



Economical Macro Vickers Hardness Tester

HV-10D series

Characteristic:

- HV-10D Series is a half automatic and intelligent Vickers hardness testing machine, it adopts the close-loop force sensor to replace the traditional quality weight, this innovative design makes the instrument more accurate.
- HV-10D Series 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.
- HV-10D Series adopts digital microscopes with adjustable LED illuminator, doesn't the operator to read the detail length of indentation, it only needs the operator to aim the D1, D2 diameter of indentation and press the length key twice, then the built-in computer can compute the Vickers scale and display the final testing result on LCD display automatically.
- HV-10D Series doesn't need the operator to read the diagonal of indentation and check the Vickers testing table, it improves the speed and accuracy of hardness testing obviously.

Specifications:

Product Name		Vickers Hardness Tester		
Model		HV-10D	HV-30D	HV-50D
Code#		821-111	821-121	821-131
Testing Force	Kgf	0.3, 0.5, 1, 2, 2.5, 3, 5, 10	0.5, 1, 2, 3, 5, 10, 20, 30	1, 2, 3, 5, 10, 20, 30, 50
	N	2.94, 4.9, 9.8, 19.6, 24.5, 29.4, 49.0, 98.0	4.9, 9.8, 19.6, 29.4, 49, 98, 196, 294	9.8, 19.6, 29.4, 49.0, 98.0, 196, 294, 490
Testing Range		8HV0.3~2900HV10	8HV0.5~2900HV30	8HV1~2900HV50
Loading Control		Automatic (Loading, Dwell, Unloading)		
Magnification of Microscope		Observation:10x; Measurement:20x		
Digital Eyepiece		Magnification:10x		
Dwell Time		Adjustable 0~60s		
Hardness Indication		1HV/LCD Display		
Illumination		Adjustable LED		
Max. Height of Specimen		170mm		
Instrument Throat		130mm		
Power Supply		AC220V/50Hz;110V/60Hz		
Dimension(LxWxH)		535 x225 x580mm		
Packing Dimension		630 x460 x710mm		
Gross/Net Weight		50Kg/40Kg		
Execution Standard		GB/T4340.2, EN-ISO6507, ASTM E10-08, ASTM E-384		



HV-10D(#821-111)
HV-30D(#821-121)
HV-50D(#821-131)

Standard Delivery:

Standard Delivery	Code#
Vickers Indenter	821-401
Built-in 10x Objective	821-311
Built-in 20x Objective	821-321
HV1 Hardness Block	821-601
HV10 Hardness Block	821-631
10x Digital Eyepiece	821-341
V-Shape Anvil	821-521
Power Cable	821-801
Accessories Box	821-901
Anti-dust Cover	821-911
Level Screw	821-931
Instrument Manual	HV-10D/30D/50D

Practical Digital Macro Vickers Hardness Tester

HVS-10Z series

Characteristic:

- It applies computer software program, high-resolution optical measuring system and photoelectric sensor. Through Key-input on the panel, it can adjust brightness of light source, hardness converse comparison, dwell time, file number and store, etc.
- LCD screen displays test method, test force, length of diagonal, hardness value. It is easy to use with high precision.
- HVS-10Z series is equipped with auto-turret, Halogen Light-source and Built-in Mini-printer as the standard delivery.
- HVS-10Z series is a full digital hardness testing instrument, don't need operator to read the length of diagonal, just press the sensor key.

Specifications:

Product Name		Practical Auto-Turret Digital Vickers Hardness Tester		
Model		HVS-10Z	HVS-30Z	HVS-50Z
Code#		821-142	821-152	821-162
Testing Force	Kgf	0.3, 0.5, 1, 3, 5, 10	1, 3, 5, 10, 20, 30	1, 5, 10, 20, 30, 50
	N	2.94, 4.9, 9.8, 29.4, 49.0, 98.0	9.8, 29.4, 49.0, 98.0, 196, 294	9.8, 49.0, 98.0, 196, 294, 490
Testing Range		8HV0.3~2900HV10	8HV0.5~2900HV30	8HV1~2900HV50
Lens& Indenter Switch		Auto-turret		
Loading Control		Automatic (Loading, Dwell, Unloading)		
Magnification of Microscope		Observation:10x; Measurement:20x	Observation:10x; Measurement:10x	
Digital Eyepiece		Magnification:10x		
Dwell Time		Adjustable 5~60s		
Auto Hardness Conversion		HR; HB; HK; etc		
Output Data		RS232/Mini-Printer		
Hardness Indication		LCD Display		
Illumination		Adjustable LED		
Max. Height of Specimen		160mm		
Instrument Throat		135mm		
Power Supply		AC220V/50Hz;110V/60Hz		
Dimension(LxWxH)		535 x225 x580mm		
Packing Dimension		630 x460 x710mm		
Gross/Net Weight		75Kg/55Kg		
Execution Standard		GB/T4340.2, EN-ISO6507, ASTM E10-08, ASTM E-384		



HVS-10Z(#821-142)
HVS-30Z(#821-152)
HVS-50Z(#821-162)

Standard Delivery:

Standard Delivery	Code#
Vickers Indenter	821-402
HV5 Hardness Block	821-612
HV30 Hardness Block	821-642
10x Digital Eyepiece	821-342
Objectives 10x	825-312
V-Shape Anvil	821-522
55mm Flat Anvil	821-562
Mini-Printer	821-832
Power Cable	821-802
Accessories Box	821-902
Anti-dust Cover	821-912
Level Screw	821-932
Instrument Manual	HVS-10Z/30Z/50Z



Advanced Digital Macro Vickers Hardness Tester HV-10AC series

Characteristic:

- HV-10AC Series is a half automatic and intelligent Vickers hardness testing machine, it adopts the close-loop force sensor to replace the traditional quality weight, this innovative design makes the instrument more accurate.
- HV-10AC Series 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.
- HV-10AC Series adopts digital microscopes with adjustable LED illuminator, no need the operator to read the detail length of indentation, it only needs the operator to aim the D1, D2 diameter of indentation and press the length key twice, then the built-in computer can computer the Vickers scale.
- HV-10AC Series equipped with a large LCD screen, the operation is more directly and clearly.
- HV-10AC Series doesn't need the operator to read the diagonal of indentation and check the Vickers testing table, it improves the testing speed and accuracy of hardness testing obviously.
- HV-10AC series hardness conversion among 17 hardness scales, and linking to PC in RS 232 interface and cable.



HV-10AC(#821-171)
HV-30AC(#821-181)
HV-50AC(#821-191)

Specifications:

Product Name		Advanced Auto-Turret Digital Vickers Hardness Tester		
Model		HV-10AC	HV-30AC	HV-50AC
Code#		821-171	821-181	821-191
Testing Force	Kgf	0.3, 0.5, 1, 2, 2.5, 3, 5, 10	0.5, 1, 2, 3, 5, 10, 20, 30	1, 2, 3, 5, 10, 20, 30, 50
	N	2.94, 4.9, 9.8, 19.6, 24.5, 29.4, 49.0, 98.0	4.9, 9.8, 19.6, 29.4, 49, 98, 196, 294	9.8, 19.6, 29.4, 49.0, 98.0, 196, 294, 490
Testing Range		8HV0.3~2900HV10	8HV0.5~2900HV30	8HV1~2900HV50
Lens& Indenter Switch		Auto-turret		
Loading Control		Automatic (Loading, Dwell, Unloading)		
Magnification of Microscope		Observation:10x; Measurement:20x		
Digital Eyepiece		Magnification:10x;		
Dwell Time		Adjustable 0~60s		
Auto Hardness Conversion		HRA、HRB、HRC、HV、HK、HBW、etc		
Hardness Indication		LCD Display		
Output Data		RS232/Mini-printer		
Illumination		Adjustable LED		
Max. Height of Specimen		160mm		
Instrument Throat		135mm		
Power Supply		AC220V/50Hz;110V/60Hz		
Dimension(LxWxH)		535 x225 x580mm		
Packing Dimension		630 x460 x710mm		
Gross/Net Weight		75Kg/55Kg		
Execution Standard		GB/T4340.2, EN-ISO6507, ASTM E10-08, ASTM E-384		

