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VYANKATESH ENG. WORKS

Mfg. of Universal, Impact, Hardness, Electronic Testing M/c & its Spares Undertake
Servicing & Calibration of above Testing Machines

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Rockwell Hardness Testing Machine Hardness Testers (Models : RAS, RAB-1, RAB-250, Twin)



RAS



RAB - 250



RAB - TWIN

Features :

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

Hardness Testers, Model RAS, RAB-1, RAB-250, TWIN are manually operated. All these models are suitable for testing hardness of metals and alloys of all kinds hard or soft, whether flat, round, or irregular shape. These testers are simple in design and easy to operate, yet sensitive & accurate. Various models from the wide range are suitable for schools, laboratories, tool-rooms, inspection, heat treatment departments, factories etc.

These testers strictly conform to IS : 1586-2000, ASTM : E 18 for Rockwell Superficial Test and IS : 2281 -2005, ASTM : E 10 for Brinell test.

Model RAS :	Model RAB-1	Model TWIN
Automatic load selection with automatic zero setting dial gauge.	Automatic load selection & automatic zero setting dial gauge. Facility for Brinell tests with 187.5 kgf. load with 2.5 mm Ball indicator, additional load 250 kgf. with 5mm Ball indenter for testing hardness of non-ferrous metals.	Automatic load selection with automatic zero setting dial gauge.
Manual operation.		Manual operation.
		Diamond holder is guided in a ball cage, which enables testing of small pins having dia. Less than 6 mm (up to 3mm dia.)
Model RASM (Motorised) :	Model RAB 250	
Similar to 'RAS' but motorised model. Semiautomatic operation for production testing. Drive motor single phase 230 V 50 Cycles.	Similar to 'RAB-1' but of bigger capacity. Diamond holder is guided in a ball cage, which enables testing of small pins having dia less than 6 mm (up to 3 mm dia.)	

Standard Accessories :

Model	RAS /RASM	RAB-1 / RAB-250	TWIN
Testing table 50mm dia	1 pc.	1 pc.	1 pc.
Testing Table 38mm dia with 'V groove for round jobs 6 to 45mm dia.	1 pc.	1 pc.	1 pc.
Diamond Indentor 120°	1 pc.	1 pc.	1pc.
Stell ball Indentor 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.	1pc.
Instruction Manual	1 Book	1 Book	1 Book
Brinell Microscope	Nil	1 pc.	Nil
Stell Ball Indentor 2.5mm	Nil	1 pc.	Nil
Test Block HB 2.5/187.5	Nil	1 pc.	Nil

