

SMV-402 Digital Micro Vickers Hardness Tester

Feature:

SMV-402 Digital Micro Vickers hardness tester is a high-tech and new product combining the optics, mechanic and electric features. With a novel and pleasing appearance, the internal structure is mainly made by stainless steel parts, has better performance. It can directly show the test mode, test force, indentation length, dwell time, test numbers, conversion scale, date and time on the large screen. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. With the up and down limit alarm function, test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can use optional Knoop indenter to measure Knoop hardness. And it can be equipped with LCD video measuring device and CCD image automatic measuring system.



Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

Application:

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

Technical Specification:

Model	SMV-402	
Test Force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N
test range	1HV~2967HV	
test mode	HV/HK	
loading method	automatic (loading/dwell/unloading)	
shifting objective and indenter	automatic shifting	
conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW	
data output	built-in printer, RS232 interface	
hardness reading	LCD display, data can be saved	
total magnification	objective 10× (observe), 40× (measure), eyepiece 10x, total: 100×, 400×	
resolution	0.015μm	
dwell time	0~95s	
light source	halogen lamp	
X-Y test table	size: 100×100mm; Travel: 25×25mm; resolution: 0.01mm	
max. height of specimen	90mm	
throat	120mm	
power supply	AC220V, 50Hz	
dimension(LWH)	machine: 495×305×550mm, packing : 600×360×800mm	
weight	Net Weight: 35kg, Gross Weight: 44kg	

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	12	10× digital measuring eyepiece	1
2	diamond micro vickers indenter	1	13	10×, 40× objective	2
3	weights	7	14	power cable	1
4	cross test table	1	15	flat clamping test table	1
5	thin specimen test table	1	16	filament clamping test table	1
6	horizontal regulating screw	4	17	level	1
7	fuse 1A	2	18	halogen lamp 12V, 15~20W	1
8	inner hexagon spanner	1	19	screw driver	1
9	plastic absorbing plate	1	20	color filter	1
10	hardness block 400~500 HV0.2	1	21	hardness block 700~800 HV1	1
11	anti-dust cover	1	22	manual	1

SMV-404 Digital Micro Vickers Hardness Tester

Feature:

404SXV Digital Micro Vickers hardness tester is a high-tech and new product combining the optics, mechanic and electric features. With a novel and pleasing appearance, the internal structure is mainly made by stainless steel parts, has better performance. It adopts a new type of automatic turret mechanism, equipped with both Micro Vickers and Knoop indenters. These two indenters adopt the independent alignment device which ensures that Vickers and Knoop indentation are at the same center position. It can directly show the test mode, test force, indentation length, dwell time, test numbers, conversion scale, date and time on the large screen. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. With the up and down limit alarm function, test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can use optional Knoop indenter to measure Knoop hardness. And it can be equipped with LCD video measuring device and CCD image automatic measuring system.

Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

Application:

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

Technical Specification:



Model	SMV-404	
test force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N
test range	1HV~2967HV	
test mode	HV/HK	
loading method	automatic (loading/dwell/unloading)	
shifting objective and indenter	automatic shifting (two indenters, three objectives)	
conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW	
data output	built-in printer, RS232 interface	
hardness reading	LCD display, data can be saved	
magnification	eyepiece 10×, objective 10×, 20× (measure), 40× (measure), total: 100×, 200×, 400×	
resolution	0.03μm, 0.015μm	
dwell time	0~95s	
X-Y test table	size: 100×100mm; travel: 25×25mm; resolution: 0.01mm	
max. height of specimen	90mm	
throat	120mm	
power supply	AC220V, 50Hz, light source: halogen lamp	
dimension(LWH)	machine: 495×305×550mm, packing: 600×360×800mm	
weight	Net Weight: 35kg, Gross Weight: 44kg	

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	13	10× digital measuring eyepiece	1
2	diamond micro vickers indenter	1	14	diamond knoop indenter	1
3	10×, 20×, 40× objective	3	15	weights	7
4	power cable	1	16	cross test table	1
5	thin specimen test table	1	17	flat clamping test table	1
6	filament clamping test table	1	18	level	1
7	horizontal regulating screw	4	19	halogen lamp 12V, 15~20W	1
8	fuse 1A	2	20	screw driver	1
9	inner hexagon spanner	1	21	color filter	1
10	plastic absorbing plate	1	22	hardness block 400~500 HV0.2	1
11	hardness block 700~800 HV1	1	23	hardness block 700~800HK1	1
12	anti-dust cover	1	24	manual	1

SMV-1000/1000Z Digital Micro Vickers Hardness Tester

Feature:

The digital micro vickers hardness tester adopts unique precision design on optics, mechanic and electric features, make the indentation image clearer, and get more precise measurements. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly shows the test mode, test force, indentation length, dwell time, test numbers and conversion scale. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the screen. It can use optional Knoop indenter to measure Knoop hardness. And it can be equipped with LCD video measuring device and CCD image automatic measuring system.

Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

Application:

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.



Technical Specification:

Model		SMV-1000	SMV-1000Z
test force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf	
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N	
test range		1HV~2967HV	
loading method		automatic (loading/dwell/unloading)	
turret between objective and indenter		manual	automatic
conversion scale		HK, HRA, HRB, HRC, HRD, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HBW	
objective		10× (view), 40× (measure)	
eyepiece		10 ^x	
total magnification		100 ^x , 400 ^x	
resolution		0.0625μm	
dwell time		0~60s	
light source		halogen lamp	
x-y test table		size: 100×100mm; travel: 25×25mm; resolution: 0.01mm	
max. height of specimen		100mm	
throat		98mm	
power supply		AC220V, 50Hz	
dimension (LWH)mm		Machine size 480×325×545mm, packing size: 600×360×800mm	
weight		Net Weight: 31kg, Gross Weight: 44kg	

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	10×digital measuring eyepiece	1
2	diamond micro vickers indenter	1	12	10×, 40× objective	2
3	weights	6	13	weight axis	1
4	cross test table	1	14	flat clamping test table	1
5	thin specimen test table	1	15	filament clamping test table	1
6	horizontal regulating screw	4	16	level	1
7	fuse 1A	2	17	halogen lamp 12V、15~20W	1
8	power cable	1	18	screw driver	2
9	hardness block 400~500 HV0.2	1	19	hardness block 700~800 HV1	1
10	anti-dust cover	1	20	manual	1

LCD Video Measuring Device


Feature:

LCD Video Measuring Device is to add a monitor on the main body of the Brinell and Micro/Vickers hardness tester. It is composed of video measuring device, 8 inch colored LCD monitor and other relative components. With this device, the indentation can be directly showed on the monitor. The working procedure is more visual and the measurement is more accurate. It avoids the visual fatigue and man-made error, and increases the working efficiency. All the people can observe the indentation at the same time. It is warmly welcomed by the users.

Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

Application: Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

Video measuring device standard

No.	Name	Q'ty
1	main body (micro hardness tester)	1
2	8 inch colore lcd monitor	1
3	video measuring device(CCD)	1
4	video connection cable	1
5	usage instruction manual	1

Technical Specification:

Model		SMV-1000+LCD
test force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N
test range		1HV~2967HV
loading method		automatic (loading/dwell/unloading)
turret between objective and indenter		manual
conversion scale		HK, HRA, HRB, HRC, HRD, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HBW
objective		10× (view), 40× (measure)
eyepiece		10×
total magnification		100× ,400×
resolution		0.0625μm
dwell time		0~60s
light source		halogen lamp
x-y test table		size: 100×100mm; travel: 25×25mm; resolution: 0.01mm
max. height of specimen		100mm
throat		98mm
power supply		AC220V, 50Hz
dimension (LWH)mm		Machine size 480×325×545mm, packing size: 600×360×800mm
weight		Net Weight: 31kg, Gross Weight: 44kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	10×digital measuring eyepiece	1
2	diamond micro vickers indenter	1	12	10×, 40× objective	2
3	weights	6	13	weight axis	1
4	cross test table	1	14	flat clamping test table	1
5	thin specimen test table	1	15	filament clamping test table	1
6	horizontal regulating screw	4	16	level	1
7	fuse 1A	2	17	halogen lamp 12V、15~20W	1
8	power cable	1	18	screw driver	2
9	hardness block 400~500 HV0.2	1	19	hardness block 700~800 HV1	1
10	anti-dust cover	1	20	manual	1

SMV-1000M/1000MZ Digital Micro Vickers Hardness Tester

Feature:

The digital micro vickers hardness tester adopts unique precision design of optics, mechanic and electric features, make the indentation image clearer, and get more precise measurements. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly shows the test mode, test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the large screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can use optional Knoop indenter to measure Knoop hardness and be equipped with 2kg test force. Also it can be equipped with LCD video measuring device and CCD image automatic measuring system.



Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

Application: Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

Technical Specification:

Model		SMV-1000M	SMV-1000MZ
test force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf (optional 2kgf)	
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N (optional 19.6N)	
test range		1HV~2967HV	
test mode		HV/HK	
loading method		automatic (loading/dwell/unloading)	
shifting between objective and indenter		manual	automatic
conversion scale		HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HB	
data output		built-in printer, RS232 interface	
hardness reading		LCD display, data can be saved	
objective		10× (Observe), 40× (Measure)	
eyepiece		10×	
total magnification		100× , 400×	
resolution		0.0625μm	
dwell time		0~60s	
light source		halogen lamp	
X-Y test table		size: 100×100mm; travel: 25×25mm; resolution: 0.01mm	
max. height of specimen		100mm	
throat		98mm	
power supply		AC220V, 50Hz	
dimension		Machine size 480×325×545mm, Packing size: 600×360×800mm	
weight		Net Weight: 31kg, Gross Weight: 44kg	

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	10× digital measuring eyepiece	1
2	diamond micro vickers indenter	1	12	10×, 40× objective	2
3	weights	6	13	weight axis	1
4	cross test table	1	14	flat clamping test table	1
5	thin specimen test table	1	15	filament clamping test table	1
6	horizontal regulating screw	4	16	level	1
7	fuse 1A	2	17	halogen lamp 12V, 15~20W	1
8	power cable	1	18	screw driver	2
9	hardness block 400~500 HV0.2	1	19	hardness block 700~800 HV1	1
10	anti-dust cover	1	20	manual	1

SMV-2000M/2000MZ Digital Micro Vickers Hardness Tester

Feature:

The digital micro vickers hardness tester adopts unique precision design of optics, mechanic and electric features, make the indentation image clearer, and get more precise measurements. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly shows the test mode, test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the large screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can use optional Knoop indenter to measure Knoop hardness and be equipped with 2kg test force. Also it can be equipped with LCD video measuring device and CCD image automatic measuring system.



Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

Application: Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

Technical Specification:

Model		SMV-2000M	SMV-2000MZ
test force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf, 2000gf	
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N, 19.6N	
test range		1HV~2967HV	
test mode		HV/HK	
loading method		automatic (loading/dwell/unloading)	
shifting between objective and indenter		manual	automatic
conversion scale		HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HB	
data output		built-in printer, RS232 interface	
hardness reading		LCD display, data can be saved	
objective		10× (Observe), 40× (Measure)	
eyepiece		10×	
total magnification		100×, 400×	
resolution		0.0625μm	
dwell time		0~60s	
light source		halogen lamp	
X-Y test table		size: 100×100mm; travel: 25×25mm; resolution: 0.01mm	
max. height of specimen		100mm	
throat		98mm	
power supply		AC220V, 50Hz	
dimension		Machine size 480×325×545mm, Packing size: 600×360×800mm	
weight		Net Weight: 31kg, Gross Weight: 44kg	

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	10× digital measuring eyepiece	1
2	diamond micro vickers indenter	1	12	10×, 40× objective	2
3	weights	6	13	weight axis	1
4	cross test table	1	14	flat clamping test table	1
5	thin specimen test table	1	15	filament clamping test table	1
6	horizontal regulating screw	4	16	level	1
7	fuse 1A	2	17	halogen lamp 12V, 15~20W	1
8	power cable	1	18	screw driver	2
9	hardness block 400~500 HV0.2	1	19	hardness block 700~800 HV1	1
10	anti-dust cover	1	20	manual	1

SMV-1000S / 1000SZ Digital Micro Vickers Hardness Tester

Feature:

The digital micro vickers hardness tester adopts unique precision design of optics, mechanic and electric features, make the indentation image clearer, and get more precise measurements. with digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly shows the test mode, test force, indentation length, dwell time, test numbers and conversion scale. as long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the screen. test results can be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can use optional Knoop indenter to measure Knoop hardness. And it can be equipped with LCD video measuring device and CCD image automatic measuring system.



Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

Application:

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

Technical Specification:

Model		SMV-1000S	SMV-1000SZ
test force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf	
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N	
test range		1HV~2967HV	
test mode		HV/HK	
loading method		automatic (loading/dwell/unloading)	
shifting between objective and indenter		manual	automatic
conversion scale		HK, HRA, HRB, HRC, HRD, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HBW	
data output		built-in printer, RS232 interface	
objective		10× (observe), 40× (measure)	
eyepiece		10×	
total magnification		100× , 400×	
resolution		0.0625μm	
dwell time		0~60s	
light source		halogen lamp	
X-Y test table		size: 100×100mm; travel: 25×25mm; resolution: 0.01mm	
max. height of specimen		100mm	
throat		98mm	
power supply		AC220V, 50Hz	
dimension(LWG)mm		Machine size 480×325×545mm, packing size: 600×360×800mm	
weight		Net Weight: 31kg, Gross Weight: 44kg	

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	10×digital measuring eyepiece	1
2	diamond micro vickers indenter	1	12	10×, 40× objective	2
3	weights	6	13	weight axis	1
4	cross test table	1	14	flat clamping test table	1
5	thin specimen test table	1	15	filament clamping test table	1
6	horizontal regulating screw	4	16	level	1
7	fuse 1A	2	17	halogen lamp 12V,15~20W	1
8	power cable	1	18	screw driver	2
9	hardness block 400~500 HV0.2	1	19	hardness block 700~800 HV1	1
10	anti-dust cover	1	20	usage instruction manual	1

SMV-1000X Digital Micro Vickers Hardness Tester

Feature:

The digital micro vickers hardness tester adopts unique precision design of optics, mechanic and electric features, make the indentation image clearer, and get more precise measurements. It adopts colored touch screen, which displays intuitively and operates easily. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly shows the test mode, test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the large screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can use optional Knoop indenter to measure Knoop hardness. And it can be equipped with LCD video measuring device and CCD image automatic measuring system.



Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

Application:

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

Technical Specification:

Model		SMV-1000X
test force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N
test range		1HV~2967HV
test mode		HV/HK
loading method		automatic (loading/dwell/unloading)
shifting between objective and indenter		automatic
conversion scale		HK, HRA, HRB, HRC, HRD, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HBW
data output		built-in printer, RS232 interface
value reading		touch screen display, data can be saved
objective		10× (observe), 40× (measure)
eyepiece		10×
total magnification		100×, 400×
resolution		0.0625μm
dwell time		0~60s
light source		halogen lamp
X-Y test table		size: 100×100mm; travel: 25×25mm; resolution: 0.01mm
max. height of specimen		100mm
throat		98mm
power supply		AC220V, 50Hz
Dimension(LWH)mm		machine size 480×325×545mm, packing size: 600×360×800mm
weight		Net Weight: 31kg, Gross Weight: 44kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	10×digital measuring eyepiece	1
2	diamond micro vickers indenter	1	12	10×, 40× objective	2
3	weights	6	13	weight axis	1
4	cross test table	1	14	flat clamping test table	1
5	thin specimen test table	1	15	filament clamping test table	1
6	horizontal regulating screw	4	16	level	1
7	fuse 1A	2	17	halogen lamp 12V, 15~20W	1
8	power cable	1	18	screw driver	2
9	hardness block 400~500 HV0.2	1	19	hardness block 700~800 HV1	1
10	anti-dust cover	1	20	manual	1

SHV-500M Digital Vickers Hardness Tester

Feature:

Digital Vickers hardness tester is a high-tech and new product combining the optics, mechanic and electric features. It adopts load cell control system, improves the precision of the test force and the repeatability and stability of the indicating value. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly show the test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can be equipped with LCD video measuring device and CCD image automatic measuring system.



Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

Technical Specification:

Model	SHV-500M	SHV-1000M	SHV-3000M	SHS-5000M
	SHV-500MZ	SHV-1000MZ	SHV-3000MZ	SHV-5000MZ
testing force	1.961N (0.2kg) 2.942N (0.3kg) 4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg)	2.942N (0.3kg) 4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg)	4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg) 196.1N (20kg) 294.2N (30kg)	9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg) 196.1N (20kg) 294.2N (30kg) 490.3N (50kg)
objective	20x, 40x	10x, 40x	10x, 20x	10x, 20x
magnifying	200×/400×	100×/400×	100×/200×	100×/200×
resolution	0.125 μm, 0.0625μm	0.25μm, 0.0625μm	0.25μm, 0.125 μm	0.25μm, 0.125 μm
test table	100×100 cross table: range 25×25/0.01mm		big plane test table and V table	
conversion scale	HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HB			
max. height	170mm			
instrument throat	130mm			
eyepiece	10x digital eyepiece			
testing range	1hv-2967HV			
objective/indenter switch	SHV-M manual switch of objective and indenter SHV-MZ is automatic (auto-turret)			
printer	Built in printer, RS232			
loading control	automatic (loading / dwell / unloading)			
dwell time	5~60s			
power supply	AC220V/50HZ: AC110V/60HZ			
dimension(LWH)	machine size 530×280×630mm, packing 620x450x740mm			
weight	net weight: 35kg, gross weight: 47kg			

Standard accessories:

No.	Name	Qty	No.	Name	Qty	
1	instrument main body	1	13	objective	2	
2	diamond vickers indenter	1	14	cross test table for SHV-500M/MZ, SHV-1000M/MZ	1	
3	10× digital measuring eyepiece	1	15	big plane test table	1	
4	halogen lamp 12V, 15~20W	1	16	V-shaped test table	1	
5	fuse 1A	2	17	SHV-500M/MZ	hardness block 700~800 HV1	1
6	inner hexagon spanner 2.5mm	1	18		hardness block 400~500 HV5	1
7	horizontal regulating screw	4	19	SHV-1000M/MZ	hardness block 700~800 HV1	1
8	screw driver	1	20		hardness block 700~800 HV10	1
9	anti-dust cover	1	21	SHV-3000M/MZ	hardness block 700~800 HV30	1
10	power cable	1	22		hardness block 400~500 HV5	1
11	level	1	23	SHV-5000M/MZ	hardness block 700~800 HV30	1
12	manual	1	24		hardness block 400~500 HV5	1

SHVS-500 Digital Vickers Hardness Tester

Feature:

Digital Vickers hardness tester is a high-tech and new product combining the optics, mechanic and electric features. It adopts load cell control system, improves the precision of the test force and the repeatability and stability of the indicating value. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly show the test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. P Type: built-in printer, Z Type: automatic shifting of turret + built-in printer. It can be equipped with LCD video measuring device and CCD image automatic measuring system.

Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2



Technical Specification:

Model	SHVS-500	SHVS-1000	SHVS-3000	SHVS-5000
	SHVS-500P	SHVS-1000P	SHVS-3000P	SHVS-5000P
	SHVS-500Z	SHVS-1000Z	SHVS-3000Z	SHVS-5000Z
testing force	1.961N (0.2kg) 2.942N (0.3kg) 4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg)	2.942N (0.3kg) 4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg)	4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg) 196.1N (20kg) 294.2N (30kg)	9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg) 196.1N (20kg) 294.2N (30kg) 490.3N (50kg)
objective	20x, 40x	10x, 40x	10x, 20x	10x, 20x
magnifying	200×/400×	100×/400×	100×/200×	100×/200×
resolution	0.125 μm, 0.0625μm	0.25 μm, 0.0625μm	0.25 μm, 0.125 μm	0.25 μm, 0.125 μm
test table	100×100 cross table: range 25×25/0.01mm		big plane test table and V table	
max. height	170mm			
instrument throat	130mm			
eyepiece	10x digital eyepiece			
testing range	1hv-2967HV			
objective/indenter switch	SHVS SHVS-P manual switch of objective and indenter SHVS-Z is automatic (auto-turret)			
printer	SHVS-P SHVS-Z with printer, RS232			
loading control	automatic (loading / dwell / unloading)			
dwell time	5~60s			
power supply	AC220V/50HZ; AC110V/60HZ			
dimension(LWH)	machine size 530×280×630mm, packing 620x450x740mm			
weight	net weight: 35kg, gross weight: 47kg			

Standard accessories:

No.	Name	Qty	No.	Name	Qty	
1	instrument main body	1	13	objective	2	
2	diamond vickers indenter	1	14	cross test table for SHVS-500, SHVS-1000	1	
3	10× digital measuring eyepiece	1	15	big plane test table	1	
4	halogen lamp 12V, 15~20W	1	16	V-shaped test table	1	
5	fuse 1A	2	17	SHVS-500	hardness block 700~800 HV1	1
6	inner hexagon spanner 2.5mm	1	18		hardness block 400~500 HV5	1
7	horizontal regulating screw	4	19	SHVS-1000	hardness block 700~800 HV1	1
8	screw driver	1	20		hardness block 700~800 HV10	1
9	anti-dust cover	1	21	SHVS-3000	hardness block 700~800 HV30	1
10	power cable	1	22		hardness block 400~500 HV5	1
11	level	1	23	SHVS-5000	hardness block 700~800 HV30	1
12	manual	1	24		hardness block 400~500 HV5	1

SHVT-500Z Intelligent Vickers Hardness Tester

Feature:

This instrument is a new generation of Vickers hardness tester. It adopts the integrated design of hardness tester and panel computer, all the testing parameters can be selected on the panel computer. With CCD image acquisition system, it can show dynamic indentation image, lock the image and automatically get the Vickers hardness value with high precision and stability, and avoid the human errors. The hardness tester with complete functions reaches the advanced level.

- ◆ It adopts the integrated design of hardness tester and panel computer, with Win7 operating system, it has all functions of computer and can be connected to the output devices such as external screen and printer;
- ◆ With three objectives automatic shifting between objective and indenter;
- ◆ With CCD image acquisition system, it shows the image clearly and gets the hardness value automatically;
- ◆ With the function of hardness scale conversion;
- ◆ It can automatically save the measuring data, generate the hardness-depth curve and save as WORD or EXCEL document;



Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

Technical Specification:

Model	SHVT-500Z	SHVT-1000Z	SHVT-3000Z	SHVT-5000Z
testing force	1.961N (0.2kg) 2.942N (0.3kg) 4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg)	1.961N (0.2kg) 2.942N (0.3kg) 4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg)	2.942N (0.3kg) 4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg) 196.1N (20kg) 294.2N (30kg)	4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg) 196.1N (20kg) 294.2N (30kg) 490.3N (50kg)
optical system	objective 10x 20x, 40x; built in 1.30 M.pixel CCD ;magnifying 100×/200×/400x;			
resolution	0.125 μm, 0.0625μm	0.25μm , 0.0625μm	0.25μm , 0.125 μm	0.25μm , 0.125 μm
test table	100×100 cross table: range 25×25/0.01mm			
conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW			
max. height	170mm			
instrument throat	130mm			
testing range	1hv-2967HV			
objective/indenter	automatic (auto-turret)			
data out	word or excel report with curve chart			
loading control	automatic (loading / dwell / unloading)			
dwell time	5~60s			
power supply	AC220V/50HZ; AC110V/60HZ			
dimension(LWH)	machine size560×335×675mm, Packing: 650×380×960mm			
weight	net weight: 48kg, gross weight: 62kg			

