Fully Automatic Touch Screen Rockwell Hardness Tester
Model : RASN-TSFA

Fully Automatic Touch Screen Rockwell Cum Superficial Hardness Tester
Model : RASNT-TSFA

Fully Automatic Touch Screen Rockwell Cum Brinell Hardness Tester
Model : RASNB-TSFA

Features :

- Suitable for Rockwell tests.
- Fully automatic Motorized operation.
- Auto zero setting dial gauge.
- Motorized loading unloading system.
- 4.3" Touch screen display.
- Built-in Hardness converter.
- With 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.

RASN-TSFA 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, printer selection, scale selection etc.

All data can verify on pre load screen.

Machine operation is very simple. After pressing "CYCLE START" elevating screw will be raised till pre-load position followed by dwell time & Cycle complete with hardness indication in HIGH/OK/LOW.

After hardness indication user can get a result print-out indicating date, time, hardness value, type of indenter & load applied.

Elevating screw will lowered automatically to its previous position.

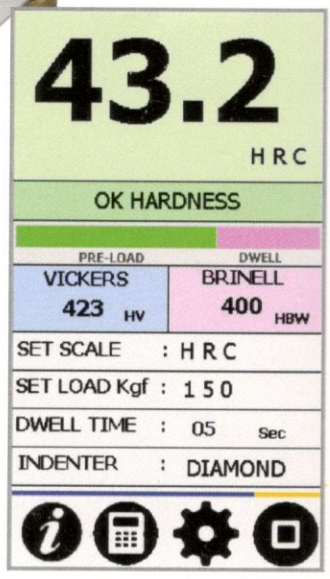
Hardness conversions can be done through smart hardness converter on Screen.

FIE's new 'RASNE-TSFA' 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 & Built-in Thermal Printer.

This insures productivity with better accuracy.

Result Print-out



Final Result Window

Standard Accessories :

Model	RASN-TSFA	RASNT-TSFA	RASNB-TSFA
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
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 Specifications :

Model	Unit	RASN-TSFA	RASNT-TSFA	RASNB-TSFA
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	kgf	98.7 (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

FIE Digital Hardness Tester :

Model	RASN-TSFA	RASNT-TSFA	RASNB-TSFA
Type	Digital Rockwell	Digital Rockwell & Rockwell Superficial	Digital Rockwell cum Brinell
Operation Cycle	Automatic - Load/Dwell/Unload Auto load & scale selections.	Automatic - Load/Dwell/Unload Auto load & scale selections.	Automatic - Load/Dwell/Unload Auto load & scale selections.
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)	177.7, 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)	141.7, 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, GO-NO GO & dwell time selection.	Through TFT screen for scale, GO-NO GO & dwell time selection.	Through TFT screen for scale, GO-NO GO & dwell time selection.
Resolution	0.1 Rockwell	0.1 Rockwell or 0.1 Rockwell Superficial	0.1 Rockwell
Output	USB Storage facility for test results & ethernet connectivity for computers. Built-in Thermal Printer.	USB Storage facility for test results & ethernet connectivity for computers. Built-in Thermal Printer.	USB Storage facility for test results & ethernet connectivity for computers. Built-in Thermal Printer.

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 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 25.4mmdia. 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.