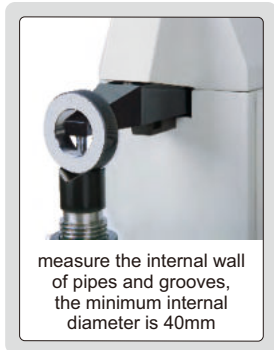


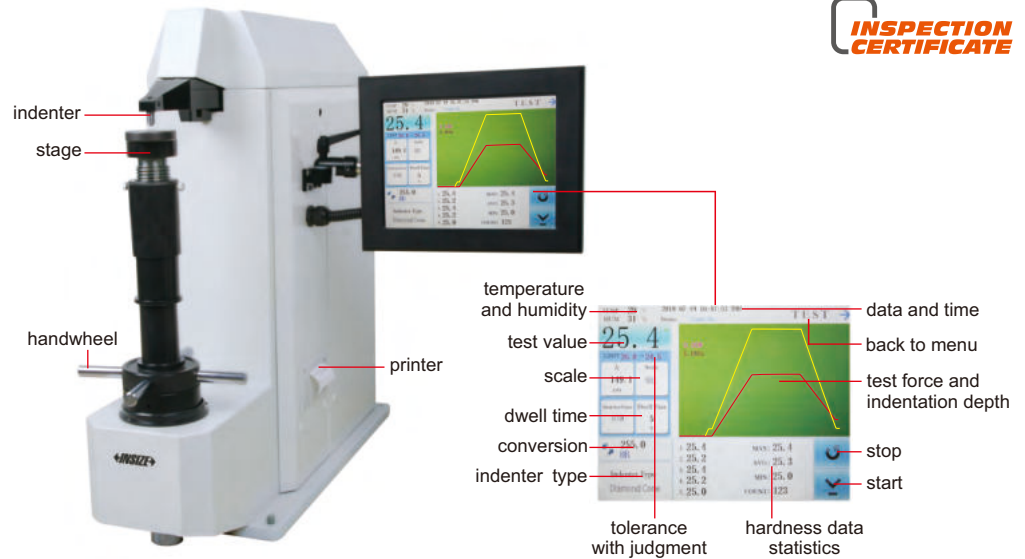
FORCE LOADING BY CLOSE-LOOP SYSTEM (WITHOUT WEIGHTS)

AUTOMATIC TESTING, CONTINUOUS TESTING



AUTOMATIC DIGITAL ROCKWELL/SUPERFICIAL ROCKWELL HARDNESS TESTERS (DOLPHIN-NOSE TYPE)

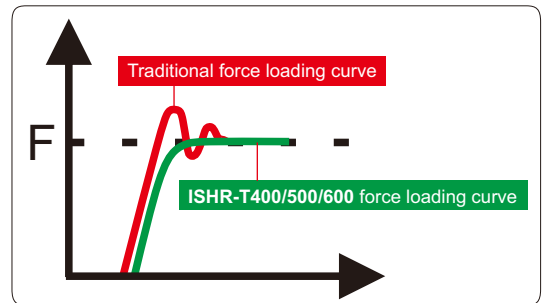
INSPECTION CERTIFICATE



ISHR-T600

The preliminary and total test force are loaded by high speed close-loop system automatically, faster and more stable than traditional motor loading. Loading process is smooth, no overshoot. Loading speed and accuracy are improved greatly

- Automatic testing, the preliminary and total test force are loaded by high speed close-loop system automatically
- Dolphin-nose indenter for easy reach of the internal wall of pipes and grooves, the minimum internal diameter is 40mm
- Can transmit test data to computer
- LCD touch screen
- Tolerance with judgement
- Memory of 120 test values for browsing and output
- Provide the maximum, minimum and average values of measurement
- The test process curve shows the material property
- Test force is selected automatically according to hardness scale
- According to ISO 6508



SPECIFICATION

| Code | ISHR-T400 | ISHR-T500 | ISHR-T600 |
|------------------------|--|---|--|
| Type | Rockwell | Superficial Rockwell | Rockwell and Superficial Rockwell |
| Hardness scale | with standard indenters | HR15N, HR30N, HR45N, HR15T, HR30T, HR45T | HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T |
| | with optional indenters | HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV | HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y |
| Preliminary test force | Rockwell: 98N (10kg) | Superficial Rockwell: 29.4N (3kg) | Rockwell: 98N (10kg) Superficial Rockwell: 29.4N (3kg) |
| Total test force | 588N (60kg), 980N (100kg), 1471N (150kg) | 147.1N (15kg), 294.2N (30kg), 441.3N (45kg) | 147.1N (15kg), 294.2N (30kg), 441.3N (45kg), 588N (60kg), 980N (100kg), 1471N (150kg) |
| Conversion scale | HR, HB, HK, HV | | |
| Stage elevation | manual | | |
| Load control | high speed close-loop system automatic loading (load/dwell/unload) | | |
| Load dwell time | 0~99 second | | |
| Resolution | 0.1HR | | |
| Data output | built-in printer, RS232 | | |
| Max. workpiece height | 260mm | | |
| Max. testing width | 150mm (from the center of indenter to the wall of main body) | | |
| Power supply | 110/220V, 50/60Hz | | |
| Dimension | 700×260×700mm | | |
| Weight | 85kg | | |

To be continued

Continued from previous page

STANDARD DELIVERY

| Code | ISHR-T400 | ISHR-T500 | ISHR-T600 |
|---------------------------------|-----------|-----------|-----------|
| Main unit | 1 pc | 1 pc | 1 pc |
| Ø60mm flat anvil | 1 pc | 1 pc | 1 pc |
| Ø150mm flat anvil | 1 pc | 1 pc | 1 pc |
| V-type anvil | 1 pc | 1 pc | 1 pc |
| Ø1.5875mm carbide ball indenter | 1 pc | 1 pc | 1 pc |
| Diamond indenter | 1 pc | 1 pc | 1 pc |
| Hardness test block HRB88~95 | 1 pc | — | 1 pc |
| Hardness test block HRC20~30 | 1 pc | — | 1 pc |
| Hardness test block HRC40~50 | 1 pc | — | 1 pc |
| Hardness test block HRC60~65 | 1 pc | — | 1 pc |
| Hardness test block 78~88HR15N | — | 1 pc | 1 pc |
| Hardness test block 55~73HR30N | — | 1 pc | 1 pc |
| Hardness test block 57~69HR30T | — | 1 pc | 1 pc |



Ø60mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



small V-type anvil (optional) for cylinders with diameter Ø2~4mm

OPTIONAL ACCESSORY

| | |
|--------------------------------|-----------------|
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Hardness test block HRC35~55 | HDT-B-HRC2 |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Hardness test block 78~88HR15N | HDT-B-HR15N2 |
| Hardness test block 55~73HR30N | HDT-B-HR30N2 |
| Hardness test block 57~69HR30T | HDT-B-HR30T |
| Small V-type anvil | ISH-SMALLANVIL |
| Connection cable and software | ISHR-T-SOFTWARE |

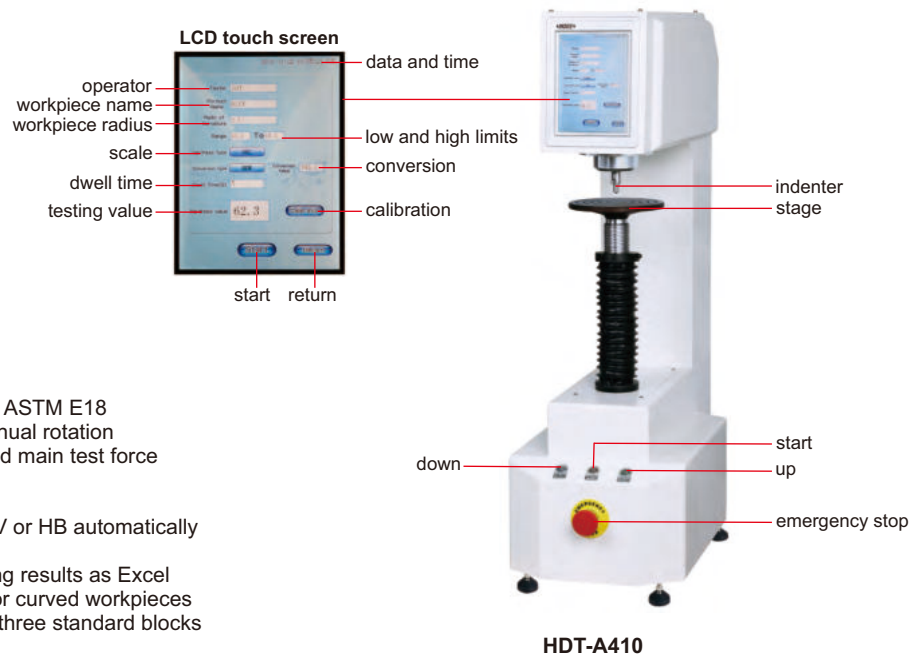
AUTOMATIC DIGITAL ROCKWELL/SUPERFICIAL ROCKWELL HARDNESS TESTERS (FOR MASS PRODUCTION)