Standard accessories:

No.	Name	Qty	No.	Name	Qty	
1	instrument main body	1	13	objective	3	
2	diamond vickers indenter	1	14	cross test table for SHVT-500Z, SHVT-1000Z	1	
3	CCD	1	15	big plane test table	1	
4	halogen lamp 12V, 15~20W	1	16	V-shaped test table	1	
5	fuse 1A	2	17	SHVT-500Z	hardness block 700~800 HV1	1
6	inner hexagon spanner 2.5mm	1	18		hardness block 400~500 HV5	1
7	horizontal regulating screw	4	19	SHVT-1000Z	hardness block 700~800 HV1	1
8	screw driver	1	20		hardness block 700~800 HV10	1
9	anti-dust cover	1	21	SHVT-3000Z	hardness block 700~800 HV30	1
10	power cable	1	22		hardness block 400~500 HV5	1
11	level	1	23	SHVT-5000Z	hardness block 700~800 HV30	1
12	manual	1	24		hardness block 400~500 HV5	1

SHB-3000D Digital Brinell Hardness Tester

Feature:

SHB-3000D Electronic Brinell hardness tester is a unified product combining the precise mechanical structure and the load cell control system. The instrument adopts the motorized test force application without weights, and uses 0.5‰ accuracy compression sensor to feedback and the CPU control system to automatically compensate the test force lost during the test. The test force and dwell time can be directly set on the touch keyboard with reliable repeatability, precise reading and easy operation. It can be equipped with V1.0 Brinell image automatic measuring system.

Standard: ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2

Application:

Suitable for cast iron, steel products, nonferrous metals and soft alloys etc. Also suitable for some nonmetal materials such as rigid plastics and bakelite etc.



Technical Specification:

Model	SHB-3000D	
Test force	kgf	62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf
	N	612.9N, 980.7N, 1226N, 1839N, 2452N, 4903N, 7355N, 9807N, 14710N, 29420N
Test range	3.18~653HBW	
Hardness reading	check hardness table	
Microscope	20×reading microscope	
Reading resolution	5μm	
Dwell time	0~60s	
Max. Height of Specimen	220mm	
Throat	135mm	
Power supply	AC220V, 50Hz	
Dimension	Machine size 545×235×755mm, packing size: 650×435×1025mm	
Weight	Net Weight: 130kg, Gross Weight: 160kg	

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	8	20× reading microscope	1
2	Φ2.5mm, Φ5mm, Φ10mm Ball Indenter	3	9	large plane test table	1
3	small plane test table	1	10	v-shaped test table	1
4	hardness block 150~250 HBW 10/3000	1	11	hardness block 150~250 HBW 5/750	1
5	fuse 2A	2	12	power cable	1
6	anti-dust cover	1	13	brinell hardness table	1
7	manual	1			

SHB-3000M Digital Brinell Hardness Tester

Feature:

SHB-3000M Digital Brinell hardness tester is a unified product combining the precise mechanical structure and the load cell control system. The instrument adopts the motorized test force application without weights, and uses 0.5% accuracy compression sensor to feedback and the CPU control system to automatically compensate the test force lost during the test. With external digital measuring microscope, no need for checking the table or inputting the diagonal of the indentation, it can directly show the hardness value, test force, dwell time and indentation length. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen, with precise reading and easy operation.

Standard: ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2

Application:

Suitable for cast iron, steel products, nonferrous metals and soft alloys etc. Also suitable for some nonmetal materials such as rigid plastics and bakelite etc.



Technical Specification:

Model	SHB-3000M	
Test force	kgf	62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf
	N	612.9N, 980.7N, 1226N, 1839N, 2452N, 4903N, 7355N, 9807N, 14710N, 29420N
Test range	3.18~653HBW	
Hardness reading	LCD Display	
Microscope	20 ^x digital measuring microscope	
Resolution	1.25 μ m	
Dwell time	0~60s	
Max. Height of specimen	220mm	
Throat	135mm	
Power supply	AC220V, 50Hz	
Dimension	545 \times 235 \times 755mm, packing size: 650 \times 435 \times 1025mm	
Weight	Net Weight: 130kg, Gross Weight: 160kg	

Standard accessories:

NO.	Name	Qty	NO.	Name	Qty
1	instrument main body	1	7	20 ^x digital measuring microscope	1
2	Φ 2.5mm, Φ 5mm, Φ 10mm Ball Indenter	3	8	large plane test table	1
3	small plane test table	1	9	v-shaped test table	1
4	hardness block 150~250 HBW 10/3000	1	10	Hardness Block 150~250 HBW 5/750	1
5	fuse 2A	2	11	Power Cable	1
6	anti-dust cover	1	12	usage instruction manual	1

SHB-3000X Digital Brinell Hardness Tester

Feature:

SHB-3000X Digital Brinell hardness tester is a unified product combining the precise mechanical structure and the load cell control system. The instrument adopts the motorized test force application without weights, and uses 0.5‰ accuracy compression sensor to feedback and the CPU control system to automatically compensate the test force lost during the test. The indentation can be directly measured through the digital measuring eyepiece, and it can intuitively show the test force, indentation length, dwell time, test number, date and time on the large screen. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. According to the client's requirement, it can be equipped with video measuring device and CCD image automatic measuring system.

Standard: ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2

Application:

Suitable for cast iron, steel products, nonferrous metals and soft alloys etc. Also suitable for some nonmetal materials such as rigid plastics and bakelite etc.



Technical Specification:

Model	SHB-3000X	
Test Force	kgf	62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf
	N	612.9N, 980.7N, 1226N, 1839N, 2452N, 4903N, 7355N, 9807N, 14710N, 29420N
Test Range	3.18~653HBW	
Hardness Reading	LCD display	
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N,	
Data Output	built-in printer, RS232 interface	
Microscope	20× digital measuring eyepiece	
Resolution	1.25μm	
Dwell Time	0~60s	
Max. Height of Specimen	225mm	
Throat	135mm	
Dimension(LWH)	machine size:545×235×790mm, packing size: 650×435×1060mm	
Weight	Net Weight: 130kg, Gross Weight: 160kg	
Power Supply	AC220V, 50Hz	

Standard accessories:

NO.	Name	Qty	NO.	Name	Qty
1	Instrument Main Body	1	7	20× Digital Measuring Eyepiece	1
2	Φ2.5mm, Φ5mm, Φ10mm Ball Indenter	3	8	Large Plane Test Table	1
3	Small Plane Test Table	1	9	V-shaped Test Table	1
4	Hardness Block 150~250 HBW 10/3000	1	10	Hardness Block 150~250 HBW 5/750	1
5	Fuse 2A	2	11	Power Cable	1
6	Anti-dust Cover	1	12	Usage Instruction Manual	1

SHB-3000X+LCD VIDEO Digital Brinell Hardness Tester

Feature:

SHB-3000X+LCD video Digital Brinell hardness tester is a unified product combining the precise mechanical structure and the load cell control system. The instrument adopts the motorized test force application without weights, and uses 0.5% accuracy compression sensor to feedback and the CPU control system to automatically compensate the test force lost during the test. The indentation can be directly measured through the digital measuring eyepiece, and it can intuitively show the test force, indentation length, dwell time, test number, date and time on the large screen. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. According to the client's requirement, it can be equipped with video measuring device and CCD image automatic measuring system.

Standard: ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2

Application:

Suitable for cast iron, steel products, nonferrous metals and soft alloys etc. Also suitable for some nonmetal materials such as rigid plastics and bakelite etc.



