

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

Economical Manual Micro Vickers Hardness Tester

HV-1000

Characteristic:

- HV-1000 is a precision micro Vickers hardness testing machine integrated the technology of optics, mechanics and computer.
- HV-1000 equipped with LCD screen , the operation is more directly and clearly.



Flat Precision Clamp
(#823-711)



Thin-piece Clamp
(#823-751)



Filament Clamp
(#823-761)



HV-1000(#823-101)

Specifications:

Product Name		Manual-Turret Micro Vickers Hardness Tester	
Model		HV-1000	
Code#		823-101	
Testing Force	gf	10、25、50、100、200、300、500、1000	
	N	0.098、0.246、0.49、0.98、1.96、2.94、4.90、9.80	
Indentation Measurement		Mechanic Micrometer	
Loading Control		Automatic (Loading, Dwell, Unloading)	
Magnification of Microscope		Observation:10x; Measurement:40x	
Magnification on of Eyepiece		10x Eyepiece	
Dwell Time		Adjustable 5~60s	
Testing Range		1HV~2967HV	
X-Y Anvil		Size:100x100mm; Travel:25 x25mm; Resolution:2um	
Illumination		Adjustable LED light-source(Halogen is optional)	
Max. Height of Specimen		70mm	
Instrument Throat		95mm	
Power Supply		AC220V/50Hz;110V/60Hz	
Dimension(LxWxH)		425 x245 x490mm	
Packing Dimension		500 x 490 x 700mm	
Gross/Net Weight		45Kg/35Kg	
Execution Standard		GB/T4340.2, EN-ISO6507, ASTM E10-18, ASTM E-384	

Standard Delivery:

Standard Delivery	Code#
Vickers Indenter	823-401
Vickers Hardness Block HV0.5	823-611
Vickers Hardness Block HV1	823-621
10x Eyepiece	823-341
Objectives 40x	823-331
Objectives 10x	823-311
X-Y Anvil	823-701
Power Cable	823-801
Accessories Box	823-901
Anti-dust Cover	823-911
Level Screw	823-931
Instrument Manual	HV-1000



Economical Digital Micro Vickers Hardness Tester

HVS-1000 series

Characteristic:

- HVS-1000 is a precision micro Vickers hardness testing machine integrated the technology of optics, mechanics and computer.
- HVS-1000 equipped with LCD screen , the operation is more directly and clearly.



LCD Display (#832-821)



HV-1000D(#823-111)
HVS-1000(#823-121)
HVS-1000Z(#823-131)

Specifications:

Product Name	Manual-Turret Micro Vickers Hardness Tester		Auto-Turret Micro Vickers Hardness Tester
Model	HV-1000D	HVS-1000	HVS-1000Z
Code#	823-111	823-121	823-131
Testing Force	gf	10、25、50、100、200、300、500、1000	
	N	0.098、0.246、0.49、0.98、1.96、2.94、4.90、9.80	
Indentation Measurement	Digital Sensor Measurement		
Loading Control	Automatic (Loading, Dwell, Unloading)		
Output Data	Without	RS232/Mini-Printer	
Magnification of Microscope	Observation:10x; Measurement:40x		
Magnification on of Eyepiece	10x Digital Eyepiece		
Dwell Time	Adjustable 5~60s		
Testing Range	1HV~2967HV		
X-Y Anvil	Size:100x100mm; Travel:25 x25mm; Resolution:2um		
Illumination	Adjustable LED light-source(Halogen is optional)		
Max. Height of Specimen	70mm		
Instrument Throat	95mm		
Power Supply	AC220V/50Hz;110V/60Hz		
Dimension(LxWxH)	425 x245 x490mm		
Packing Dimension	500 x490 x700mm		
Gross/Net Weight	45Kg/35Kg		
Execution Standard	GB/T4340.2, EN-ISO6507, ASTM E10-18, ASTM E-384		

Standard Delivery:

Standard Delivery	Code#
Vickers Indenter	823-401
Vickers Hardness Block HV 0.5	823-611
Vickers Hardness Block HV 1	823-621
10x Digital Eyepiece	823-341
Objectives 40x	823-331
Objectives 10x	823-311
X-Y Anvil	823-701
Mini-Printer	823-831
Power Cable	823-801
Accessories Box	823-901
Anti-dust Cover	823-911
Level Screw	823-931
Instrument Manual	HV-1000D/HVS-1000

Practical Micro Vickers Hardness Tester

SMHV-1000 series

Characteristic:

- SMHV-1000 series is a precision micro Vickers hardness testing machine integrated the technology of optics, mechanics and computer.
- SMHV-1000 series equipped with a large LCD screen, the operation is more directly and clearly.
- SMHV-1000 series can display the measuring methods, testing force, indentation length, hardness value, dwell time of the testing force as well as the number of measurement.
- SMHV-1000 series can save and revise the date, record the measuring results, compute the data, outputting the information with the printer.
- SMHV-1000 series hardness conversion among 17 hardness scales, and linking to PC in RS232 interface and cable.

Specifications:

Product Name	Manual-Turret Micro Vickers Hardness Tester	Auto-Turret Micro Vickers Hardness Tester
Model	SMHV-1000	SMHV-1000A
Code#	823-151	823-161
Testing Force	gf	10, 25, 50, 100, 200, 300, 500, 1000
	N	0.098, 0.246, 0.49, 0.98, 1.96, 2.94, 4.90, 9.80
Indentation Measurement	Digital Sensor Measurement	
Loading Control	Automatic (Loading, Dwell, Unloading)	
Output Data	RS232/Mini-Printer	
Magnification of Microscope	Observation:10x; Measurement:40x	
Magnification on of Eyepiece	10x Digital Eyepiece	
Dwell Time	Adjustable 5-60s	
Testing Range	1HV-2967HV	
Auto Hardness Conversion	HRA, HRB, HRC, HV, HK, HBW, etc	
X-Y Anvil	Size:100x100mm; Travel:25 x25mm; Resolution:2um	
Illumination	Halogen Light- source (LED is optional)	
Max. Height of Specimen	70mm	
Instrument Throat	95mm	
Power Supply	AC220V/50Hz;110V/60Hz	
Dimension(LxWxH)	425 x245 x490mm	
Packing Dimension	530 x490 x700mm	
Gross/Net Weight	50Kg/40Kg	
Execution Standard	GB/T4340.2, EN-ISO6507, ASTM E10-18, ASTM E-384	



SMHV-1000(#823-151)
SMHV-1000A(#823-161)

Standard Delivery:

Standard Delivery	Code#
Vickers Indenter	823-401
Vickers Hardness Block HV 0.5	823-611
Vickers Hardness Block HV 1	823-621
10x Digital Eyepiece	823-341
Objectives 40x	823-331
Objectives 10x	823-311
X-Y anvil	823-701
Mini-Printer	823-831
Power Cable	823-801
Accessories Box	823-901
Anti-dust Cover	823-911
Level Screw	823-931
Instrument Manual	SMHV-1000/1000A



2Kg Micro Vickers Hardness Tester

SMHV-2000 series

Characteristic:

- SMHV-2000 series is a precision micro Vickers hardness testing machine integrated the technology of optics, mechanics and computer.
- SMHV-2000 series equipped with a large LCD screen, the operation is more directly and clearly.
- SMHV-2000 series can display the measuring methods, testing force, indentation length, hardness value, dwell time of the testing force as well as the number of measurement.
- SMHV-2000 series can save and revise the date, record the measuring results, compute the data, outputting the information with the printer.
- SMHV-2000 series hardness conversion among 17 hardness scales, and linking to PC in RS 232 interface and cable.

