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PK Universal Material Testing Machine



















With over 19 YEARS of materials testing experience, company delivers impactful innovations to enable our users business to thrive. We are committed To delivering services which delight and usability improvements throughout the lifetime of the system.

Universal Testing Machine is a new material testing machine that combined with the electronic technology and mechanical transmission, it has accurate load speed, range of force measurement, Has high accuracy and sensitivity for the load, displacement measurement and control, it also can be tested the constant-velocity loading, constant-velocity displacement.



Own Factory

Located In WanJiang Guangdong province for 19 years



100+ Employees

Ahighly-educated, experienced, and diverse workforce



Representing 80 Countries, speaking 40+ languages



10,000+ systems installed worldwide



19+years of engineering and manufacturing test systems since 2000



Diverse product range for nearly all global markets and industries

SINGLE COLUMN UNIVERSAL TEST MACHINE

MODEL:HZ-1005B



Meet Test Standard

- ASTM D412
- ASTM D5587-15
- ASTM D624
- ATM D5035
- ASTM D5034
- ISO 9073-3
- ISO 9073-4
- ISO 9073-18
- ISO2062 etc.
- ISO 13934-1
- More standard required, please contact us

Partial Test Type

- Tensile Strength
- Compression
- 90° Peel Force
- 180° Peel Force
- Adhesive Strength
- Shear Strength
- Yarn Strength
- Hair Strength
- Fabric strength
- Elongation
- Etc

SPECIFICATIONS

HZ-1005B Touch screen UTM

Single Column Tabletop Models Available:

50N,100N,200N500N, 1kN, 2kN, 2.5KN,5KN Capacity(optional



Main Function

This Series machine can be applied to test lots of materials in Adhesive Tape peel (90 degrees and 180 degrees), tension, compression, tear, and other small mechanical test (within 5KN), such as rubber, tires, belt, shoes, plastic, film, acrylic, FRP, ABS, EVA, PU, aluminum-plastic pipe, composite materials, waterproof materials, fibers, textiles, wire and cable, paper, gold foil, ribbons, thread, spring, wood, medicine packaging materials, tapes etc.

Model	HZ-1005B						
Control Mode	Computer+software Control						
Maximum Load	50N,100N,200N, 500N, 1KN,2KN,2.5KN,5KN(optional)						
Accurate Grade	1 grade / 0.5 grade						
Effective Measuring Range	Force from 0.2% to 100% / from 0.4% to 100%						
Measuring Accuracy	the value ±1% / the value ±0.5%						
Load Sensor	Basic configuration sensor max load: one						
Effective Tensile Stoke	800mm (can be increased the tensile space according to customers requirement)						
Testing Speed	From 0.01 to 500mm/min						
Displacement Accuracy	olerance:±0.5% / tolerance: ±0.2%						
Safety	Electronic-limit protection						
Testing Olatform Moving Device	Fast / slow(two speeds to control),can jog						
Overload Protection	Overload 10%, automatic protection						
Machine Dimension	35x50x180cm (L*W*H)						
Motor	Japanese"Panasonic" or Taiwan Delta servo motor and drive						
Power Supply	220V , 50HZ or according to the requirement						
Power	0.4KW (depending on different demand of force, using different motor)						
Weight	About 180KG						

PKHZ Instrument

Advantage comparison

Another Instrument

Integration Aluminium Alloy Cover

Patented design, exclusive mold opening, beautiful and generous shape radian, solid and durable strength

Structure and Precision

Use stronger material, the average service life is 10-12 years, 0.5 LEVEL High precision certificate, New upgrade touch screen control, upgrade without price, more function.

Experience and After-sales Service

19 years of production experience, the boss is also a technical engineer,100 + professional technical personnel,Perfect aftersales service system, makes you look easy.





Patchwork Aluminium Alloy Cover

The same industry with aluminum alloy assembly, formalist appearance, the actual assembly has gaps, weak strength

Structure Comparison

Design

Manufactu ring Technique

Structure and Precision

Thin structure, large tonnage tension machine is not guaranteed, the workmanship is not exquisite, the test accuracy is less than 0.5, traditional digital display, operation is limited.

Experience and After-sales Service

Many companies do not have physical factories, or small companies, late start, lack of experience, can not provide perfect after-sales service



APPLICATION INDUSTRY

Different Industry

It is widely used in wire and cable, hardware, electronic and electrical equipment, packaging, printing, medical equipment, textiles and leather, clothing, shoes, rubber and plastic products, colleges and universities; research laboratories; inspection arbitration, technical supervision departments and many other industries, it is the basic equipment for quality management and physical tested.