Technical Specification:

Model	SHB-3000X+LCD VIDEO	
Test Force	kgf	62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf
	N	612.9N, 980.7N, 1226N, 1839N, 2452N, 4903N, 7355N, 9807N, 14710N, 29420N
Test Range	3.18~653HBW	
Hardness Reading	LCD display	
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N,	
Data Output	built-in printer, RS232 interface	
Microscope	20× digital measuring eyepiece	
Resolution	1.25μm	
Dwell Time	0~60s	
Max. Height of Specimen	225mm	
Throat	135mm	
Dimension(LWH)	machine size:545×235×790mm, packing size: 650×435×1060mm	
Weight	Net Weight: 130kg, Gross Weight: 160kg	
Power Supply	AC220V, 50Hz	

Standard accessories:

NO.	Name	Qty	NO.	Name	Qty
1	Instrument Main Body	1	7	20× Digital Measuring Eyepiece	1
2	Φ2.5mm, Φ5mm, Φ10mm Ball Indenter	3	8	Large Plane Test Table	1
3	Small Plane Test Table	1	9	V-shaped Test Table	1
4	Hardness Block 150~250 HBW 10/3000	1	10	Hardness Block 150~250 HBW 5/750	1
5	Fuse 2A	2	11	Power Cable	1
6	Anti-dust Cover	1	12	Usage Instruction Manual	1

SHB-3000XZ Digital Brinell Hardness Tester


Feature:

- ◆ Install 3 indenters
- ◆ Built in 2 lens
- ◆ Automatic switching between the objective and the indenter

Function:

SHB-3000XZ Three indenters digital Brinell hardness tester adopts precise structure design and the load of test force is controlled by the sensor, which makes the whole structure compact and loading of test force stable and exact. The test process is controlled by CPU, using automatic switching between the objective and the indenter. The location of switching adopts mechanical and electronic double matching, makes the location precision more high. The instrument has 10 steps test force and 13 kinds of Brinell testing scale for arbitrary selection; With three indenters and two objectives, all can be used for measurement, automatic recognition and shifting between the objectives and the indenter; Pre-set the dwell time of test force and regulate the luminosity of light source; Automatically display the testing indentation length, hardness value and testing numbers; Conversion scales of different kinds of hardness; Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. According to the client's requirement, it can be equipped with video measuring device and CCD image automatic measuring system.

Standard: ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2

Technical specification:

model		SHB-3000XZ
test force	KGF	62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf
	N	612.9N, 980.7N, 1226N, 1839N, 2452N, 4903N, 7355N, 9807N, 14710N, 29420N
test range		3.18~653HBW
loading method		automatic (loading/dwell/unloading)
hardness reading		LCD display
conversion scale		HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS
data output		built-in printer, RS232 interface
shifting between objective and indenter		automatic recognition and shifting (three indenters, two objectives)
total magnification		20× , 40×
resolution		1.25μm , 0.625μm
dwell time		0~60s
max. height of specimen		260mm
throat		150mm
power supply		AC220V, 50Hz
dimension		535×260×890mm, packing dimension: 820×460×1170mm
weight		net weight: 150kg, gross weight: 180kg

Standard accessories:

Name	Qty	Name	Qty
instrument main body	1 set	20× digital measuring eyepiece	1 pc
1×, 2× objective	2 pcs	φ2.5mm, φ5mm, φ10mm ball indenter	3 pcs
small plane test table	1 pc	large plane test table	1 pc
v-shaped test table	1 pc	power cable	1 pc
hardness block 150~250 HBW 10/3000	1 pc	hardness block 150~250 HBW 5/750	1 pc
fuse 2A	2 pcs	anti-dust cover	1 pc
manual	1 copy		

SHB-3000XZM Digital Brinell Hardness Tester


Feature:

- ◆ Install 3 indenters
- ◆ Built in 2 lens
- ◆ Automatic switching between the objective and the indenter
- ◆ Touch screen

Function:

SHB-3000XZM Three indenters digital Brinell hardness tester adopts precise structure design and the load of test force is controlled by the sensor, which makes the whole structure compact and loading of test force stable and exact. All the parameters can be showed and set on the touch screen with easy operation. The test process is controlled by CPU, using automatic switching between the objective and the indenter. The location of switching adopts mechanical and electronic double matching, makes the location precision more high. The instrument has 10 steps test force and 13 kinds of Brinell testing scale for arbitrary selection; With three indenters and two objectives, all can be used for measurement, automatic recognition and shifting between the objectives and the indenter; Pre-set the dwell time of test force and regulate the luminosity of light source; Automatically display the testing indentation length, hardness value and testing numbers; Conversion scales of different kinds of hardness; Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. According to the client's requirement, it can be equipped with video measuring device and CCD image automatic measuring system.

Standard: ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2

Technical specification:

model		SHB-3000XZM
test force	kgf	62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf
	N	612.9N, 980.7N, 1226N, 1839N, 2452N, 4903N, 7355N, 9807N, 14710N, 29420N
test range		3.18~653HBW
loading method		automatic (loading/dwell/unloading)
hardness reading		touch screen display
conversion scale		HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS
data output		built-in printer, RS232 interface
shifting between objective and indenter		automatic recognition and shifting (three indenters, two objectives)
total magnification		20× , 40×
resolution		1.25μm , 0.625μm
dwell time		0~60s
max. height of specimen		260mm
throat		150mm
power supply		AC220V, 50Hz
dimension		535×260×890mm, packing dimension: 820×460×1170mm
weight		net weight: 150kg, gross weight: 180kg

Standard accessories:

Name	Qty	Name	Qty
instrument main body	1 set	20× digital measuring eyepiece	1 pc
1×, 2× objective	2 pcs	φ2.5mm, φ5mm, φ10mm ball indenter	3 pcs
small plane test table	1 pc	large plane test table	1 pc
v-shaped test table	1 pc	power cable	1 pc
hardness block 150~250 HBW 10/3000	1 pc	hardness block 150~250 HBW 5/750	1 pc
fuse 2A	2 pcs	anti-dust cover	1 pc
manual	1 copy		

SHB-3000XZT Digital Brinell Hardness Tester



Feature:

- ◆ Fully automatic with 3 indenters
- ◆ Built in 2 lens
- ◆ Automatic switching between the objective and the indenter
- ◆ Touch screen computer with measuring software, win7 system

Function:

SHB-3000XZT, test process is controlled by CPU, using automatic switching between the objective and the indenter. The location of switching adopts mechanical and electronic double matching, makes the location precision more high. With built-in panel computer, it makes the parameter setting and results show directly with easy operation, it also avoids the stimulation and visual fatigue of the light source of the eyepiece, and reduces the measuring error. After select the scale, the instrument will automatically select the indenter and objective, the test table rises automatically and then back to the focusing position after loading the test force, it shows the clear image of the indentation and automatically measures, which realizes the fully automation of the Brinell test.

This instrument has 10 level of test force, 13 Brinell hardness test scales, suitable for different kinds of metal materials;

According to the selected scale, with automatic shifting the instrument will automatically select the corresponding indenter and objective for measurement;

The automatic lifting test table adopts precise structure with high stability, it automatically rises when start measuring, and then back to the focusing position for measuring after loading the test force, which realizes the one

key automation;

Test result can be saved as WORD or EXCEL report and can be printed out;

With USB port, RS232 interface and network interface, it can connect to the internet and other devices for more optional functions.

