

HMUS90 HMUS90T Peeling force testing machine

Purpose

This machine can test the tensile strength, peel strength, tear strength, annular initial adhesion, unwinding force, etc. of plastics, films, release materials, adhesive tapes, adhesives, and other materials. It is connected with dedicated software for data output, and can perform analysis, statistics, storage, and other functions in a computer. It is widely used for 180 degree and 90 degree peel strength testing, with a small footprint and a compact and



technical parameter:

Model	HMUS90	HMUS90T
Capacity selection	10N、20N、50N、100N、200N、500N、1KN、(Optional dual capacity configuration)	
monitor	Computer display mode	
Force resolution	1/500,000	
Force accuracy	0.03%	
Travel resolution	1/500,000	
control mode	Full computer operation mode/touch screen operation mode	
Test stroke	450mm	700mm
Test width	Ø110mm	
Test speed	0.1~500mm/min(Customizable 3000mm/mm)Computer settings;	
Power unit conversion	kgf, N, lbf, g, ton, Mpa	
Shutdown mode	It is equipped with quick adjustment buttons for the upper and lower clamps, overload shutdown, emergency stop keys, automatic shutdown for specimen damage, automatic shutdown for upper and lower limit settings, and automatic reset functions.	
Machine size	40x37x92cm(WxDxH)	40x37x120cm(WxDxH)
Machine power	Precision servo motor drive, arc tooth synchronous wheel, synchronous belt and precision ball screw drive;	
power	180W	
machine weight	make an appointment 28kg	make an appointment 35kg
Using electricity	220V 50/60HZ 1A	
Standard configuration	One set of 180 degree peeling fixtures, one 2KG manual wheel pressing wheel, five pieces of national standard peeling test steel plates, software, and computer wiring	
choose	Other fixtures, computers	

HMUS70 Tensile testing machine



Purpose

This machine can test the tensile strength, peel strength, tear strength, annular initial adhesion, unwinding force, foam compression, etc. of plastics, foam, film, release materials, adhesive tapes, adhesives, and other materials. It is connected with dedicated software for data output. It can perform analysis, statistics, storage, and other functions in a computer. It is widely used in 180 degrees and 90 degrees peel strength testing, with good texture and atmospheric appearance.

Technical parameters

model	HMUS70	HMUS71	HMUS72	HMUS73
Capacity selection	10N、20N、50N、100N、200N、500N、1KN、2KN、5KN (Optional dual capacity configuration with fast replacement requirements)			
control mode	Full computer control mode, powerful software functions			
Strength unit	N、kN、gf、kgf、lbf、kP、tf(SI)、tf(long) class			
Length unit	mm、cm、Inch、m、km、um class			
Stress unit	Pa、Kpa、Mpa、Gpa、KN/m'、N/m ² class			
Force resolution	1/500,000			
accuracy	Better than Level 0.5			
Travel resolution	1/500,000mm			
Effective stroke	450mm	700mm	1000mm	1300mm
Speed range	0.01~500mm/min(Customizable 3000mm/mm)			
Test space	Ø140mm			
Shutdown mode	Overload shutdown, emergency stop key, automatic shutdown for specimen damage, automatic shutdown for upper and lower limit setting			
Machine power	Servo motor drive			
Machine size (width x depth x height)	510x590x1061mm	510x590x1325mm	510x590x1530mm	510x590x1880mm
Net Weight	45KG	50KG	55KG	70KG
power	400W			
Power Supply	220V 50~60HZ			
Machine equipment	One set of 180 degree peeling fixtures, one 2KG manual wheel pressing wheel, five pieces of national standard peeling test steel plates, software, and computer wiring			
choose	Other fixtures, computers			

HMS70CR Compression resistance tester

purpose

The HMS70CR compression resistance tester is specialized in testing the compression ratio, compression strength, and compression percentage of foam. Especially in the testing of ultra-thin materials, there is a high requirement for flatness, and there is a need to obtain a comparison curve between the compression curve and the resistance value.



Technical parameters

Machine model	HMS70CR
Capacity selection	10N、20N、50N、100N(Select a group)
Sensor Type	Select a group
Resistance measurement range	0-1000 Ohms (or other custom ranges)
control mode	Full computer control mode, powerful software functions
Compression limit	Compression limit 0.01mm
Compression fixture	Customizing special fixtures according to the product
Strength unit	N、kN、gf、kgf、lbf、kP、tf(SI)、tf(long) class
Length unit	mm、cm、Inch、m、km、um class
Stress unit	Pa、Kpa、Mpa、Gpa、KN/m'、N/m class
Force resolution	1/500,000
measurement accuracy	±0.5%
Test speed	0.1-500mm/minAdjustable
Effective stroke	450mm
Test space	140mm
Shutdown mode	Upper and lower limit safety settings, specimen breakpoint sensing
Motor drive	Servo motor
mechanical drive	Imported synchronous wheel and belt+high-precision ball screw
Machine power	400W
Machine size	500mm(W) x430mm(D)x1260mm (H)
Using the power supply	220V 50Hz
Standard configuration	One set of compression clamps, one data line, one power line, one manual, and one software copy
choose	Precision displacement sensor

HMFCR2 Foam compression resistance tester

Purpose

HMFCR2The foam compression resistance tester is a high-precision machine designed for conductive foam, which can test the corresponding force and resistance values when the foam is compressed to a certain height or compression rate. Currently, it has been widely used in the conductive foam industry.



Technical parameters

Machine model	HMFCR2
Capacity selection	10N、20N、50N、100N、200N、500N、1KN
control mode	Full computer control mode, powerful software functions, and switchable positive and negative sensor forces;
Strength unit	N、kN、gf、kgf、lbf、kP、tf(SI)、tf(long)class
Length unit	mm、cm、Inch、m、km、um class
Stress unit	Pa、Kpa、Mpa、Gpa、KN/m ² 、N/m ² class
Force resolution	1/500,000
accuracy	Better than Level 0.5
Travel resolution	1/500,000mm
Effective stroke	50mm
Speed range	0.01~500mm/min(Customizable)
Test space	140mmOverload shutdown, emergency stop key, automatic shutdown for specimen damage, automatic shutdown for upper and lower limit setting
Shutdown mode	Servo motor drive
Machine power	(Width x Depth x Height)550x590x600mm
Machine size	45KG
Net Weight	400W
power	220V50~60HZ
Power Supply	PW-FCR2

HMUD23 Tensile testing machine

Purpose

HMUD23 tensile testing machine can be selected for testing rubber, plastic, adhesive, adhesive materials, and other large force ranges, and can test the tensile, compression, bending, shear, adhesive force, peeling, tear, and other tests of materials.



