



Electronic Brinell Hardness Tester

SHB-3000E

Applications:

SHB-3000E is an affordable electronic Brinell testing machine with high accuracy, reliability and durability, it is applied at the workshops and measurement departments for determining the Brinell hardness of the material of ferrous and non-ferrous metals.

Characteristic:

- SHB-3000E adopts the pressure sensor to replace the traditional weight, this innovative design makes the instrument more accurate.
- SHB-3000E 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.
- SHB-3000E uses 20x Brinell measuring microscope to measure the diameter of indentation, then the operator traces the Brinell hardness table to get the testing result.



20x Mechanic Microscope (831-211)



SHB-3000E(#831-111)

Specifications:

Product Name	Electronic Brinell Hardness Tester	
Model	SHB-3000E	
Code#	831-111	
Testing Force	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf 612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N	
Testing Range	(8~650) HBW	
Hardness Display	Check the Table of Brinell Hardness Scale	
Magnification of Microscope	20x Mechanic Microscope	
Max. Height Of Specimen	225mm	
Instrument Throat	135mm	
Power Supply	AC220V/50Hz;110V/60Hz	
Dimension(LxWxH)	893 x720 x747mm	
Gross/Net Weight	160Kg/130Kg	
Execution Standard	GB/T231.2, JIG150, EN-ISO 6506	
Accuracy of Brinell Hardness Testing		
Hardness Range	Max. Tolerance	Repetition
HBW ≤ 125	≤ ± 3.5%	≤ 3.5%
125 < HBW ≤ 225	≤ ± 2.5%	≤ 3.0%
HBW > 225	≤ ± 2.0%	≤ 2.5%

Standard Delivery:

Standard Delivery	Code#
Instrument Main Body	831-111
20x Mechanic Microscope	831-211
Hardness Block HBW/3000/10	831-601
Hardness Block HBW/750/05	831-611
Ø10mm Ball Indenter	831-411
Ø5mm Ball Indenter	831-421
Ø2.5mm Ball Indenter	831-431
Ø 200mm Flat Anvil	831-551
Ø 60mm Flat Anvil	831-501
Ø 55mm V-shape Anvil	831-521
Power Cable	831-801
Accessories Box	831-901
Anti-dust Cover	831-911
Level Screw	831-931
Instrument Manual	SHB-3000E

Digital Brinell Hardness Tester SHB-3000D

Characteristic:

- SHB-3000D is a half automatic and intelligent Brinell hardness testing machine, it adopts the pressure sensor to replace the traditional quality weight, this innovative design makes the instrument more accurate.
- SHB-3000D 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.
- SHB-3000D adopts digital Brinell microscopes with adjustable LED illuminator, it doesn't need the operator to read the detail length of indentation, it only needs operator to aim the D1, D2 diameter of indentation and press the length key twice above the Microscope, then the built-in computer can compute the Brinell scale and display the final testing result on LCD display automatically.
- SHB-3000D doesn't need the operator to read the detail diameter of indentation and check the Brinell testing table, it improves the testing speed and accuracy of hardness testing obviously.



20x Digital Microscope
(831-221)



SHB-3000D(#831-121)

Specifications:

Product Name	Digital Brinell Hardness Tester	
Model	SHB-3000D	
Code#	831-121	
Testing Force	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf 612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N	
Testing Range	(8~650) HBW	
Hardness Display	LCD Display	
Magnification of Microscope	20x Digital Microscope	
Max. Height Of Specimen	225mm	
Instrument Throat	135mm	
Power Supply	AC220V/50Hz;110V/60Hz	
Dimension(LxWxH)	893 x720 x747mm	
Gross/Net Weight	160Kg/130Kg	
Execution Standard	GB/T231.2, JJG150, EN-ISO 6506	
Accuracy of Brinell Hardness Testing		
Hardness Range	Max. Tolerance	Repetition
HBW ≤ 125	≤ ± 3.5%	≤ 3.5%
125 < HBW ≤ 225	≤ ± 2.5%	≤ 3.0%
HBW > 225	≤ ± 2.0%	≤ 2.5%

Standard Delivery:

Standard Delivery	Code#
Instrument Main Body	831-121
20x Digital Microscope	831-221
Hardness Block HBW/3000/10	831-601
Hardness Block HBW/750/05	831-611
Ø10mm Ball Indenter	831-411
Ø5mm Ball Indenter	831-421
Ø2.5mm Ball Indenter	831-431
Ø 200mm Flat Anvil	831-551
Ø 60mm Flat Anvil	831-501
Ø 55mm V-shape Anvil	831-521
Power Cable	831-801
Accessories Box	831-901
Anti-dust Cover	831-911
Level Screw	831-931
Instrument Manual	SHB-3000D



Digital Brinell Hardness Tester

SHB-3000C

Characteristic:

- SHB-3000C is a half automatic and intelligent Brinell hardness testing machine, it adopts the pressure sensor to replace the traditional quality weight, this innovative design makes the instrument more accurate.
- SHB-3000C 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.
- SHB-3000C adopts digital Brinell microscopes with adjustable LED illuminator, it doesn't need the operator to read the detail length of indentation, it only needs operator to aim the D1, D2 diameter of indentation and press the length key twice above the Microscope, then the built-in computer can computer the Brinell scale and display the final testing result on LCD display automatically.
- SHB-3000C supports the hardness conversion , it can use Brinell scale to get conversion scale of HRC, HRB, HRC, HV, etc.
- SHB-3000C doesn't need the operator to read the detail diameter of indentation and check the Brinell testing table, it improves the testing speed and accuracy of hardness testing obviously.

Specifications:

Product Name	Digital Brinell Hardness Tester	
Model	SHB-3000C	
Code#	831-131	
Testing Force	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf 612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N	
Testing Range	(8~650) HBW	
Hardness Display	LCD Display	
Magnification of Microscope	20x Mechanic Microscope	
Max. Height Of Specimen	225mm	
Instrument Throat	135mm	
Output Data	RS 232/Printer	
Auto Hardness Conversion	HR, HV, HK, etc	
Power Supply	AC220V/50Hz;110V/60Hz	
Dimension(LxWxH)	893 x720 x747mm	
Gross/Net Weight	160Kg/130Kg	
Execution Standard	GB/T231.2, JJG150, EN-ISO 6506	
Accuracy of Brinell Hardness Testing		
Hardness Range	Max. Tolerance	Repetition
HBW ≤ 125	≤ ± 3.5%	≤ 3.5%
125 < HBW ≤ 225	≤ ± 2.5%	≤ 3.0%
HBW > 225	≤ ± 2.0%	≤ 2.5%



SHB-3000C(#831-131)

Standard Delivery:

Standard Delivery	Code#
Instrument Main Body	831-131
20x Digital Microscope	831-231
Hardness Block HBW/3000/10	831-601
Hardness Block HBW/750/05	831-611
Ø10mm Ball Indenter	831-411
Ø5mm Ball Indenter	831-421
Ø2.5mm Ball Indenter	831-431
Ø 200mm Flat Anvil	831-551
Ø 60mm Flat Anvil	831-501
Ø 55mm V-shape Anvil	831-521
Power Cable	831-801
Accessories Box	831-901
Anti-dust Cover	831-911
Mini-Printer	831-831
Instrument Manual	SHB-3000C