Standard: ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2

Technical specification:

model		SHB-3000XZT
test force	kgf	62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf,
	N	612.9N, 980.7N, 1226N, 1839N, 2452N, 4903N, 7355N, 9807N,
test range		3.18~653HBW
loading method		automatic (loading/dwell/unloading)
hardness reading		indentation displaying and automatic measuring on touch screen
computer		CPU: Intel I3, Memory: 2G, SSD: 32G
conversion scale		HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N,
shifting between objective and indenter		automatic recognition and shifting (three indenters, two objectives)
total magnification		20× , 40×
resolution		1.25μm , 0.625μm
dwelt time		0~95s
max. height of specimen		260mm
throat		150mm
power supply		AC220V, 50Hz
dimension		535×260×890mm, packing dimension: 820×460×1170mm
weight		net weight: 150kg, gross weight: 180kg

Standard accessories:

Name	Qty	Name	Qty
instrument main body	1 set	1×, 2× objective	2 pcs
φ2.5mm, φ5mm, φ10mm ball indenter	3 pcs	small plane test table	1 pc
large plane test table	1 pc	v-shaped test table	1 pc
fuse 2a	2 pcs	power cable	1 pc
hardness block 150~250 HBW 10/3000	1 pc	hardness block 150~250 HBW 5/750	1 pc
inner hexagon spanner	1 pc	anti-dust cover	1 pc
manual	1 copy		

SHR-1500D Digital Rockwell Hardness Tester

Feature:

SHR-1500D Digital Rockwell hardness tester is equipped with a newly-designed large displaying screen with good reliability, excellent operation and easy watching, thus it is a high-tech product combining the mechanic and electric features. It can show and set the present scale, test force, test indenter, dwell time and hardness conversion; the main function is as follows: Selection of all the Rockwell scales; Conversion scales of different kinds of hardness; Test results can be saved and printed out, automatic calculation of maximum, minimum and average value; With RS232 interface for connecting to the computer.

Application:

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc.

Standard: ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2



Technical Specification:

Model	SHR-1500D
initial test force	10kgf (98.07N)
total test force	60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)
indenter	diamond rockwell indenter, ϕ 1.588mm ball indenter
loading method	automatic (loading/dwell/unloading)
hardness reading	LCD screen display
test scale	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV
conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW
data output	built-in printer, RS232 interface
resolution	0.1HR
dwell time	0~60s
max. height of specimen	175mm /customize 400mm
throat	165mm
power supply	AC220V, 50Hz
dimension(LWH)	machine:520×215×700mm, packing: 650×370×950mm
weight	net weight: 78kg, gross weight: 100kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	diamond rockwell indenter	1
2	ϕ 1.588mm ball indenter	1	12	middle plane test table	1
3	large plane test table	1	13	V-shaped test table	1
4	hardness block 60~70 HRC	1	14	hardness block 20~30 HRC	1
5	hardness block 80~100 HRB	1	15	weight A,B,C	3
6	power cable	1	16	fuse 2A	2
7	level	1	17	horizontal regulating screw	4
8	screw driver	1	18	spanner	1
9	anti-dust cover	1	19	manual	1

SHR-1500DH Digital Rockwell Hardness Tester (heighten)

Feature:

SHR-1500DH (heighten) Digital Rockwell hardness tester is equipped with a newly-designed large displaying screen with good reliability, excellent operation and easy watching, thus it is a high-tech product combining the mechanic and electric features. It can show and set the present scale, test force, test indenter, dwell time and hardness conversion; the main function is as follows: Selection of all the Rockwell scales; Conversion scales of different kinds of hardness; Test results can be saved and printed out, automatic calculation of maximum, minimum and average value; With RS232 interface for connecting to the computer.

Application:

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc.

Standard: ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2



Technical Specification:

Model	SHR-1500DH (heighten)
initial test force	10kgf (98.07N)
total test force	60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)
indenter	diamond rockwell indenter, ϕ 1.588mm ball indenter
loading method	automatic (loading/dwell/unloading)
hardness reading	LCD screen display
test scale	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV
conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW
data output	built-in printer, RS232 interface
resolution	0.1HR
dwell time	0~60s
max. height of specimen	400mm
throat	165mm
power supply	AC220V, 50Hz
dimension(LWH)	machine:520×215×880mm, packing: 650×370×1140mm
weight	net weight: 78kg, gross weight: 100kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	diamond rockwell indenter	1
2	ϕ 1.588mm ball indenter	1	12	middle plane test table	1
3	large plane test table	1	13	V-shaped test table	1
4	hardness block 60~70 HRC	1	14	hardness block 20~30 HRC	1
5	hardness block 80~100 HRB	1	15	weight A,B,C	3
6	power cable	1	16	fuse 2A	2
7	level	1	17	horizontal regulating screw	4
8	screw driver	1	18	spanner	1
9	anti-dust cover	1	19	manual	1

SHR-1500DX Digital Plastics Rockwell Hardness Tester

Feature:

SHR-1500DX Digital plastics Rockwell hardness tester is equipped with a newly-designed large displaying screen with good reliability, excellent operation and easy watching, thus it is a high-tech product combining the mechanic and electric features. It can show and set the present scale, test force, test indenter, dwell time and hardness conversion; the main function is as follows: Selection of all the plastics Rockwell scales; Conversion scales of different kinds of hardness; Test results can be saved and printed out, automatic calculation of maximum, minimum and average value; With RS232 interface for connecting to the computer.

Application:

Suitable for hard plastics, hard rubbers, aluminum, tin, copper,

ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.



Technical Specification:

Model	SHR-1500DX
initial test force	10kgf (98.07N)
total test force	60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)
indenter	Φ3.175mmBall Indenter, Φ6.35mmBall Indenter, Φ12.7mmBall Indenter
loading method	automatic (loading/dwell/unloading)
test scale	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV
conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW
hardness reading	Built-in Printer, RS232 Interface
resolution	0.1HR
dwell time	0~60s
max. height of specimen	175mm
throat	165mm
power supply	AC220V, 50Hz
dimension(LWH)	machine:520×215×700mm, packing: 650×370×950mm
weight	net weight: 78kg, gross weight: 100kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	hardness block 110~120 HRL	1
2	Φ3.175mmBall Indenter		12	hardness block 85~95 HRE	1
3	Φ6.35mmBall Indenter	1	13	hardness block 115~125 HRR	1
4	Φ12.7mmBall Indenter	1	14	hardness block 90~100 HRM	1
5	large plane test table	1	15	weight A,B,C	3
6	middle plane test table	1	16	fuse 2A	2
7	V-shaped test table	1	17	horizontal regulating screw	4
8	power cable	1	18	spanner	1
9	level	1	19	screw driver	1
10	anti-dust cover	1	20	manual	1

SHR-1500E Rockwell Hardness Tester

Feature:

SHR-1500E Motorized Rockwell hardness tester adopts the mechanism of automatic loading and unloading of the test force, the test force is regulated by the load-change hand wheel. It can select the dwell time and is very easy to use. Besides setting zero to dial, there is no man-made error. The instrument has high sensitivity and stability.

Application:

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc.

Standard: ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.



Technical Specification:

Model	SHR-1500E
initial test force	10kgf (98.07N)
total test force	60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)
indenter	diamond rockwell indenter, $\phi 1.588\text{mm}$ ball indenter
loading method	automatic (loading/dwell/unloading)
hardness reading	dial
resolution	0.5HR
dwell time	2~60s
max. height of specimen	175mm
throat	165mm
power supply	AC220V, 50Hz
dimension(LWH)	machine:520×215×700mm, packing: 650×370×950mm
weight	net weight: 78kg, gross weight: 100kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	diamond rockwell indenter	1
2	$\phi 1.588\text{mm}$ ball indenter	1	12	middle plane test table	1
3	large plane test table	1	13	V-shaped test table	1
4	hardness block 60~70 HRC	1	14	hardness block 20~30 HRC	1
5	hardness block 80~100 HRB	1	15	weight A,B,C	3
6	power cable	1	16	fuse 2A	2
7	level	1	17	horizontal regulating screw	4
8	screw driver	1	18	spanner	1
9	anti-dust cover	1	19	manual	1

SHR-1500M Rockwell Hardness Tester

Feature:

SHR-1500M rockwell hardness tester is a popularly-used hardness testing instrument to measure the Rockwell hardness of the materials. No need for power supply, the speed of the test force loading is regulated by the buffer and the test force is regulated by the load-change hand wheel. It has easy operation and stable performance, therefore it is widely used.

Application:

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc.