technical parameter

Capacity selection	10N、20N、50N、100N、200N、500N、1KN、2KN、5KN、10KN、20KN (Optional dual capacity configuration)
monitor	Computer display mode
Force resolution	1/500,000
Force accuracy	0.03%
Travel resolution	1/500,000
control mode	Full computer operation mode
Test stroke	800mm
Test width	420mm
Test speed	0.01~500mm/min Computer setting, with quick adjustment buttons for the up and down of the fixture
Power unit conversion	kgf, N, lbf, g, ton, Mpa
Shutdown mode	Overload shutdown, emergency stop key, automatic shutdown for specimen damage, automatic shutdown for upper and lower limit setting, and automatic reset function
Machine size	88x60x160cm(WxDxH)
Machine power	Servo motor drive, synchronous wheel and precision ball screw drive
power	400W
machine weight	About 115kg
Using electricity	220V 50/60HZ 10A
Standard configuration	One set of stretching clamps, computer software, and computer wiring
choose	Other fixtures

HMUCS8040 high and low temperature tensile testing machine/HMUCS128T2 high temperature tensile testing machine



HMUCS8040



HMUCS128T2

Purpose

The high and low temperature tensile machine is specially designed for the adhesive industry. It has a small footprint and is easy to operate. It can also be used alone in a low temperature test box, which can change the hard injuries such as the large footprint of the dual column high and low temperature machine on the market, which is cumbersome, inconvenient to operate, high failure rate, and difficult to maintain. It can test the tensile force, pressure, tear, shear force, peeling force, unwinding force, and annular initial adhesion force of materials under a specified temperature environment, 180 degree and 90 degree peeling tests



technical parameter

Product model	HMUCS8040 High and low temperature tensile machine	HMUCS128-T2 High temperature tensile testing machine
Capacity selection	10N、20N、50N、100N、200N、500N、1KN(Optional dual capacity configuration)	10N、20N、50N、100N、200N、500N 1KN 、2KN(Optional dual capacity configuration)
temperature range	-40C-150C	Normal temperature C~200C
monitor	Computer display mode	
Force resolution	1/500,000	
Force accuracy	0.03%	
Travel resolution	1/500.000	
control mode	Full computer operation mode	
temperature control	PID Automatic calculation, stable error	
Display accuracy	0.1C	
Temperature accuracy	±1° C	
circulatory system	Fan forced circulation system	
heating system	SUS304S tainless steel heat dissipating heater	
Protector	Leakage and overload protector, compressor overload protection, humidifier overheat protection, temperature limit protection device	
Cabinet material	SUS#304 stainless steel	
Test stroke	450mm/650mm(Customizable size)	450mm
Test chamber space	35x35x62cm(WxDxH)	40*40*80CM(Wx DxH)
Test width	350mm	400mm
Test speed	0.01~500mm/min Computer settings with quick up and down adjustment buttons for fixture	
Power unit conversion	kgf, N, lbf,g,ton, Mpa	
Shutdown mode	Overload shutdown, emergency stop key, automatic shutdown due to specimen damage, automatic shutdown due to upper and lower limit setting, and automatic reset function	
Machine size	90*102*250cm(WDH)	90*60*180cm(WD*H)
Machine power	Servo motor drive, synchronous wheel and precision ball screw drive	Adopt servo horseside drive, flow ball guide screw, and timing belt. reduce the noise
power	400W	
machine weight	180KG	
Using electricity	220V 50/60HZ 30A	
Standard configuration	Fixture extension rod, heat dissipation device, 180 degree peel fixture 1 set, computer software, wiring	
choose	Other fixtures, computers	

HMUD20 Three point/four point bending testing machine

Purpose

This machine can test rubber, plastic, leather, metal, nylon wire, fabric, paper, aviation, packaging, construction, petrochemical, electrical, vehicles Tensile, compression, bending, shear, adhesive force, peeling, tearing, etc. of materials Such tests are basic equipment for quality control, incoming inspection, physical property testing, mechanical research, and material development.



technical parameter

Capacity selection	10N、20N、50N、100N、200N、500N、1KN、2KN、5KN(Optional dual capacity configuration)
monitor	Computer display
Force resolution	1/500,000
Force accuracy	0.03%
Travel resolution	1/500,000
control mode	Full computer operation
Test stroke	600mm
Test width	420mm
Test speed	0.01~500mm/min Computer settings with quick up and down adjustment buttons for fixture
Power unit conversion	kgf, N, lbf,g,ton, Mpa
Shutdown mode	Overload shutdown, emergency stop key, automatic shutdown for specimen damage, automatic shutdown for upper and lower limit setting, and automatic reset function
Machine size	80x45x136cm(WxDxH)
Machine power	Tongfu motor drive, synchronous wheel and precision ball screw drive
power	400W
machine weight	About 220kg
Using electricity	220V 50/60HZ10A
Standard configuration	Clamp 1 set, computer software, USB computer connection
choose;	personal computer

HMUS16 Annular initial adhesion testing machine



technical parameter

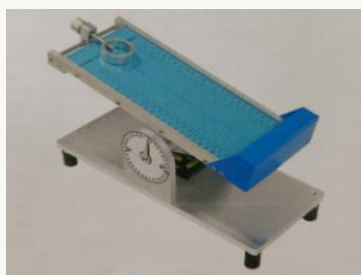
Load selection	50N
measurement accuracy	±1% measurement error
resolving power	0.01N
Loading speed	0.01-500mm/min
Test width	24.5MM(Or specify)
Test Stroke	200mm
power	40w
Power supply question	220V 50Hz
Overall dimensions	40*33*70cm
Net weight	17Kg
Standard configuration	Host machine, 1 sampling knife, and 10 test steel sheets

Purpose

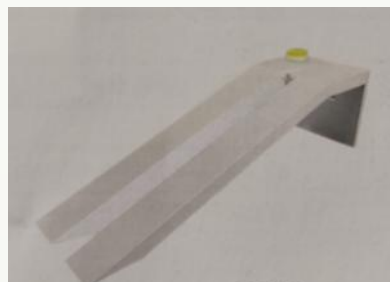
HMUS16 The annular initial adhesion testing machine is a method for measuring the initial adhesion force of adhesives such as self-adhesive adhesives, labels, adhesive tapes, and protective films on specific substrates, and can accurately measure the initial viscosity force value. LOOPACK is named after the shape of the sample. When measuring, the adhesive surface of the adhesive tape is circled outward into a LOOP, and the force applied when the adhesive surface in inches contacts the test substrate is measured

HM8801A/ 8801B Initial viscosity testing machine

The roller testing machine for initial adhesion of adhesive tape is divided into two types: method A and method B, which are suitable for initial adhesion testing of pressure sensitive adhesive tapes



HM8801A



HM8801B

technical parameter

HM8801A Initial viscosity testing machine		HM8801B Initial viscosity testing machine	
Test Angle	0°~40°(Adjustable, commonly used at 30 °)	Slope length	6.5 British Time
Steel ball	No. 2-32 (Group 1)	measurement	23x6x7cm
Machine size	45x27x26(WxDxH)cm	weight	800 g
weight	About 15kg	ramp angle	21.3°
		Roller diameter	7/16 Yingshi (No.14)

HMSS10/HMSS20/HMSS30 Retention force testing machine

Purpose

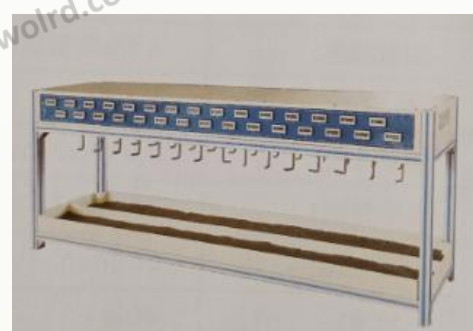
It is applicable to the adhesive tape holding test at normal temperature. When the adhesive tape is attached to the test plate, the time that the adhesive tape can hold under the specified load is automatically counted to confirm the aging of the adhesive tape. When the adhesive tape falls from the steel plate, the timer automatically retains the test time to evaluate the durability of the adhesive tape.