AUTOMATIC LIFTING OF STAGE
AUTOMATIC LOADING AND UNLOADING

DATA
OUTPUT

FORCE LOADING BY ELECTRIC
MOTOR (WITHOUT WEIGHTS)



HDT-A410

- According to BSEN 6508, ISO 6508, ASTM E18
- Automatic lifting of stage without manual rotation
- Automatic testing, the preliminary and main test force are loaded automatically
- LCD touch screen, easy operation
- Convert to other Rockwell scales, HV or HB automatically
- Tolerance testing
- Insert USB flash disk, save the testing results as Excel
- Self-correcting the hardness value for curved workpieces
- The accuracy can be corrected with three standard blocks of low, medium and high values
- The loading force can be corrected with standard force gages
- Force loading by electric motor (without weights)
- The test force is selected automatically according to hardness scales

To be continued

Continued from previous page



SPECIFICATION

| Code | | HDT-A410** | HDT-A510** | HDT-A610** |
|------------------------|-------------------------|--|---|--|
| Type | | Rockwell | Superficial Rockwell | Rockwell and Superficial Rockwell |
| Hardness scale | with standard indenters | HRA, HRB, HRC, HRD, HRF, HRG | HR15N, HR30N, HR45N, HR15T, HR30T, HR45T | HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T |
| | with optional indenter | HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV | HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y | HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y |
| Preliminary test force | | 98N/10kgf for Rockwell | 29.4N/3kgf for Superficial Rockwell | 98N/10kgf for Rockwell 29.4N/3kgf for Superficial Rockwell |
| Test force | | 588N (60kg), 980N (100kg), 1471N (150kg) | 147.1N (15kg), 294.2N (30kg), 441.3N (45kg) | 147.1N (15kg), 294.2N (30kg), 441.3N (45kg), 588N (60kg), 980N (100kg), 1471N (150kg) |
| Stage lifting | | automatic | | |
| Load control | | automatic (load/dwell/unload) | | |
| Load dwell time | | 0~99 second | | |
| Resolution | | 0.1HR | | |
| Output | | USB | | |
| Max. workpiece height | | 300mm | | |
| Max. testing width | | 200mm (from the center of indenter to the wall of main body) | | |
| Power supply | | 220V, 50/60Hz ** | | |
| Dimension | | 560×280×850mm | | |
| Weight | | 80kg | | |

STANDARD DELIVERY

| Code | HDT-A410** | HDT-A510** | HDT-A610** |
|---------------------------------|------------|------------|------------|
| Main unit | 1 pc | 1 pc | 1 pc |
| Ø63mm flat anvil | 1 pc | 1 pc | 1 pc |
| Ø150mm flat anvil | 1 pc | 1 pc | 1 pc |
| V-type anvil | 1 pc | 1 pc | 1 pc |
| Diamond indenter | 1 pc | 1 pc | 1 pc |
| Ø1.5875mm carbide ball indenter | 1 pc | 1 pc | 1 pc |
| Hardness test block HRB88~95 | 1 pc | — | 1 pc |
| Hardness test block HRC60~65 | 1 pc | — | 1 pc |
| Hardness test block HRC20~30 | 1 pc | — | 1 pc |
| Hardness test block 78~88HR15N | — | 1 pc | 1 pc |
| Hardness test block 55~73HR30N | — | 1 pc | 1 pc |
| Hardness test block 57~69HR30T | — | 1 pc | 1 pc |
| USB flash disk (8G) | 1 pc | 1 pc | 1 pc |
| Level | 1 pc | 1 pc | 1 pc |
| Touch pen | 1 pc | 1 pc | 1 pc |
| Anti-dust cover | 1 pc | 1 pc | 1 pc |

** Add "-U" on code No. when power supply is 110V, 50/60Hz

OPTIONAL ACCESSORY

| | |
|--------------------------------|----------------|
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Hardness test block 78~88HR15N | HDT-B-HR15N2 |
| Hardness test block 55~73HR30N | HDT-B-HR30N2 |
| Hardness test block 57~69HR30T | HDT-B-HR30T |
| Small V-type anvil | ISH-SMALLANVIL |
| Desk | HDT-DESK |

AUTOMATIC DIGITAL ROCKWELL/SUPERFICIAL ROCKWELL HARDNESS TESTERS



FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)

DATA OUTPUT

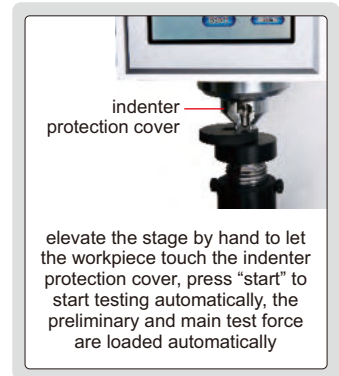


ISH-RSR400



- Automatic testing, the preliminary and main test force are loaded automatically
- LCD touch screen, easy operation
- Convert to other Rockwell scales, HV or HB automatically
- Tolerance testing
- Insert USB flash disk, save the testing results as Excel
- Self-correcting the hardness value for curved workpieces
- Force loading by electric motor (without weights)
- The test force is selected automatically according to hardness scale
- According to ISO 6508

automatic testing



Ø63mm flat anvil (included)



Ø150mm flat anvil (included)



level (included)



desk (optional)



touch pen (included)



V-type anvil (included) for cylinders with diameter Ø4-60mm



small V-type anvil (optional) for cylinders with diameter Ø2-4mm

To be continued

Continued from previous page

SPECIFICATION

| Code | | ISH-RSR400 ** | ISH-RSR500 ** | ISH-RSR600 ** |
|------------------------|-------------------------|--|---|--|
| Type | | Rockwell | Superficial Rockwell | Rockwell and Superficial Rockwell |
| Hardness scale | with standard indenters | HRA, HRB, HRC, HRD, HRF, HRG | HR15N, HR30N, HR45N, HR15T, HR30T, HR45T | HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T |
| | with optional indenter | HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV | HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y | HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y |
| Preliminary test force | | 98N/10kgf for Rockwell | 29.4N/3kgf for Superficial Rockwell | 98N/10kgf for Rockwell 29.4N/3kgf for Superficial Rockwell |
| Test force | | 588N (60kg), 980N (100kg), 1471N (150kg) | 147.1N (15kg), 294.2N (30kg), 441.3N (45kg) | 147.1N (15kg), 294.2N (30kg), 441.3N (45kg), 588N (60kg), 980N (100kg), 1471N (150kg) |
| Stage elevation | | manual | | |
| Load control | | automatic (load/dwell/unload) | | |
| Load dwell time | | 0~60 second | | |
| Resolution | | 0.1HR | | |
| Output | | USB | | |
| Max. workpiece height | | 220mm | | |
| Max. testing width | | 200mm (from the center of indenter to the wall of main body) | | |
| Power supply | | 220V, 50/60Hz ** | | |
| Dimension | | 510×260×780mm | | |
| Weight | | 70kg | | |

