

HARDNESS TESTING MACHINE

INTRODUCTION



Digital Hardness Tester



Analogue Hardness Tester

ELECTROMECH ENGINEERS Hardness Testers Models RAS SE, RABI SE, TWIN SE are Manually operated. All these models are suitable for testing Hardness of metals & alloys of all kinds hard & soft, whether flat, round or irregular in shape These testers are simple in design & easy to operate, yet sensitive & accurate. Various models from the wide range are suitable for Engineering colleges, Testing laboratories, Inspection departments, Manufacturing Companies, Research Center etc. These testers strictly conform to IS:1586 - 2000, BS:891 parts 1&2, ASTM: E18 for Rockwell Test, IS:2281-1983, BS:240, ASTM: E10 for Brinell Test & IS: 1586 - 2000, ASTM: E18 for Rockwell Superficial Test

Features

Rockwell System	Rockwell Cum Brinell	Rockwell / Rockwell Superficial Combined System
<p>Model - RAS</p> <p>Automatic load selection with automatic zero setting dial gauge. Manual Operation</p>	<p>Model - RABI</p> <p>Automatic load selection with automatic zero setting dial gauge. Facility for Brinell Tests with 187.5 kgf load with 2.5mm ball indenter, 250 kgf load with 5mm ball indenter for testing hardness of non-ferrous Metal. Manual Operation</p>	<p>Model - TWIN</p> <p>Manual load selection with automatic zero setting Dial gauge. Manual Operation. Diamond Holders is guided in a set to two ball cage, which enables testing of small pins having dia. Less than 6 mm. (upto 3mm dia.)</p>
<p>Model- RASNE</p> <p>Similar to RAS but motorized model. Semiautomatic operation for production setting, Drive Motor Single phase 230V 50 Cycles.</p>	<p>Model- RABI250</p> <p>Similar to RABI SE but bigger capacity Diamond Holder is guided in a set of two ball cage, which enables testing of small pins having dia. Less than 6 mm. (upto 3mm dia.)</p>	

Technical Data

Model	Unit	RAS	RASNE	RABI	RABI250	TWIN
Loads	Kgf	60, 100, 150	60, 100, 150	60, 100, 150, 187.5, 250	60, 100, 150, 187.5, 250	15, 30, 45 (Rockwell Superficial) 60, 100, 150 (Rockwell)
Indian Load	Kgf	10	10	10	10	3 Rockwell Superficial 10 Rockwell
Max. test Height	MM	230	230	230	295	295
Depth of Throat	MM	133	133	133	150	150
Max. Depth of Elevating screw bellow base	MM	240	240	240	310	310
Size of base (approx.)	MM	171x423	171x423	171x423	210x470	210x470
Machine Height	MM	635	635	635	845	845
Net. Weight (Approx.)	Kg.	75	75	75	137	126

Standard Accessories:

Model	RAS / RASNE	RABI / RABI250	TWIN
Testing Table 50 mm	1 no.	1 no.	1 no.
Testing Table 38 mm with V Groove for Round Jobs	1 no.	1 no.	1 no.
Diamond Indenter	1 no.	1 no.	1 no.
Steel Ball Indenter 1/16	1 no.	1 no.	1 no.
Test Plates Rockwell C	1 no.	1 no.	1 no.
Test Plates Rockwell B	1 no.	1 no.	1 no.
Test Plates Rockwell N	-	-	1 no.
Allen Spanners	5 nos.	5 nos.	5 nos.
Clamping Device	1 no.	1 no.	1 no.
Dash Pot Oil	1 Bottle	1 Bottle	1 Bottle
Bellow for elevating screw Protection	1 no.	1 no.	1 no.
Instruction Manual	1 Book	1 Book	1 Book
Brinell Microscope	-	1 no.	-
Steel Ball Indenter 2.5mm	-	1 no.	-
Test Plates HB 2.5 / 187.5	-	1 no.	-
Steel Ball Indenter 5mm	-	1 no.	-

Use other combination of 60, 100 & 150 loads Diamond Indenter & 1/16" Steel Ball Indenter permit carrying out tests on Rockwell D, F. & G scales. By use of 1/8", 1/4" & 1/2" dia. Ball Indenters in combination of 60, 100, & 150 kgf. Loads, tests can be carried out on Rockwell E, H, K, L, M, P, R, S & V Scales also.



ELECTROMECH ENGINEERS

21/999/1, Near Shikshak Colony, Jawaharnagar, Ichalkaranji - 416115, Dist. - Kolhapur,
State - M. S. India, Cell: - 8087309131, E Mail: - ich_anil@rediffmail.com