HMSS10



HMSS20



HMSS30

technical parameter

model	HMSS10	HMSS20	HMSS30
Number of test groups	10 sets, independent timer	20 sets, independent timer	30 sets, independent timer
timer	Electronic liquid crystal display, automatic retention time, 999999,9 minutes, high-quality keys, no need for external power supply;		
weight	1kg * 10 pieces	1kg*20pieces	1kg*30pieces
Test steel plate	SUS#304 Mirror steel plate		
Connector	10 tablets	20 tablets	30 tablets
Machine size	87x25x69cm(WxDxH)	110x25x69cm(WxDxH)	158*30*62cm(WxDxH)
machine weight	45GK	80KG	110kg

HMSS10-T2/HMSS20-T2 High temperature retention testing machine

Purpose

This machine is dedicated to the adhesive tape holding test in high temperature environments. It simulates the time that the adhesive tape can hold under a specified load in a high temperature environment, and automatically counts the time that the adhesive tape can hold to confirm the aging of the adhesive tape. When the adhesive tape falls off the steel plate, the timer automatically retains the test time to evaluate the durability of the adhesive tape in high temperature environments.



HMSS10T2



HMSS20T2

technical parameter

model	HMSS10-T2	HMSS20-T2
Number of test groups	10 sets, independent timer (no need to replace battery)	20 sets, independent timer (no need to replace battery)
temperature	Normal temperature+5C~200C (can be set arbitrarily)	
control mode	Microcomputer automatic temperature calculation	
Temperature analysis	0.1°C	
Temperature accuracy	± 1°C	
Weights	1kg, 10 pieces	1kg,20 pieces
timer	Electronic liquid crystal display, automatic retention time, 999999,9 minutes, high-quality keys, 10 groups in total	Electronic liquid crystal display, automatic retention time, 999999,9 minutes, high-quality keys, 20 sets in total
Weight grab	1kg*10 pieces	1kg*20 pieces
Test steel plate	Mirror test steel plate	
Connector	10 pieces	20 pieces
safeguard	All the test pieces fall, the buzzer sounds (with a switch), and the heat is automatically cut off	
Machine structure	The inner liner is made of all stainless steel, and the outer shell is treated with advanced electrostatic powder spraying;	
Machine size	90x 55x75cm	150x55x75cm
machine weight	80kg	140kg
Power Supply	AC220V 50/60HZ	

HMSS90(90 groups)/ HMSS128T(90 groups) Retention force testing machine

Purpose

It is applicable to the adhesion test of adhesive tape under normal temperature. When the adhesive tape is adhered to the test plate, the time that the adhesive tape can hold under the specified load is automatically counted to confirm the aging of the adhesive tape and to evaluate the durability of the adhesive tape.



HMSS90



HMSS128T

technical parameter

Product model	HMSS90(90 groups)	HMSS128T (128 90 groups)
Machine size	1568*400*1718MM	950*300*2000MM
Number of machine sets	90	128
Support steel plate thickness	2mm Permissible industry tolerances	
layer thickness	1mm Permissible industry tolerances	
Protective baffle	950mm(L)X200mm(H)X3~5mm	
Number of test groups	128 groups, 4 layers in total, with each layer placed in a staggered position in the front and rear rows	
Clearance directly above	40mm, with a Z-shaped structure on the left and right, ensuring that a 50mm test standard plate (3mm thick) can be put into use	
Rear cross bar	Take 200mm as a group, and fix it with one screw on the left and right sides to ensure that the 1mm~3mm test plate can also be used normally without leaving gaps between the test pieces as much as possible	
Display Method	LCD electronic display mode, touch type operation mode, movable, divided into four zones, respectively representing four layers, each layer has an independent reset button and automatic switching reverse action button, to achieve different timing methods	
control mode	PLC plus configuration control	
Display digits	0~99999.9min, Power off timing function	
Action mode	Adopt Swiss Sibo micro switch with wiring	
Machine color	Blue (customized with a template)	
Action accessories	304 stainless steel	
manufacturing process	Laser cutting, CNC bending, CNC punching and other processes	
Power Supply	220v 50~60HZ	

HMUS33 Friction coefficient tester

Purpose

The friction coefficient meter is specialized in measuring the static and dynamic friction coefficients of plastic films and sheets, paper, rubber, woven bags, cardboard, fabric styles, conveyor belts, metal composite tapes for communication cables and optical cables, coatings, wood, brake pads, shoe materials, wiper blades, tires, and other materials when sliding. By measuring the smoothness of materials, it is possible to control and adjust the production quality and process indicators of materials to meet product usage requirements. It can also be used for measuring the smoothness of daily chemical products such as eye drops and cosmetics.



technical parameter

index	parameter
range	5N (standard configuration); 10N, 30N, 50N, 100N (optional)
Accuracy class	Level 0.5
trip	300mm
Slider mass	200g (standard), other quality customizable
Test speed	100mm/min (national standard), 150mm/min (American standard), 0.01~500mm/min arbitrary settings
Sample thickness	0~10mm
Power Supply	AC 220V 50HZ/60HZ
Overall dimensions	620mm(L)x 300 mm(W)x 220 mm(H)
Approximate net weight	35kg
Standard configuration	Host, embedded software, micro printer, 200g slider
Options	Professional software, communication cable, 500g non-standard slider, non-standard force value sensor

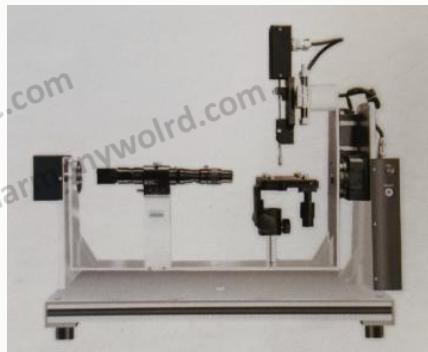
HM100/HM350 Water droplet angle tester

Purpose

This instrument is mainly used to measure the wettability of liquids to solids. By measuring the contact angle of liquids to the surrounding body, calculating, and measuring the free energy of liquids, that is, the adhesion, tension, and other indicators of liquids to solids, it can be widely used in the fields of petroleum, chemical engineering, medicine, paper making, film, and other fields for scientific research and teaching.



