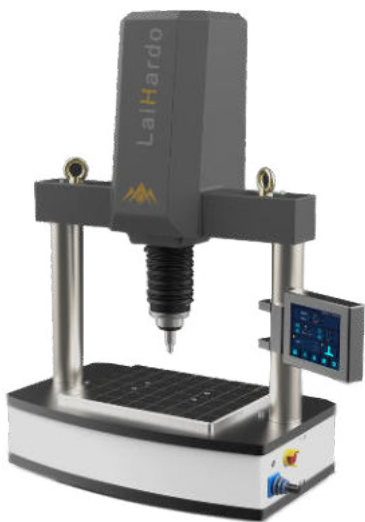




HRZ-150SE



HRSS-150C

CHARACTERISTIC

- Automatic tracking and testing, no test error caused by deformation of frame and workpiece;
- Measuring head can move upwards or downwards and automatically clamp the workpiece, no need to apply preliminary test force by hand;
- High accuracy optical grating displacement measuring system;
- Large test table, which is suitable for testing of abnormal shape and heavy workpieces;
- Large LCD display, menu operation, complete functions( data processing, hardness conversion between different hardness scales etc.);
- Optional upper-computer equipped with special software; Equipped with printer;Bluetooth data interface.

PARAMETER

| Model/Parameter           | HRZ-150SE                                                                                                                                                                        | HRSS-150C                   |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Pre-Test Force            | 3 kgf( 29.42 N), 10 kgf( 98.07 N)                                                                                                                                                |                             |
| Pre-test force accuracy   | ± 0.7%                                                                                                                                                                           |                             |
| Total Test Force          | 15 kgf( 147.1 N), 30 kgf( 294.2 N), 45 kgf( 441.3 N),<br>60 kgf( 588.4 N), 100 kgf( 980.7 N), 150 kgf( 1471 N)                                                                   |                             |
| Total Test Force Accuracy | ± 0.3%                                                                                                                                                                           |                             |
| Indenter                  | Diamond Indenter , Φ1.588 mm Ball Indenter                                                                                                                                       |                             |
| Loading Type              | Automatic( Loading, Dwell, Unloading)                                                                                                                                            |                             |
| Dwell Time                | Pre-test force 0.1- 50 sec, Total test force 0.1-50sec                                                                                                                           |                             |
| Operation                 | 8" Large LCD display, menu operation, complete functions( data processing, hardness conversion.                                                                                  |                             |
| Data Statistics           | Test times, average value, maximum value, minimum value, repeatability, setting upper and lower limit of hardness value, with warning function, etc                              |                             |
| Scale                     | HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL,HRM, HRP, HRR, HRS, HRV, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X,HR30X, HR45X, HR15Y, HR30Y, HR45Y |                             |
| Conversion Scale          | HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HBW                                                                                    |                             |
| Data output               | USB, RS232                                                                                                                                                                       |                             |
| Hardness value resolution | 0.01 HR                                                                                                                                                                          |                             |
| Max Testing Height        | 210 mm                                                                                                                                                                           | 170 mm( Can be customized ) |
| Throat                    | 200 mm                                                                                                                                                                           | 200 mm( Can be customized ) |
| Power                     | AC 220 V/ 50 Hz                                                                                                                                                                  |                             |
| Standard                  | ISO 6508, ASTM E18, JIS Z2245, GB/T 230.2                                                                                                                                        |                             |
| Dimension                 | 535* 410* 890 mm                                                                                                                                                                 |                             |
| Net weight                | 120 kg                                                                                                                                                                           |                             |



HRSS-150



HRS-150X

MAIN PARAMETER

|                           |                                                                                                                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model/Parameter           | HRSS-150                                                                                                                                                                                     |
| Pre-test Force            | 3 kgf( 29.42 N), 10 kgf( 98.07 N)                                                                                                                                                            |
| Total Test Force          | 15 kgf( 147.1 N), 30 kgf( 294.2 N), 45 kgf( 441.3 N),60 kgf( 588.4 N), 100 kgf( 980.7 N), 150 kgf( 1471 N)                                                                                   |
| Indenter                  | Diamond Indenter , $\phi$ 1.588mm Ball Indenter                                                                                                                                              |
| Loading Type              | Automatic( Loading/ Dwell/ Unloading)                                                                                                                                                        |
| Hardess Reading           | Digital/ Touch screen                                                                                                                                                                        |
| Scale                     | HRA, HRD, HRC, HRFW, HRBW, HRGW, HRHW, HREW, HRKW, HRL, HRM, HRP, HRR, HRS, HRV , HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y |
| Data output               | Built-in printer. RS232, Blue-tooth                                                                                                                                                          |
| Hardness Value Resolution | 0.1 HR                                                                                                                                                                                       |
| Dwell time                | 0~99 s                                                                                                                                                                                       |
| Max Testing Height        | 180 mm                                                                                                                                                                                       |
| Throat                    | 165 mm                                                                                                                                                                                       |
| Power                     | AC 220 V , 50 Hz                                                                                                                                                                             |
| Standard                  | ISO 6508, ASTM E18, JIS Z2245, GB/T 230.2                                                                                                                                                    |