Standard Delivery:

Standard Delivery	Code#
Vickers Indenter	821-401
Built-in 10x Objective	821-311
Built-in 20x Objective	821-321
HV1 Hardness Block	821-601
HV10 Hardness Block	821-631
10x Digital Eyepiece	821-341
V-Shape Anvil	821-521
Mini-Printer	821-831
Power Cable	821-801
Accessories Box	821-901
Anti-dust Cover	821-911
Level Screw	821-931
Instrument Manual	HV-10AC/30AC/50AC

Automatic Macro Vickers Hardness Tester Vexus ZHV-30AZ series

Characteristic:

- Vexus ZHV-30/50AZ mainly equips with precision force loading/unloading system, auto-turret, LCD display and panel, CCD adapter and camera, PC system, auto-platform and auto-controlling-measuring-software MV1000.
- Vexus ZHV-30/50AZ has two-kind of measuring model, one is by main instrument, it is traditional measurement operation; another is by software. By Vickers measuring software MV1000, all of the operation is by computer except the focus-finding manually, which makes the operational step of hardness testing much ease and simple. Most of important, the auto-software MV1000 avoids the human-error and improves the accuracy of measurement.

Specifications:

Product Name		Auto Macro Intelligent Vickers Hardness Tester	
Model		Vexus ZHV-30AZ	Vexus ZHV-50AZ
Code#		821-213	821-223
Testing Force	Kgf	0.3, 0.5, 1, 3, 5, 10, 20, 30	1, 2, 3, 5, 10, 20, 30, 50
	N	2.94, 4.90, 9.80, 29.4, 49.0, 98.0, 196.1, 294.2	9.80, 19.61, 49.0, 98.0, 196.1, 294.2, 490.3
Indentation Measurement		Digital Sensor /Software Measurement	
Auto-turret		Auto switch 10x, 20x lens & indenter	
Loading Control		Automatic (Loading, Dwell, Unloading)	
Magnification of Microscope		Observation:10x; Measurement:20x	
Digital Eyepiece		10X Digital Eyepiece	
Dwell Time		Adjustable 0~99s	
Auto Hardness Conversion		HV convert to HRC and HB	
Auto X-Y Anvil		Size:110x110mm; Travel:25mm; Resolution:1um	
Auto X/Y Anvil Movement		Motorized by PC measuring software MV1000	
Video System		1/3'' B/W CCD Camera; 1X CCD Adapter	
Measuring Software		MV1000	
PC Communication		P4: 2.4G, 80G Memory, USB interface and PCI slot, RS232 port	
Max. Height of Specimen		220 mm	
Instrument Throat		160mm	
Illumination		Adjustable LED 6V Cold light-source	
Power Supply		AC220V/50Hz; 110V/60Hz	
Dimension(LxWxH)		260x560x680mm	
Packing Dimension		500x490x700mm	
Gross/Net Weight		80Kg/55Kg	
Execution Standard		GB/T4340.2, EN-ISO6507, ASTM E10-08, ASTM E-384	



Vexus ZHV-30AZ(#821-213)
Vexus ZHV-50AZ(#821-223)

Standard Delivery:

Standard Delivery	Code#
Vickers Indenter	821-403
HV1 Hardness Block	821-613
HV10 Hardness Block	821-623
10x Digital Eyepiece	821-343
Built-in 10X Objective	821-313
Built-in 20X Objective	821-313
Auto X-Y Anvil	821-703
Flat Precision Clamp	821-713
Measuring Software MV1000	823-383
HP 17"LCD Monitor	HP PC
1x CCD Adapter	821-363
1/3'' CCD Camera	484-142
Power Cable	821-803
Accessories Box	821-903
Anti-dust Cover	821-913
Instrument Manual	Vexus ZHV-30AZ/50AZ