HM100



HM350

technical parameter

Product model	HM100	HM350
Overall dimensions	360mm*650mm*500mm(L*W*H)	750mm*408mm*695mm(L*W*H)
weight	28K	30.5KG
Power Supply	220V160HZ	
light source	Dense LED adjustable blue tone industrial grade cold light source	
life	The service life reaches over twenty-five thousand hours	
Dropper	Software controlled automatic liquid feeding with accuracy up to 0.01 uL	
Injection unit movement	Front and rear 80mm (fine adjustment 3mm)	50mm up and down; 50mm left and right
CCD	SONY original imported high-speed industrial grade chip, 25 frames/S, 130W pixels (upgradable camera frame rate)	
camera lens	0.7-4.5x high-definition industrial grade continuous zoom microscope	
Acquisition system adjustment	Front and rear 100mm (3mm fine adjustment), adjustable viewing angle (multiple viewing angles such as head up, top down, 360 ° rotation, etc.)	
Dimension of worktable	100mm x120mm	120mm*150mm
Sample stage movement	Moving forward and backward manually, with a stroke of 60mm and an accuracy of 0.1mm. Moving around manually, with a stroke of 35mm and an accuracy of 0.1mm, moving up and down manually, with a stroke of 80mm and an accuracy of 0.1mm	
Integral tilting platform	The inclination range is 90 °, the inclination accuracy is 0.01 °, and the inclination rate is adjustable	
Contact angle measurement range	0-180°	
Contact angle measurement accuracy	±0.1°	
Test droplet status	Fowks method, OWRK method, Zisman Plot method, EOS method	Pendant Drop, Session Drop (213 state bubble trapping method, seat drop method, seat needle method)

HMUS30 High speed peeling force testing machine

Purpose

HMUS30 machine is designed for 90 ° ~180 ° peel test, with adjustable angle characteristics, fast response time, fast and stable operation speed, true and stable data, and convenient operation. It is widely used in industries such as adhesive tape, adhesive, protective film, polymer, and chemical industry.



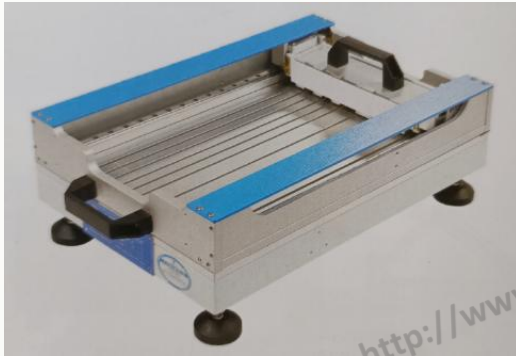
technical parameter

Capacity selection	5N、10N、20N、50N、100N、200N、500N(Optional dual capacity to meet large range testing)
monitor	Computer display mode
Force resolution	1/500000
Force accuracy	0.03%
Travel resolution	1/500000
Data acquisition speed	1000HZ
control mode	Full computer operation mode
Test stroke	600mm(Customizable)
Test width	50mm (Customizable)
Test speed	0.001-30000mm/min Can be set to achieve the highest speed within 0.15S, without the need to make excessively long samples
Power unit conversion	kgf, N, lbf, g,ton, Mpa
Shutdown mode	Overload shutdown, emergency stop key, automatic shutdown for specimen damage, automatic shutdown for upper and lower limit setting, and automatic reset function
Machine size	130*50*86cm(WxDxH)
Machine power	The machine is powered by an AC servo motor, and the motion components are composed of ball screws and high-precision sliding rails
power	400W
machine weight	About 55kg
Using electricity	220V 50/60HZ3A
Standard configuration	Standard configuration: 1 set of clamps, computer software, and computer wiring;
choose	computer

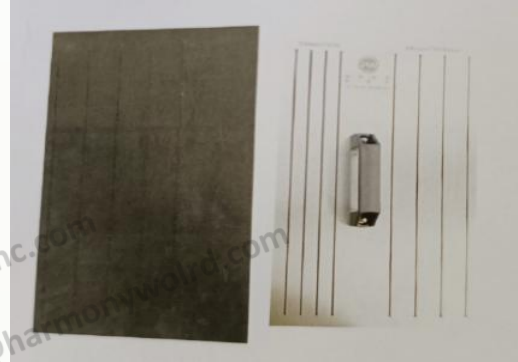
HMCK247 Sample cutter

Purpose

The HMCK247 manual sampler is mainly suitable for standard sampling of products such as adhesive tape, protective film, release film, etc. It is easy to operate and free of sample slipping, thickness limitation, compact structure, and screw looseness.



Sample cutter



Sample taking

technical parameter

Company	mm
Sampling thickness	≤3mm
Sampling width	15mm, 24mm, 25mm, 25.4mm (customizable)
Sampling length	300mm
Sampling quantity	7 per group (customizable)
Sampling accuracy	±0.1mm
Overall dimensions	470*285*155MM
weight	8KG

HM8802 DElectric roller /HM8802 Manual roller compaction

Purpose

It is suitable for the preparation of test pieces for adhesive tape peeling force, adhesion retention, and other tests. Using the weight of the roller itself, it automatically moves back and forth to make the test piece fully adhere to the test plate, serving as a preliminary preparation for adhesion retention and peeling force.



Product model	HM8802D
Number of rollers	2 groups
Roller weight	2000g
Rubber cover thickness	6mm
Rubber hardness	80° 5° (shoreA)
Rolling speed	600mm/min
trip	200mm
Machine size	62x36x25(WxDxH)cm

HMPR4/HMPR6/HMPR9 Electric rolling wheel HM8802DZ High speed rolling wheel

Purpose

The electric rolling roller is suitable for preparing test pieces for adhesive tape peeling force, adhesion holding, and other tests. Using the weight of the roller itself, the test piece can be fully attached to the test plate for adhesion holding force and peeling force. The speed can be set arbitrarily within the specified range, with a large number of groups, and high efficiency.



HMPR4/HMPR6/HMPR9 Electric rolling wheel



HM8802DZ High speed rolling wheel

technical parameter

Product model	HMPR4/HMPR6/HMPR9	HM8802DZ
Display Method	Touch screen control, LCD display	
Rolling wheel weight	2kg (customizable to 4KG or other weights)	
Rolling speed	0.1~600MM/MIN, independent 300MM and 600MM buttons	0.1~10000mm/min, 8-segment speed optional
Rolling stroke	2-9 sets of steel plates can be purchased as required	
Test function	Can arbitrarily set each section of travel and return, can arbitrarily set the number of rolling times, full touch operation	Can arbitrarily set each stroke and return, can arbitrarily set the number of rolling operations, full touch operation, can polish the mirror test steel plate to reduce test costs
Rolling wheel width	45mm	
Distance between two rolling wheels	70mm	
Effective stroke	Depending on the number of rolled sample groups	
Test speed error	0.1%	
Hardness of surface coated rubber	80° ±5	
Action mode	Rolling from left to right	
Drive mode	Micro servo motor with arc tooth synchronous wheel drive, fast and stable response	
Power supply power	400W 220V 3A	

HMSAFT Series of tape shear failure temperature tester

Purpose

By controlling the heating rate of the oven, the time and temperature point used for the adhesive tape specimen to sustain adhesion failure are measured, and the shear failure temperature is calculated.



