



Aditya Instruments



MODEL : AI-RAS



MODEL : AI-RAB 250



MODEL : AI-TWIN

FEATURES :

Hardness Testers Models AI-RAS, AI - RASM, AI - RABI, AI - RAB 250, AI - TWIN are manually operated. All these models are suitable for testing hardness of metals & alloys of all kinds hard or 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 schools, laboratories, tool room, inspection departments, factories etc. These testers strictly conform to IS : 1586 - 2000, BS : 891 parts 1 & 2, ASTM : E 18 for Rockwell Test, IS : 2281 - 1983, BS : 240, ASTM : E10 for Brinell Test & IS " 1586 - 2000, ASTM : E18 for Rockwell Superficial Test.

ROCKWELL SYSTEM

MODEL : AI RAS

Automatic load selection with automatic zero setting dial gauge. Manual Operation.

MODEL : AI RASM

Similar to 'AI RAS' but motorised model. Semiautomatic operation for production testing. Drive motor single phase 230 v 50 cycles.

ROCKWELL / BRINELL COMBINED SYSTEM

MODEL : AI-RABI

Automatic load selection with automatic zero setting dial gauge. Facility for Brinell Tests with 187.5 kgf. load with 2.5 mm ball Indenter, additional load 250 kgf. with 5 mm ball Indenter for testing hardness of non-ferrous metal. Manual Operation.

MODEL : AI-RAB 250

Similar to AI-RABI 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)

ROCKWELL / ROCKWELL SUPERFICIAL COMBINED SYSTEM

MODEL : AI TWIN

Manual load selection with automatic zero setting dial gauge. Manual Operation. Diamond Holder is guided in a set to two ball cage, which enables testing of small pins having dia. less than 6 mm. (upto 3 mm dia.)

STANDARD ACCESSORIES :

MODEL	AI-RAS/ AI-RASM	AI-RABI AI-RAB 250	AI-TWIN
Testing table 50mm. ø	1pc.	1pc.	1pc
Testing table 38mm. ø with 'V' groove for round jobs 6 to 45 mm. dia.	1pc.	1pc.	1pc
Diamond Indentor 120°	1pc.	1pc.	1pc
Steel Ball Indentor 1/16"	1pc.	1pc.	1pc
Test Block Rockwell 'C'	1pc.	1pc.	1pc
Test Block Rockwell 'B'	1pc.	1pc.	1pc
Test Block Rockwell Superficial 'N'	Nil	Nil	1pc
Allen Spanners	5 pcs	5 pcs	5pcs
Clamping Device	1pc.	1pc.	1pc
Dash pot Oil	1bottle	1bottle	1bottle
Rubber Below for elevating screw protection	1pc.	1pc.	1pc
Instruction Manual	1book	1book	1book
Brinell Microscope	Nil	1pc.	Nil
Steel Ball Indentor 2.5 mm	Nil	1pc.	Nil
Test Block HB 2.5 / 187.5	Nil	1pc.	Nil
Steel Ball Indentor 5 mm	Nil	1pc.	Nil

Use of other combinations of 60, 100 & 150 loads against Diamond indentor & 1/16" Steel Ball Indentor permit carrying out tests on Rockwell D, F & G scales. By use of 1/8", 1/4" & 1/2" dia. ball indentors 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.

TECHNICAL DATA :

MODEL	UNIT	AI-RAS	AI-RASM	AI-RABI	AI-RAB-250	AI-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)
Initial 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 below 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.	75Kg.	75Kg.	75Kg.	137Kg.	126Kg.