Wire and Cable

Package

Printing









Mobile Phone

Water Bottle

Adhesive Tape

Film









Leather

Shoes

Fabric

University and Quality inspection institute

Real Picture

In stock



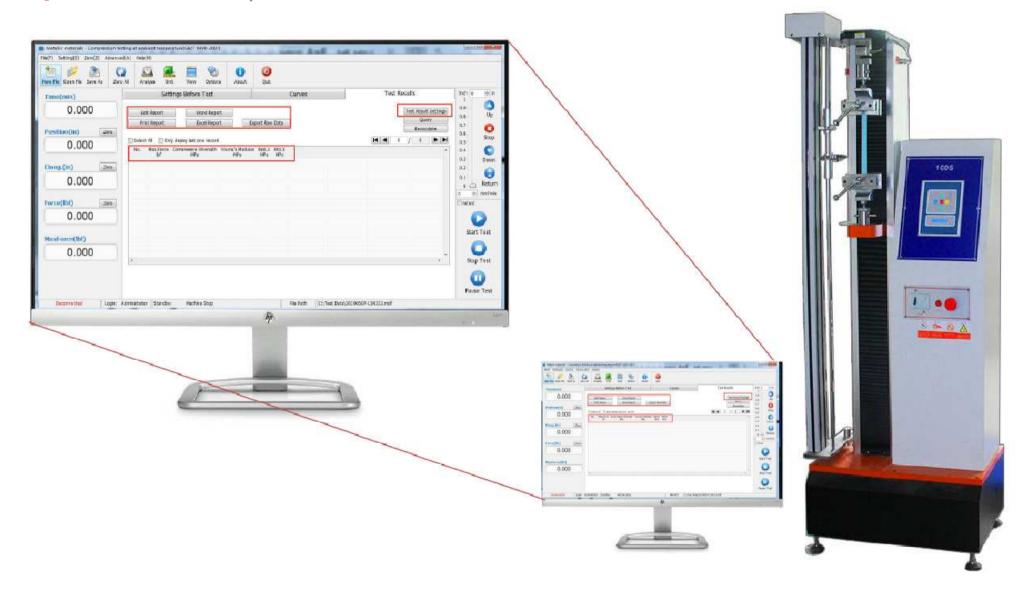


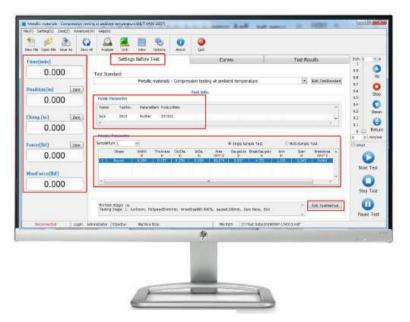


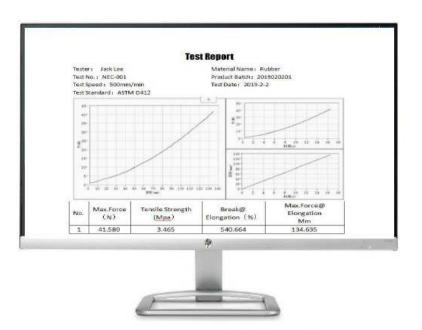


TEST SOFTWARE

RealTest Tensile/Compression/Shear/Etc

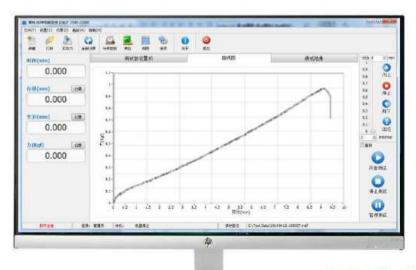






Software Main Interface

A computer software interface, display test data, setup method, sample size



Test Result

To show test information, including test person, test standard, test curve, test max load etc, can add your company LOGO and company name,easy to edit.

Test Curve

It will show the test data synchronously, and you can see the curve change during the test

PART OF NORMAL TEST TYPE

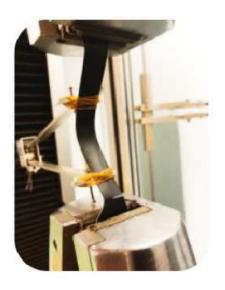
Testing Systems



Rubber Tensile Testing With Rubber Extensometer



90° Peel Testing For Adhesive Tape



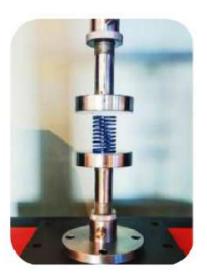
Metal Tensile Testing
With Metal Extensometer