HMSAFT10



HMSAFT20



HMSAFT30

technical parameter

Product model	HMSAFT10	HMSAFT20	HMSAFT30
Number of test groups	10 groups	20 groups	30 groups
0.1° C	0.1° C		
Test area	24 mmX24 mm		
Test plate	Length: 72mm, width: 50mm		
Test load	1KG or 0.5KG, 10 sets in total	1KG or 0.5KG, 20 sets in total	1KG or 0.5KG, 30 sets in total
Temperature uniformity	±1° C		
Temperature control system	Touch screen type, can set time, temperature, speed, and can set different temperature range program testing methods		
temperature range	Normal temperature - 200C (can be set according to demand)		
Interior material	Internal 304 stainless steel, external advanced powder spraying treatment		
Power Supply	220V 2KW	380V 3KW	380V 5KW
Machine size	100*57*90cm	138*60*92cm	

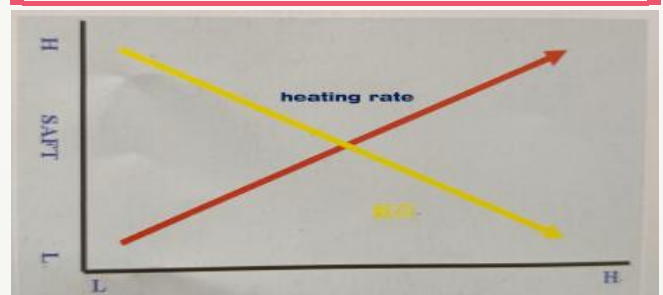
Executive standards

GB/T 36794-2018

Test principle

By controlling the heating rate of the oven, the time taken for the adhesive tape specimen to sustain adhesion failure is measured, and the shear failure temperature is calculated

SAFT terminology analysis: When a specimen is loaded with a certain standard mass, the upper limit temperature that the adhesive region can withstand when shear failure occurs is the shear failure temperature SAFT



HMCO Series Precision Oven

Purpose

The oven provides a stable and reliable temperature environment for testing space required by physical and chemical changes such as preheating, drying, and qualitative changes for various materials. It can be widely used in industries such as rubber and plastics, adhesive tapes, food pharmaceuticals, and daily chemical industries.



technical parameter

model	HMCO72-T2	HMCO150-T2	HMCO270-T2
Inner box size	40x40x45	50x50x60	60x90x50
(length x width x height) mm	Normal temperature+5 ° C~200C (customizable at 300C and 500 ° C)		
Temperature range	± 1%(1C)At-room 100C		
Distribution accuracy	P.1. D Automatic temperature calculation		
control mode	Hot air circulation system		
Heating method	0.1C unit display		
Temperature analysis	Interior SUS # 304 stainless steel, exterior high-grade baking paint		
Manufacturing material	Dual overtemperature protection and 2 ceiling panels		
enclosure	0~9999 hours (minutes) power failure memory type		
Time setting;	Independent overtemperature protection, safety overload switch		
safeguard	220V50HZ/60HZ		

HMCTH10040 Humidity Chamber

Purpose

The constant temperature and humidity test chamber is mainly used to test the performance of products under high temperature, low temperature, and continuous alternating humidity and heat environments.

Energy saving fund



Standard



technical parameter

model	CTH-80-4 0T	CTH-100- 40T	CTH-150-40T	CTH-225-40T	CTH-408-40T	CTH-800-40T	TCTH-1000-40T
Internal volume (L)	80	100	150	225	408	800	1000
Studio (length*height* width cm)	40x50x40	50x50x40	50x60x50	60x75x50	60x85x80	100x100x80	100x100x100
temperature range	± -40C~150C						
Humidity range	± 20-98%R.H						
Temperature uniformity	± 1.5° C						
Temperature fluctuation	± 0.5C						
Humidity uniformity	3%R.H						
Humidity fluctuation	0.5%R.H						
heating rate	About 3.0C/min						
cooling rate	About 1.0C/min						
heater	Flake type stainless steel heater						
Humidifier	Stainless steel humidifier						
Fan	Centrifugal fan						
Refrigeration mode	Single stage refrigeration				Two-stage refrigeration		
Cooling method	Air cooled or water cooled						
Refrigeration compressor	Totally enclosed compressor imported from France Taikang						
Refrigeration heat exchanger	Fin type heat exchanger Stainless steel brazed plate heat exchanger						
cryogen	Environmental friendly refrigerant R404+R23						
Operation interface	Touch screen LCD display						
operation	Fixed value+program control operation convertible						
Program memory capacity	10 program groups and 100 program segments						
resolving power	Temperature 0.1C; Humidity 0.1% R.H						
Input Method	Platinum thermistor PT-100						
control mode	PID control mode						
Communication method	RS232						
Ancillary Functions	Upper and lower limit alarm, alarm display (fault reason)						
Water supply mode	Circulating water supply						
Water supply tank	Built-in manual water tank						
Water quality requirements	Resistivity>5009, m						
Power Supply	AC 220V; AC 380V						
Protector	Leakage protector, dry burning prevention device, overtemperature protection, water system protection, overheating and overload protection devices						
Alarm mode	Indicator light, sound						

HMCTS210055A Air cooled two box cold and thermal shock test chamber

Purpose

The air-cooled two box cold and thermal shock test chamber can be used to test the endurance of material structures or composites under the continuous environment of extremely high and low temperature in a moment, so as to test the chemical changes or physical injuries caused by thermal expansion in the shortest time. Applicable objects include metals, plastics, rubber, electronics. Such materials can be used as a basis or reference for product improvement.



technical parameter

model	HMCTS210055A
Inner box size	W650 x H350 x D450 mm 1100mmx2000mmx2000mm(W*H*D)
Outer box size	Forced air device valve
Damper Device	SUS #304 stainless steel
Inner and outer box materials	Stainless steel grid
Test grid disk	Cascade refrigeration
Refrigeration system	air-cooled
Cooling method	10C~35C
Operating ambient temperature	+60C~+200° C
Preheat temperature	-10C~-70° C
Precooling temperature	+60C~+150° C
High temperature shock temperature	-10° C~55° C
Low temperature impact temperature	30S
Temperature conversion time	±2.00° C within
Temperature distribution uniformity	A 2.5, B 2.5, C 5, D 5, E 5, F 5, G 10
Simulated load (KG)	Rt°C~+150°C/5MIN
High temperature impact 3 boxes	Rt°C~-65°C/5MIN
Low temperature impact 3 boxes	-40° C~+150C/5MIN
High temperature impact 2 boxes	+150° C~-65° C/5MIN
Low temperature impact 2 boxes	Special funds for cold punching
controller	0.01° C
resolving power	AC 3Ψ380V,50Hz

HMCX1800B Air cooled gas lamp aging test chamber



Purpose

The air-cooled incandescent lamp aging test box can be used for artificial aging tests under simulated sunlight on various automotive interiors, plastics, paints, coatings, electronic meters, textiles, printing and dyeing, dyes, decorative materials, wood flooring, safety helmets, leather, petrochemical, rubber, and other industrial materials, as well as color fastness tests to light, climate, and light perspiration. By setting conditions such as the irradiation energy, temperature, and alternating light and shade of the gas lamp in the test chamber, the simulated natural environment required by the standard is provided to test the performance changes of materials such as fading, aging, softening, hardening, and cracking.