Standard: ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2



Technical Specification:

Model	SHR-1500M
initial test force	10kgf (98.07N)
total test force	60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)
indenter	diamond rockwell indenter, ϕ 1.588mm ball indenter
loading method	manual
hardness reading	dial
resolution	0.5HR
dwel time	/
max. height of specimen	175mm
throat	165mm
power supply	AC220V, 50Hz
dimension(LWH)	machine:520×215×700mm, packing: 650×370×950mm
weight	net weight: 78kg, gross weight: 100kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	7	large plane test table	1
2	ϕ 1.588mm ball indenter	1	8	middle plane test table	1
3	diamond rockwell indenter	1	9	V-shaped test table	1
4	hardness block 60~70 HRC	1	10	weight A,B,C	3
5	hardness block 80~100 HRB	1	11	anti-dust cover	1
6	hardness block 20~30 HRC	1	12	manual	1

SHRS-450D Superficial Digital Rockwell Hardness Tester

Feature:

SHRS-450D Digital superficial Rockwell hardness tester is equipped with a newly-designed large displaying screen with good reliability, excellent operation and easy watching, thus it is a high-tech product combining the mechanic and electric features. It can show and set the present scale, test force, test indenter, dwell time and hardness conversion; the main function is as follows: Selection of all the superficial Rockwell scales; Conversion scales of different kinds of hardness; Test results can be saved and printed out, automatic calculation of maximum, minimum and average value; With RS232 interface for connecting to the computer.

Application:

Suitable for surface quenched steel, surface heat treating and chemical treating materials, copper alloy, aluminum alloy, sheet, zinc layers, chrome layers, tin layers, bearing steel and cold and hard casting etc.

Standard: ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2



Technical Specification:

Model	SHRS-450D
initial test force	3kgf (29.42N)
total test force	15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N)
indenter	diamond rockwell indenter, $\phi 1.588$ mm ball indenter
loading method	automatic (loading/dwell/unloading)
hardness reading	LCD screen display
test scale	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, HS, HBW
data output	built-in printer, RS232 interface
resolution	0.1HR
dwell time	0~60s
max. height of specimen	175mm /customize 400mm
throat	165mm
power supply	AC220V, 50Hz
dimension(LWH)	machine:520×215×700mm, packing: 650×370×950mm
weight	net weight: 78kg, gross weight: 100kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	diamond rockwell indenter	1
2	$\phi 1.588$ mm ball indenter	1	12	middle plane test table	1
3	large plane test table	1	13	V-shaped test table	1
4	hardness block 70~85 HR30T	1	14	hardness block 80~90 HR15N	1
5	hardness block 65~80 HR30N	1	15	weight A,B,C	3
6	power cable	1	16	fuse 2A	2
7	level	1	17	horizontal regulating screw	4
8	screw driver	1	18	spanner	1
9	anti-dust cover	1	19	manual	1

SHRS-450E Motorized Superficial Rockwell Hardness Tester

Feature:

SHRS-450E motorized superficial rockwell hardness tester adopts the mechanism of automatic loading and unloading of the test force, the test force is regulated by the load-change hand wheel. It can select the dwell time and is very easy to use. Besides setting zero to dial, there is no man-made error. The instrument has high sensitivity and stability.

Application:

Suitable for surface quenched steel, surface heat treating and chemical treating materials, copper alloy, aluminum alloy, sheet, zinc layers, chrome layers, tin layers, bearing steel and cold and hard casting etc.

Standard: ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2



Technical Specification:

Model	SHRS-450E
initial test force	3kgf (29.42N)
total test force	15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N)
indenter	diamond rockwell indenter, $\phi 1.588$ mm ball indenter
loading method	automatic (loading/dwell/unloading)
hardness reading	dial
resolution	0.5HR
dwell time	2~60s
max. height of specimen	175mm
throat	165mm
power supply	AC220V, 50Hz
dimension(LWH)	machine:520×215×700mm, packing: 650×370×950mm
weight	net weight: 78kg, gross weight: 100kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	diamond rockwell indenter	1
2	$\phi 1.588$ mm ball indenter	1	12	middle plane test table	1
3	large plane test table	1	13	V-shaped test table	1
4	hardness block 70~85 HR30T	1	14	hardness block 80~90 HR15N	1
5	hardness block 65~80 HR30N	1	15	weight A,B,C	3
6	power cable	1	16	fuse 2A	2
7	level	1	17	horizontal regulating screw	4
8	screw driver	1	18	spanner	1
9	anti-dust cover	1	19	manual	1

SHRS-450M Rockwell Hardness Tester

Feature:

SHRS-450M Superficial Rockwell hardness tester is a popularly-used hardness testing instrument to measure the superficial Rockwell hardness of the materials. No need for power supply, the speed of the test force loading is regulated by the buffer and the test force is regulated by the load-change hand wheel. It has easy operation and stable performance, therefore it is widely used.

Application:

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc.

Standard: ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2



Technical Specification:

Model	SHRS-450M
initial test force	3kgf (29.42N)
total test force	15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N)
indenter	diamond rockwell indenter, ϕ 1.588mm ball indenter
loading method	manual
hardness reading	dial
resolution	0.5HR
dwel time	/
max. height of specimen	175mm
throat	165mm
power supply	AC220V, 50Hz
dimension(LWH)	machine:520×215×700mm, packing: 650×370×950mm
weight	net weight: 78kg, gross weight: 100kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	7	large plane test table	1
2	ϕ 1.588mm ball indenter	1	8	middle plane test table	1
3	diamond rockwell indenter	1	9	V-shaped test table	1
4	hardness block 70~85 HR30T	1	10	weight A,B,C	3
5	hardness block 65~80 HR30N	1	11	anti-dust cover	1
6	hardness block 80~90 HR15N	1	12	manual	1

SHR-560 Digital Double Rockwell Hardness Tester

Feature:

SHR-560 digital double rockwell hardness tester is equipped with a newly-designed large displaying screen with good reliability, excellent operation and easy watching, thus it is a high-tech product combining the mechanic and electric features. It can show and set the present scale, test force, test indenter, dwell time and hardness conversion; the main function is as follows: Selection of all the Rockwell and superficial Rockwell scales; Conversion scales of different kinds of hardness; Test results can be saved and printed out, automatic calculation of maximum, minimum and average value; With RS232 interface for connecting to the computer.

Application:

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc. Also suitable for surface quenched steel, surface heat treating and chemical treating materials, sheet, zinc layers, chrome layers, tin layers etc.

Standard: ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2



Technical Specification:

Model	SHR-560
initial test force	3kgf (29.42N), 10kgf (98.07N)
total test force	15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N), 60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)
indenter	diamond rockwell indenter, $\phi 1.588\text{mm}$ ball indenter
loading method	automatic (loading/dwell/unloading)
hardness reading	lcd screen display
test 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, HS, HBW
data output	built-in printer, RS232 interface
resolution	0.1HR
dwell time	0~60s
height of specimen	175mm
throat	165mm
power supply	AC220V, 50Hz
dimension(LWH)	machine :520×215×740mm, packing: 650×370×980mm
weight	net weight: 80kg, gross weight: 100kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	11	large plane test table	1
2	$\phi 1.588\text{mm}$ ball indenter	1	12	middle plane test table	1
3	diamond rockwell indenter	1	13	V-shaped test table	1
4	hardness block 60~70 HRC	1	14	horizontal regulating screw	4
5	hardness block 80~100 HRB	1	15	screw driver	1
6	hardness block 20~30 HRC	1	16	spanner	1
7	hardness block 65~80 HR30N	1	17	power cable	1
8	hardness block 75~85 HR30T	1	18	fuse 2A	2
9	level	1	19	weight 1, 2, 3, 4, 5	5
10	anti-dust cover	1	20	manual	1

SHR-560Z Automatic Double Rockwell Hardness Tester

Feature:

SHR-560Z Automatic double Rockwell hardness tester with a good aesthetic aspect, complete functions, easy operation, intuitive display and good reliability, is a high-tech product combining the mechanic and electric features, which is suitable for the Rockwell and superficial Rockwell hardness test.