180° Peel Testing
For Adhesive Tape



3 Point Bending Testing For Pills or other



Compression Testing For Spring



Tear Strength Testing For Shoes or Leather



Film Puncture Testing For Film

PART OF GRIPS

HZ-1005B



STANDARD SAMPLE

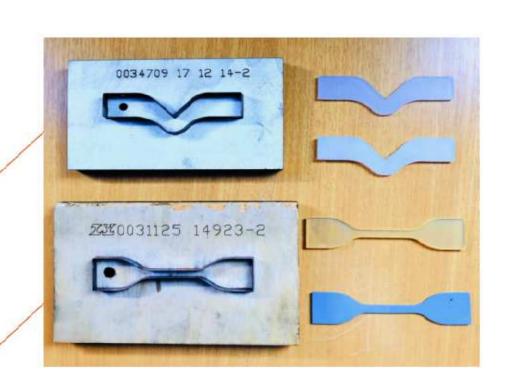
More Cutter Connect Us

ASTM D 638 Right-Angle (90°) sample

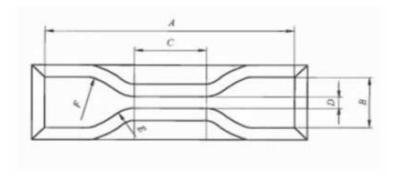
ASTM D 412, ISO 37 Dumbbell sample

ASTM D 638 Right-Angle (90") Cutter

ASTM D 412 ISO 37 Dumbbell Cutter



Dumbbell Cutter Size for Reference



Dimensions of Standard Dumbbell Dies (Metric Units)

Dimension	Units	Tolerance	Die A	Dic B	Die C	Die D	Die E	Die F
A	FTHIT	=1	25	25	25	16	16	16
В	mm	max	40	40	40	30	30	30
C	mm	min	140	140	115	100	125	125
D	mm	±6 ⁸	32	32	32	32	32	32
D-E	mm	= 1	13	13	13	13	13	13
F	mm	=2	38	38	19	19	38	38
G	mm	=1	14	14	14	14	14	14
H	mm	±2	25	25	25	16	16	16
L	mm	=2	59	59	33	33	59	59
W	mm	±0.05, -0.00	12	6	6	3	3	6
Z	EDITE	=1	13	13	13	13	13	13

[^] Dies whose dimensions are expressed in metric units are not exactly the same as dies whose dimensions are expressed in U.S. customary units. Dies dimensioned in metric units are intended for use with apparatus calibrated in metric units.

FIG. 2 a (continued)

Dimensions of Standard Dumbbell Dies^A (U.S. Customary Units)

Dimension	Units	Tolerance	Die A	Die B	Die C	Die D	Die E	Die F
A	in.	±0.04	11	1	1	0.62	0.62	0.62
В	in.	max	1.6	1.6	1.6	1.2	1.2	1.2
C	in.	min	5.5	5.5	4.5	4	5	5
D	in.	±0.25 ^B	1.25	1.25	1.25	1.25	1.25	1.25
D-E	in.	=0.04	0.5	0.5	0.5	0.5	0.5	0.5
F	in.	=0.08	1.5	1.5	0.75	0.75	1,5	1.5
G	in	±0.04	0.56	0.56	D.56	0.56	0.56	0.56
H	in.	±0.08	24	1	1	0.63	D.63	0.63
1	in.	±0.08	2.32	2.32	1.31	1.31	2.32	2.32
W	in.	=0.002, -0.000	0.500	0.250	0.250	0.125	D.125	0.250
Z	in.	±0.04	0.5	0.5	0.5	0.5	0.5	0.5

[^] Dies whose dimensions are expressed in metric units are not exactly the same as dies whose dimensions are expressed in U.S. customary units. ⁶ For dies used in clicking machines it is preferable that this tolerance by ±0.02 in.

^B For dies used in clicking machines it is preferable that this tolerance be ±0.5 mm.

ATTENTION TODETAIL

Confidence in your Result



Load Cell Construction

The highest quality mechanical and electrical components ensure the maximum level of performance, producing the most accurate results.



Load-string Alignment

Precision concentricity ring and alignment pins for base adapter and load cell, self-aligning grips, optional specimen centering device.



Machine Integrity

Preloaded ballscrews, precision guidance columns, symmetrical drive system, on-board diagnostics/real-time error checking, ISO 9001 accredited.

SUPPORT FOR THE LIFE OF YOUR EQUIPMENT

Our reliable testing systems can run 24 hours a day, 7 days a week, 365 days of the year. However, if something does go wrong, or you have a question, we offer a variety of resources to ensure you receive the assistance you need as soon as you need it.



You Can Count on Us

- · Represented in more than 80 countries, speaking 40 different languages
- Our on-site and laboratory calibration and verification processes are ISO 9001 accredited throughout China,
 North America, Brazil, Australia, China, Japan, Korea, Singapore, India, Thailand, and Taiwan



Enhanced Technical Support a "Touch" Away

- · Connect provides easy remote screen sharing and service request submissions to reduce support times
- . Connect allows simple test method and file transfers to keep systems up to date
- · Expert consultants provide tailored solutions and traditional hotline access
- Additional services like preventative maintenance, calibration, training, emergency repair, and service parts
 insure confidence that you can keep systems running and get date in a timely fashion



Stay at the Forefront of Materials Science

- . Training courses available on-site or in one of our Regional Training Centers
- Utilize our Applications Engineering Lab or Custom Solutions Group for the latest technological advances in materials testing
- Our state-of-the-art Calibration Laboratory offers a comprehensive range of accredited calibration and verification services complying with ASTM, ISO, and Nadcap standards for: force, speed, strain (extensometers), displacement, impact, temperature, torque, creep, strain gauge channel, alignment, and erification of all UTM instruments.