STANDARD DELIVERY

| Code | ISH-RSR400 ** | ISH-RSR500 ** | ISH-RSR600 ** |
|---------------------------------|---------------|---------------|---------------|
| Main unit | 1 pc | 1 pc | 1 pc |
| Ø63mm flat anvil | 1 pc | 1 pc | 1 pc |
| Ø150mm flat anvil | 1 pc | 1 pc | 1 pc |
| V-type anvil | 1 pc | 1 pc | 1 pc |
| Diamond indenter | 1 pc | 1 pc | 1 pc |
| Ø1.5875mm carbide ball indenter | 1 pc | 1 pc | 1 pc |
| Hardness test block HRB88~95 | 1 pc | — | 1 pc |
| Hardness test block HRC60~65 | 1 pc | — | 1 pc |
| Hardness test block HRC20~30 | 1 pc | — | 1 pc |
| Hardness test block 78~88HR15N | — | 1 pc | 1 pc |
| Hardness test block 55~73HR30N | — | 1 pc | 1 pc |
| Hardness test block 57~69HR30T | — | 1 pc | 1 pc |
| USB flash disk (8G) | 1 pc | 1 pc | 1 pc |
| Level | 1 pc | 1 pc | 1 pc |
| Touch pen | 1 pc | 1 pc | 1 pc |
| Anti-dust cover | 1 pc | 1 pc | 1 pc |

** Add "-U" on code No. when power supply is 110V, 50/60Hz

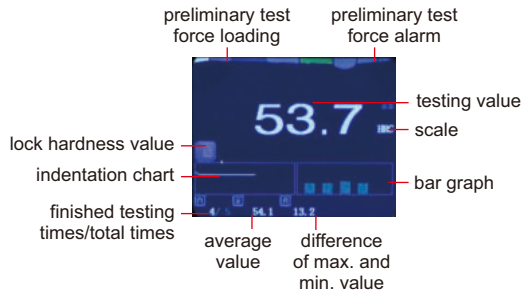
OPTIONAL ACCESSORY

| | |
|--------------------------------|----------------|
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Hardness test block 78~88HR15N | HDT-B-HR15N2 |
| Hardness test block 55~73HR30N | HDT-B-HR30N2 |
| Hardness test block 57~69HR30T | HDT-B-HR30T |
| Small V-type anvil | ISH-SMALLANVIL |
| Desk | HDT-DESK |

AUTOMATIC DIGITAL ROCKWELL HARDNESS TESTER CODE ISH-MRD200**



DATA
OUTPUT



- Tolerance testing
- Set testing times (2~10) to have average value and the difference of max. and min. value
- Convert to other Rockwell scales, HV or HB
- Memory of 500 testing values for browsing and output
- Testing value can be sent to wireless printer automatically
- Calibration function compensates the testing value for high accuracy
- The hardness value of soft materials like plastic is not stable, the lock function can obtain the value automatically
- Display unit is automatic power off
- According to ISO 6508



Ø60mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



small V-type anvil (optional) for cylinders with diameter Ø2~4mm



wireless printer (optional)



desk (optional)

SPECIFICATION

| | |
|---|--|
| Hardness scale | HRA, HRB, HRC, HRD HRF, HRG (with standard indenters) HRE, HRH, HRK (with optional indenter) |
| Preliminary test force | 98N |
| Test force | 588N, 980N, 1471N |
| Stage elevation | manual |
| Load control | automatic (load/dwell/unload) |
| Load dwell time | 1~99 second |
| Resolution | 0.1HR |
| Output | wireless and USB |
| Memory | 500 |
| Max. workpiece height | 170mm |
| Max. testing width | 165mm (from the center of indenter to the wall of main body) |
| Power supply of the display unit | built-in rechargeable battery |
| Power supply | 220V, 50/60Hz ** |
| Dimension | 520×160×700mm |
| Weight | 60kg |

** Add "-U" on code No. when power supply is 110V, 50/60Hz

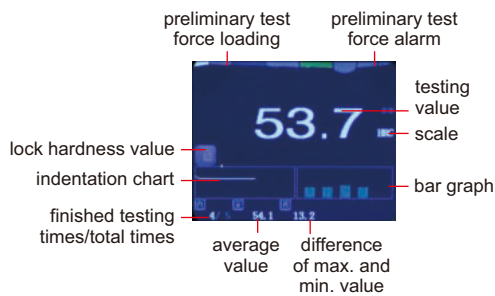
STANDARD DELIVERY

| | |
|---------------------------------|------|
| Main unit | 1 pc |
| Ø60mm flat anvil | 1 pc |
| Ø150mm flat anvil | 1 pc |
| V-type anvil | 1 pc |
| Diamond indenter | 1 pc |
| Ø1.5875mm carbide ball indenter | 1 pc |
| Hardness test block HRB88~95 | 1 pc |
| Hardness test block HRC60~65 | 1 pc |
| Hardness test block HRC20~30 | 1 pc |
| Anti-dust cover | 1 pc |
| Software and USB cable | 1 pc |
| AC/DC adapter | 1 pc |

OPTIONAL ACCESSORY

| | |
|--------------------------------|------------------|
| Wireless printer | ISH-DS-PRINTER |
| Ø3.175mm carbide ball indenter | ISH-EHK-INDENTER |
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Small V-type anvil | ISH-SMALLANVIL |
| Desk | HDT-DESK |

MANUAL DIGITAL ROCKWELL HARDNESS TESTER CODE ISH-RD200



software CD (included)

- Tolerance testing
- Set testing times (2~10) to have average value and the difference of max. and min. value
- Convert to other Rockwell scales, HV or HB
- Memory of 500 testing values for browsing and output
- Testing value can be sent to wireless printer automatically
- Calibration function compensates the testing value for high accuracy
- The hardness value of soft materials like plastic is not stable, the lock function can obtain the value automatically
- Automatic power off
- According to ISO 6508



Ø60mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



small V-type anvil (optional) for cylinders with diameter Ø2~4mm



wireless printer (optional)



desk (optional)

SPECIFICATION

| | |
|-------------------------------|--|
| Hardness scale | HRA, HRB, HRC, HRD HRF, HRG (with standard indenters) HRE, HRH, HRK (with optional indenter) |
| Preliminary test force | 98N |
| Test force | 588N, 980N, 1471N |
| Stage elevation | manual |
| Load control | manual |
| Resolution | 0.1HR |
| Output | wireless and USB |
| Memory | 500 |
| Max. workpiece height | 170mm |
| Max. testing width | 165mm (from the center of indenter to the wall of main body) |
| Power supply | built-in rechargeable battery |
| Dimension | 520×160×700mm |
| Weight | 60kg |

STANDARD DELIVERY

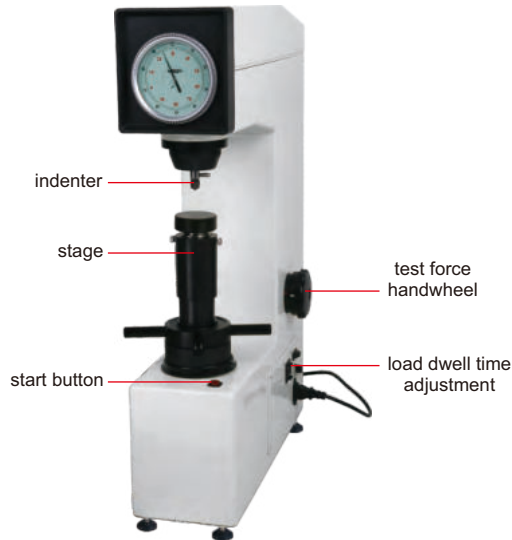
| | |
|--|------|
| Main unit | 1 pc |
| Ø60mm flat anvil | 1 pc |
| Ø150mm flat anvil | 1 pc |
| V-type anvil | 1 pc |
| Diamond indenter | 1 pc |
| Ø1.5875mm carbide ball indenter | 1 pc |
| Hardness test block HRB88~95 | 1 pc |
| Hardness test block HRC60~65 | 1 pc |
| Hardness test block HRC20~30 | 1 pc |
| Anti-dust cover | 1 pc |
| Software and USB cable | 1 pc |
| AC/DC adapter | 1 pc |

OPTIONAL ACCESSORY

| | |
|---------------------------------------|------------------|
| Wireless printer | ISH-DS-PRINTER |
| Ø3.175mm carbide ball indenter | ISH-EHK-INDENTER |
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Small V-type anvil | ISH-SMALLANVIL |
| Desk | HDT-DESK |

