

**SHR-1500D Digital Rockwell Hardness Tester**
**Features:**

- Traditional dead weight system
- Automatic test cycle (loading, dwell, unloading)
- Supplied with 5.6 inch high resolution full color touch screen
- Direct display of indenter type, dwell time, test load, test scale & conversion scale
- 15 Rockwell scales selectable
- Hardness scales conversion available
- Test results storage in real time
- Automatic calculation of Max., Min. & Avg. value
- Built-in thermal printer for test results printout
- RS232 interface for PC connectivity

**Standard Compliance:** ISO 6508; ASTM E-18; JIS Z2245; GB/T 230.2

**Applications:**

Quenched steel; Tempered steel; Annealed steel; Cold and hard casting; Malleable cast iron; Hard alloy steel; Aluminum alloy; Copper alloy; Bearing steel etc.


**Specifications:**

| Model                          | SHR-1500D  |
|--------------------------------|--|
| Preload                        | 10kgf (98.07N)   |
| Main Load                      | 60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)  |
| Indenter                       | Diamond Rockwell Indenter & Ball Indenter With Dia. 1.588mm                                    |
| Loading Method                 | Automatic (loading/dwell/unloading)  |
| Rockwell Test Scales Available | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V  |
| Hardness Scales Conversion     | Vickers, Knoop, Brinell, Shore, Rockwell: A, B, C, D, E, F, G, K, 15N, 30N, 45N, 15T, 30T, 45T |
| Hardness Reading               | Touch Screen Panel   |
| Data Output                    | Built-in Thermal Printer; RS232 Interface  |
| Resolution                     | 0.1HR  |
| Dwell Time                     | 0-60 seconds   |
| Max. Height Capacity           | 175mm  |
| Throat                         | 165mm  |
| Power Supply                   | AC220V, 50Hz   |
| Overall Dimension (L*W*H, mm)  | Machine: 520 x 215 x 700; Packing Dimensions: 650 x 370 x 950                                  |
| Weight                         | Net Weight: 78kg; Gross Weight: 100kg  |

**Standard Accessories:**

| No. | Name                            | Qty.  |
|-----|---------------------------------|-------|
| 1.  | Machine                         | 1 Set |
| 2.  | Diamond Rockwell Indenter       | 1 PC  |
| 3.  | Ball Indenter With Dia. 1.588mm | 1 PC  |
| 4.  | Weights: A, B, C                | 3 PCS |
| 5.  | Large Flat Anvil                | 1 PC  |
| 6.  | Middle Flat Anvil               | 1 PC  |
| 7.  | V Type Anvil                    | 1 PC  |
| 8.  | Hardness Block 20~30 HRC        | 1 PC  |
| 9.  | Hardness Block 60~70 HRC        | 1 PC  |

| No. | Name                       | Qty.  |
|-----|----------------------------|-------|
| 10. | Hardness Block 80~100 HRB  | 1 PC  |
| 11. | Level Adjustable Feet      | 4 PCS |
| 12. | Spirit Level / Level Gauge | 1 PC  |
| 13. | Wrench                     | 1 PC  |
| 14. | Screw Driver               | 1 PC  |
| 15. | Fuse 2A                    | 2 PCS |
| 16. | Anti-dust Cover            | 1 PC  |
| 17. | Power Cable                | 1 PC  |
| 18. | User Manual                | 1 PC  |

### SHR-1500DH Digital Rockwell Hardness Tester

#### Features:

- Extended workpiece accommodation (vertical: max. 400mm)
- Traditional dead weight system
- Automatic test cycle (loading, dwell, unloading)
- Direct display of indenter type, dwell time, test load, test scale & conversion scale
- 15 Rockwell scales selectable
- Hardness scales conversion available;
- Test results storage in real time
- Automatic calculation of Max., Min. & Avg. value
- Built-in stylus printer for test results printout
- RS232 interface for PC connectivity

**Standard Compliance:** ISO 6508; ASTM E-18; JIS Z2245; GB/T 230.2

#### Applications:

Quenched steel; Tempered steel; Annealed steel; Cold and hard casting; Malleable cast iron; Hard alloy steel; Aluminum alloy; Copper alloy; Bearing steel etc.



#### Specifications:

| Model                          | SHR-1500DH   |
|--------------------------------|--|
| Preload                        | 10kgf (98.07N)   |
| Main Load                      | 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)  |
| Indenter                       | Diamond Rockwell Indenter & Ball Indenter With Dia. 1.588mm                                    |
| Loading Method                 | Automatic (loading/dwell/unloading)  |
| Rockwell Test Scales Available | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V  |
| Hardness Scales Conversion     | Vickers, Knoop, Brinell, Shore, Rockwell: A, B, C, D, E, F, G, K, 15N, 30N, 45N, 15T, 30T, 45T |
| Hardness Reading               | LCD Display  |
| Data Output                    | Built-in Stylus Printer; RS232 Interface   |
| Resolution                     | 0.1HR  |
| Dwell Time                     | 0-60 seconds   |
| Max. Height Capacity           | 400mm  |
| Throat                         | 165mm  |
| Power Supply                   | AC220V, 50Hz   |
| Overall Dimension (L*W*H, mm)  | Machine: 520 x 215 x 880; Packing Dimensions: 650 x 370 x 1140                                 |
| Weight                         | Net Weight: 78kg; Gross Weight: 100kg  |

#### Standard Accessories:

| No. | Name                            | Qty.  |
|-----|---------------------------------|-------|
| 1.  | Machine                         | 1 Set |
| 2.  | Diamond Rockwell Indenter       | 1 PC  |
| 3.  | Ball Indenter With Dia. 1.588mm | 1 PC  |
| 4.  | Weights: A, B, C                | 3 PCS |
| 5.  | Large Flat Anvil                | 1 PC  |
| 6.  | Middle Flat Anvil               | 1 PC  |
| 7.  | V Type Anvil                    | 1 PC  |
| 8.  | Hardness Block 20~30 HRC        | 1 PC  |
| 9.  | Hardness Block 60~70 HRC        | 1 PC  |

| No. | Name                       | Qty.  |
|-----|----------------------------|-------|
| 10. | Hardness Block 80~100 HRB  | 1 PC  |
| 11. | Level Adjustable Feet      | 4 PCS |
| 12. | Spirit Level / Level Gauge | 1 PC  |
| 13. | Wrench                     | 1 PC  |
| 14. | Screw Driver               | 1 PC  |
| 15. | Fuse 2A                    | 2 PCS |
| 16. | Anti-dust Cover            | 1 PC  |
| 17. | Power Cable                | 1 PC  |
| 18. | User Manual                | 1 PC  |

### SHR-1500E Motorized Rockwell Hardness Tester

#### Features:

The SHR-1500E adopts the mechanism of automatic loading and unloading of the test force, the test force is regulated by the load-change hand wheel. It can select the dwell time and is very easy to use. Besides setting zero to dial, there is no man-made error. The instrument has high sensitivity and stability.