technical parameter

model	HMCX1800B
Studio size	320x350x320(DxWxH)mm
Overall dimensions	580mm x 600mm x 650mm (D x W x H)
Lamp wattage	1.8KW(Air cooled imported long arc gas lamp)
Lamp Lifetime	Light up for 1200 hours
Energy control point	@340nm、@420nm、@300~400nm 或@300~800nm
(When ordering, standing on tiptoe indicates that you need to choose one of the following sections.)	0.25~0.38W/m2@340nm 0.45-0.71W/m2@420nm 20~51W/m2@300~400nm 500~650W/m2@300~800nm
Irradiation intensity	Built-in solar eye, radiation closed-loop monitoring, PID automatic adjustment
(When ordering, it is required to choose one strength)	Special combination of glass filters to simulate different environments
Irradiation regulation	38~89 ° C (adjustable)
filter	± 2℃
Blackboard temperature range	± 3℃
Temperature fluctuation	No humidity
Temperature uniformity	No spray
Humidity display	Flat type 290mmx315mm
Spray system	Testable standard finished parts or three-dimensional space test pieces
Sample tray	0~9999H cycle setting
Sample capacity	1 piece

HMCX6500B Water cooled lamp aging test chamber

Purpose

Used for artificial aging tests under simulated sunlight, light fastness, climate fastness, light and sweat resistance tests on various automotive interior materials, plastics, paints, coatings, electronic meters, textiles, printing and dyeing, dyes, decorative materials, wood floors, safety helmets, leather, petrochemical, rubber, and other industrial materials. By setting conditions such as irradiation energy, temperature, humidity, spraying, and alternating light and dark in the test chamber, the simulated natural environment required by the standard is provided to test the performance changes of materials such as fading, aging, softening, hardening, and cracking.



technical parameter

Inner box size	760 * 760 * 760 mm (DxWxH)
Overall dimensions	1050mmx1270mmx2100mm (DxWxH)
Lamp life	>1500 hours
Supporting lamp power supply	High reliability professional self-developed electronic intelligent starting power supply, ultra-stable operation. Lighting efficiency is more than 95% higher than other manufacturers
Lamp wattage	6.5KW
Lamp Quantity	1 original imported
Internal and external filters	Dual special glass filters, different combinations to simulate different environments (Type A daylight type or Type B window glass type)
Energy control point	@340 nm, @ 420 nm, @ 300~400 nm, or @ 280~800 nm
Irradiation intensity	@340nm, @ 420nm, @ 300-400nm, or @ 280-800nm
Four channel switchable control points	0.25~0.68W/ m2@340nm
Irradiation intensity adjustment	0.45W/m2~1.50W/ m2@420nm
Air temperature (HTC)	29W/m2~75W/ m2@300 ~400nm
Blackboard temperature (BPT)	450W/m2~1200W/ m2@280 ~800nm
Black Label Temperature (BST)	Built-in solar eye wireless optical fiber sensor, advanced high-tech closed-loop monitoring of radiation intensity, intelligent PID automatic adjustment
relative humidity	38~80C soil 3C (adjustable)
Temperature uniformity	40~100C soil 3C (adjustable)
Humidity uniformity	40~110C soil 3C (adjustable)
Blackboard and black label positions	Photocycle 10~75% RH; Dark circulation 45~100% RH
Sample holder	Soil 3 ° C
Sample holder type	Soil 5% RH
Number of sample clips	The black label on the blackboard and the sample holder should be rotated 360 degrees around the center of the lamp tube at 1R/min on the same workstation, with a 3-layer sample holder to improve the consistency of all sample exposures
Effective exposure area	Hanging type sample holder, spring compression type test piece installation design, convenient for sample disassembly and assembly only by pressing the spring
Light/dark cycle	67 70 x 150mm standard templates, 25 for the middle layer, 21 for the upper and lower layers
Spray mode	6500cm2
Spray cycle	0~9999H adjustable

HMCUV40P UV aging test chamber

Purpose

The ultraviolet aging test chamber uses a fluorescent ultraviolet lamp as the light source to conduct accelerated weathering tests on materials by simulating ultraviolet radiation and condensation in natural sunlight to obtain the results of the material's weathering resistance. This machine is used for testing the aging phenomenon of non-metallic materials and organic materials (such as paints, paints, rubber, plastics, and their products) under changes in climatic conditions such as sunlight, humidity, temperature, and condensation. Discoloration and discoloration can be obtained in a short time.



technical parameter

Studio size	About H1550mm x W1350mm x D510mm
temperature range	RT+10° C~70°C
Humidity range	30%~95%RH
temperature resolution	1°C
Temperature and humidity control method	Balanced temperature and humidity regulation
Light temperature range	50C-70C
Condensation temperature range	40C~60C
Blackboard temperature	30~80C
light source	A total of 8 imported light sources from QLAB in the United States;
UV fluorescent lamp	UVA-340
Radiant intensity	Adjustable within 1.0W/cm2 (irradiation meter needs to be optional)
Distance between sample and lamp	50±2mm
Center distance between lamp tubes	70mm
UV lamp wavelength	280~400nm
Effective irradiation area	900x(WxH)210mm
Standard sample holder	75x150x 1.5mm
Box material	SU304 # stainless steel
temperature control	PID self-tuning temperature control mode
Standard specimen size	50x125mm
weight	About 100kg
Power Supply	220V ± 5%, single-phase three-wire, 20A50Hz

HMTB100 coating testing machine/HMUC200 heating continuous coating machine

Purpose

All the small coating testing machines used for experiments use imported accessories, and their prices are cheap. They are favored by many multinational enterprise research and development institutions, as well as many well-known universities and research institutions at home and abroad. Control the speed and stable pressure to ensure the coating effect and ensure the uniformity and stability of the coating.



technical parameter

model	HMTB100	HMUC200
Control system	5-inch PLC touch screen	Manual operation
Coating thickness	0.005-3mm wet film	From 1mil to 60mil, 25g/M2 to 1500g/M ²
Coating accuracy	±0.0025mm	±0.0025mm
Coating speed	0-10m/min (digits can be preset)	manual control
length	Digital presets	Infinite length
Coated format	300 * 450mm (additional customization is also available if you want to increase the width)	300mm (additional customization is also available if you want to increase the width)
heating temperature	Normal temperature~160 degrees (constant temperature setting)	
Coating method	Alternate use of scraper/wire rod	Roller
Scraper material	Scraper made of hard alloy material (easy to disassemble and clean)	Aluminum material (customizable according to demand)
weight	55KG	25KG

HMROHS 2.0 Tester

Purpose

On June 4, 2015, the Official Journal of the European Union (OJ) issued the RoHS2.0 Revised Directive (EU) 2015/863, adding 4 phthalates to the RoHS2.0 restricted substances list on the basis of the original 6 substances of ROHS2.0 (lead, mercury, hexavalent chromium polyaluminium biphenyl, and polyaluminum diphenyl ether), and implementing it compulsorily from July 22, 2019. By now, the controlled substances of ROHS2.0 have reached 10.