AUTOMATIC ROCKWELL HARDNESS TESTER

CODE ISH-MR150**



■ According to ISO 6508



Ø60mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



small V-type anvil (optional) for cylinders with diameter Ø2~4mm



desk (optional)

SPECIFICATION

| | |
|------------------------|--|
| Hardness scale | HRA, HRB, HRC, HRD, HRF, HRG |
| Preliminary test force | 98N |
| Test force | 588N, 980N, 1471N |
| Display | analogue |
| Stage elevation | manual |
| Load control | automatic (load/dwell/unload) |
| Load dwell time | 1~99 second |
| Min. reading | 0.5HR |
| Max. workpiece height | 170mm |
| Max. testing width | 165mm (from the center of indenter to the wall of main body) |
| Power supply | 220V, 50/60Hz** |
| Dimension | 520×160×700mm |
| Weight | 60kg |

** Add "-U" on code No. when power supply is 110V, 50/60Hz

STANDARD DELIVERY

| | |
|---------------------------------|------|
| Main unit | 1 pc |
| Ø60mm flat anvil | 1 pc |
| Ø150mm flat anvil | 1 pc |
| V-type anvil | 1 pc |
| Diamond indenter | 1 pc |
| Ø1.5875mm carbide ball indenter | 1 pc |
| Hardness test block HRB88~95 | 1 pc |
| Hardness test block HRC60~65 | 1 pc |
| Hardness test block HRC20~30 | 1 pc |
| Anti-dust cover | 1 pc |

OPTIONAL ACCESSORY

| | |
|-------------------------------|----------------|
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Small V-type anvil | ISH-SMALLANVIL |
| Desk | HDT-DESK |

AUTOMATIC ROCKWELL HARDNESS TESTER (BASIC TYPE) CODE HDT-RA151**



■ According to ISO 6508



Ø58mm flat anvil
(included)



Ø150mm flat anvil
(included)



V-type anvil (included)
for cylinders with
diameter Ø4~60mm



level (included)



small V-type anvil
(optional) for
cylinders with
diameter Ø2~4mm



desk **(optional)**

SPECIFICATION

| | |
|------------------------|--|
| Hardness scale | HRA, HRB, HRC, HRD, HRF, HRG |
| Preliminary test force | 98N |
| Test force | 588N, 980N, 1471N |
| Display | analogue |
| Stage elevation | manual |
| Load control | automatic (load/dwell/unload) |
| Load dwell time | 1~60 second |
| Min. reading | 0.5HR |
| Max. workpiece height | 170mm |
| Max. testing width | 128mm (from the center of indenter to the wall of main body) |
| Power supply | 220V, 50/60Hz** |
| Dimension | 520×225×640mm |
| Weight | 65kg |

** Add "-U" on code No. when power supply is 110V, 50/60Hz

STANDARD DELIVERY

| | |
|-------------------------------|------|
| Main unit | 1 pc |
| Ø58mm flat anvil | 1 pc |
| Ø150mm flat anvil | 1 pc |
| V-type anvil | 1 pc |
| Diamond indenter | 1 pc |
| Ø1.5875mm steel ball indenter | 1 pc |
| Level | 1 pc |
| Hardness test block HRA80~88 | 1 pc |
| Hardness test block HRB85~95 | 1 pc |
| Hardness test block HRC20~30 | 1 pc |
| Hardness test block HRC35~55 | 1 pc |
| Hardness test block HRC60~70 | 1 pc |
| Anti-dust cover | 1 pc |

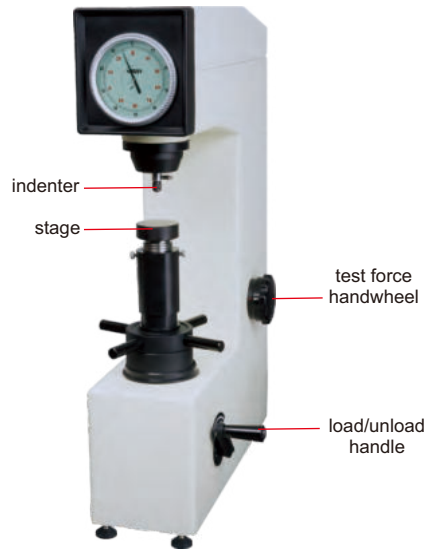
OPTIONAL ACCESSORY

| | |
|-------------------------------|----------------|
| Hardness test block HRA80~84 | HDT-B-HRA |
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Hardness test block HRC35~55 | HDT-B-HRC2 |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Small V-type anvil | ISH-SMALLANVIL |
| Desk | HDT-DESK |

MANUAL ROCKWELL HARDNESS TESTER CODE ISH-R150



VIDEO



- According to ISO 6508



Ø60mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



small V-type anvil (optional) for cylinders with diameter Ø2~4mm



desk (optional)

SPECIFICATION

| | |
|------------------------|--|
| Hardness scale | HRA, HRB, HRC, HRD, HRF, HRG |
| Preliminary test force | 98N |
| Test force | 588N, 980N, 1471N |
| Display | analogue |
| Stage elevation | manual |
| Load control | manual |
| Min. reading | 0.5HR |
| Max. workpiece height | 170mm |
| Max. testing width | 165mm (from the center of indenter to the wall of main body) |
| Dimension | 520×160×700mm |
| Weight | 60kg |

STANDARD DELIVERY

| | |
|---------------------------------|------|
| Main unit | 1 pc |
| Ø60mm flat anvil | 1 pc |
| Ø150mm flat anvil | 1 pc |
| V-type anvil | 1 pc |
| Diamond indenter | 1 pc |
| Ø1.5875mm carbide ball indenter | 1 pc |
| Hardness test block HRB88~95 | 1 pc |
| Hardness test block HRC60~65 | 1 pc |
| Hardness test block HRC20~30 | 1 pc |
| Anti-dust cover | 1 pc |

OPTIONAL ACCESSORY

| | |
|-------------------------------|----------------|
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Small V-type anvil | ISH-SMALLANVIL |
| Desk | HDT-DESK |

MANUAL ROCKWELL HARDNESS TESTER (BASIC TYPE)
CODE HDT-RW160

VIDEO

- According to ISO 6508



Ø58mm flat anvil
(included)



Ø150mm flat anvil
(included)



V-type anvil (included)
for cylinders with
diameter Ø4~60mm



level (included)



small V-type anvil
(optional) for
cylinders with
diameter Ø2~4mm



desk (optional)

SPECIFICATION

| | |
|------------------------|--|
| Hardness scale | HRA, HRB, HRC, HRD, HRF, HRG |
| Preliminary test force | 98N (10kg) |
| Test force | 588N (60kg), 980N (100kg), 1471N (150kg) |
| Display | analogue |
| Stage elevation | manual |
| Load control | manual |
| Min. reading | 0.5HR |
| Max. workpiece height | 170mm |
| Max. testing width | 135mm (from the center of indenter to the wall of main body) |
| Dimension | 466×238×630mm |
| Weight | 70kg |

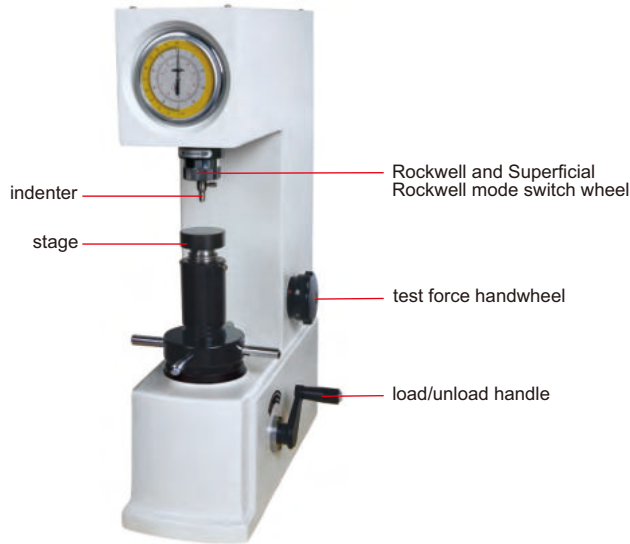
STANDARD DELIVERY

| | |
|-------------------------------|-------|
| Main unit | 1 pc |
| Ø58mm flat anvil | 1 pc |
| Ø150mm flat anvil | 1 pc |
| V-type anvil | 1 pc |
| Diamond indenter | 1 pc |
| Ø1.5875mm steel ball indenter | 1 pc |
| Ø1.5875mm steel ball | 5 pcs |
| Level | 1 pc |
| Hardness test block HRA80~88 | 1 pc |
| Hardness test block HRB85~95 | 1 pc |
| Hardness test block HRC20~30 | 1 pc |
| Hardness test block HRC35~55 | 1 pc |
| Hardness test block HRC60~70 | 1 pc |
| Anti-dust cover | 1 pc |