**Standard Compliance:** ISO 6508; ASTM E-18; JIS Z2245; GB/T 230.2

#### Applications:

Quenched steel; Tempered steel; Annealed steel; Cold and hard casting; Malleable cast iron; Hard alloy steel; Aluminum alloy; Copper alloy; Bearing steel etc.

#### Specifications:



| Model                         | SHR-1500E   |
|-------------------------------|---|
| Preload                       | 10kgf (98.07N)  |
| Main Load                     | 60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)               |
| Indenter                      | Diamond Rockwell Indenter & Ball Indenter With Dia. 1.588mm   |
| Loading Method                | Automatic (loading/dwell/unloading)                           |
| Hardness Reading              | Dial  |
| Resolution                    | 0.5HR   |
| Dwell Time                    | 2-60 seconds  |
| Max. Height Capacity          | 175mm   |
| Throat                        | 165mm   |
| Power Supply                  | AC220V, 50Hz  |
| Overall Dimension (L*W*H, mm) | Machine: 520 x 215 x 700; Packing Dimensions: 650 x 370 x 950 |
| Weight                        | Net Weight: 78kg; Gross Weight: 100kg                         |

#### Standard Accessories:

| No. | Name                            | Qty.  |
|-----|---------------------------------|-------|
| 1.  | Machine                         | 1 Set |
| 2.  | Diamond Rockwell Indenter       | 1 PC  |
| 3.  | Ball Indenter With Dia. 1.588mm | 1 PC  |
| 4.  | Weights: A, B, C                | 3 PCS |
| 5.  | Large Flat Anvil                | 1 PC  |
| 6.  | Middle Flat Anvil               | 1 PC  |
| 7.  | V Type Anvil                    | 1 PC  |
| 8.  | Hardness Block 20~30 HRC        | 1 PC  |
| 9.  | Hardness Block 60~70 HRC        | 1 PC  |

| No. | Name                       | Qty.  |
|-----|----------------------------|-------|
| 10. | Hardness Block 80~100 HRB  | 1 PC  |
| 11. | Level Adjustable Feet      | 4 PCS |
| 12. | Spirit Level / Level Gauge | 1 PC  |
| 13. | Wrench                     | 1 PC  |
| 14. | Screw Driver               | 1 PC  |
| 15. | Fuse 2A                    | 2 PCS |
| 16. | Anti-dust Cover            | 1 PC  |
| 17. | Power Cable                | 1 PC  |
| 18. | User Manual                | 1 PC  |

**SHR-1500M Manual Rockwell Hardness Tester**
**Features:**

The SHR-1500M is a popularly-used hardness testing instrument to measure the Rockwell hardness of the materials. No need for power supply, the speed of the test force loading is regulated by the buffer and the test force is regulated by the load-change hand wheel. It has easy operation and stable performance, therefore it is widely used.

**Standard Compliance:** ISO 6508; ASTM E-18; JIS Z2245; GB/T 230.2

**Applications:**

Quenched steel; Tempered steel; Annealed steel; Cold and hard casting;  
Malleable cast iron; Hard alloy steel; Aluminum alloy; Copper alloy;  
Bearing steel etc.


**Specifications:**

| Model                         | SHR-1500M   |
|-------------------------------|---|
| Preload                       | 10kgf (98.07N)  |
| Main Load                     | 60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)               |
| Indenter                      | Diamond Rockwell Indenter & Ball Indenter With Dia. 1.588mm   |
| Loading Method                | Manual  |
| Hardness Reading              | Dial  |
| Resolution                    | 0.5HR   |
| Max. Height Capacity          | 175mm   |
| Throat                        | 165mm   |
| Power Supply                  | AC220V, 50Hz  |
| Overall Dimension (L*W*H, mm) | Machine: 520 x 215 x 700; Packing Dimensions: 650 x 370 x 950 |
| Weight                        | Net Weight: 78kg; Gross Weight: 100kg                         |

**Standard accessories:**

| No. | Name                            | Qty.  |
|-----|---------------------------------|-------|
| 1.  | Machine                         | 1 Set |
| 2.  | Diamond Rockwell Indenter       | 1 PC  |
| 3.  | Ball Indenter With Dia. 1.588mm | 1 PC  |
| 4.  | Weights: A, B, C                | 3 PCS |
| 5.  | Large Flat Anvil                | 1 PC  |
| 6.  | Middle Flat Anvil               | 1 PC  |

| No. | Name                      | Qty. |
|-----|---------------------------|------|
| 7.  | V Type Anvil              | 1 PC |
| 8.  | Hardness Block 20~30 HRC  | 1 PC |
| 9.  | Hardness Block 60~70 HRC  | 1 PC |
| 10. | Hardness Block 80~100 HRB | 1 PC |
| 11. | Anti-dust Cover           | 1 PC |
| 12. | User Manual               | 1 PC |

**SHRA-1500/1500P Digital Rockwell Hardness Tester**
**Features:**

- Load cell, force feedback, closed-loop system
- Automatic test cycle (loading, dwell, unloading)
- 15 Rockwell scales selectable
- Hardness scale conversion available for HB, HV, HLD, HK &  $\sigma_b$  (tensile strength)
- Limit setting & warning
- Shape correction settings for curved surfaces
- Large test results storage (max. 500 groups) for recall & printout anytime
- RS232 interface for micro printer connection
- USB port for PC connection

