



Hardness Testing Machines Series - RASNE (For Rockwell, Rockwell Superficial & Brinell Testing)



Principal :

Rockwell, Rockwell superficial & Rockwell cum Brinell tests consists of forcing an indenter (Diamond or Ball) into the surface of a test piece in two steps i.e. first with preliminary test force and thereafter with additional test force and then measuring depth of indentation after removal of additional test force (Remaining preliminary test force active) for measurement of hardness value.

RASNE series machines are suitable for Rockwell, Rockwell superficial & Rockwell cum Brinell tests. These are motorized digital Hardness testers having LCD display for easy hardness measurement. The results are displayed in 0.1 Rockwell unit for more accurate measurement.

Standard Accessories :

Model	RASNE-1	RASNET-1	RASNEB-1
Testing Table 50mm dia.	1	1	1
Testing Table 38mm dia. with 'V' groove for round jobs 6-45 mm dia.	1	1	1
Diamond indenter - Rockwell RA	1	-	1
Diamond indenter - Rockwell SF	-	1	-
Steel Ball Indentor 1/16" with 5 spare balls	1	1	1
Steel Ball Indentor 2.5 mm with 5 spare balls	-	-	1
Test Block Rockwell "C"	1	1	1
Test Block Rockwell "B"	1	1	1
Test Block HB 2.5 / 187.5	-	-	1
Test Block HR 30 N	-	1	-
Allen Spanners	5	5	5
Screw Driver	1	1	1
Clamping Device	1	1	1
Wooden Box for Std. Accessories	1	1	1
Telescopic Sleeves for Elevating screw position	1 Set	1 Set	1 Set
Spare Fuse 1 Amp.	1	1	1
Power Cable	1	1	1
Brinell Microscope	-	-	1
Machine Cover	1	1	1
Instruction Manual	1	1	1

Technical Data :

Model	Unit	RASNE-1	RASNET-1	RASNEB-1
Major Load	N (kgf)	588.4, 980.7, 1471 (60, 100, 150)	147.1, 294.2, 441.3, 588.4, 980.7, 1471 (15, 30, 45, 60, 100, 150)	588.4, 980.7, 1471, 1839, 2452 (60, 100, 150, 187.5, 250)
Minor Load	N (kgf)	98.07 (10)	29.42, 98.07 (3, 10)	98.07 (10)
Max. Test height	mm	230	230	230
Depth of throat	mm	133	133	133
Net wt. Approx.	kg.	75	77	77
M/c Dimensions	mm	L-450, W-175, H-627	L-450, W-175, H-627	L-450, W-175, H-627

ARUN Motorized Digital Hardness Tester :

Model	RASNE-1	RASNET-1	RASNEB-1
Type	Digital Rockwell	Digital Rockwell & Rockwell Superficial	Digital Rockwell cum Brinell
Operation Cycle	Automatic Load/Dwell/Unload	Automatic Load/Dwell/Unload	Automatic Load/Dwell/Unload
Preliminary Test Force	98.07N (10 kgf)	29.42N (3kgf) & 98.07N (10kgf)	98.07 N (10kgf)
Additional Test Force	490.3, 882.6, 1373N (50, 90, 140 kgf)	177.7, 264.8, 441.9, 490.3, 882.6, 1373N (12, 27, 42, 50, 90, 140 kgf)	490.3, 882.6, 1373, 1471, 2354N (50, 90, 140, 177.5, 240 kgf)
Total Test Force	588.4, 980.7, 1471N (60, 100, 150 kgf)	141.7, 294.2, 441.3, 588.4, 980.7, 1471N (15, 30, 45, 60, 100, 150 kgf)	5800.4, 980.7, 1471, 1839, 2452N (60, 100, 150, 187.5, 250 kgf)
Test Force Selection	By external dialing	By external dialing	By external dialing
Set Position	With LCD bar indicator	With LCD bar indicator	With LCD bar indicator
Key Board Entry	Through membrane switches for scale, GO-No GO & dwell time selection	Through membrane switches for scale, GO-ON GO & dwell time selection	Through membrane switches for scale, GO-ON GO dwell time selection
Resolution	0.1 Rockwell	0.1 Rockwell or 0.1 Rockwell Superficial	0.1 Rockwell
Output	Parallel output for connecting Dot Matrix Printer to get results indicating serial no. of tests, hardness scale, hardness value & high/good/low indication	Parallel output for connecting Dot Matrix Printer to get results indicating serial no. of tests, hardness scale, hardness value & high/good/low indication	Parallel output for connecting Dot Matrix Printer to get results indicating serial no. of tests, hardness scale, hardness value & high/good/low indication
Optional	Serial PD interface & windows software	Serial PC interface & windows software	Serial PC Interface & windows software for only Rockwell scales

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

Optional Accessories :

- Steel ball indenter 1/8", 1/4", 1/2".
- Testing Table 20mm dia.
- Testing Table 70mm dia. with 'V' groove for round jobs 10 to 80mm dia.
- Vari-rest to support add shaped jobs.
- Jominy test fixture for end quench test.
- Gooseneck Adoptor No.1.
- Special diamond indenter suitable for Gooseneck Adoptor No.1.
- Short nib diamond indenter suitable for Gooseneck Adoptor No.1.
- Gooseneck Adoptor No.2.
- Special diamond indenter suitable for Gooseneck Adoptor No.2.
- Gooseneck Adoptor No.3.
- Raised center testing table 15mm dia.
- Diamond Spot Anvil.
- Cylindron anvil for testing big jobs above 20mm dia.
- Eyeball anvil with 25.4mm dia. or 38mm dia. ball.
- Gooseneck anvil for pipes 5 to 25mm ID with 5mm step inserts.
- Jack rest for long and heavy jobs.

Manufactured by: **ARUN INDUSTRIES**

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