Specifications:

Product Name	Manual-Turret Micro Vickers Hardness Tester	Auto-Turret Micro Vickers Hardness Tester
Model	SMHV-2000	SMHV-2000A
Code#	823-251	823-261
Testing Force	gf	10、25、50、100、200、300、500、1000、2000
	N	0.098、0.246、0.49、0.98、1.96、2.94、4.9、9.8、19.6
Indentation Measurement	Digital Sensor Measurement	
Loading Control	Automatic (Loading, Dwell, Unloading)	
Output Data	RS232/Mini-Printer	
Magnification of Microscope	Observation:10x; Measurement:40x	
Magnification on of Eyepiece	10x Digital Eyepiece	
Dwell Time	Adjustable 5~60s	
Testing Range	1HV~2967HV	
Auto Hardness Conversion	HRA, HRB, HRC, HV, HK, HBW, etc	
X-Y Anvil	Size:100x100mm; Travel:25 x25mm; Resolution:2um	
Illumination	Halogen Light- source (LED is optional)	
Max. Height of Specimen	70mm	
Instrument Throat	95mm	
Power Supply	AC220V/50Hz;110V/60Hz	
Dimension(LxWxH)	425 x245 x490mm	
Packing Dimension	530 x490 x700mm	
Gross/Net Weight	50Kg/40Kg	
Execution Standard	GB/T4340.2, EN-ISO6507, ASTM E10-18, ASTM E-384	



SMHV-2000(#823-251)
SMHV-2000A(#823-261)

Standard Delivery:

Standard Delivery	Code#
Vickers Indenter	823-401
Vickers Hardness Block HV0.5	823-611
Vickers Hardness Block HV1	823-621
10x Digital Eyepiece	823-341
Objectives 40x	823-331
Objectives 10x	823-311
X-Y Anvil	823-701
Mini-Printer	823-831
Power Cable	823-801
Accessories Box	823-901
Anti-dust Cover	823-911
Level Screw	823-931
Instrument Manual	SMHV-2000/2000A

Practical Micro Vickers Hardness Tester

SXHV-1000TA

Characteristic:

- SXHV-1000TA is a precision micro Vickers hardness testing machine integrated the technology of optics, mechanics and computer.
- SXHV-1000TA equips with a large LCD touch screen, the operation is more directly and clearly. SXHV-1000TA can display the measuring methods, testing force, indentation length, hardness value, dwell time of the testing force as well as the number of measurement.
- SXHV-1000TA can save and revise the date, record the measuring results, compute the data, outputting the information with the printer,
- SXHV-1000TA hardness conversion among 17 hardness scales, and linking to PC in RS 232 interface and cable.

Specifications:

Product Name		Auto-Turret Micro Vickers Hardness Tester	
Model		SXHV-1000TA	
Code#		823-171	
Testing Force	gf	10、25、50、100、200、300、500、1000	
	N	0.098、0.246、0.49、0.98、1.96、2.94、4.90、9.80	
Indentation Measurement		Digital Sensor Measurement	
Loading Control		Automatic (Loading, Dwell, Unloading)	
Output Data		RS232/Mini-Printer	
Magnification of Microscope		Observation:10x; Measurement:40x	
Magnification on of Eyepiece		10x Digital Eyepiece	
Auto Hardness Conversion		HRA,HRB, HRC , HV, HK, HBW , etc	
Hardness Indication		LCD touch-screen display	
Dwell Time		Adjustable 5~60s	
Testing Range		1HV~2967HV	
X-Y Anvil		Size:100x100mm; Travel:25 x25mm; Resolution:2um	
Illumination		Adjustable LED light-source(Halogen is optional)	
Max. Height of Specimen		70mm	
Instrument Throat		95mm	
Power Supply		AC220V/50Hz;110V/60Hz	
Dimension(LxWxH)		425 x245 x490mm	
Packing Dimension		500 x490 x700mm	
Gross/Net Weight		50Kg/40Kg	
Execution Standard		GB/T4340.2, EN-ISO6507, ASTM E10-18, ASTM E-384	



SXHV-1000TA(#823-171)

Standard Delivery:

Standard Delivery	Code#
Vickers Indenter	823-401
Vickers Hardness Block HV 0.5	823-611
Vickers Hardness Block HV 1	823-621
10x Digital Eyepiece	823-341
Objectives 40x	823-331
Objectives 10x	823-311
X-Y Anvil	823-701
Mini-Printer	823-831
Power Cable	823-801
Accessories Box	823-901
Anti-dust Cover	823-911
Level Screw	823-931
Instrument Manual	SXHV-1000TA