Substance name	CAS NO.	Main applications in electronic and electrical equipment
Di (2-ethyl) phthalate	117-81-7	Mainly used as a plasticizer for PVC, PVC is used as an insulator in electronic and electrical equipment such as cables and wires A small amount of DEHP is used for other non polymer applications, such as ceramics in electronic products or electrolytes in capacitors
Hexyl) (DEHP)	85-68-7	Mainly used with other plasticizers in PVC components such as cables, sockets, pipes, shock absorbers, In addition, it is also used in some non polymer materials such as paint and glue.
Phthalic acid	84-74-2	Mainly used as a plasticizer in PVC flooring, it may be present in synthetic leather, textile coatings, PVC materials, printing inks, sealants, and adhesives in electronic and electrical equipment
Butyl Benzyl Ester (BBP)	84-69-5	As a plasticizer for PVC, it can be used as a substitute for DBP, as well as a plasticizer for cellulose resin, vinyl resin, nitrile rubber, and neoprene.

HMUL94VTM Thin film combustion resistance testing machine

UL94VTM-0, VTM-1, VTM-2 vertical combustion testing machine (application range: membrane materials or samples with distortion in V-0, V-1, V-2 vertical combustion tests).

The sample is 200 mm * 50 mm long, and a marking line is made along the length of 125 mm. It is wrapped around a circular rod with a diameter of 12.7 mm, and the upper end is firmly adhered with double-sided adhesive. Two groups of five pieces each have environmental adjustment: one group is at 23 °C, 50% RH for 48 hours, and the other group is at 70 °C for 168 hours. The grade that can be achieved by both groups of samples at the same time is the final grade of the sample. Method: Adjust the flame height by 20mm, apply the flame for 3S for the first time, anneal and record the burning time t1 with flame, and apply the flame for 3s for the second time. Anneal and record the 125mm mark and whether there are droplets igniting the degreased cotton underneath.



condition	VTM-0	VTM-1	VTM-2
T1 or t2 of each spline	≤ 10s	≤ 30s	≤ 30s
Total t1 and t2 of 5 splines	≤ 50s	≤ 250s	≤ 250s
T2 plus t3 for each spline	≤ 30s	≤ 60s	≤ 60s
Flame burning to fixture	NO	NO	NO
Defatted cotton ignition	NO	NO	YES

HMOCA432 Fully automatic image measuring instrument

Purpose

The full-automatic image measuring instrument is also known as the anime and the 2.5th dimension. In die cutting, precision electronics, wafer technology, cutting tools, plastics, precision parts, springs, stamping parts, connectors, molds, military industry, two-dimensional counting, drawing, engineering development, hardware and plastics, PCB boards, conductive rubber, powder metallurgy, screws, watch parts, mobile phones, pharmaceutical industry, optical fiber devices, automotive engineering, aerospace, colleges and universities Research institutes and other fields have extensive applications.



technical parameter

Overall dimensions (LWH) (mm)	794 * 963 * 1660 (excluding computer desk size)
Measurement range (LWH) (mm)	400*300*200
Weight (kg)	five hundred and forty
Weight bearing (kg)	twenty-five
X. Y-axis measurement accuracy (um)	3.0+L/200
Z-axis measurement accuracy (um)	5.0+L/200
Repetitive measurement accuracy (um)	≤3
X. Y-axis motion speed (mm/s)	0-300 adjustable
Z-axis motion speed (mm/s)	0-100 adjustable
Working distance of objective lens (mm)	ninety
System Platform	Win 10/64 bit operating system (requires resolution of 1600 * 900)
Power Supply	220V/50Hz/5A
work environment	Temperature 25 ± 2C, temperature change ≤ 2 °C/hr, humidity 30-80%

HMUPV01 Tearing film static voltage testing machine

Purpose

HMUPV01 The protective film tearing voltage tester is mainly used to measure the voltage value during protective film tearing.



technical parameter

Machine model	HMUPV01
Motion control mode	5-inch touch control
Voltage reading method	Infrared voltage tester digital display reading
Indicates the frequency of data updates	Once every 0.5 seconds
Test distance	30mm (between the measured and testing departments)
Test distance adjustment	Red LED focal type (focal distance of the light mark is 30mm)
Polarity representation	+Polarity polarity representation
Physical size	68x22x138mm(WxDxH)
Measuring speed	100-10000mm/min adjustable
Effective travel	500 mm
Test piece width	50mm
Shutdown method	Upper and lower limit safety settings, specimen breakpoint sensing
Motor driven	Delta servo motor+Delta servo driver
Machine transmission	Ball screw+linear guide rail
Machine power	400W
Machine size	1363mm (W) x420mm (D) x850mm (H)
Using the power supply	220V50Hz
Standard configuration	One set of fixtures, one power cord, and one manual

HMSAO Salt spray testing machine

Purpose

The SAO series salt spray test chamber produced by our company is designed to test the corrosion resistance of products made of various materials after corrosion treatment such as electroplating, anodizing, spraying, and rust prevention oil; In order to analyze and evaluate the test sample under specific environmental conditions.



technical parameter

SAO series models	SAO-108	SAO-270	SAO-480	SAO-800	SAO-1440	
Inner box size mm:	W	600	900	1200	1600	2000
	D	450	600	850	850	950
	H	400	500	500	550	600
Outer box size mm:	W	1130	1460	1900	2300	2700
	D	630	910	1150	1150	1350
	H	1070	1280	1500	1550	1600
Studio volume (L):	108	270	480	800	1440	
Salt water tank capacity (L):	15	25	90	90	120	
Laboratory temperature	(NSS) Test temperature: 35 °C ± 1 °C					
Saturation barrel temperature	(NSS) Test temperature: 47 °C ± 1 °C					
Brine temperature:	35°C ± 1°C					
Test fluid:	NSS: purified water+sodium chloride (pH 6.5-7.2)					
Compressed air pressure:	2kgf/cm ²	2kgf/cm ²	6kgf/cm ²	6kgf/cm ²	6kgf/cm ²	
Power Supply:	AC220V, 1 φ ,50HZ					

HMIR10K Falling ball impact energy absorption testing machine

Purpose

HMIR10K The falling ball impact energy absorption testing machine is a device that tests the impact force of a steel ball with a given diameter and mass freely falling on a sample at a specified height. It can also test the impact absorption of foam. The machine uses a high-frequency acquisition system to ensure its safety, reliability, and high measurement accuracy.



technical parameter

Drop distance of steel ball	0-800mm (height adjustable)
Steel ball weight	Customer Specified
Sensor capacity	Configure according to the weight and height of the ball dropped by the customer
Height control	Electric motor lifting
control mode	Full computer control
Software acquisition frequency	1000HZ
Steel ball release	Electromagnet automatic release (or other adsorption structures)
Induction device	Infrared fixed-point induction falling ball center distance
Center point adjustment	Adjustable front, rear, left, and right movement
Machine dimensions	500mm long * 300mm wide * 1400mm high
Machine weight	35kg
Using voltage	220V 100W

NDJ8S Digital Display Viscometer

The machine is widely used in the detection and control of fluid viscosity in oils, paints, coatings, pastes, textiles, food, pharmaceuticals, adhesives, cosmetics, and other fields.