OPTIONAL ACCESSORY

| | |
|-------------------------------|----------------|
| Hardness test block HRA80~84 | HDT-B-HRA |
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Hardness test block HRC35~55 | HDT-B-HRC2 |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Small V-type anvil | ISH-SMALLANVIL |
| Desk | HDT-DESK |

MANUAL ROCKWELL AND SUPERFICIAL ROCKWELL HARDNESS TESTER CODE HDT-RSR100



Ø60mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



small V-type anvil (optional) for cylinders with diameter Ø2~4mm



desk (optional)

■ According to ISO 6508

SPECIFICATION

| | |
|------------------------|---|
| Hardness scale | HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T |
| Preliminary test force | 29.4N/3kgf for Superficial Rockwell 98N/10kgf for Rockwell |
| Test force | 147N/15kgf, 294N/30kgf, 441N/45kgf, 588N/60kgf, 980N/100kgf, 1471N/150kgf |
| Display | analogue |
| Stage elevation | manual |
| Load control | manual |
| Min. reading | 0.5HR |
| Max. workpiece height | 160mm |
| Max. testing width | 140mm (from the center of indenter to the wall of main body) |
| Dimension | 460×240×660mm |
| Weight | 75kg |

STANDARD DELIVERY

| | |
|---------------------------------|------|
| Main unit | 1 pc |
| Ø60mm flat anvil | 1 pc |
| Ø150mm flat anvil | 1 pc |
| V-type anvil | 1 pc |
| Diamond indenter | 1 pc |
| Ø1.5875mm carbide ball indenter | 1 pc |
| Hardness test block HRB88~95 | 1 pc |
| Hardness test block HRC60~65 | 1 pc |
| Hardness test block HRC20~30 | 1 pc |
| Hardness test block 78~88HR15N | 1 pc |
| Hardness test block 55~73HR30N | 1 pc |
| Hardness test block 57~69HR30T | 1 pc |
| Anti-dust cover | 1 pc |

OPTIONAL ACCESSORY

| | |
|--------------------------------|----------------|
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Hardness test block 78~88HR15N | HDT-B-HR15N2 |
| Hardness test block 55~73HR30N | HDT-B-HR30N2 |
| Hardness test block 57~69HR30T | HDT-B-HR30T |
| Small V-type anvil | ISH-SMALLANVIL |
| Desk | HDT-DESK |

FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)

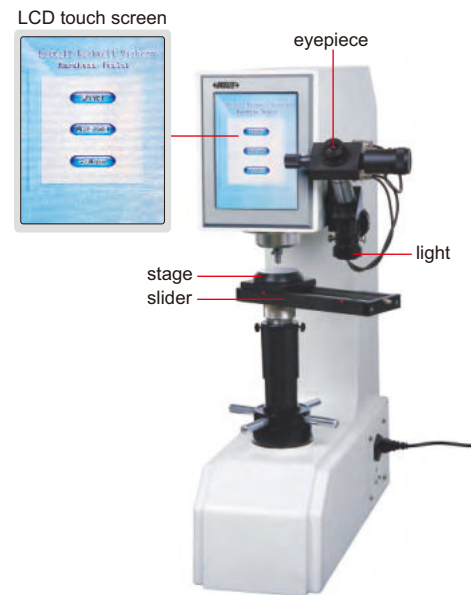
**DIGITAL BRINELL/ROCKWELL/VICKERS HARDNESS TESTER
CODE HDT-BRV130****



- According to ISO 6506, ISO 6507, ISO 6508
- Force loading by electric motor (without weights)

SPECIFICATION

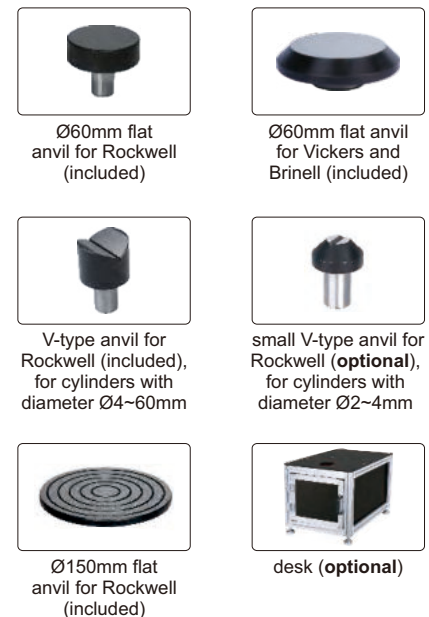
| | |
|------------------------------------|--|
| Brinell test load | 49N (5kgf), 98N (10kgf), 153N (15.625kgf), 294N (30kgf), 306N (31.25kgf), 613N (62.5kgf), 980N (100kgf), 1226N (125kgf), 1839N (187.5kgf) |
| Brinell scales | HBW1/5, HBW2.5/62.5, HBW1/10, HBW2.5/15.625, HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW10/100, HBW5/125, HBW2.5/187.5 |
| Brinell resolution | 0.1HBW |
| Rockwell test load | 98N (10kgf) preload 588 (60kgf), 980 (100kgf), 1471N (150kgf) total load |
| Rockwell scales | HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV |
| Rockwell resolution | 0.1HR |
| Vickers test load | 49N (5kgf), 98N (10kgf), 196N (20kgf), 294N (30kgf), 392N (40kgf), 490N (50kgf), 588N (60kgf), 784N (80kgf), 980N (100kgf), 1176N (120kgf) |
| Vickers scales | HV5, HV10, HV20, HV30, HV40, HV50, HV60, HV80, HV100, HV120 |
| Vickers resolution | 0.1HV |
| Objective | 2.5X/5X |
| Magnification of microscope | Brinell: 37.5X, Vickers: 75X |
| Hardness test range | Brinell: 8~650HBW, Rockwell: 20~100HR, Vickers: 8~2900HV |
| Max. workpiece height | Rockwell: 220mm, Brinell and Vickers: 150mm |
| Max. testing width | 200mm (from the center of indenter to the wall of main body) |
| Data output | USB flash disk |
| Power supply | 220V, 50/60Hz ** |
| Dimension | 560×350×800mm |
| Weight | 70kg |



** Add "-U" on code No. when power supply is 110V, 50/60Hz

STANDARD DELIVERY

| | |
|--|------|
| Main unit | 1 pc |
| Vickers diamond indenter | 1 pc |
| Rockwell diamond indenter | 1 pc |
| Ø1.5875mm Rockwell indenter | 1 pc |
| Ø2.5mm Brinell indenter | 1 pc |
| Ø5mm Brinell indenter | 1 pc |
| Ø60mm flat anvil for Rockwell | 1 pc |
| Ø150mm flat anvil for Rockwell | 1 pc |
| V-type anvil for Rockwell | 1 pc |
| Ø60mm flat anvil for Vickers and Brinell | 1 pc |
| Hardness test block HRB88~95 | 1 pc |
| Hardness test block HRC60~65 | 1 pc |
| Hardness test block HRC20~30 | 1 pc |
| Hardness test block 400~500HV30 | 1 pc |
| Hardness test block 180~300HBW2.5/187.5 | 1 pc |
| Level | 1 pc |
| USB flash disk | 1 pc |
| Touch pen | 1 pc |
| Anti-dust cover | 1 pc |



OPTIONAL ACCESSORY

| | |
|---|----------------|
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Hardness test block 400~500HV30 | HDT-B-HV30D |
| Hardness test block 200~300HBW2.5/187.5 | HDT-B-HB25A2 |
| Small V-type anvil for Rockwell | ISH-SMALLANVIL |
| Desk | HDT-DESK |