- ◆ Support for all the Rockwell and superficial Rockwell scales;
- ◆ Support for conversion scales of different kinds of hardness;
- ◆ Touch screen display and operation, dynamically display the working state of the lifting screw and the indenter;
- ◆ Press operation for the test table, fast rising or dropping;
- ◆ One key to complete the rising of the specimen, loading dwell and unloading of the indenter, displaying of the hardness value, homing of the test table;
- ◆ With data storage function, automatic calculation of the maximum, minimum, average of the hardness value, the test results can be printed for output, and with a RS232 interface users can connect it to the computer for output.

Application:

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc. Also suitable for surface quenched steel, surface heat treating and chemical treating materials, sheet, zinc layers, chrome layers, tin layers etc.

Standard: ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2



Technical Specification:

Model	SHR-560Z
initial test force	3kgf (29.42N), 10kgf (98.07N)
total test force	15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N), 60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)
indenter	diamond rockwell indenter, ϕ 1.588mm ball indenter
loading method	automatic (loading/dwell/unloading)
automatic test table	automatic rising and homing, one key to complete
hardness reading	touch screen
test 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	RS232 interface
resolution	0.1HR
dwell time	0~99s
max. height of specimen	320mm
throat	150mm
power supply	AC220V, 50Hz
dimension(LWH)	machine: 535×330×890mm, packing: 820×460×1170mm
weight	net weight: 80kg, gross weight: 100kg

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	9	large plane test table	1
2	ϕ 1.588mm ball indenter	1	10	middle plane test table	1
3	diamond rockwell indenter	1	11	V-shaped test table	1
4	hardness block 60~70 HRC	1	12	anti-dust cover	1
5	hardness block 80~100 HRB	1	13	power cable	1
6	hardness block 20~30 HRC	1	14	fuse 2A	2
7	hardness block 65~80 HR30N	1	15	manual	1
8	hardness block 75~85 HR30T	1	16	/	/

SBRV-100D Digital Multifunction Hardness Tester

Product Description:

Digital Micro Brinell, Rockwell and Vickers hardness tester is a testing machine which integrate the technology of optics, mechanics and computer. It features new appearance, complete functions, easy operation, visual display and stable performance. It can fulfill Brinell, Rockwell and Vickers testing requirements. With nearly 7 grade testing force, it can meet many kinds of needs of hardness testing.

Automatic convert for the loading, dwell and unloading of testing force. The operation is very convenient and quick. The main functions as follows:

- 1 Available for Brinell, Rockwell and Vickers testing
- 2 Conversion between each hardness scale.
- 3 Setting for hardness dwell time
- 4 Changeable for year, month and date
- 5 RS232 serial communication, offers extend functions for users.

This machine offers data save function. Users can browse the testing page and print out the testing result.

Standard:

ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2 ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2, ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2



Specification list:

Type	Rockwell	Brinell	Vickers
Preliminary test force(N)	98	98	98
Testing Forces (kgf)	60, 100, 150kgf	30,31.25,62.5,100,187.5kgf	30, 100kgf
Hardness test (N)	588.4, 980.7, 1471N	294.2,306.5,612.9,980.7,1839N	294.2, 980.7N
Press head	diamond indenter,	φ2.5mm, φ5mm ball indenter	diamond indenter
Scale	HRA, HRB, HRC, HRD	HBW1/30, HBW2.5/31.25,	HV30, HV100
Conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N,		
Accuracy	±2.0%(98N) ±1.0%	±1.0%	±1.0%
Resolution	0.1HR	0.5μm	0.25μm
Magnification	/	37.5X	75X
Max height of specimens	175 / 400mm(optional)	100 /330mm(optional)	115/ 345mm(optional)
Throat	165mm		
Loading method	automatic (loading/dwell/unloading)		
Hardness reading	LCD screen display		
Data output	built-in printer, RS232 interface		
Load dwell duration:	0~60s can be set.		
Dimensions	(L×W×H) 520×240×740mm, packing dimension: 650×370×980mm		
Weight:	Net Weight: 80kg, Gross Weight: 105kg		
Power supply	AC220V±5%, 50~60Hz		

Standard accessory:

NO.	Name	Qty	NO.	Name	Qty
1	instrument main body	1	14	diamond rockwell indenter	1
2	diamond vickers indenter	1	15	φ1.588mm, φ2.5mm, φ5mm ball indenter	3
3	slipped test table	1	16	middle plane test table	1
4	large plane test table	1	17	V-shaped test table	1
5	15× digital measuring eyepiece	1	18	2.5×, 5× Objective	2
6	microscope system (include the inside light)	1	19	hardness block 150~250 HBW 2.5/187.5	1
7	hardness block 60~70 HRC	1	20	hardness block 20~30 HRC	1
8	hardness block 80~100 HRB	1	21	hardness block 700~800 HV30	1
9	weights 0, 1, 2, 3, 4	5	22	power cable	1
10	fuse 2A	2	23	horizontal regulating screw	4
11	level	1	24	spanner	1
12	screw driver	1	25	anti-dust cover	1
13	usage instruction manual	1			

SBRV-100E Multifunction Hardness Tester

Description:

SBRV-100E Brinell Rockwell & Vickers hardness tester is a multi-functional hardness tester with Brinell, Rockwell & Vickers three test modes and 7 level of test forces, which can test several kinds of hardness. Test force loading, dwell, unload adopts automatic system, widely used and easy to operate, therefore it is the popular machine for industrial enterprises and scientific research institutes.

The Universal version enables the execution of Rockwell standard (60,100,150kgf), Brinell (31.25-62.5-187.5kgf) and Vickers tests (30,100kgf). The microscope together with the instrument allows fast and reliable measurements of Brinell and Vickers indentations both in the analogue and digital version. The digital version permits to determine the hardness value in the fast and easy way.



Standard:

ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2 ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2, ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2

Specifications:

Type	Rockwell	Brinell	Vickers
Preliminary test force(N)	98	98	98
Testing forces (kgf)	60, 100, 150kgf	30, 31.25, 62.5, 100, 187.5kgf	30, 100kgf
Hardness test (N)	588.2, 980.7, 1471N	294.2, 306.5, 612.9, 980.7, 1839N	294.2, 980.7N
Resolution	0.5HR	4μm	2μm
Indenter	diamond indenterφ1.588mm	2.5mm, φ5mm ball indenter	diamond indenter
Value reading	dial	check hardness table	check hardness table
Dwell time	2~60s	2~60s	2~60s
Magnification of microscope	/	37.5X	75X
Max height of specimens(mm)	175mm	100mm	115mm
Throat	165mm	2~60s	2~60s
Power supply	AC220V 50/60Hz		
Net weight(kg)	90		
Dimensions(mm)	520×240×700mm, packing dimension: 650×370×950mm		
Weight	Net Weight: 80kg, Gross Weight: 105kg		

Standard accessory:

No.	Name	Qty	No.	Name	Qty
1	Instrument Main Body	1	14	Diamond Rockwell Indenter	1
2	Diamond Vickers Indenter	1	15	φ1.588mm, φ2.5mm, φ5mmBall Indenter	3
3	Slipped Test Table	1	16	Middle Plane Test Table	1
4	Large Plane Test Table	1	17	V-shaped Test Table	1
5	15× Digital Measuring Eyepiece	1	18	2.5×, 5× Objective	2
6	Microscope System (include the inside light and outside light)	1	19	Hardness Block 150~250 HBW 2.5/187.5	1
7	Hardness Block 60~70 HRC	1	20	Hardness Block 20~30 HRC	1
8	Hardness Block 80~100 HRB	1	21	Hardness Block 700~800 HV30	1
9	Weights 0, 1, 2, 3, 4	5	22	Power Cable	1
10	Fuse 2A	2	23	Horizontal Regulating Screw	4
11	Level	1	24	Spanner	1
12	Screw Driver	1	25	Anti-dust Cover	1
13	Usage Instruction Manual	1			