



GROUP

Over **60** years of
consistent excellence

Touch Screen Rockwell Hardness Testing Machines

Series : RASN-TS
(Semi Automatic)

RASN-TSFA
(Fully Automatic)



With Built in Thermal Printer



Touch Screen Display



USB Connectivity



CE
CERTIFIED



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Touch Screen Rockwell
Hardness Testing Machine, Model : RASN-TS/TSFA
Touch Screen Rockwell Cum Superficial
Hardness Testing Machine, Model : RASN-TS/TSFA
Touch Screen Rockwell Cum Brinell
Hardness Testing Machine, Model : RASN-TS/TSFA

Features :

RASN-TS

- Suitable for Rockwell tests.
- Motorized loading unloading
- Touch screen display.
- With Built-in Thermal printer.
- PC Software Optional.
- USB Connectivity.

RASN-TSFA

- Suitable for Rockwell tests.
- Fully automatic Motorized operation.
- Touch screen display.
- With Built-in Thermal printer.
- Auto load & scale selections.
- Data Storage on USB.
- PC Software Optional.
- Low cycle time.
- USB Connectivity.

All models confirm to IS:1586-2 standards .

These are Manual/Motorized Digital Hardness tester having 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, start, printer selection, scale selection etc.

All data can verify on pre load screen.

For **RASN-TSFA** : 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. Elevating screw will lowered automatically to its previous position.

For **RASN-TS** : Place the specimen on table and lift the table till set point to reach. Once set point reached.

further operation like loading, dwell and unloading takes place automatically.

After hardness indication user can get a result print-out indicating date, time, hardness value, Scale. Result stored in HMI with Date, Time, Status which can be take any time on USB port in CSV formats.

FIE's new 'RASN-TS/TSFA' series of Hardness Testing Machines come with much improved design & look with following major design changes.

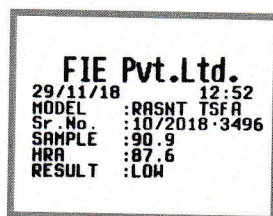
This insures productivity with better accuracy.



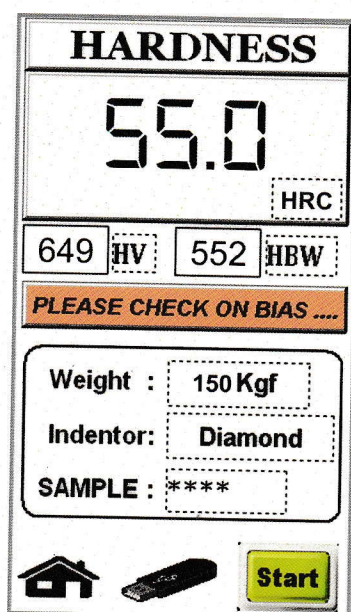
RASN-TS



RASN-TSFA



Result Print-out



Final Results



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Series : RASN-TS (Semi Automatic), RASN-TSFA (Fully Automatic)

Standard Accessories :

Model	RASN-TSFA RASN-TS	RASNT-TSFA RASNT-TS	RASNB-TSFA RASNB-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 HBW 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	RASN-TSFA RASN-TS	RASNT-TSFA RASNT-TS	RASNB-TSFA RASNB-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	kgf	98.7 (10)	29.42, 98.07 (3, 10)	98.07 (10)
Max Test height	mm	215	215	215
Depth of throat	mm	133	133	133
Net Wt. Approx.	kg	75	77	77
M/c dimensions	mm	L-450	L-450	L-450
		W-175	W-175	W-175
		H-627	H-627	H-627

FIE Digital Hardness Tester :

Model	RASN-TSFA / RANT-TSFA / RASNB-TSFA	RASN-TS / RANT-TS / RASNB-TS
Type	Digital Rockwell	Digital Rockwell & Rockwell Superficial
Operation Cycle	Automatic - Load/Dwell/Unload Auto load & scale selections.	Automatic - Load/Dwell/Unload Manual load & scale selections.
Test Force Selection	Auto	By external dialing
Set Position	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.
Resolution	0.1 Rockwell	0.1 Rockwell or 0.1 Rockwell Superficial
Output	Built-in Thermal Printer + USB Storage	Built-in Thermal Printer

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 • PC Software.

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

HARDNESS

550

HRC

Touch Screen Rockwell Hardness Testing Machine

Series :
RASN-TS
(Semi Automatic)

RASN-TSFA
(Fully Automatic)



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Manufactured By :

Fuel Instruments & Engineers Pvt. Ltd.

Plot No. 68 & 89, Parvati Co-op Industrial Estate, YADRAV-416 145 (Ichalkaranji),
Tal : Shirol, Dist : Kolhapur, Maharashtra State, INDIA.

Cell : +91 98223 94981, E-mail : mrk@fietest.com

Web : www.fiegroup.in, www.fietest.com, www.fuelinstrument.com