547401 Millennial film tape thickness gauge



YHBII (H) laser particle counter

Product Features

This instrument is a handheld laser dust particle counter successfully developed by the company using a full body laser sensor. It can be connected to a PC computer data acquisition system for remote control, and can directly observe the test situation of the instrument. The test data can be analyzed and processed by a computer and saved as an Excel file. The technical indicators meet the requirements of the JJF1190-2008 verification regulation issued by the State Administration of Metrology. The entire machine features American microcomputer control and processing technology, semiconductor laser sensor technology, and imported air pump. It is characterized by multiple functions, high measurement accuracy, fast speed, portability, and simple operation.



Scope of application

The instrument can simultaneously measure the number of dust particles with multiple particle sizes in one sampling, and this product has been widely used in clean room testing in electronic manufacturing enterprises; On-site detection and leak detection of filters; It can monitor biosafety, HVAC systems, computer rooms, beverage packaging environments, production environments for pharmaceuticals and medical devices, clean operating rooms in hospitals, automotive spraying environments, production and scientific research departments such as microelectronics, biochemical products, food hygiene, fine chemicals, precision machinery, and aerospace. It is a HVAC and pharmaceutical enterprise and its supervisory and administrative departments that implement GMP specifications and select instruments for electronic production enterprises.

HM200 Haze transmittance tester

HM200 haze meter is suitable for one-stop measurement of haze and transmittance of transparent and translucent materials such as plastic, film, glass, LCD panel, touch screen, etc.



HMSVAT01 Steel velvet wear resistance testing machine

This machine is suitable for wear-resistant life testing of various surface spraying products and printed fonts. It has adjustable speed and intuitive display of speed during testing, and can set the number of tests; The test results are accurate and the operation is simple and easy.



SIMCO ST4 Surface resistance tester

It does not require switching and adjustment operations, and is placed on a measuring object to measure surface resistance such as conductive mats and conductive flooring wood. Measuring range head 1041012. The ST-4 surface resistance tester is most suitable for conservative management of conductive mats, floors, parts boxes, bags, and electrification prevention levels.



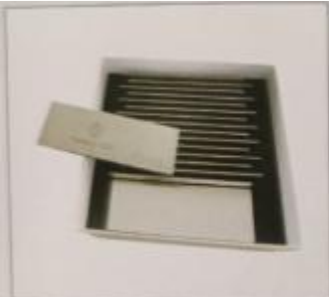




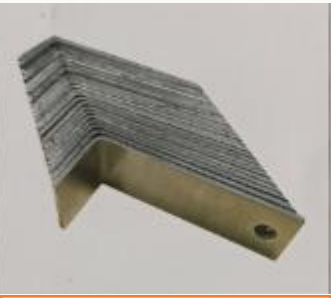

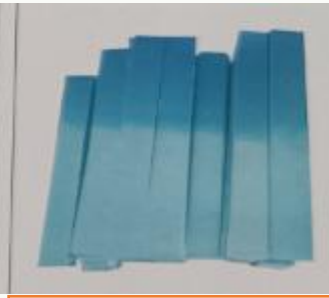







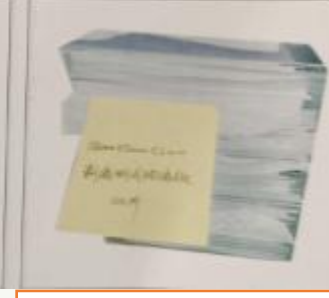
SIMCO FMX004 Static electricity tester













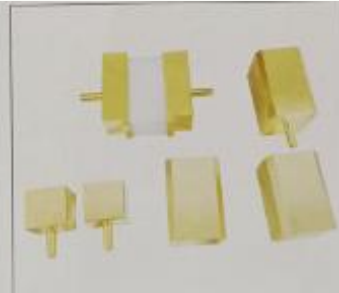





HMTRY200S urface roughness meter



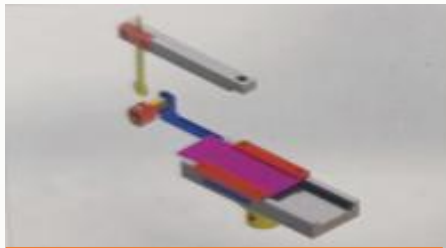
Common test consumables

			
HMP150 Mirror peeling steel plate	Chemistruments Test Steel Plate	HMPS150 Mist Peeled Steel Plate	HMSUS444 test steel plate
			
HMPC200 anti rebound PC test board	Customized 90 degree retention steel plate	HMAL150 aluminum test plate	HMAL200 anti rebound aluminum test plate
			
HMGLIPS/AL150 Peeling Force Test Board	HMPMMA/PVC/PP150T est board	HMPC75 Retention Force Test Board	HMPCABS/PE150 test board
			
HMKQ75 Paint Retention Test Board	HMP25 Holding Force Test Board	HMGL75 Glass Retention Force Test Board	HMGL150 glass test board

Common test consumables

			
HMPCT25T PC Test Board	HMGAL150 test board	HMAAL150 Anodic Aluminum Oxide Peeling Force Test Board	HMJQP100 shear test steel plate
			
HMJQP100PC Shear Force Test Board	HMT30 stripping block	TESA7475 Test Tape	Nito 31B test tape
			
Rubber wheel for pressing film	Residual release force pressing strip	HMC026 Micro Resistance Test Fixture	Initial adhesion steel ball
			
Stripping test board placement box	HM8802 manual rolling roller (4kg)	HMSAS sensor	HMLRM sensor

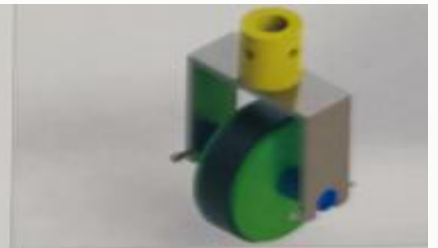
Common fixtures



90 ° peel force fixture



Two-point extension fixture



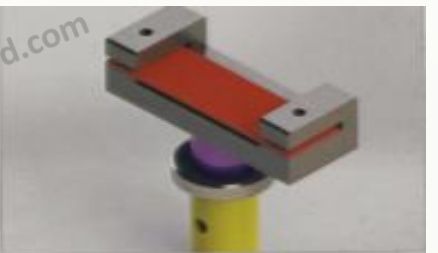
Unwinding force clamp



Pneumatic jig



Compression disk



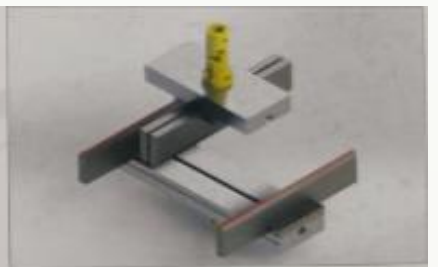
Annular initial adhesion fixture



Wedge clamp



Stretching jig



Four point bending fixture



Puncture jig



Three-point bending fixture



180 ° peel fixture