|                           |                                                                                                                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model/Parameter           | HRS-150X                                                                                                                                                                                     |
| Pre-test Force            | 3 kgf( 29.42 N)                                                                                                                                                                              |
| Toatal test Force         | 15 kgf( 147.1 N), 30 kgf( 294.2 N), 45 kgf( 441.3 N), 60 kgf( 588.4 N), 100 kgf( 980.7 N), 150 kgf( 1471 N)                                                                                  |
| Indenter                  | Diamond Indenter, 1.588mm Ball Indenter                                                                                                                                                      |
| Loading Type              | Automatic( Loading/ Dwell/ Unloading)                                                                                                                                                        |
| Operation                 | Screw up/ Returning automatically                                                                                                                                                            |
| Hardness Reading          | Touch screen                                                                                                                                                                                 |
| Scale                     | HRA, HRD, HRC, HRFW, HRBW, HRGW, HRHW, HREW, HRKW, HRL, HRM, HRP, HRR, HRS, HRV , HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y |
| Date Output               | Built-in printer. RS232, Blue-tooth                                                                                                                                                          |
| Hardness Value Resolution | 0.1 HR                                                                                                                                                                                       |
| Working Table             | $\Phi$ 120 mm big working table/ 200* 200 mm optional                                                                                                                                        |
| Dwell time                | 0~99 s                                                                                                                                                                                       |
| Max Testing Height        | 180 mm                                                                                                                                                                                       |
| Throat                    | 165 mm                                                                                                                                                                                       |
| Power                     | AC 220 V/ 50 Hz                                                                                                                                                                              |
| Standard                  | ISO 6508, ASTM E18, JIS Z2245, GB/T 230.2                                                                                                                                                    |

# Digital Rockwell Hardness Tester



HRS-150



HRS-150S



HRS-150B

## MAIN PARAMETER

| Model / Parameter         | HRS-150                                      | HRS-150S | HRS-150B                    |
|---------------------------|----------------------------------------------|----------|-----------------------------|
| Measuring Scope           | 20-88 HRA, 20-100 HRB, 20-70 HRC             |          |                             |
| Pre-Test Force            | 10 kgf( 98.7 N)                              |          |                             |
| Total Testing Force       | 588.4 N, 980.7 N, 1471 N( 60, 100, 150 kgf ) |          |                             |
| Max Testing Height        | 185 mm                                       |          | 400 mm( Can be customized ) |
| Throat                    | 165 mm( Can be customized )                  |          |                             |
| Dwell Times               | 2~60 s                                       |          |                             |
| Indenter                  | Diamond , $\phi$ 1.588 mm Ball Indenter      |          |                             |
| Loading Type              | Automatic                                    |          |                             |
| Hardness Reading          | Digital/ Touch Screen                        |          |                             |
| Hardness Value Resolution | 0.1 HR                                       |          |                             |
| Power                     | AC 220 V/ 50 Hz                              |          |                             |

## Motor - Driven Rockwell Hardness Tester



**200HRD-150 Dial**



**200HRD-150 Digital**



**HRD-150B**

### MAIN PARAMETER

| Model / Parameter         | 200HRD-150 Dial                          | 200HRD-150 Digital | HRD-150B                        |
|---------------------------|------------------------------------------|--------------------|---------------------------------|
| Measuring Scope           | 20-88 HRA, 20-100 HRB, 20-70 HRC         |                    |                                 |
| Testing Force             | 588.4, 980.7, 1471 N( 60, 100, 150 kgf ) |                    |                                 |
| Max Testing Height        | 210 mm                                   | 210 mm             | 400 mm<br>( Can be customized ) |
| Throat                    | 165 mm( Can be customized )              |                    |                                 |
| Dwell Time                | 0 ~ 30 s                                 |                    |                                 |
| Hardness Value Reading    | Dial Reading                             | Digital Reading    | Dial Reading                    |
| Hardness Value Resolution | 0.1 HR                                   |                    |                                 |
| Power                     | AC 220 V/ 50, 60 Hz                      |                    |                                 |
| Weight                    | 95 kg                                    |                    |                                 |