BRINELL/ROCKWELL/VICKERS HARDNESS TESTER CODE ISH-BRV**



Ø60mm flat anvil for Rockwell (included)



Ø150mm flat anvil for Rockwell (included)



Ø60mm flat anvil for Vickers and Brinell (included)



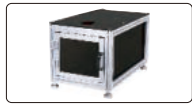
V-type anvil for Rockwell (included), for cylinders with diameter Ø4~60mm



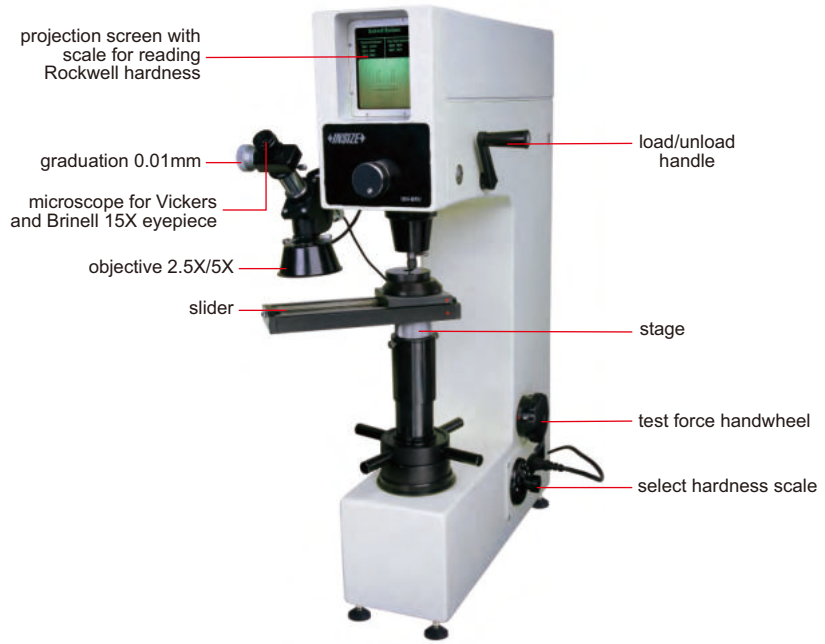
V-type anvil for Vickers and Brinell (included)



small V-type anvil for Rockwell (optional), for cylinders with diameter Ø2~4mm



desk (optional)



■ According to ISO 6506, ISO 6507, ISO 6508

SPECIFICATION

| | |
|-----------------------------|--|
| Rockwell test load | 98N preload, 588, 980, 1471N total load |
| Min. Rockwell reading | 0.5HR |
| Brinell test load | 306, 613, 1839N |
| Vickers test load | 294N |
| Stage elevation | manual |
| Load control | manual |
| Magnification of microscope | 37.5X/75X |
| Max. workpiece height | 180mm |
| Max. testing width | 200mm (from the center of indenter to the wall of main body) |
| Power supply | 220V, 50/60Hz ** |
| Dimension | 546×300×767mm |
| Weight | 90kg |

** Add "-U" on code No. when power supply is 110V, 50/60Hz

STANDARD DELIVERY

| | |
|--|------|
| Main unit | 1 pc |
| Ø1.5875mm carbide ball indenter | 1 pc |
| Diamond Rockwell indenter | 1 pc |
| Ø5mm Brinell indenter | 1 pc |
| Ø2.5mm Brinell indenter | 1 pc |
| Vickers indenter | 1 pc |
| Ø60mm flat anvil for Rockwell | 1 pc |
| Ø150mm flat anvil for Rockwell | 1 pc |
| V-type anvil for Rockwell | 1 pc |
| Ø60mm flat anvil for Vickers and Brinell | 1 pc |
| V-type anvil for Vickers and Brinell | 1 pc |
| Hardness test block HRB88~95 | 1 pc |
| Hardness test block HRC60~65 | 1 pc |
| Hardness test block HRC20~30 | 1 pc |
| Hardness test block 400~500HV30 | 1 pc |
| Hardness test block 180~300HBW2.5/187.5 | 1 pc |
| Anti-dust cover | 1 pc |

OPTIONAL ACCESSORY

| | |
|--|----------------|
| Hardness test block HRB88~100 | HDT-B-HRB |
| Hardness test block HRC60~70 | HDT-B-HRC3 |
| Hardness test block HRC20~30 | HDT-B-HRC1 |
| Hardness test block 400-500HV30 | HDT-B-HV30D |
| Hardness test block 200-3000HBW2.5/187.5 | HDT-B-HB25A2 |
| Small V-type anvil for Rockwell | ISH-SMALLANVIL |
| Desk | HDT-DESK |

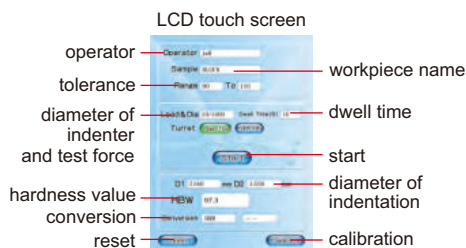
AUTOMATIC TESTING,
AUTOMATIC TEST FORCE LOADING

FORCE LOADING BY ELECTRIC
MOTOR (WITHOUT WEIGHT)



AUTOMATIC DIGITAL BRINELL HARDNESS TESTERS

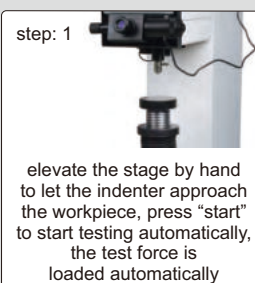
**INSPECTION
CERTIFICATE**



- Automatic testing, automatic test force loading
- LCD touch screen, easy operation
- Measure indentation by measuring microscope then read the hardness value from LCD
- Tolerance testing
- Insert USB flash disk, save the test results as Excel
- Converted to HRA, HRB, HRC, HRD, HRF, HV, HB, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
- Force loading by electric motor, without weights
- According to ISO 6506



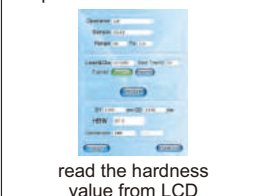
step: 1



step: 2



step: 3



Ø80mm flat anvil (included)



Ø200mm flat anvil (included)



V-type anvil (included)



touch pen (included)



desk (optional)

SPECIFICATION

| Code | ISHB-D200 ** | ISHB-D300 ** |
|-----------------------|--|--------------|
| Turret rotation | manual | automatic |
| Range | 8~650HBW | |
| Reading mode | directly read from LCD | |
| Test force | 62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf | |
| Max. workpiece height | 200mm | |
| Max. testing width | 155mm (from the center of indenter to the wall of main body) | |
| Stage elevation | manual | |
| Load control | automatic (load/dwell/unload) | |
| Load dwell time | 5~60 second | |
| Measuring microscope | magnification | 20X |
| | resolution | 0.625mm |
| Power supply | 220V, 50/60Hz ** | |
| Dimension | 550x210x750mm | |
| Weight | 110kg | |

** Add "-U" on code No. when power supply is 110V, 50/60Hz

STANDARD DELIVERY

| | |
|---|------|
| Main unit | 1 pc |
| Ø80mm flat anvil | 1 pc |
| Ø200mm flat anvil | 1 pc |
| V-type anvil | 1 pc |
| Ø2.5mm carbide ball indenter | 1 pc |
| Ø5mm carbide ball indenter | 1 pc |
| Ø10mm carbide ball indenter | 1 pc |
| Hardness test block 150~250HBW2.5/187.5 | 1 pc |
| Hardness test block 75~125HBW10/1000 | 1 pc |
| Hardness test block 175~250HBW10/3000 | 1 pc |
| USB flash disk (8G) | 1 pc |
| Touch pen | 1 pc |
| Anti-dust cover | 1 pc |