**Standard Compliance:** ISO 6508-2, ASTM E18, BS EN ISO6508-2, GB/T230.2

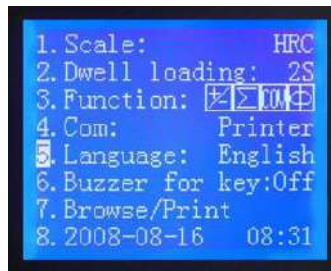
**Specifications:**

| Model                          | SHRA-1500  | SHRA-1500P             |
|--------------------------------|--|------------------------|
| Preload                        | 10kgf (98.07N)   |                        |
| Main Load                      | 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)                    |                        |
| Load Cycle                     | 3-8 seconds  |                        |
| Dwell Time                     | 2-50 seconds   |                        |
| Resolution                     | 0.1HR  |                        |
| Operation                      | Menu Selectable; Membrane Keypad                                   |                        |
| Loading Method                 | Automatic (loading/dwell/unloading)                                |                        |
| Rockwell Test Scales Available | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V                        |                        |
| Hardness Scales Conversion     | Vickers, Knoop, Brinell, Leeb                                      |                        |
| Hardness Reading               | High Definition Backlight LCD                                      |                        |
| Data Statistics                | Avg., Max., Min., S, R available                                   |                        |
| Memory                         | Max. 500 groups of test results can be stored automatically.       |                        |
| Data Output                    | RS232 Interface For Printer Connection; USB Port For PC Connection |                        |
| Printer                        | /  | Built-in Micro Printer |
| Max. Height Capacity           | 200mm  |                        |
| Throat                         | 165mm  |                        |
| Power Supply                   | AC, 220V/110V, 50~60Hz, 4A   |                        |
| Overall Dimensions (L*W*H, mm) | 550 x 200 x 720  |                        |
| Weight                         | 100kg  |                        |

**SHR-3000 Digital Rockwell Hardness Tester (Nose mounted design)**
**Features:**

- Unique design of nose mounted indenter, ideal for inside diameters & recesses testing
- Load cell, force feedback, closed-loop system
- Automatic test cycle (loading, dwell, unloading)
- 15 Rockwell scales selectable
- Hardness scale conversion available for HB, HV, HLD, HK &  $\sigma_b$  (tensile strength)
- Limit setting & warning
- Shape correction settings for curved surfaces
- Large test results storage (max. 500 groups) for recall & printout anytime
- RS232 interface for micro printer connection
- USB port for PC connection

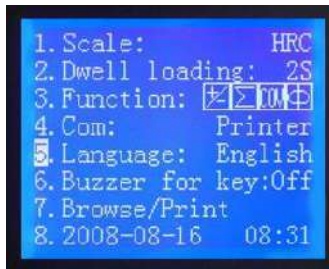
**Standard Compliance:** ISO 6508-2, ASTM E18, BS EN ISO6508-2, GB/T230.2


**Specifications:**

| Model                          | SHR-3000   |
|--------------------------------|--|
| Preload                        | 10kgf (98.07N)   |
| Main Load                      | 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)                    |
| Dwell Time                     | 2-50 seconds   |
| Resolution                     | 0.1HR  |
| Operation                      | Menu Selectable; Membrane Keypad                                   |
| Loading Method                 | Automatic (loading/dwell/unloading)                                |
| Rockwell Test Scales Available | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V                        |
| Hardness Scales Conversion     | Vickers, Knoop, Brinell, Leeb                                      |
| Hardness Reading               | High Definition Backlight LCD                                      |
| Data Statistics                | Avg., Max., Min., S, R available                                   |
| Memory                         | Max. 500 groups of test results can be stored automatically.       |
| Data Output                    | RS232 Interface For Printer Connection; USB Port For PC Connection |
| Max. Height Capacity           | 260mm  |
| Throat                         | 150mm  |
| Power Supply                   | AC, 220V/110V, 50~60Hz, 4A   |
| Overall Dimensions (L*W*H, mm) | 710 x 210 x 830  |
| Weight                         | 90kg   |

**SHR-3000H Digital Rockwell Hardness Tester (Nose mounted design)**
**Features:**

- Unique design of nose mounted indenter, ideal for inside diameters & recesses testing
- Large workpiece accommodation (vertical: max. 450mm; horizontal: max. 200mm)
- Load cell, force feedback, closed-loop system
- Automatic test cycle (loading, dwell, unloading)
- 15 Rockwell scales selectable
- Hardness scale conversion available for HB, HV, HLD, HK & ob (tensile strength)
- Limit setting & warning
- Shape correction settings for curved surfaces
- Large test results storage (max. 500 groups) for recall & printout anytime
- RS232 interface for micro printer connection
- USB port for PC connection

**Standard Compliance:** ISO 6508-2, ASTM E18, BS EN ISO6508-2, GB/T230.2

**Specifications:**

| Model                          | SHR-3000H  |
|--------------------------------|--|
| Preload                        | 10kgf (98.07N)   |
| Main Load                      | 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)                    |
| Dwell Time                     | 2-50 seconds   |
| Resolution                     | 0.1HR  |
| Operation                      | Menu Selectable; Membrane Keypad                                   |
| Loading Method                 | Automatic (loading/dwell/unloading)                                |
| Rockwell Test Scales Available | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V                        |
| Hardness Scales Conversion     | Vickers, Knoop, Brinell, Leeb                                      |
| Hardness Reading               | High Definition Backlight LCD                                      |
| Data Statistics                | Avg., Max., Min., S, R available                                   |
| Memory                         | Max. 500 groups of test results can be stored automatically.       |
| Data Output                    | RS232 Interface For Printer Connection; USB Port For PC Connection |
| Max. Height Capacity           | 430mm (or 450mm)   |
| Throat                         | 200mm  |
| Power Supply                   | AC, 220V/110V, 50~60Hz, 4A   |
| Overall Dimensions (L*W*H, mm) | 730 x 400 x 1000   |
| Weight                         | 160kg  |

**SHR-1500DX Digital Plastic Rockwell Hardness Tester**
**Features:**

- Traditional dead weight system
- Automatic test cycle (loading, dwell, unloading)
- Direct display of indenter type, dwell time, test load, test scale & conversion scale
- All plastic Rockwell scales selectable
- Hardness scales conversion available
- Test results storage in real time
- Automatic calculation of Max., Min. & Avg. value
- Built-in stylus printer for test results printout
- RS232 interface for PC connectivity

**Standard Compliance:** ISO 6508; ASTM E-18; JIS Z2245; GB/T 230.2

**Applications:**

Hard plastics; Hard rubbers; Aluminum; Tin; Copper; Soft steel; Synthetic resins and fricative materials etc.