# Superficial Rockwell Hardness Tester



HSRD-45



HSRS-45

## MAIN PARAMETER

| Model / Parameter         | HSRD-45                                                                                                             |  | HSRS-45         |  |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|--|-----------------|--|
| Measuring Scope           | ( 70 ~ 94 ) HR15N, ( 42 ~ 86 ) HR30N, ( 20 ~ 77 ) HR45N,<br>( 67 ~ 93 ) HR15T, ( 29 ~ 82 ) HR30T, ( 10 ~ 72 ) HR45T |  |                 |  |
| Testing Force             | ( 15 kg ) 147.1, ( 30 kg ) 294.2, ( 45 kg ) 441.3                                                                   |  |                 |  |
| Max Testing Height        | 185 mm                                                                                                              |  |                 |  |
| Throat                    | 165 mm                                                                                                              |  |                 |  |
| Dwell Time                | 0 ~ 30 s                                                                                                            |  |                 |  |
| Hardness Reading          | Dial gauge                                                                                                          |  | Digital display |  |
| Hardness Value Resolution | 0.5 HR                                                                                                              |  | 0.1 HR          |  |
| Power                     | AC 220 V/ 50, 60 Hz                                                                                                 |  |                 |  |
| Weight                    | 95 KG                                                                                                               |  |                 |  |

# Plastic Rockwell Hardness Tester



XHRD-150



XHRS-150

## MAIN PARAMETER

| Model / Parameter         | XHRD-150                                                        | XHRS-150              |
|---------------------------|-----------------------------------------------------------------|-----------------------|
| Measuring Scope           | 70- 100 HRE, 50- 115 HRL, 50- 115 HRM, 50- 115 HRR, 20- 120 HRS |                       |
| Testing Force             | 588.4, 980.7, 1471 N( 60, 100, 150 kgf)                         |                       |
| Max Testing Height        | 210 mm                                                          |                       |
| Throat                    | 165 mm                                                          |                       |
| Dwell Time                | 2 ~ 60 s                                                        |                       |
| Dimension                 | 510* 212* 700 mm                                                |                       |
| Hardness Value Reading    | Dial gauge                                                      | Digital/ Touch Screen |
| Hardness Value Resolution | 0.5 HR                                                          | 0.1 HR                |
| Power                     | AC 220 V/ 50, 60 Hz                                             |                       |
| Weight                    | 95 kg                                                           |                       |

# Manual Rockwell Hardness Tester



HR-150A



HR-150AS



200HR - 150



HR-150B

## MAIN PARAMETER

| Model/ Parameter          | HR-150A                                     | HR-150AS | 200HR-150 | HR-150B                        |
|---------------------------|---------------------------------------------|----------|-----------|--------------------------------|
| Measuring Scope           | 20- 88 HRA, 20- 100 HRB, 20- 70 HRC         |          |           |                                |
| Pre-Test Force            | 10 kgf( 98.7 N)                             |          |           |                                |
| Total Test Force          | 588.4 N, 980.7 N, 1471 N( 60, 100, 150 kgf) |          |           |                                |
| Max Test Height           | 170 mm                                      | 170 mm   | 210 mm    | 400 mm<br>( Can be customized) |
| Indenter                  | Diamond , $\phi$ 1.588 mm Ball Indenter     |          |           |                                |
| Loading Type              | Manual                                      |          |           |                                |
| Hardness Reading          | Dial gauge                                  |          |           |                                |
| Hardness Value Resolution | 0.5 HR                                      |          |           |                                |

## STANDARD CONFIGURATION

|                                    |       |
|------------------------------------|-------|
| Main Machine                       | 1 set |
| 1/16" Ball Indenter                | 1 pc  |
| Small flat anvil                   | 1 pc  |
| 60~ 70 HRC Rockwell Hardness Block | 1 pc  |
| 40~ 50 HRC Rockwell Hardness Block | 1 pc  |
| 90~ 95 HRB Rockwell Hardness Block | 1 pc  |

|                                    |      |
|------------------------------------|------|
| Diamond Indenter                   | 1 pc |
| Large flat anvil                   | 1 pc |
| V-type anvil                       | 1 pc |
| 20~ 30 HRC Rockwell Hardness Block | 1 pc |
| 80~ 90 HRA Rockwell Hardness Block | 1 pc |
|                                    |      |