OPTIONAL ACCESSORY

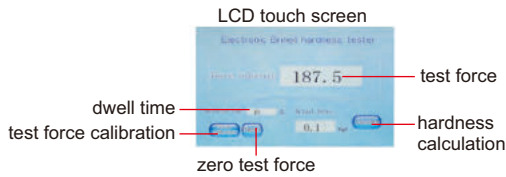
| | |
|---|--------------|
| Hardness test block 200~300HBW2.5/187.5 | HDT-B-HB25A2 |
| Hardness test block 90~200HBW10/1000 | HDT-B-HB10C1 |
| Hardness test block 200~300HBW10/3000 | HDT-B-HB10A2 |
| Brinell indentation measuring system | ISHB-MSA |
| Desk | HDT-DESK |

AUTOMATIC BRINELL HARDNESS TESTER CODE ISHB-M100**

FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)

AUTOMATIC TESTING AFTER PRELIMINARY TEST FORCE IS LOADED BY HAND

**INSPECTION
CERTIFICATE**



step: 1

measure indentation diameter by measuring microscope

step: 2

input the diameters, the hardness value is shown on screen automatically

- LCD touch screen, easy operation
- Automatic testing after preliminary test force is loaded by hand
- Measure indentation diameter by measuring microscope, input the diameters, the hardness value is shown on screen automatically
- Force loading by electric motor, without weights
- According to ISO 6506



Ø80mm flat anvil (included)



Ø200mm flat anvil (included)



V-type anvil (included)



measuring microscope (included)



desk (optional)

SPECIFICATION

| | | |
|-----------------------|--|--------|
| Range | 8~650HBW | |
| Reading mode | directly read from LCD | |
| Test force | 62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf | |
| Max. workpiece height | 230mm | |
| Max. testing width | 160mm (from the center of indenter to the wall of main body) | |
| Stage elevation | manual | |
| Load control | automatic (load/dwell/unload) | |
| Load dwell time | 5~60 second | |
| Measuring microscope | magnification | 20X |
| | graduation | 0.01mm |
| Power supply | 220V, 50/60Hz** | |
| Dimension | 550×210×750mm | |
| Weight | 90kg | |

** Add "-U" on code No. when power supply is 110V, 50/60Hz

STANDARD DELIVERY

| | |
|---|------|
| Main unit | 1 pc |
| Ø80mm flat anvil | 1 pc |
| Ø200mm flat anvil | 1 pc |
| V-type anvil | 1 pc |
| Ø2.5mm carbide ball indenter | 1 pc |
| Ø5mm carbide ball indenter | 1 pc |
| Ø10mm carbide ball indenter | 1 pc |
| Hardness test block 150~250HBW2.5/187.5 | 1 pc |
| Hardness test block 75~125HBW10/1000 | 1 pc |
| Hardness test block 175~250HBW10/3000 | 1 pc |
| Measuring microscope | 1 pc |
| Anti-dust cover | 1 pc |

OPTIONAL ACCESSORY

| | |
|---|--------------|
| Hardness test block 200~300HBW2.5/187.5 | HDT-B-HB25A2 |
| Hardness test block 90~200HBW10/1000 | HDT-B-HB10C1 |
| Hardness test block 200~300HBW10/3000 | HDT-B-HB10A2 |
| Brinell indentation measuring system | ISHB-MSA |
| Desk | HDT-DESK |

BRINELL INDENTATION MEASURING SYSTEM CODE ISHB-MSA

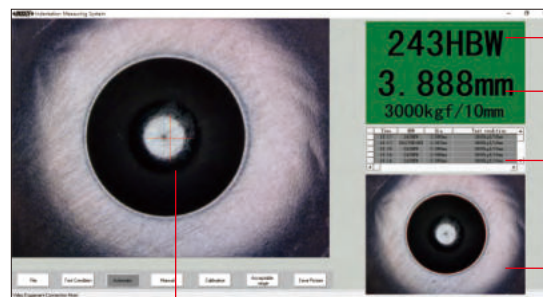
application



software CD
(included)

- Connected to computer USB port
- Automatically measure the indentation
- Result saved to Excel automatically
- Tolerance testing
- Calibration with standard hardness blocks or standard indentation blocks

software (included)



result and scale

diameter of indentation

result list

picture

indentation

SPECIFICATION

| | | |
|-------------------------------|---|------------------------------|
| Applicable Brinell indenter | Ø10mm, Ø7.26mm, Ø5mm, Ø4mm, Ø2.5mm | |
| Hardness range | 16~650HB | |
| Range of indentation diameter | Ø0.6~6mm | |
| Test force | 62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf | |
| Hardness resolution | 1HB | |
| Diameter measuring resolution | 0.001mm | |
| Diameter measuring accuracy | Ø10mm ball indenter | ±0.4% (indentation diameter) |
| | Ø5mm ball indenter | ±0.8% (indentation diameter) |
| | Ø2.5mm ball indenter | ±1.2% (indentation diameter) |
| Camera | sensor | 1/3.2" CMOS |
| | pixel | 2M (resolution 1600×1200) |
| | view filed | 8×6mm |
| Dimension | 170×54×54mm | |
| Weight | 385g | |



standard blocks for Ø5mm and Ø10mm indenters (included)

STANDARD DELIVERY

| | |
|----------------------------------|------|
| Main unit | 1 pc |
| Software | 1 pc |
| Ø5mm standard indentation block | 1 pc |
| Ø10mm standard indentation block | 1 pc |

OPTIONAL ACCESSORY

| | |
|-----------------------------------|------------------|
| Ø2.5mm standard indentation block | ISHB-MSA-BLOCK25 |
|-----------------------------------|------------------|

DIGITAL VICKERS HARDNESS TESTER CODE HDT-VD50A**

FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)



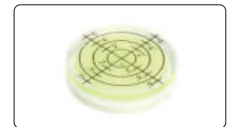
Ø58mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included)



level (included)

- LCD touch screen, easy operation
- Insert USB flash disk, save the test results as Excel
- Converted to HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
- Force loading by electric motor, without weights
- According to ISO 6507

SPECIFICATION

| | |
|-------------------------------|--|
| Test force | 0.5, 1, 2, 2.5, 3, 5, 10, 15, 20, 30, 40, 50kgf |
| Range | 8~2900HV |
| Load control | automatic (load/dwell/unload) |
| Load dwell time | 1~99 second |
| Eyepiece | 10X |
| Objective | 10X, 20X |
| Total magnification | 100X, 200X |
| Length measurement resolution | 0.01µm |
| Data output | USB flash disk |
| Max. workpiece height | 180mm |
| Max. testing width | 160mm (from the center of indenter to the wall of main body) |
| Power supply | 220V, 50/60Hz** |
| Dimension | 580x190x700mm |
| Weight | 55kg |

** Add "-U" on code No. when power supply is 110V, 50/60Hz

STANDARD DELIVERY

| | |
|---------------------------------|--------------|
| Main unit | 1 pc |
| 10X, 20X objective | 1 pc of each |
| Vickers indenter | 1 pc |
| Ø58mm flat anvil | 1 pc |
| Ø150mm flat anvil | 1 pc |
| V-type anvil | 1 pc |
| Hardness test block 400~500HV10 | 1 pc |
| Hardness test block 400~500HV30 | 1 pc |
| USB flash disk | 1 pc |
| Level | 1 pc |
| Touch pen | 1 pc |
| Anti-dust cover | 1 pc |

OPTIONAL ACCESSORY

| | |
|---------------------------------|-------------|
| Hardness test block 400~500HV10 | HDT-B-HV10D |
| Hardness test block 400~500HV30 | HDT-B-HV30D |
| Measuring system | HDT-VS530 |

