

# Digital Touch Screen Rockwell Hardness Testing Machine

**Series : RASNE-TS**



Over **60** years of consistent excellence



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# Digital Touch Screen Rockwell Hardness Testing Machine Series: RASNE-TS

## Series : RASNE-TS

Digital Touch Screen Rockwell  
Hardness Testing Machine, Model : RASNE-TS

Digital Touch Screen Rockwell Cum Superficial  
Hardness Testing Machine, Model : RASNET-TS

Digital Touch Screen Rockwell Cum Brinell  
Hardness Testing Machine, Model : RASNEB-TS



Final Result Window

### Features :

- Suitable for Rockwell tests.
- Manually operated.
- Test force selection by external dialing.
- Auto zero setting dial gauge.
- Motorized loading unloading system.
- 4.3" Touch screen display.

### Optional Built-in Thermal Printer, Auto load & scale selections.

All models confirm to respective standards as under -  
 IS : 1586-2, BS 10109-2 & ASTM E-18 for Rockwell Test  
 IS : 1586-2, BS 10189-2 & ASTM E-18 for Rockwell Superficial Test.  
 IS : 1500-2, BS 10003-2 & ASTM E-10 for Brinell Test.

RASNE-TS series machines are suitable for Rockwell superficial & Rockwell cum Brinell tests.

These are motorized Digital Hardness tester having 4.3" TFT High quality Color display with touch screen for easy hardness measurement. The results are displayed in 0.1 Rockwell units for more accurate measurement.

### Operation:

Various parameters of test can be set on setting screen on touch screen.

Such as a High/low limits, dwell time, auto/manual start, scale selection etc. All data can verify on pre load screen.

Machine operation is very simple. The normal mode pre load bar follow the pre load ok position, As a Same Time status bar will indicate pre load condition.

Loading/unloading cycle will be completed and hardness is shown on Result Screen with HIGH/OK/LOW indication. Lower down elevating screw.

Screen will show normal mode for next cycle. Also when we required 'AUTO START' set "AUTO MODE ON" on setting screen system will set for Auto mode.

Then raise elevating screw slowly through pre load bar indication till ok position then it will start loading /unloading cycle automatically & hardness is shown on Result screen with HIGH/OK/LOW indication, which Indenter we are use which load we are selected and what was a dwell set in cycle.

FIE's new 'RASNE' series of Hardness Testing Machines come with much improved design & look with following major design changes.

These models are provided with automatic working cycle and 4.3" TFT High quality Color display with touch screen with 0.1 Rockwell resolution.

This insures productivity with better accuracy.



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## Standard Accessories :

Model	RASNE-TS	RASNET-TS	RASNEB-TS
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 indenter 1/16" with 5 spare balls	1	1	1
Steel Ball indenter 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
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 Specifications :

Model	Unit	RASNE-TS	RASNET-TS	RASNEB-TS
Major Load	N	588.4, 980.7, 1471	147.1, 294.2, 441.3, 588.4, 980.7, 1471	588.4, 980.7, 1471, 1839, 2452
	kgf	(60,100, 150)	(15,30,45,60, 100,150)	(60,100,150, 187.5,250)
Minor Load	N	98.7	29.42, 98.07	98.07
	kgf	(10)	(3, 10)	(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

## FIE Digital Hardness Tester :

Model	RASNE-TS	RASNET-TS	RASNEB-TS
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	98.07 N (10 kgf)	29.42 N (3kgf) & 98.07N (10 kgf)	98.07 N (10 kgf)
Additional Test Force	490.3, 882.6, 1373 N (50, 90, 140 kgf)	117.7, 264.8, 411.9, 490.3, 882.6, 1373 N (12, 27, 42, 50, 90, 140 kgf)	490.3, 882.6, 1373, 1471, 2354 N (50, 90, 140, 177.5, 240 kgf)
Total Test Force	588.4, 980.7, 1471 N (60, 100, 150 kgf)	147.1, 294.2, 441.3, 588.4, 980.7, 1471 N (15, 30, 45, 60, 100, 150 kgf)	588.4, 980.7, 1471, 1839, 2452 N (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
Data Entry	Through TFT screen for scale, Higher & Lower limit & dwell time selection.	Through TFT screen for scale, Higher & Lower limit & dwell time selection.	Through TFT screen for scale, Higher & Lower limit & dwell time selection.
Resolution	0.1 Rockwell	0.1 Rockwell or 0.1 Rockwell Superficial	0.1 Rockwell
Optional	Built-in Thermal Printer, Auto load & scale selections.	Built-in Thermal Printer, Auto load & scale selections.	Built-in Thermal Printer, Auto load & scale selections.

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 200mm dia. Testing table 70mm dia. with V groove for round jobs 10mm to 80mm dia. ●Vari-rest to support odd shaped jobs. ●Jominy test fixture for end quench test. ● Gooseneck Adopter No.1 ●Special Diamond Indenter suitable for Gooseneck Adopter No.1. ● Short Nib Diamond Indenter suitable for Gooseneck Adopter No. 1. ● Gooseneck Adopter No. 2 . ● Special Diamond Indenter suitable for Gooseneck Adopter No.2. ● Gooseneck Adopter 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.

Due to constant Research & Development, Specifications and Features are subject to change without notice.

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Manufactured By :

**Fuel Instruments & Engineers Pvt. Ltd.**

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