**Specifications:**

| Model                          | SHR-1500DX   |
|--------------------------------|--|
| Preload                        | 10kgf (98.07N)   |
| Main Load                      | 60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)  |
| Indenter                       | Ball Indenter: $\Phi$ 3.175mm, $\Phi$ 6.35mm, $\Phi$ 12.7mm                                    |
| Loading Method                 | Automatic (loading/dwell/unloading)  |
| Rockwell Test Scales Available | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V  |
| Hardness Scales Conversion     | Vickers, Knoop, Brinell, Shore, Rockwell: A, B, C, D, E, F, G, K, 15N, 30N, 45N, 15T, 30T, 45T |
| Hardness Reading               | LCD Display  |
| Data Output                    | Built-in Stylus Printer; RS232 Interface   |
| Resolution                     | 0.1HR  |
| Dwell Time                     | 0-60 seconds   |
| Max. Height Capacity           | 175mm  |
| Throat                         | 165mm  |
| Power Supply                   | AC220V, 50Hz   |
| Overall Dimension (L*W*H, mm)  | Machine: 520 x 215 x 700; Packing Dimensions: 650 x 370 x 950                                  |
| Weight                         | Net Weight: 78kg; Gross Weight: 100kg  |

**Standard Accessories:**

| No. | Name                            | Qty.  |
|-----|---------------------------------|-------|
| 1.  | Machine                         | 1 Set |
| 2.  | Ball Indenter With Dia. 3.175mm | 1 PC  |
| 3.  | Ball Indenter With Dia. 6.35mm  | 1 PC  |
| 4.  | Ball Indenter With Dia. 12.7mm  | 1 PC  |
| 5.  | Weights: A, B, C                | 3 PCS |
| 6.  | Large Flat Anvil                | 1 PC  |
| 7.  | Middle Flat Anvil               | 1 PC  |
| 8.  | V Type Anvil                    | 1 PC  |
| 9.  | Hardness Block 75~85 HRE        | 1 PC  |
| 10. | Hardness Block 100~110 HRM      | 1 PC  |

| No. | Name                       | Qty.  |
|-----|----------------------------|-------|
| 11. | Hardness Block 110~120 HRL | 1 PC  |
| 12. | Hardness Block 115~125 HRR | 1 PC  |
| 13. | Level Adjustable Feet      | 4 PCS |
| 14. | Spirit Level / Level Gauge | 1 PC  |
| 15. | Wrench                     | 1 PC  |
| 16. | Screw Driver               | 1 PC  |
| 17. | Fuse 2A                    | 2 PCS |
| 18. | Anti-dust Cover            | 1 PC  |
| 19. | Power Cable                | 1 PC  |
| 20. | User Manual                | 1 PC  |



**SHR-1500X Motorized Plastic Rockwell Hardness Tester**
**Features:**

The SHR-1500X adopts the mechanism of automatic loading and unloading of the test force, the test force is regulated by the load-change hand wheel. It can select the dwell time and is very easy to use. Besides setting zero to dial, there is no man-made error. The instrument has high sensitivity and stability.

**Standard Compliance:** ISO 6508; ASTM E-18; JIS Z2245; GB/T 230.2

**Applications:**

Hard plastics; Hard rubbers; Aluminum; Tin; Copper; Soft steel; Synthetic resins and fricative materials etc.

**Specifications:**


| Model                         | SHR-1500X   |
|-------------------------------|---|
| Preload                       | 10kgf (98.07N)  |
| Main Load                     | 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)               |
| Indenter                      | Ball Indenters: $\Phi$ 3.175mm, $\Phi$ 6.35mm, $\Phi$ 12.7mm  |
| Loading Method                | Automatic (loading/dwell/unloading)                           |
| Hardness Reading              | Dial  |
| Resolution                    | 0.5HR   |
| Dwell Time                    | 2-60 seconds  |
| Max. Height Capacity          | 175mm   |
| Throat                        | 165mm   |
| Power Supply                  | AC220V, 50Hz  |
| Overall Dimension (L*W*H, mm) | Machine: 520 x 215 x 700; Packing Dimensions: 650 x 370 x 950 |
| Weight                        | Net Weight: 78kg; Gross Weight: 100kg                         |

**Standard Accessories:**

| No. | Name                            | Qty.  |
|-----|---------------------------------|-------|
| 1.  | Machine                         | 1 Set |
| 2.  | Ball Indenter With Dia. 3.175mm | 1 PC  |
| 3.  | Ball Indenter With Dia. 6.35mm  | 1 PC  |
| 4.  | Ball Indenter With Dia. 12.7mm  | 1 PC  |
| 5.  | Weights: A, B, C                | 3 PCS |
| 6.  | Large Flat Anvil                | 1 PC  |
| 7.  | Middle Flat Anvil               | 1 PC  |
| 8.  | V Type Anvil                    | 1 PC  |
| 9.  | Hardness Block 75~85 HRE        | 1 PC  |
| 10. | Hardness Block 100~110 HRM      | 1 PC  |

| No. | Name                       | Qty.  |
|-----|----------------------------|-------|
| 11. | Hardness Block 110~120 HRL | 1 PC  |
| 12. | Hardness Block 115~125 HRR | 1 PC  |
| 13. | Level Adjustable Feet      | 4 PCS |
| 14. | Spirit Level / Level Gauge | 1 PC  |
| 15. | Wrench                     | 1 PC  |
| 16. | Screw Driver               | 1 PC  |
| 17. | Fuse 2A                    | 2 PCS |
| 18. | Anti-dust Cover            | 1 PC  |
| 19. | Power Cable                | 1 PC  |
| 20. | User Manual                | 1 PC  |

**SHRS-450D Digital Superficial Rockwell Hardness Tester**

**Features:**

- Traditional dead weight system
- Automatic test cycle (loading, dwell, unloading)
- Direct display of indenter type, dwell time, test load, test scale & conversion scale
- 15 Rockwell scales selectable
- Hardness scales conversion available
- Test results storage in real time
- Automatic calculation of Max., Min. & Avg. value
- Built-in stylus printer for test results printout
- RS232 interface for PC connectivity

**Standard Compliance:** ISO 6508; ASTM E-18; JIS Z2245; GB/T 230.2

**Applications:**

Surface quenched steel; Surface heat treating and chemical treating materials; Copper alloy; Aluminum alloy, Sheet; Zinc layers, Chrome layers; Tin layers; Bearing steel and cold and hard casting etc.



