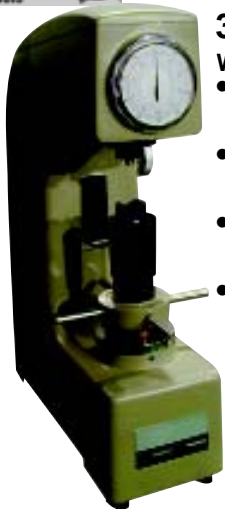




Measuring Tools



3R-TYPE HARDNESS TESTER WITH AUTOMATIC DIAL WEIGHT SELECTION

- Designed for measuring hardness of metals and alloys of all kinds, hard or soft whether flat, round or irregular in shape.
- Simple in design and easy to operate, yet sensitive and accurate testing results can be obtained with these testers.
- They are ideally suitable for schools, laboratories, tool rooms, inspection and heat treatment departments and factories.
- Conforms to ISO 33804-1966 and BS: 891-1962 Part I and Part II for Rockwell test.

Model No. 639-2030

Different Rockwell Hardness Scale

Standard Accessories

- 5-3/4" Testing Table
- 2-3/16" Testing Table
- 2-3/16" Testing Table
- 120 ; Diamond Penetrator
- Rockwell A Test Block (1Pc)
- Rockwell B Test Block (1 Pc)
- Rockwell C Test Blocks (3Pcs)
- Screwdrivers (2Pcs)
- Complete instruction Manual
- Dust- Proof Plastic cover

HARDNESS TESTER ACCESSORIES

Description	Model No.
Large Flat Anvil	HARD-100
Small Flat Anvil	HARD-101
V-Notch Anvil	HARD-102
Diamond Penetration	HARD-103
Steel Ball Penetration	HARD-104
5 Pcs Steel Ball Dia. 158mm	HARD-105
Rockwell Standard Block 80-85 HRB	HARD-106
Rockwell Standard Block 85-95 HRB	HARD-107
Rockwell Standard Block 60-70 HRC	HARD-108
Rockwell Standard Block 35-55 HRC	HARD-109
Rockwell Standard Block 20-30 HRC	HARD-110
Large Screw Driver	HARD-111
Small Screw Driver	HARD-112
Accessory Box	HARD-113

Loads and Indicators

Maximum Load (KGF)	150
Load Range (KGF)	60,100,150
Initial Range Load(KGF)	10
Maximum Test Height	4-1/4"
Depth of Throat	5-1/4"
Max. Depth of Spindle Below Base	2"
Size of Base	7x18"
Machine Height	24-1/2"
Approximate Net Weight (lbs)	150

Scale	Penetrator	Loading kg.	Applications	Brinell vale	Working Range
A	Diamond 120j	60	Carbide, thin steel, shallow case-hardened steel, case-carbonized surfaces	Over HB400	40-91 for hardness greater than C65
B	1/16" Ball	100	Aluminum alloys, copper alloys, unhardened steel etc. In rolled, draw, extruded or cast metal	HB 100-240	30-100 for hardness lower than C65
C	Diamond 100j	150	Hard cast irons, pearlitic malleable iron, steel, deep case hardened steel, Titanium	Over HB230	20-70 for hardness lower than C65
D	Diamond 100j	100	Pearlitic malleable iron, thin steel & medium case-hardened steel	Over HB400	40-77 for intermediate load between A & C scale
E	1/16" Ball	100	Cast iron, Aluminum and magnesium alloys, bearing metals	Below HB125	50-100 for hardness lower than HRB0
F	1/16" Ball	60	Thin soft sheet metals. Annealed copper alloys	HB 50-120	30-100 for hardness lower than HRB0
G	1/16" Ball	150	Copper-Nickel-Zinc and Cupro-Nickel alloys, malleable irons	HB 120-280	30-90 for hardness slightly > than HRB 100 upper limit G92
H	1/8" Ball	60	Lead, Zinc, Aluminum	HB	70-100
K	1/8" Ball	150	Bearing metals, very soft or thin material	HB 100-200	40-100

MINI-INTERFACE SET

Mini-interface is an integration of interface and COM plugs, designed for portable use



Digital Caliper not included

- 9 pin male COM port design for connection on different SPC cable.
- Much smaller interface size than model 101-0040.
- Fine quality cream-colored plastic case.



Model No. 101-0040

Set include:

- One integrated interface with one 9 pin male end (for SPC cable) and 9 pin female end (for PC COM port).
- One SPC connection cable, 4 pin flat on one end (for connecting digital measuring tools), 9 pin female on other (for connecting interface).
- Two floppy disk contain easy operating interface software.
- One Plastic case size is 1-1/2"x4"x7" (3.5x10.4x17.5mm)

Interface Size: 17 x 33x 64mm
(7/10 x 1-3/10 x 2-1/2")

INTERFACE & MICRO PRINTER SET

- Signal input cable with 25 pin plug.
- Offers various statistical data:
All input data
Number of data inputs (N)
Maximum value (MAX)
Minimum value (MIN)
Average (X-bar)
Standard Deviation (S)
- Power Supply: AC adaptor(DC5V, 1.7A)



Model No. 101-0050

Interface Software Win 95/98 Interface Software

Three function buttons
make an easy operation

