





Digital Rockwell & Combined Hardness Testing Machine



Automatic Loading/Unloading Cycle



Direct Digital Reading



Perfect vertical movement of loading plunger with minimum friction





Digital Rockwell, Rockwell Brinell Combined, Rockwell/Rockwell Superficial Combined System Hardness Testers

FIE Hardness Testers, Model : RAS-D, RAB-1-D,RAB-250-D & TWIN-D are manually operated. All these models are suitable for testing hardness of metals & alloys of all kinds hard or soft, whether flat, round & irregular shape. These testers are simple in design & easy to operate, yet sensitive and accurate. Various models from the wide range are suitable for Tech Institutes, Laboratories, Tool-rooms, Inspection, Heat treatment departments, Factories etc.

These testers strictly confirm to IS:1586-2 for Rockwell & Rockwell superficial test.

Model: RAS-D

- Manual load selection with automatic Zero setting dial gauge.
- Manual Operation.

Model : TWIN-D

- Manual load selection with automatic Zero setting dial gauge.
- Manual Operation.
- Diamond holder is guided in a ball cage, which enables testing of small pins having dia from 3.0 mm onwards.

Model: RAB-1-D

- Manual load selection & automatic Zero setting dial gauge.
- Facility for Brinell tests with 187.5 kgf. load with 2.5 mm ball indentor, additional load 250 kgf with 5 mm ball indentor for testing hardness of non-ferrous material.

Model: RAB-250-D

- Similar to 'RAB-1' but bigger capacity.
- Diamond holder is guided in a ball cage, which enables testing of small pins having dia from 3.0 mm onwards.

MODEL	UNIT	RAS-D	RAB-1-D	RAB-250-D	TWIN-D		
Loads	kgf.	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	3 (Rockwell Superficial) 10 (Rockwell)		
Max. Test Height	mm	230	230	330	330		
Depth of Throat	mm	133	133	150	150		
Max. depth of elevating screw below base	mm	240	240	355	355		
Size of base (approx.)	mm	170x430	170x430	210x474	210x474		
Machine Height (approx.)	mm	655	655	850	850		
Nett Weight (approx.)	kg.	65	65	100	100		

Technical Data :



Standard Accessories :

MODEL	RAS-D	RAB-1 / RAB-250-D	TWIN-D
Testing table 50 mm dia.	1 pc.	1 pc.	1 pc.
Testing table 38 mm dia. with 'V' groove for - round jobs 6 to 45 mm dia.	1 pc.	1 pc.	1 pc.
Diamond Indenter 120°	1 pc.	1 pc.	1 pc.
Steel ball Indenter 1/16"	1 pc.	1 pc.	1 pc.
Test block Rockwell 'C'	1 pc.	1 pc.	1 pc.
Test block Rockwell 'B'	1 pc.	1 pc.	1 pc.
Test block Rockwell Superficial 'N'	NIL	NIL	1 pc.
Allen Spanners	5 pcs.	5 pcs.	5 pcs.
Clamping Device	1 pc.	1 pc.	1 pc.
Dash Pot Oil	1 bottle	1 bottle	1 bottle
Rubber bellow for elevating screw protection	1 pc.	1 pc.	1 pc.
Instruction Manual	1 book	1 book	1 book
Brinell Microscope	NIL	1 pc.	NIL
Steel ball indentor 2.5 mm	NIL	1 pc.	NIL
Test block HB 2.5/187.5	NIL	1 pc.	NIL
Steel ball indentor 5 mm	NIL	1 pc.	NIL

Note : For Brinell scale - manually select (187.5 or 250 kgf) with respected ball indentor. At that time take reference of set point only, apply the load, then measure the impression diameter by Brinell microscope only. (No Brinell scale display on screen).

Due to continuous improvement of the product, SAROJ reserves all rights to change the above specifications without any prior notice.

Manufactured By :

Fuel Instruments & Engineers Pvt. Ltd.

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