**Specifications:**

|                                       |   |
|---------------------------------------|---|
| <b>Model</b>                          | <b>SHRS-450D</b>  |
| <b>Preload</b>                        | 3kgf (29.42N)   |
| <b>Main Load</b>                      | 15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N)  |
| <b>Indenter</b>                       | Diamond Rockwell Indenter & Ball Indenter With Dia. 1.588mm                             |
| <b>Loading Method</b>                 | Automatic (loading/dwell/unloading)   |
| <b>Rockwell Test Scales Available</b> | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y               |
| <b>Hardness Scales Conversion</b>     | Vickers, Brinell, Shore, Rockwell: A, B, C, D, E, F, G, K, 15N, 30N, 45N, 15T, 30T, 45T |
| <b>Hardness Reading</b>               | LCD Display   |
| <b>Data Output</b>                    | Built-in Stylus Printer; RS232 Interface  |
| <b>Resolution</b>                     | 0.1HR   |
| <b>Dwell Time</b>                     | 0-60 seconds  |
| <b>Max. Height Capacity</b>           | 175mm   |
| <b>Throat</b>                         | 165mm   |
| <b>Power Supply</b>                   | AC220V, 50Hz  |
| <b>Overall Dimension (L*W*H, mm)</b>  | Machine: 520 x 215 x 700; Packing Dimensions: 650 x 370 x 950                           |
| <b>Weight</b>                         | Net Weight: 78kg; Gross Weight: 100kg   |

**Standard Accessories:**

| No. | Name                            | Qty.  |
|-----|---------------------------------|-------|
| 1.  | Machine                         | 1 Set |
| 2.  | Diamond Rockwell Indenter       | 1 PC  |
| 3.  | Ball Indenter With Dia. 1.588mm | 1 PC  |
| 4.  | Weights: A, B, C                | 3 PCS |
| 5.  | Large Flat Anvil                | 1 PC  |
| 6.  | Middle Flat Anvil               | 1 PC  |
| 7.  | V Type Anvil                    | 1 PC  |
| 8.  | Hardness Block 65~80 HR30N      | 1 PC  |
| 9.  | Hardness Block 70~85 HR30T      | 1 PC  |

| No. | Name                       | Qty.  |
|-----|----------------------------|-------|
| 10. | Hardness Block 80~90 HR15N | 1 PC  |
| 11. | Level Adjustable Feet      | 4 PCS |
| 12. | Spirit Level / Level Gauge | 1 PC  |
| 13. | Wrench                     | 1 PC  |
| 14. | Screw Driver               | 1 PC  |
| 15. | Fuse 2A                    | 2 PCS |
| 16. | Anti-dust Cover            | 1 PC  |
| 17. | Power Cable                | 1 PC  |
| 18. | User Manual                | 1 PC  |

**SHRS-450E Motorized Superficial Rockwell Hardness Tester**
**Features:**

The SHRS-450E adopts the mechanism of automatic loading and unloading of the test force, the test force is regulated by the load-change hand wheel. It can select the dwell time and is very easy to use. Besides setting zero to dial, there is no man-made error. The instrument has high sensitivity and stability.

**Standard Compliance:** ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2

**Applications:**

Surface quenched steel; Surface heat treating and chemical treating materials; Copper alloy; Aluminum alloy, Sheet; Zinc layers, Chrome layers; Tin layers; Bearing steel and cold and hard casting etc.

**Specifications:**


| Model                         | SHRS-450E   |
|-------------------------------|---|
| Preload                       | 3kgf (29.42N)   |
| Main Load                     | 15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N)                |
| Indenter                      | Diamond Rockwell Indenter & Ball Indenter With Dia. 1.588mm   |
| Loading Method                | Automatic (loading/dwell/unloading)                           |
| Hardness Reading              | Dial  |
| Resolution                    | 0.5HR   |
| Dwell Time                    | 2-60 seconds  |
| Max. Height Capacity          | 175mm   |
| Throat                        | 165mm   |
| Power Supply                  | AC220V, 50Hz  |
| Overall Dimension (L*W*H, mm) | Machine: 520 x 215 x 700; Packing Dimensions: 650 x 370 x 950 |
| Weight                        | Net Weight: 78kg; Gross Weight: 100kg                         |

**Standard Accessories:**

| No. | Name                            | Qty.  |
|-----|---------------------------------|-------|
| 1.  | Machine                         | 1 Set |
| 2.  | Diamond Rockwell Indenter       | 1 PC  |
| 3.  | Ball Indenter With Dia. 1.588mm | 1 PC  |
| 4.  | Weights: A, B, C                | 3 PCS |
| 5.  | Large Flat Anvil                | 1 PC  |
| 6.  | Middle Flat Anvil               | 1 PC  |
| 7.  | V Type Anvil                    | 1 PC  |
| 8.  | Hardness Block 65~80 HR30N      | 1 PC  |
| 9.  | Hardness Block 70~85 HR30T      | 1 PC  |

| No. | Name                       | Qty.  |
|-----|----------------------------|-------|
| 10. | Hardness Block 80~90 HR15N | 1 PC  |
| 11. | Level Adjustable Feet      | 4 PCS |
| 12. | Spirit Level / Level Gauge | 1 PC  |
| 13. | Wrench                     | 1 PC  |
| 14. | Screw Driver               | 1 PC  |
| 15. | Fuse 2A                    | 2 PCS |
| 16. | Anti-dust Cover            | 1 PC  |
| 17. | Power Cable                | 1 PC  |
| 18. | User Manual                | 1 PC  |

**SHRS-450M Manual Superficial Rockwell Hardness Tester**
**Features:**

The SHRS-450M is a popularly-used hardness testing instrument to measure the superficial Rockwell hardness of the materials. No need for power supply, the speed of the test force loading is regulated by the buffer and the test force is regulated by the load-change hand wheel. It has easy operation and stable performance, therefore it is widely used.

**Standard Compliance:** ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2

**Applications:**

Surface quenched steel; Surface heat treating and chemical treating materials; Copper alloy; Aluminum alloy, Sheet; Zinc layers, Chrome layers; Tin layers; Bearing steel and cold and hard casting etc.


