BRINELL HARDNESS TESTERS

7005 BHT-UP

7005 BHT-P

7005 BHT-E

DESCRIPTION

Vaiseshika Brinell Testing Machines are highly reliable, accurate and durable hardness testing machines. These machines are used for determining the hardness of ferrous and non-ferrous metals with high reliability and accuracy. Vaiseshika Brinell Testers are available in three models i.e. Ultra Precision, Precision and Electronic.

FEATURES : 7005 BHT-UP

- It is an automatic and intelligent Brinell Testing Machine, it adopts the pressure sensor to replace the traditional quality weight. This innovative design makes the instrument more accurate.
- Selection of testing force and dwell time is controlled and monitored on the front panel. It is automatic during the process of loading, dwell and unloading.
- It adopts Digital Brinell Microscopes with adjustable LED illuminator. It doesn't need the operator to read the detail length of indentation. It only needs the operator to aim the D1, D2 diameter of indentation and press the length key twice on the testing anvil, then the built-in computer can compute the Brinell scale and display the final testing result on LCD display automatically.
- It supports the hardness conversion. It can use Brinell scale to get conversion scale of HRC, HRB, HV, etc.
- It doesn't need the operator to read the detail diameter of indentation and check the Brinell testing table. It improves the speed and accuracy of hardness testing obviously.

DIGITAL BRINELL HARDNESS TESTER

SPECIFICATION : 7005 BHT-UP

ULTRA PRECISION MODEL

Testing Force	612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N
	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf
Testing Range	(8 ~ 650) HBW
Max. Height of Specimen	225mm
Instrument Throat	135mm
Magnification of Microscope	20x Digital Microscope
Power Supply	AC220V / 50Hz; 110V / 60Hz
Dimensions (L x W x H)	893x720x470mm
Gross / Net Weight	160kg / 130 kg
Accuracy	Conform to GB/T230.2; ASTM E-18; ISO6508

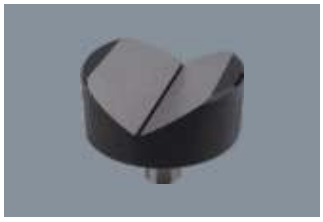
20x Digital Microscope

Ball Indenter

ACCURACY OF BRINELL HARDNESS TESTING :

Hardness Range	Max. tolerance	Repetition
HBW ≤ 125	± 3%	≤ 3.5%
125 < HBW ≤ 225	± 2.5%	≤ 3.0%
HBW > 125	± 2.0%	≤ 2.5%

Hardness Blocks



V-shaped Anvil

Ø200mm Flat Anvil

STANDARD EQUIPMENT	OPTIONAL ACCESSORIES
Main unit	Hardness Block HBW /750/05 (75-150) : **BD-110**
20X Digital Microscope	Ø60mm Flat Anvil : **BD-120**
Hardness Block HBW / 3000/10 (150-250)	Ø80mm V-shaped Anvil : **BD-130**
Ø200mm Flat Anvil	Ø100mm Flat Anvil : **BD-140**
Ø2.5mm Ball Indenter	Ø5mm Ball Indenter : **BD-150**
Accessories Box	Ø10mm Ball Indenter : **BD-160**
Mini Printer : **BD-100 (Optional)**	RS 232 Cable : **BD-170**

DIGITAL BRINELL HARDNESS TESTER

PRECISION MODEL

FEATURES : 7005 BHT-P

- 7005 BHT-P is a automatic and intelligent Brinell Testing Machine. It adopts the pressure sensor to replace the traditional quality weight. This innovative design makes the instrument more accurate.
- Selection of testing force and dwell time is controlled and monitored on the front panel. It is automatic during the process of loading, dwell and unloading.
- Adopts Digital Brinell Microscope with adjustable LED illuminator. It doesn't need the operator to read the detail length of indentation, it only needs the operator to aim the D1, D2 diameter of indentation and press the length key twice, then the built-in computer will compute the Brinell scale and display the final testing result on LCD display automatically.
- Doesn't need the operator to read the detail diameter of indentation and check the Brinell testing table, it improves the speed and accuracy of hardness testing obviously.

SPECIFICATION : 7005 BHT-P

Testing Force	612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N
	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf
Testing Range	(8 ~ 650) HBW
Max. Height of Specimen	225mm
Instrument Throat	135mm
Magnification of Microscope	15x Digital Microscope
Power Supply	AC220V / 50Hz; 110V / 60Hz
Dimensions (L x W x H)	893x720x470mm
Gross / Net Weight	160kg / 130 kg
Accuracy	Conform to GB/T230.2; ASTM E-18; ISO6508

LCD Screen

15x Digital Microscope

Ball Indenter

ACCURACY OF BRINELL HARDNESS TESTING :

Hardness Range	Max. tolerance	Repetition
HBW ≤ 125	± 3%	≤ 3.5%
125 < HBW ≤ 225	± 2.5%	≤ 3.0%
HBW > 125	± 2.0%	≤ 2.5%

STANDARD EQUIPMENT	OPTIONAL ACCESSORIES
Main unit	Hardness Block HBW /750/05 (75-150) : **BD-110**
15X Digital Microscope	Ø60mm Flat Anvil : **BD-120**
Hardness Block HBW / 3000/10 (150-250)	Ø80mm V-shaped Anvil : **BD-130**
Ø200mm Flat Anvil	Ø100mm Flat Anvil : **BD-140**
Ø2.5mm Ball Indenter	Ø5mm Ball Indenter : **BD-150**
Accessories Box	Ø10mm Ball Indenter : **BD-160**
Power Cable	RS 232 Cable : **BD-170**

ELECTRONIC BRINELL HARDNESS TESTER

FEATURES : 7005 BHT-E

- 7005 BHT-E adopts the pressure sensor to replace the traditional quality weight. This innovative design makes the instrument more accurate.
- Selection of testing force and dwell time is controlled and monitored on the front panel. It is automatic during the process of loading, dwell and unloading.
- Uses 20x Brinell measuring microscope to measure the diameter of indentation, then the operator traces the Brinell hardness table to get the testing result.

SPECIFICATION : 7005 BHT-E

Testing Force	612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N
	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf
Testing Range	(8 ~ 650) HBW
Max. Height of Specimen	225mm
Instrument Throat	135mm
Magnification of Microscope	20x Optical Microscope
Power Supply	AC220V / 50Hz; 110V / 60Hz
Dimensions (L x W x H)	893x720x470mm
Gross / Net Weight	160kg / 130 kg
Accuracy	Conform to GB/T230.2; ASTM E-18; ISO6508

Display Panel

20X Optical Microscope

Ball Indenter

ACCURACY OF BRINELL HARDNESS TESTING :

Hardness Range	Max. tolerance	Repetition
HBW ≤ 125	± 3%	≤ 3.5%
125 < HBW ≤ 225	± 2.5%	≤ 3.0%
HBW > 125	± 2.0%	≤ 2.5%

STANDARD EQUIPMENT	OPTIONAL ACCESSORIES
Main unit	Hardness Block HBW /750/05 (75-150) : **BD-110**
20X Optical Microscope	Ø60mm Flat Anvil : **BD-120**
Hardness Block HBW / 3000/10 (150-250)	Ø80mm V-shaped Anvil : **BD-130**
Ø200mm Flat Anvil	Ø5mm Ball Indenter : **BD-150**
Ø2.5mm Ball Indenter	Ø10mm Ball Indenter : **BD-160**
Accessories Box	
Power Cable	