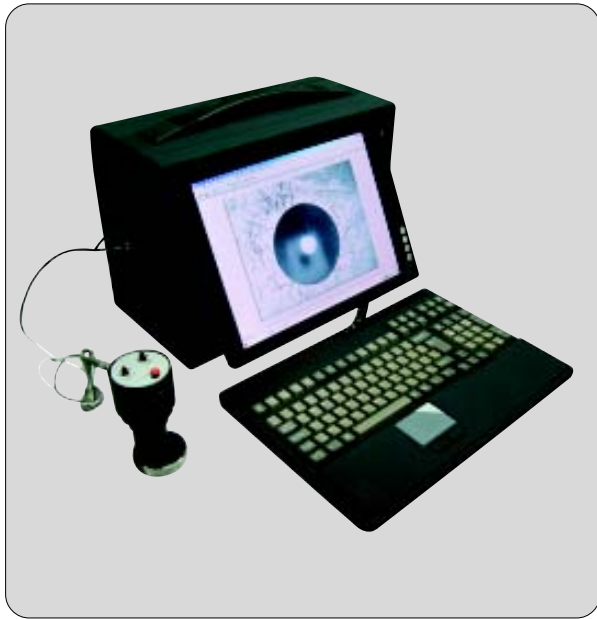
Standard Delivery

- Main unit 1
- Test block 1
- 20 × microscope 1
- φ10mm hard alloy ball indenter 1
- φ120mm round flat anvil 1
- Vee anvil 1
- Power supply cable 1
- Weight 7
- Ground bolt 4
- Instruction manual 1
- TIME certificate 1
- Warranty card 1

Optional Accessory

- φ2.5mm hard alloy ball
- φ5mm hard alloy ball
- φ10mm hard alloy ball
- φ60mm anvil
- φ70mm anvil
- φ150mm anvil
- φ2.5mm hard alloy ball indenter
- φ5mm hard alloy ball indenter
- φ80mm round flat anvil
- Other test blocks

BRINELL HARDNESS TESTING SYSTEM TH100



Features:

- High accuracy measurement of Brinell testing impress
- Store and display the images and hardness values by calculating on computer with special software
- Equipped with advanced CCD device of high sampling resolution
- Conforming to standards: ISO 6506, ASTM E10

Technical Specification

Measurable diameter of indenter	2.5mm, 5mm, 10mm
Measuring range	No.1 lens: 3~6mm No.2 lens: 1.5~3mm No.3 lens: 0.7~1.5mm
Measuring hardness range	8~650HBW
Max. sampling resolution	0.1HRW
Power	Monophase, 220V, 50HZ~60Hz, 2A
Weight	Sampling probe: 0.5kg, computer:10~25kg
Dimension	Sampling probe: 150mm × 70mm × 70mm Computer: 400mm × 291mm × 213mm

Standard Delivery

- Sampling probe (lens1 and 3 integrated) 1
- Computer (optional portable model or desk model) 1
- No.2 lens 1
- Standard hardness test block 3
- Socket ring for connector 1 1
- Socket ring for connector 2 1
- Socket ring for connector 3 1
- Encrypted lock 1
- Software 1
- Cable 1
- Instruction manual 1
- TIME Certificate 1
- Warranty card 1

Brinell hardness measurement and storage

