



VERTEX

ROCKWELL HARDNESS TESTER



Rockwell Hardness Testers are suitable for checking hardness of metals and their alloys. Flat, round as well as irregular types of components can be tested on these machines. These machines are designed & developed considering the component size to be tested on the machines as well as load & scales to be used by the customer. These machines are manually operated, simple in design and easy to operate. Rockwell Hardness Testers are available in various models like VRS, VRS-150, VRB, VRB-250, VSM. These models strictly confirm to IS: 1586:2000, BS:891 part I & II, ASTM-E18 for Rockwell test and IS:2281:1983, BS:240, ASTM-E10 for Brinell test and IS:1586:2000, ASTM for Rockwell Superficial test.

APPLICATION:

Vertex make Rockwell hardness testers are suitable for checking hardness of metals and their alloys. Flat, round as well as irregular types of components can be tested on these machines. These machines are designed & developed considering the component size to be tested on the machines as well as the load & scales to be used by the customer. These machines are manually operated, simple in design & easy to operate. Rockwell Hardness Testers are available in various models like VRS, VRS-150, VRB, VRB-250 & VSM. These models strictly confirm to IS: 1586: 2000, BS: 891 part I & II, ASTM-E18 for Rockwell test and IS: 2281: 1983, BS : 240, ASTM-E10 For Brinell test and IS : 1586 :2000, ESTM-E18 for Rockwell superficial Test.

ROCKWELL MODELS:

VRS	Automatic weight selection & automatic zero setting dial gauge.
VRS - 150	Similar to VRS with extra test height & depth of throat.
VRB	Rockwell cum Brinell (2.5mm.ball/187.5kg. load) combined model, design similar to VRS.
VRB - 250	Construction of the machine is similar to VRS-150 with additional weight of 187.5 & 250kgf. and suitable ball holder for Brinell tests.
VSM	This is Rockwell cum Rockwell superficial combined model, with automatic weight selection. Rockwell superficial scales which is suitable for Checking very thin sheets and surface hardness, as well as all other Rockwell scales can be checked this machine.

SPECIFICATION:

Model	VRS	VRS-150	VRB	VRB-250	VSM
Test Loads (kgf)	60, 100, 150 (Rockwell)	60, 100, 150 (Rockwell)	60, 100, 150 (Rockwell) 187.5 (Brinell)	60, 100, 150 (Rockwell) 187.5, 250 (Brinell)	60, 100, 150 (Rockwell) 15, 30, 45 (Superficial)
Initial Load (kgf)	10	10	10	10	10 (Rockwell) & 3 (Rockwell Superficial)
Max. Test Height (mm)	215	295	215	295	295
Depth of Throat (mm)	132	145	132	145	145
Max. depth of elevating screw below base (mm)	230	290	230	290	290
Size of Base (mm) (Approx)	430 x 180	475 x 220	430 x 180	475 x 220	475 x 220
Machine Height (mm)	635	865	635	865	865
Net weight (Approx) kg.	65	105	65	105	125

STANDARD ACCESSORIES:

Model	VRS	VRS-150	VRB	VRB-250	VSM
Rockwell Diamond Indenter	1No.	1No.	1No.	1No.	1No.
Superficial Diamond	----	----	----	----	1No.
Testing Table Ø50mm	1No.	1No.	1No.	1No.	1No.
Testing Table 40mm with "V" groove for round jobs 6 to 45mm dia.	1No.	1No.	1No.	1No.	1No.
Steel Ball Indenter Ø1/16"	1No.	1No.	1No.	1No.	1No.
Steel Ball Indenter Ø2.5mm	----	----	1No.	1No.	----
Steel Ball Indenter Ø5mm	----	----	----	1No.	----
Test Block HRC	1No.	1No.	1No.	1No.	1No.
Test Block HRB	1No.	1No.	1No.	1No.	1No.
Test Block HB2.5/187.5	----	----	1No.	1No.	----
Test Block Rockwell Superficial 'N'	----	----	----	----	1No.
Steel Ball Ø1/16"	5Nos.	5Nos.	5Nos.	5Nos.	5Nos.
Allen Spanners	3Nos.	3Nos.	3Nos.	3Nos.	3Nos.
Clamping Device	1No.	1No.	1No.	1No.	1No.
Brinell Microscope	----	----	1No.	1No.	----
PVC Cover for machine	1No.	1No.	1No.	1No.	1No.
Rubber Bellow	1No.	1No.	1No.	1No.	1No.
Instruction Manual	1Book	1Book	1Book	1Book	1Book

DEMO VIDEO:

