

Rockwell Hardness Tester



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Rockwell Hardness Tester



➤P.3



Digital type

➤P.4



➤ P.5



Digital type

➤ P.6

Model No.		THR-A	THR-D	THRS-A	THRS-D
Test Forces	Initial	98.07 N (10 kg)		29.42 N (3 kg)	
	All	588.4N (60kg), 980.7N (100kg), 1471N (150kg)		147.1N (15kg), 294.2N (30kg), 441.3N (45kg)	
Duration time		Optional	(2-60)s	Optional	(2-60)s
Indication of Hardness Value		Dial	Digital Display	Dial	Digital Display
Output		----	Built-in Printer	----	Built-in Printer

Features:

- These series hardness testers are known far and wide for their economical and practical features; reliability and easy operation.
- Manually set the zero position during testing.
- There are two kinds of testing method:
 - (1) Rockwell standard (60, 100, 150kg)
 - (2) Superficial Rockwell standard (15, 30, 45kg).
- The testing result values can be read out directly from the dial.
- Rotate the Load-Change-Hand-Wheel at the right side of the tester to select the test load and it does not need the power source.
- Model THR-A serves to measure the hardness value of hard alloy, carburized steels, quenched steels, hard cast irons, soft copper, aluminum alloy, copper alloy and malleable irons.



Technical parameters:

Test Forces	Initial	98.07 N (10kg)
	All	588.4 N (60kg), 980.7 N (100kg), 1471 N (150kg)
Holding time		Optional
Indication of Hardness Value		Dial
Max. height of the specimen		170 mm
Max. width of the specimen		165 mm
Output		----
Power		AC220V 50/60Hz
Standard accessories		Standard Rockwell Hardness Block - 3pcs,
		Diamond Rockwell Hardness Indenter, $\Phi 1.5875$ mm Ball Indenter, Testing Table (Big, Medium, "V"), Weight(a,b,c) RS-232 interface, Lever, Power cord
Optional accessories		$\Phi 3.175$ mm, $\Phi 6.35$ mm, $\Phi 12.7$ mm Steel Ball Indenter
Package Dimension		655 × 375 × 960 (mm)
Weight		78 kg

Features:

● THR-D Digital Rockwell Hardness Tester with its advanced testing technique and high quality LCD displaying promotes the advance position of hardness testers. Except its test table goes up and down, the other actions of hardness tester realizes automatically, therefore it avoids the errors of both operation and readout.

(1) The Selection of Rockwell hardness scales ;

(HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK)

(2) The Selection of Plastic Rockwell Hardness Scale; (HRE, HRL, HRM, HRR)

(3) The hardness values exchange among various hardness scales; (HV, HK, HBHRN, HRT)

(4) Equipped with a built-in printer, hardness testing result can be outputted by the printing

(5) The RS-232 hyper terminal setting is with for the functional expansion by client.



Usage Range

➤ Measure the Rockwell Hardness value of ferrous and nonferrous metals.

➤ Measure the Rockwell hardness value for such materials as: quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel; etc.

➤ By means of a selecting ball indenter, the tester can measure the plastic Rockwell hardness value.

Technical parameters:

Test Forces	Initial	98.07 N (10kg)
	All	588.4 N (60kg), 980.7 N (100kg), 1471 N (150kg)
Holding time		(2-60)s
Indication of Hardness Value		Digital Display
Max. height of the specimen		170 mm
Max. width of the specimen		165 mm
Output		Built-in Printer
Power		AC220V 50/60Hz
Standard accessories		Standard Rockwell Hardness Block - 3pcs,
		Diamond Rockwell Hardness Indenter, $\Phi 1.5875$ mm Ball Indenter, Testing Table (Big, Medium, "V"), Weight(a,b,c) RS-232 interface, Lever, Power cord
Optional accessories		$\Phi 3.175$ mm, $\Phi 6.35$ mm, $\Phi 12.7$ mm Steel Ball Indenter
Package Dimension		655 × 375 × 960 (mm)
Weight		78 kg

THRS-A

Motorized Superficial Rockwell Hardness Tester

Features:

- These series hardness testers are known far and wide for their economical and practical features; reliability and easy operation.
- Manually set the zero position during testing.
- There are two kinds of testing method:
 - (1) Rockwell standard (60, 100, 150kg)
 - (2) Superficial Rockwell standard (15, 30, 45kg).
- The testing result values can be read out directly from the dial.
- Rotate the Load-Change-Hand-Wheel at the right side of the tester to select the test load and it does not need the power source.
- Model THRS-A serves to test the superficial hardness value of hard alloy, carburized layers and other chemical treating layers and thin shaped parts.



Technical parameters:

Test Forces	Initial	29.42 N (3 kg)
	All	147.1N (15kg), 294.2N (30kg), 441.3N (45kg)
Holding time		Optional
Indication of Hardness Value		Dial
Max. height of the specimen		170 mm
Max. width of the specimen		165 mm
Output		-----
Power		AC220V 50/60Hz
Standard accessories		Standard Superficial Rockwell hardness block – 3pcs
		Diamond Rockwell Hardness Indenter, Φ 1.5875mm Ball Indenter, Testing Table (Big, Medium, “V”), Weight(a,b,c) RS-232 interface, Lever, Power cord
Optional accessories		Φ 3.175 mm, Φ 6.35 mm, Φ 12.7mm Steel Ball Indenter
Package Dimension		655 × 375 × 960 (mm)
Weight		73 kg

Features:

● THRS-D Digital Superficial Rockwell Hardness Tester is equipped with a newly-designed large displaying screen with good reliability, excellent operation and easy watching, thus it is a new type high-tech product combining the mechanic and electric features. Its main function is as follows.

- (1) Selection of Superficial Rockwell hardness scales; (HRN, HRT)
- (2) The hardness values exchange among various hardness scales; (HRA, HRB, HRC, HV, HB)
- (3) Equipped with a built-in printer, hardness testing result can be outputted by the printing.
- (4) RS-232 hyper terminal setting is with good reliability, excellent operation and easy watching.



Usage Range

➤ Surface hardened steel, surface heat treating and chemical treating materials, copper, aluminum alloy sheet, zinc layers, chrome layers, tin layers, bearing steel, cold and hard casting parts, etc.

Technical parameters:

Test Forces	Initial	29.42 N (3 kg)
	All	147.1N (15kg), 294.2N (30kg), 441.3N (45kg)
Holding time		(2-60)s
Indication of Hardness Value		Digital Display
Max. height of the specimen		170 mm
Max. width of the specimen		165 mm
Output		Built-in Printer
Power		AC220V 50/60Hz
Standard accessories		Standard Superficial Rockwell hardness block – 3pcs
		Diamond Rockwell Hardness Indenter, $\Phi 1.5875$ mm Ball Indenter, Testing Table (Big, Medium, “V”), Weight(a,b,c) RS-232 interface, Lever, Power cord
Optional accessories		$\Phi 3.175$ mm, $\Phi 6.35$ mm, $\Phi 12.7$ mm Steel Ball Indenter
Package Dimension		655 × 375 × 960 (mm)
Weight		73 kg