Stell Ball Indentor 5mm	Nil	1 'pc. -.	Nil
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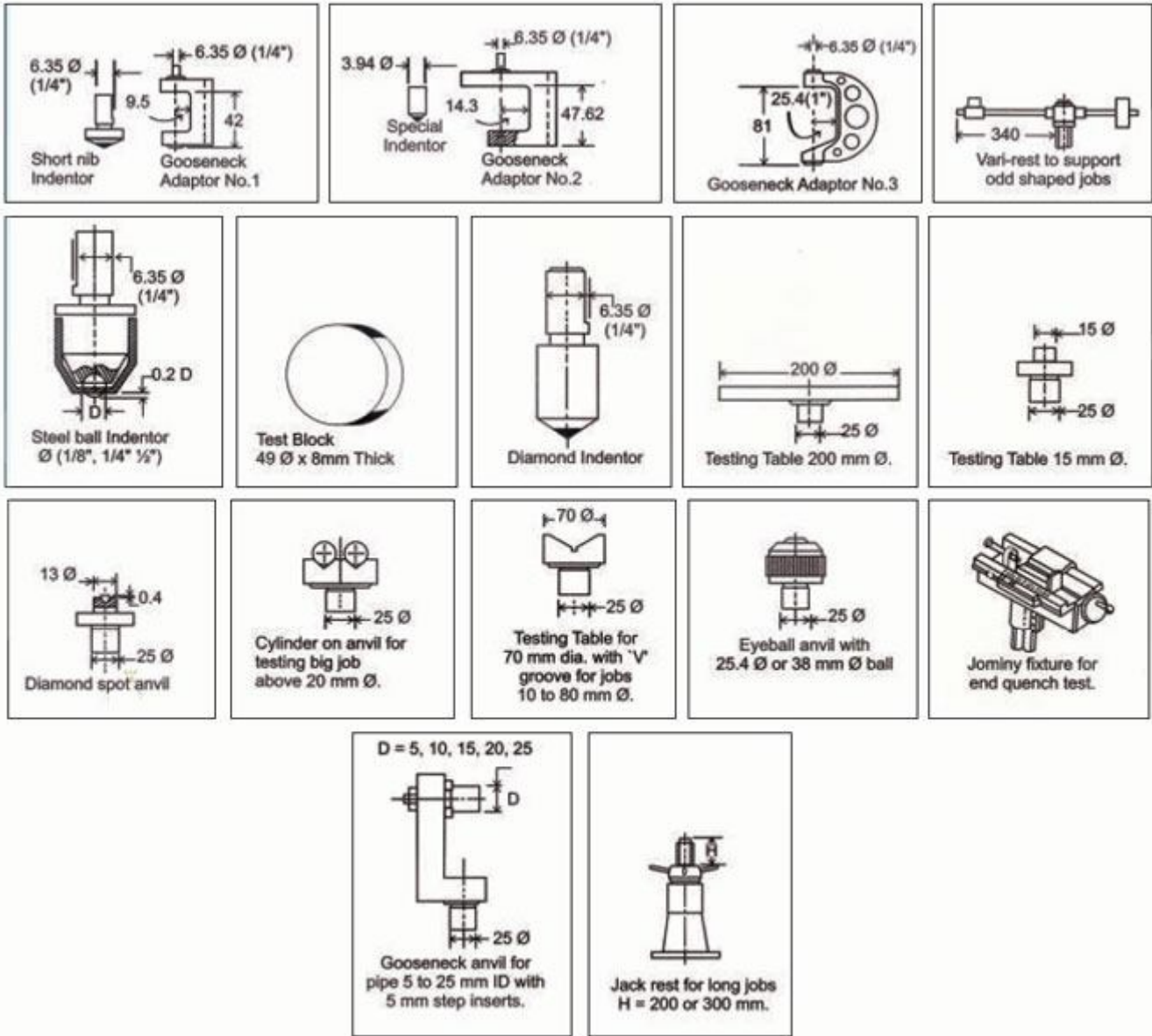
Technical Data :

Model	Unit	RAS	RASM	RAB-1	RAB-250	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	330	330
Depth of Throat	mm.	133	133	133	150	150
Max. depth of elevating screw below base	mm.	240	240	240	355	355
Size of base (approx.)	mm	170x430	170x430	170x430	210x474	210x474
Machine Height (approx.)	mm	655	655	655	850	850
Nett Weight (approx.)	kg.	65	65	65	100	100

Loads & Indentors for Hardness Testers for Rockwell & Brinell Tests.

Total load in kgf. (Initial load 10 kgf.)	60	100	150	187.5	250
Indentor	Diamond 120°	Ball 1/16" Ø	Diamond 120°	Ball 2.5 mm Ø	Ball 5mm
Test Scales	Rockwell A	Rockwell B	Rockwell C	Brinell, F/D ² =30	Brinell, F/D ² =10
Suitable for	Tests on case hardened stell	Annealed, Ferrous & non ferrous metals	Annealed, hardened & tempered deep case hardened steel	Annealed steel & cast irons	Copper, Copper alloys & Al. alloys

Use of combinations of 60, 100 & 150 kgf. loads against Diamond Indentor and 1/16" stell ball indentor permit carrying out tests on Rockwell D, F & G scales. By use of 1/18", 1/4" & 1/2" dia. ball indentors in combinations of 60, 100 & 150kgf. loads, tests can be carried out on Rockwell E, H, K, L, M, P, R, S & V scales also.



Due to constant R & D, specifications and features are subject to change without notice. The dimension given are approximate.