**Specifications:**

| Model                         | SHRS-450M   |
|-------------------------------|---|
| Preload                       | 3kgf (29.42N)   |
| Main Load                     | 15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N)                |
| Indenter                      | Diamond Rockwell Indenter & Ball Indenter With Dia. 1.588mm   |
| Loading Method                | Manual  |
| Hardness Reading              | Dial  |
| Resolution                    | 0.5HR   |
| Max. Height Capacity          | 175mm   |
| Throat                        | 165mm   |
| Power Supply                  | AC220V, 50Hz  |
| Overall Dimension (L*W*H, mm) | Machine: 520 x 215 x 700; Packing Dimensions: 650 x 370 x 950 |
| Weight                        | Net Weight: 78kg; Gross Weight: 100kg                         |

**Standard Accessories:**

| No. | Name                            | Qty.  | No. | Name                       | Qty. |
|-----|---------------------------------|-------|-----|----------------------------|------|
| 1.  | Machine                         | 1 Set | 7.  | V Type Anvil               | 1 PC |
| 2.  | Diamond Rockwell Indenter       | 1 PC  | 8.  | Hardness Block 65~80 HR30N | 1 PC |
| 3.  | Ball Indenter With Dia. 1.588mm | 1 PC  | 9.  | Hardness Block 70~85 HR30T | 1 PC |
| 4.  | Weights: A, B, C                | 3 PCS | 10. | Hardness Block 80~90 HR15N | 1 PC |
| 5.  | Large Flat Anvil                | 1 PC  | 11. | Anti-dust Cover            | 1 PC |
| 6.  | Middle Flat Anvil               | 1 PC  | 12. | User Manual                | 1 PC |

## SHRA-450/450P Digital Superficial Rockwell Hardness Tester

### Features:

- Load cell, force feedback, closed-loop system
- Automatic test cycle (loading, dwell, unloading)
- 15 Superficial Rockwell scales selectable
- Hardness scale conversion available for HB, HV, HK & ob (tensile strength)
- Limit setting & warning
- Shape correction settings for curved surfaces
- Large test results storage (max. 500 groups) for recall & printout anytime
- RS232 interface for micro printer connection
- USB port for PC connection

**Standard Compliance:** ISO 6508-2, ASTM E18, BS EN ISO6508-2, GB/T230.2



### Specifications:

| Model                                      | SHRA-450  | SHRA-450P              |
|--|---|------------------------|
| Preload                                    | 3kgf (29.4N)  |                        |
| Main Load                                  | 15kgf (147.1N), 30kgf (294.3N), 45kgf (441.3N)                            |                        |
| Load Cycle                                 | 3-8 seconds   |                        |
| Dwell Time                                 | 2-50 seconds  |                        |
| Resolution                                 | 0.1HR   |                        |
| Operation                                  | Menu Selectable; Membrane Keypad  |                        |
| Loading Method                             | Automatic (loading/dwell/unloading)                                       |                        |
| Superficial Rockwell Test Scales Available | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y |                        |
| Hardness Scales Conversion                 | Vickers, Knoop, Brinell   |                        |
| Hardness Reading                           | High Definition Backlight LCD   |                        |
| Data Statistics                            | Avg., Max., Min., S, R available  |                        |
| Memory                                     | Max. 500 groups of test results can be stored automatically.              |                        |
| Data Output                                | RS232 Interface For Printer Connection; USB Port For PC Connection        |                        |
| Printer                                    | /   | Built-in Micro Printer |
| Max. Height Capacity                       | 200mm   |                        |
| Throat                                     | 165mm   |                        |
| Power Supply                               | AC, 220V/110V, 50~60Hz, 4A  |                        |
| Overall Dimensions (L*W*H, mm)             | 550 x 200 x 720   |                        |
| Weight                                     | 90kg  |                        |

**SHR-3100 Digital Superficial Rockwell Hardness Tester (Nose Mounted Design)**

**Features:**

- Unique design of nose mounted indenter, ideal for inside diameters & recesses testing
- Load cell, force feedback, closed-loop system
- Automatic test cycle (loading, dwell, unloading)
- 15 Superficial Rockwell scales selectable
- Hardness scale conversion available for HB, HV, HLD, HK &  $\sigma_b$  (tensile strength)
- Limit setting & warning
- Shape correction settings for curved surfaces
- Large test results storage (max. 500 groups) for recall & printout anytime
- RS232 interface for micro printer connection
- USB port for PC connection

**Standard Compliance:** ISO 6508-2, ASTM E18, BS EN ISO6508-2, GB/T230.2



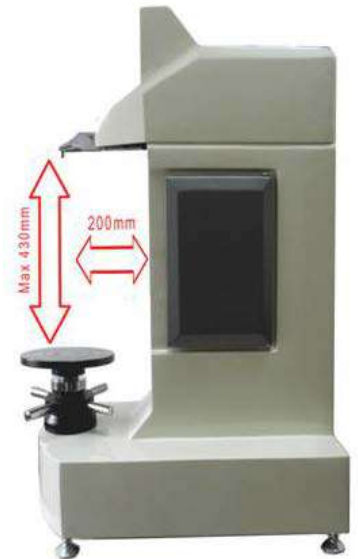
**Specifications:**

| Model                                      | SHR-3100  |
|--|---|
| Preload                                    | 3kgf (29.4N)  |
| Main Load                                  | 15kgf (147.1N), 30kgf (294.3N), 45kgf (441.3N)                            |
| Dwell Time                                 | 2-50 seconds  |
| Resolution                                 | 0.1HR   |
| Operation                                  | Menu Selectable; Membrane Keypad  |
| Loading Method                             | Automatic (loading/dwell/unloading)                                       |
| Superficial Rockwell Test Scales Available | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y |
| Hardness Scales Conversion                 | Vickers, Knoop, Brinell, Leeb   |
| Hardness Reading                           | High Definition Backlight LCD   |
| Data Statistics                            | Avg., Max., Min., S, R available  |
| Memory                                     | Max. 500 groups of test results can be stored automatically.              |
| Data Output                                | RS232 Interface For Printer Connection; USB Port For PC Connection        |
| Max. Height Capacity                       | 260mm   |
| Throat                                     | 150mm   |
| Power Supply                               | AC, 220V/110V, 50~60Hz, 4A  |
| Overall Dimensions (L*W*H, mm)             | 710 x 210 x 830   |
| Weight                                     | 70kg  |

## SHR-3100H Digital Superficial Rockwell Hardness Tester (Nose Mounted Design)

### Features:

- Unique design of nose mounted indenter, ideal for inside diameters & recesses testing
- Large workpiece accommodation (vertical: max. 450mm; horizontal: max. 200mm)
- Load cell, force feedback, closed-loop system
- Automatic test cycle (loading, dwell, unloading)
- 15 Superficial Rockwell scales selectable
- Hardness scale conversion available for HB, HV, HLD, HK &  $\sigma_b$  (tensile strength)
- Limit setting & warning
- Shape correction settings for curved surfaces
- Large test results storage (max. 500 groups) for recall & printout anytime
- RS232 interface for micro printer connection
- USB port for PC connection



