



Fowler's Deluxe Digital Rockwell hardness testers—high accuracy and reliability attained through advanced production technology.

Supports all standard Rockwell and Superficial Scales.

- Hardness conversion. Hardness values can be converted to other scales in compliance with SAE (J-417B), ASTM (E-140) and JIS standards.
- Hardness Value OK/NG Criteria. Capability of setting upper and lower limits for OK/NG display.
- Plastic measurement mode. In compliance with ASTM and JIS is activated by one-touch easy operation.
- Steady load spindle mechanism for constant & accurate measurement on cylindrical and spherical surfaces.
- Easy “zero” setting with level meter and electronic sound, the minor load can be set easily without watching the digital display by means of the LED level meter and electronic sound.
- Automatic or manual start. In “AUTO” measuring mode, test load is automatically applied once the minor load has been set.
- RS-232C & Parallel Centronics Output. Allows connection to PC and/or any standard Centronics computer.
- User friendly operation panel. All test conditions such as measuring scales, dwell time, conversion scales, etc. can be conveniently set on the durable front membrane sheet panel.

SPECIFICATIONS

Minor load	Automatic setting (LED lever meter and electronic position setting sound monitoring: Fine adjustment is unnecessary.)
Load control	Automatic (Application—holding—release)
Start operation	Automatic or manual
Loading speed	Approximately 2 sec. (fixed)
Dwell time	1-99 sec. (Key entry in units of second/Factory setting: 5 sec.)
Plastic measurement mode	Standard function (one-touch selection), time up to hardness value display after release of the test load: 1 to 99 sec.
Hardness conversion	Hardness conversion capable in compliance with SAE (J-417b), ASTM (E-140), and JIS
OK/NG criteria	Upper and lower limits setting, and OK/NG display (HR 0 to 130, min. 0.1 hardness setting)
Output signal	RS-232C (Baud rate: 300—19200, Factory setting/1200 bps) and Centronics
RS-232C output & printout modes	<ul style="list-style-type: none"> • Measurement data only; • Measurement data & evaluation results (max. value, min. value and OK/NG) • Measurement data & conversion data; • Measurement data, conversion data and evaluation results (max. value, min. value and OK/NG)
Power supply:	Single phase AC 100—240V 50/60 Hz.





Deluxe Digital Rockwell Hardness Tester

MORE SPECIFICATIONS

	54-700-700	54-700-705	54-700-775
Minor load	98.07(10) N kgf	29.42(3), N Kgf	29.42(3) N Kgf & 98.07(10), N Kgf
Test load	588.4(60), 980.7(100) 1471(150), N kgf	147.1(15), 294.2(30), 441.3(45), N kgf	147.1(15), 294.2(30), 441.3(45), 588.4(60), 980.7(100), 1471(150), N kgf
Scale display:	C, D, A, G, B, F, K, E, H, P, M, L, V, S, R, 30X, 45X, 15Y, 30Y, 45Y	15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X 15W, 30W, 45W, 15X, 30X 45X	C, D, A, G, B, F, K, E, H, P, M, L, V, S, R, 15N, 30N, 45N, 15T, 30T 45T, 15Y, 30Y, 45Y
Max. specimen			
Height:	5.9" (150mm)	5.9" (150mm)	9.45" (240mm)
Depth:	5.9" (150mm)	5.9" (150mm)	5.9" (150mm)
Dimensions:	W 7 x D 17.32 x H 25.87" (180 x 440 x 657mm)	W 7 x D 17.32 x H 25.87" (180 x 440 x 657mm)	W 7 x D 17.50 x H 31.25" (180 x 444 x 793mm)
Weight	154 lbs. (70 kg)	154 lbs. (70 kg)	165 lbs. (75 kg)

STANDARD ACCESSORIES	54-700-700	54-700-705	54-700-775
Hardness blocks:			
• HRC	1	-	1
• HRB	1	-	1
• HR30N	-	1	1
• HR30T	-	1	1
• Diamond indenter	1	1	1
• Steel ball indenter— dia. 1/16"(1.588mm)	1	1	1
• Spare steel ball— dia. 1/16"(1.588mm)	10	10	10
• Anvil (flat) —dia. 2.35"(60mm)	1	1	1
• V-Anvil (large)	1	1	1
• Machine cover	1	1	1
• Instruction and maintenance manual	1	1	1
• Accessory box	1	1	1



Order No.	Description
54-700-700	6" Rockwell Hardness Tester
54-700-705	6" Superficial Hardness Tester
54-700-775	9" Twin Rockwell Hardness Tester
Optional Accessories:	
54-700-716	Replacement diamond indenter
54-700-717	Replacement ball indenter 1/16".
54-700-718	Steel ball indenter 1/8" (3mm).
54-700-719	Steel ball indenter 1/4" (6mm).
54-700-720	Steel ball indenter 1/2" (12.7mm).
54-700-725	Round table 8" (200mm) dia.
54-700-734	Carbide spot anvil
54-700-735	Small raised v-shaped anvil 3/8"
54-700-736	Spot anvil
54-700-737	Diamond spot anvil
54-700-740	Long specimen testing jig: Jack-rest.
54-700-745	Micro test table for Jominy test
54-700-750	63/65 RC test block.
53-760-066*	Superficial HR30N 75-80