VICKERS HARDNESS MEASURING SYSTEM CODE HDT-VS530

application example



C-mount



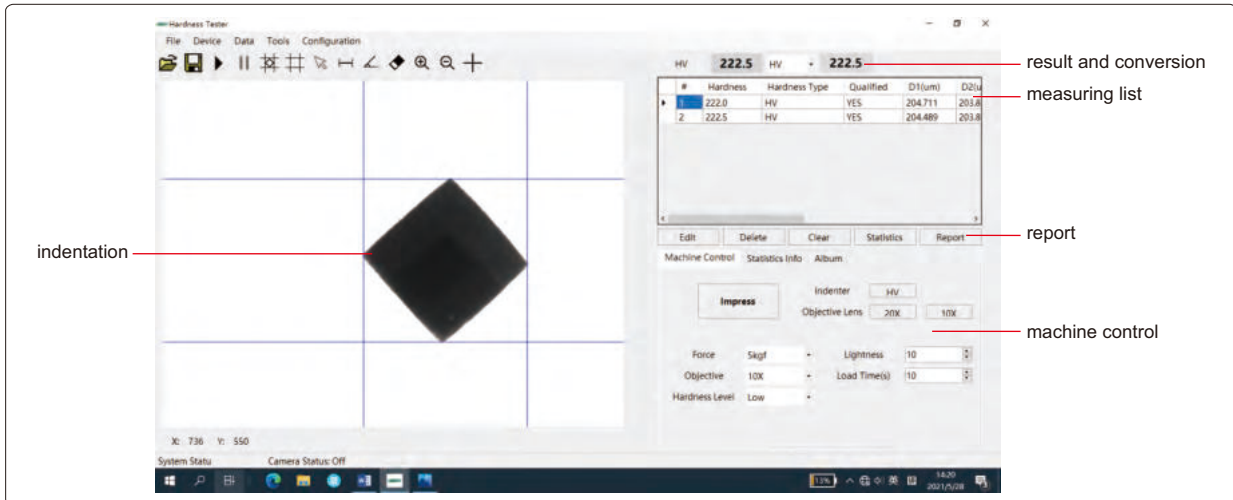
software CD
(included)



camera adapter (included)

- Suitable for digital Vickers hardness tester **HDT-VD50A**
- Connected to computer USB port
- Measure the indentation sizes automatically or manually
- Multiple measurements to have average value, max. value, min. value and variance
- Convert to HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
- Hardness tester can be controlled by software
- Measurement result can be sent to Word, Excel or CSV

measuring software (included)



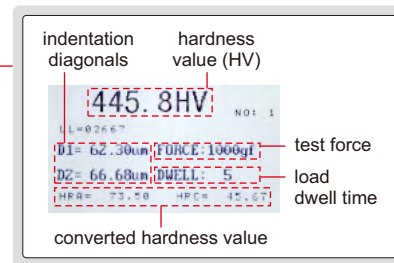
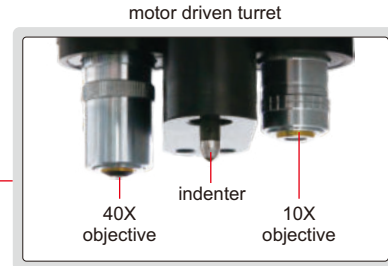
SPECIFICATION

| | |
|---------------------------------|--|
| Sensor | 1/2.5" CMOS |
| Pixel | 5M (resolution 2592×1944) |
| Hardness measurement resolution | 0.1HV |
| Length measurement resolution | 0.001µm |
| Test force | 1, 2, 2.5, 3, 5, 10, 15, 20, 30, 40, 50kgf |
| Dimension | 30×30×40mm |
| Weight | 50g |

STANDARD DELIVERY

| | |
|------------------------|-------|
| Main unit | 1 pc |
| Software and USB cable | 1 pc |
| RS232 cable | 1 pc |
| Camera adapter | 1 set |

DIGITAL MICRO-VICKERS HARDNESS TESTER CODE ISH-TDV1000A**



- Measure hardness of thin or small workpieces
- Based on Vickers (HV), can be converted to Rockwell (HRA, HRB and HRC)
- According to ISO 6507



cylinder holder (included)



vice (included)



slice holder (included)

SPECIFICATION

| | |
|-----------------------|---|
| Test force | 0.01, 0.025, 0.05, 0.1, 0.2, 0.3, 0.5, 1kgf |
| Vickers scales | HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1 |
| Stage elevation | manual |
| Load control | automatic (load/dwell/unload) |
| Load dwell time | 5~60 second (5 second increment) |
| Objective | 10X, 40X |
| Eyepiece | 15X |
| Total magnification | 150X (for observation) 600X (for measurement) |
| Max. workpiece height | 85mm |
| Max. testing width | 85mm (from the center of indenter to the wall of main body) |
| X-Y stage | dimensions: 100×100mm |
| | travel range: 25×25mm |
| | graduation: 0.01mm |
| Data output | RS232C |
| Power supply | 110/220V, 50Hz** |
| Dimension | 540x500x640mm |
| Weight | 50kg |

STANDARD DELIVERY

| | |
|----------------------------------|--------------|
| Main unit | 1 pc |
| 10X, 40X objective | 1 pc of each |
| Micro Vickers indenter | 1 pc |
| Hardness test block 400~500HV0.2 | 1 pc |
| Hardness test block 700~800HV1 | 1 pc |
| Slice holder | 1 pc |
| Vice | 1 pc |
| Cylinder holder | 1 pc |
| Level | 1 pc |
| Anti-dust cover | 1 pc |

OPTIONAL ACCESSORY

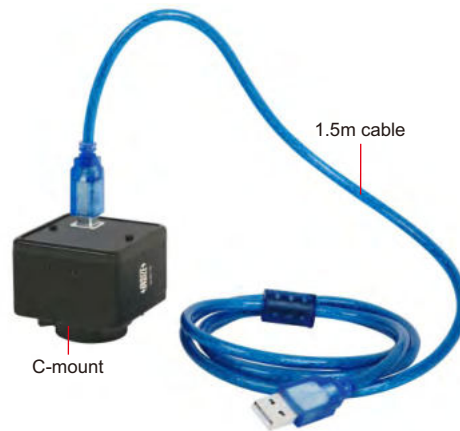
| | |
|----------------------------------|-----------------|
| 20X objective | ISH-TDV-20X |
| Hardness test block 400~500HV0.2 | HDT-B-HV02C |
| Hardness test block 700~750HV1 | HDT-B-HV1F |
| Measuring system | 9631-130 |
| Camera adapter | ISH-TDV-ADAPTER |

** Add "-B" on code No. when power supply is 110/220V, 60Hz

VICKERS HARDNESS MEASURING SYSTEM CODE 9631-130



software CD
(included)

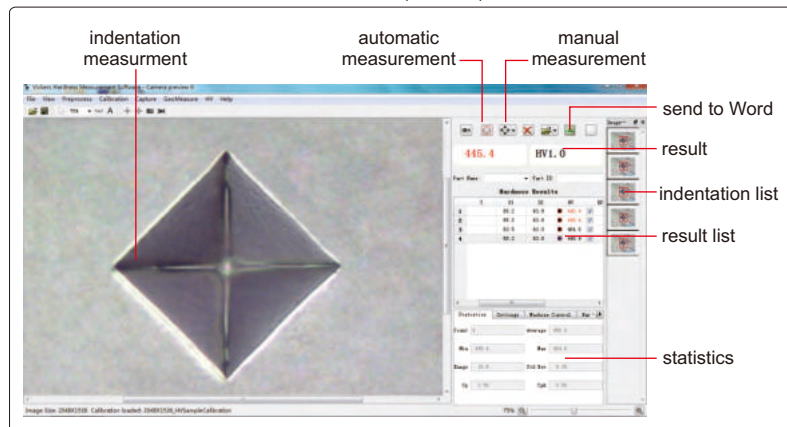


application example



- Connected to computer USB port
- Measure the indentation sizes automatically or manually
- Multiple measurements to have average value, max. value and min. value
- Tolerance testing
- Convert to HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15T/30T/45T, HR15N/30N/45N, HK, HV, HB, HS, HSD
- Calibration with standard test block
- Measurement result can be sent to Word or Excel

software (included)



SPECIFICATION

| | |
|---------------------------------|--|
| Sensor | 1/2" CMOS |
| Pixel | 1.3M (resolution 1280×1024) |
| Hardness measurement resolution | 0.1HV |
| Length measurement resolution | 0.1µm |
| Hardness measurement accuracy | ±3% |
| Test force | 0.01, 0.025, 0.05, 0.1, 0.2, 0.3, 0.5, 1, 2, 2.5, 3, 5, 10, 20, 30, 50, 100kgf |
| Dimension | 57×51×49mm |
| Weight | 200g |

STANDARD DELIVERY

| | |
|------------------------|------|
| Main unit | 1 pc |
| USB dongle | 1 pc |
| Software and USB cable | 1 pc |