**Standard Compliance:** ISO 6508-2, ASTM E18, BS EN ISO6508-2, GB/T230.2



### Specifications:

| Model                                      | SHR-3100H   |
|--|---|
| Preload                                    | 3kgf (29.4N)  |
| Main Load                                  | 15kgf (147.1N), 30kgf (294.3N), 45kgf (441.3N)                            |
| Dwell Time                                 | 2-50 seconds  |
| Resolution                                 | 0.1HR   |
| Operation                                  | Menu Selectable; Membrane Keypad  |
| Loading Method                             | Automatic (loading/dwell/unloading)                                       |
| Superficial Rockwell Test Scales Available | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y |
| Hardness Scales Conversion                 | Vickers, Knoop, Brinell, Leeb   |
| Hardness Reading                           | High Definition Backlight LCD   |
| Data Statistics                            | Avg., Max., Min., S, R available  |
| Memory                                     | Max. 500 groups of test results can be stored automatically.              |
| Data Output                                | RS232 Interface For Printer Connection; USB Port For PC Connection        |
| Max. Height Capacity                       | 430mm (or 450mm)  |
| Throat                                     | 200mm   |
| Power Supply                               | AC, 220V/110V, 50~60Hz, 4A  |
| Overall Dimensions (L*W*H, mm)             | 730 x 400 x 1000  |
| Weight                                     | 140kg   |

## SHR-560 Digital Rockwell & Superficial Rockwell Hardness Tester

### Features:

- Traditional dead weight system
- Automatic test cycle (loading, dwell, unloading)
- Direct display of indenter type, dwell time, test load, test scale & conversion scale
- All Rockwell & Superficial Rockwell scales selectable
- Hardness scales conversion available
- Automatic calculation of Max. , Min. & Avg. value
- Test results storage in real time
- Built-in stylus printer for test results printout
- RS232 interface for PC connectivity

**Standard Compliance:** ISO 6508; ASTM E-18; JIS Z2245; GB/T 230.2

### Applications:

Quenched steel; Tempered steel; Annealed steel; Cold and hard casting; Malleable cast iron; Hard alloy steel; Aluminum alloy; Copper alloy; Bearing steel etc. Surface quenched steel; Surface heat treating and chemical treating materials; Copper alloy; Aluminum alloy, Sheet; Zinc layers, Chrome layers; Tin layers etc.



### Specifications:

| Model                                      | SHR-560  |
|--|--|
| Preload                                    | 3kgf (29.42N), 10kgf (98.07N)  |
| Superficial Rockwell Main Road             | 15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N)   |
| Rockwell Main Road                         | 60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)  |
| Indenter                                   | Diamond Rockwell Indenter & Ball Indenter With Dia. 1.588mm                                    |
| Loading Method                             | Automatic (loading/dwell/unloading)  |
| Superficial Rockwell Test Scales Available | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y                      |
| Rockwell Test Scales Available             | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V  |
| Hardness Scales Conversion                 | Vickers, Knoop, Brinell, Shore, Rockwell: A, B, C, D, E, F, G, K, 15N, 30N, 45N, 15T, 30T, 45T |
| Hardness Reading                           | LCD Display  |
| Data Output                                | Built-in Stylus Printer; RS232 Interface   |
| Resolution                                 | 0.1HR  |
| Dwell Time                                 | 0-60 seconds   |
| Max. Height Capacity                       | 175mm  |
| Throat                                     | 165mm  |
| Power Supply                               | AC220V, 50Hz   |
| Overall Dimension (L*W*H, mm)              | Machine: 520 x 215 x 740; Packing Dimensions: 650 x 370 x 980                                  |
| Weight                                     | Net Weight: 80kg; Gross Weight: 100kg  |

### Standard Accessories:

| No. | Name                            | Qty.  |
|-----|---------------------------------|-------|
| 1.  | Machine                         | 1 Set |
| 2.  | Diamond Rockwell Indenter       | 1 PC  |
| 3.  | Ball Indenter With Dia. 1.588mm | 1 PC  |
| 4.  | Weights: 1, 2, 3, 4, 5          | 5 PCS |
| 5.  | Large Flat Anvil                | 1 PC  |
| 6.  | Middle Flat Anvil               | 1 PC  |
| 7.  | V Type Anvil                    | 1 PC  |
| 8.  | Hardness Block 20~30 HRC        | 1 PC  |
| 9.  | Hardness Block 60~70 HRC        | 1 PC  |
| 10. | Hardness Block 80~100 HRB       | 1 PC  |

| No. | Name                       | Qty.  |
|-----|----------------------------|-------|
| 11. | Hardness Block 65~80 HR30N | 1 PC  |
| 12. | Hardness Block 75~85 HR30T | 1 PC  |
| 13. | Level Adjustable Feet      | 4 PCS |
| 14. | Spirit Level / Level Gauge | 1 PC  |
| 15. | Wrench                     | 1 PC  |
| 16. | Screw Driver               | 1 PC  |
| 17. | Fuse 2A                    | 2 PCS |
| 18. | Anti-dust Cover            | 1 PC  |
| 19. | Power Cable                | 1 PC  |
| 20. | User Manual                | 1 PC  |



## SHR-560Z Automatic Rockwell & Superficial Rockwell Hardness Tester

### Features:

- Load cell, force feedback, closed-loop system
- Automatic test cycle (loading, dwell, unloading)
- Automatic lifting test table
- Supplied with 5.6 inch high resolution full color touch screen
- Direct display of test scale, conversion scale, indenter type, test load & dwell time
- All Rockwell & Superficial Rockwell scales selectable
- Hardness scales conversion available
- Shape correction settings for curved surfaces
- Test results storage in real time
- Automatic calculation of Max., Min. & Avg. value
- Built-in thermal printer for test results printout
- RS232 interface for PC connectivity

**Standard Compliance:** ISO 6508; ASTM E-18; JIS Z2245; GB/T 230.2

### Applications:

Quenched steel; Tempered steel; Annealed steel; Cold and hard casting; Malleable cast iron; Hard alloy steel; Aluminum alloy; Copper alloy; Bearing steel etc. Surface quenched steel; Surface heat treating and chemical treating materials; Copper alloy; Aluminum alloy, Sheet; Zinc layers, Chrome layers; Tin layers etc.



