

RSD SERIES

THE IDEAL SOLUTION FOR FAST, HIGH THROUGHPUT HARDNESS TESTING!

RSD series family of AFFRI® testers include several new features that make precision hardness testing faster and easier than ever before. AFFRI® clamping design gives you increased Rockwell and Superficial scale testing capacities in conformance with ASTM E-18 in over 16 different models.

CLAMPING

The series AFFRI® RSD clamping system holds large parts securely through out the test cycle without the need for support fixturing for easy operation and increased throughput.

SINGLE ACTION TEST STROKE

All series RSD testers feature a single action test stroke that clamps and applies minor and major test loads with one easy motion to simplify testing and reduce training time and cost.

THE SURFACE REFERENCE

The top surface referencing design minimizes errors caused by anvil problems associated with dirt or scale. This reduces sample preparation time and increased accuracy and speed.

2 INCH CLAMP STROKE

The 2 inch clamping stroke enables operations to clamp and test parts of various sizes in one easy motion without the need for height adjustments for easy of use and faster testing.

ABSOLUTE MEASURE

Absolute accuracy even if test piece deflects during test cycle; the head travels down and remains constantly clamped on test surface. Eliminating the need to repeat the test. The first test is as accurate as the last ABSOLUTE RESULT.

LARGE AREA BASE

wide and stable work holder plate to support masses beyond 2000 kg and special fixtures or anviling



The Series RSD Clamping System permits testing speeds of over 1000 per hour.



The top surface referencing design of the Series RS minimizes errors caused by anvil problems due to dirt or scale



Portable with magnetic clamping

RSD DIGITAL HEAD

Features single action clamp and test stroke, a precision load system, large LCD digital display, operator selectable 0 to 99 second dwell time, adjustable Hi/Low tolerance limits, 3-way pass/fail colored light indication of out of tolerance hardness conditions, end of test light and audible signal, hardness conversions, selectable memory storage of up to 300 readings, average hardness and RS-232 output port. Available with Regular or Superficial Rockwell test loads.
Regular Rockwell: Major loads of 150, 100 and 60 kgf and a 10 kgf minor load
Superficial Rockwell: Major loads of 45, 30 and 15 kgf and a 3 kgf minor load

SIZE 206 STAND

Traditional testing stand with fixed head includes an adjustable elevating screw with cover. Vertical capacity: 8 1/2 inches. Horizontal capacity: 7 1/2 inches.

SIZE 270 STAND

Adjustable testing stand with up to 10 1/2 inch vertical capacity and 400 kgf of clamping force. Adjustment to vertical capacity are easily done with the test head adjustment knob for heavy duty clamping action. Vertical capacity: 10 1/2 inches. Horizontal capacity: 6 1/2 inches. Includes removable anvil stand for small part testing. An 11x13 inch base support large parts securely.

SIZE 330 STAND

Adjustable testing stand with up to 13 inch vertical capacity and 400 kgf of clamping force. Adjustment to vertical capacity are easily done made with the test head adjustment knob for heavy duty clamping action. Vertical capacity: 13 inches. Horizontal capacity: 8 inches. Includes removable anvil stand for small part testing. An 13x15 inch base support large parts securely.

RS MAG

A real Portable Hardness tester conform to ASTM E18 and ISO 6508 Standards. It is so simple and easy to use that there is no need for any particular preparation by the operator. Identify the test area and place the hardness tester on the test sample, then lock the magnetic lever, the tester will strongly adhere to the test piece and remain clamped for the entire test cycle: you pull the single start lever for few seconds and the head moves down dynamically until it makes contact with test surface and generates the measure cycle.

TEST HEADS		SIZE 206	SIZE 270	SIZE 330	PORTABLE	REGULAR ROCKWELL SUPERFICIAL ROCKWELL
		206 RSD 206 SD	270 RSD 270 SD	330 RSD 330 SD	RS MAG	
TEST FRAMES						



Penetrator extensions permits testing in hard to reach areas (code 13606)



Clamping feature allows for testing large, overhanging parts with out the need for additional fixturing



Custom support fixturing is available for easing part handling and increasing testing throughput (code A009.0.006)



Optional elevating screw accommodates all standard anvils, and is used for quick clamping and rapid height adjustments (code A012.0.000)

TECHNICAL DATA: RSD DIGITAL

Test heads	Regular Rockwell	Superficial Rockwell
Minor load	10 kgf	3 kgf
Major load	60, 100, 150 kgf	15, 30, 45 kgf
Test Scales (proper penetrator required)	HRC, A, B, D, F G, L, M, R	15, 30, 45 HRN 15, 30, 45 HRT
Load application	Manual	
Resolution	0,1	
Clamping force	20 to 400 kgf	
Clamping stroke	2"	
3-way sorting lights	yes	
End of test alarm	yes	
Hardness conversions	yes	
300 reading memory	yes	
Average hardness	yes	
0-99 sec. test cycle	yes	
RS-232	yes	
Power supply standard	110V 50/60Hz - 60 PSI	
Power supply optional	220V 50Hz - 60 PSI	

TEST FRAMES

	SIZE 330	SIZE 270	SIZE 206	RS MAG
Vertical capacity	13" (adjustable)	10,5" (adjustable)	8,5" (adjustable)	2" (adjustable)
Horizontal capacity	8"	6,5"	7,5"	-
Base dimensions (LxW)	13" x 15"	11" x 13"	7" x 17"	4" x 7"
Shipping weight (including head)	235 lb	205 lb	135 lb	100 lb
Shipping size (LxWxH) inch	30x21x38	24x18x36	15x24x40	15x24x40

STANDARD ACCESSORIES (NO FOR RS MAG)

- C scale penetrator
- 1/16" ball penetrator
- Flat Anvil
- Small vee/spot anvil
- Large vee anvil
- Dust cover
- Anvil mount (size 4 & 5 only)
- Wrench kit
- HRB or 30 T scale test block
- HRC or 30N scale test block
- Pocket conversion chart
- Operators manual

OPTIONAL ACCESSORIES

- 1/8" ball penetrator
- 1/4" ball penetrator
- Printer
- Penetrator extension
- Statistical software (PC required)
- Adjustable elevating screw (size 4 & 5 only)
- Anvil adapter for other Affri Rockwell anvils/ fixturing

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