### Specifications:

| Model                                      | SHR-560Z   |
|--|--|
| Preload                                    | 3kgf (29.42N), 10kgf (98.07N)  |
| Superficial Rockwell Main Road             | 15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N)   |
| Rockwell Main Road                         | 60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)  |
| Indenter                                   | Diamond Rockwell Indenter & Ball Indenter With Dia. 1.588mm                                    |
| Loading Method                             | Automatic (loading/dwell/unloading)  |
| Superficial Rockwell Test Scales Available | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y                      |
| Rockwell Test Scales Available             | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V  |
| Hardness Scales Conversion                 | Vickers, Knoop, Brinell, Shore, Rockwell: A, B, C, D, E, F, G, K, 15N, 30N, 45N, 15T, 30T, 45T |
| Hardness Reading                           | Touch Screen Panel   |
| Data Output                                | Built-in Thermal Printer; RS232 Interface  |
| Resolution                                 | 0.1HR  |
| Dwell Time                                 | 0-99 seconds   |
| Max. Height Capacity                       | 320mm  |
| Throat                                     | 150mm  |
| Power Supply                               | AC220V, 50Hz   |
| Overall Dimension (L*W*H, mm)              | Machine: 535 x 330 x 890; Packing Dimensions: 820 x 460 x 1170                                 |
| Weight                                     | Net Weight: 80kg; Gross Weight: 100kg  |

### Standard Accessories:

| No. | Name                            | Qty.  |
|-----|---------------------------------|-------|
| 1.  | Machine                         | 1 Set |
| 2.  | Diamond Rockwell Indenter       | 1 PC  |
| 3.  | Ball Indenter With Dia. 1.588mm | 1 PC  |
| 4.  | Large Flat Anvil                | 1 PC  |
| 5.  | Middle Flat Anvil               | 1 PC  |
| 6.  | V Type Anvil                    | 1 PC  |
| 7.  | Hardness Block 20~30 HRC        | 1 PC  |
| 8.  | Hardness Block 60~70 HRC        | 1 PC  |

| No. | Name                              | Qty.  |
|-----|-----------------------------------|-------|
| 9.  | Hardness Block 80~100 HRB         | 1 PC  |
| 10. | Hardness Block 65~80 HR30N        | 1 PC  |
| 11. | Hardness Block 75~85 HR30T        | 1 PC  |
| 12. | Fuse 2A                           | 2 PCS |
| 13. | Anti-dust Cover                   | 1 PC  |
| 14. | Power Cable                       | 1 PC  |
| 15. | User Manual                       | 1 PC  |
| 16. | Product Qualification Certificate | 1 PC  |

## SHR-3200 Digital Rockwell & Superficial Rockwell Hardness Tester (Nose mounted design)

### Features:

- Unique design of nose mounted indenter, ideal for inside diameters & recesses testing
- Load cell, force feedback, closed-loop system
- Automatic test cycle (loading, dwell, unloading)
- All Rockwell & Superficial Rockwell scales selectable
- Hardness scale conversion available for HB, HV, HLD, HK &  $\sigma_b$  (tensile strength)
- Limit setting & warning
- Shape correction settings for curved surfaces
- Large test results storage (max. 400 groups) for recall & printout anytime
- RS232 interface for micro printer connection
- USB port for PC connection

**Standard Compliance:** ISO 6508-2, ASTM E18, BS EN ISO6508-2, GB/T230.2



### Specifications:

| Model                                      | SHR-3200  |
|--|---|
| Preload                                    | 3kgf (29.4N), 10kgf (98.07N)  |
| Main Load (Superficial Rockwell)           | 15kgf (147.1N), 30kgf (294.3N), 45kgf (441.3N)                            |
| Main Load (Rockwell)                       | 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)                           |
| Dwell Time                                 | 2-50 seconds  |
| Resolution                                 | 0.1HR   |
| Operation                                  | Menu Selectable; Membrane Keypad  |
| Loading Method                             | Automatic (loading/dwell/unloading)                                       |
| Superficial Rockwell Test Scales Available | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y |
| Rockwell Test Scales Available             | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V                               |
| Hardness Scales Conversion                 | Vickers, Knoop, Brinell, Leeb   |
| Hardness Reading                           | High Definition Backlight LCD   |
| Data Statistics                            | Avg., Max., Min., S, R available  |
| Memory                                     | Max. 400 groups of test results can be stored automatically.              |
| Data Output                                | RS232 Interface For Printer Connection; USB Port For PC Connection        |
| Max. Height Capacity                       | 260mm   |
| Throat                                     | 150mm   |
| Power Supply                               | AC, 220V/110V, 50~60Hz, 4A  |
| Overall Dimensions (L*W*H, mm)             | 710 x 210 x 830   |
| Weight                                     | 95kg  |

## SHR-3200H Digital Rockwell & Superficial Rockwell Hardness Tester (Nose mounted design)

### Features:

- Unique design of nose mounted indenter, ideal for inside diameters & recesses testing
- Large workpiece accommodation (vertical: max. 450mm; horizontal: max. 200mm)
- Load cell, force feedback, closed-loop system
- Automatic test cycle (loading, dwell, unloading)
- All Rockwell & Superficial Rockwell scales selectable
- Hardness scale conversion available for HB, HV, HLD, HK &  $\sigma_b$  (tensile strength)
- Limit setting & warning
- Shape correction settings for curved surfaces
- Large test results storage (max. 400 groups) for recall & printout anytime
- RS232 interface for micro printer connection
- USB port for PC connection



**Standard Compliance:** ISO 6508-2, ASTM E18, BS EN ISO6508-2, GB/T230.2



### Specifications:

| Model                                      | SHR-3200H   |
|--|---|
| Preload                                    | 3kgf (29.4N), 10kgf (98.07N)  |
| Main Load (Superficial Rockwell)           | 15kgf (147.1N), 30kgf (294.3N), 45kgf (441.3N)                            |
| Main Load (Rockwell)                       | 60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)                           |
| Dwell Time                                 | 2-50 seconds  |
| Resolution                                 | 0.1HR   |
| Operation                                  | Menu Selectable; Membrane Keypad  |
| Loading Method                             | Automatic (loading/dwell/unloading)                                       |
| Superficial Rockwell Test Scales Available | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y |
| Rockwell Test Scales Available             | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V                               |
| Hardness Scales Conversion                 | Vickers, Knoop, Brinell, Leeb   |
| Hardness Reading                           | High Definition Backlight LCD   |
| Data Statistics                            | Avg., Max., Min., S, R available  |
| Memory                                     | Max. 400 groups of test results can be stored automatically.              |
| Data Output                                | RS232 Interface For Printer Connection; USB Port For PC Connection        |
| Max. Height Capacity                       | 430mm (or 450mm)  |
| Throat                                     | 200mm   |
| Power Supply                               | AC, 220V/110V, 50~60Hz, 4A  |
| Overall Dimensions (L*W*H, mm)             | 730 x 400 x 1000  |
| Weight                                     | 165kg   |