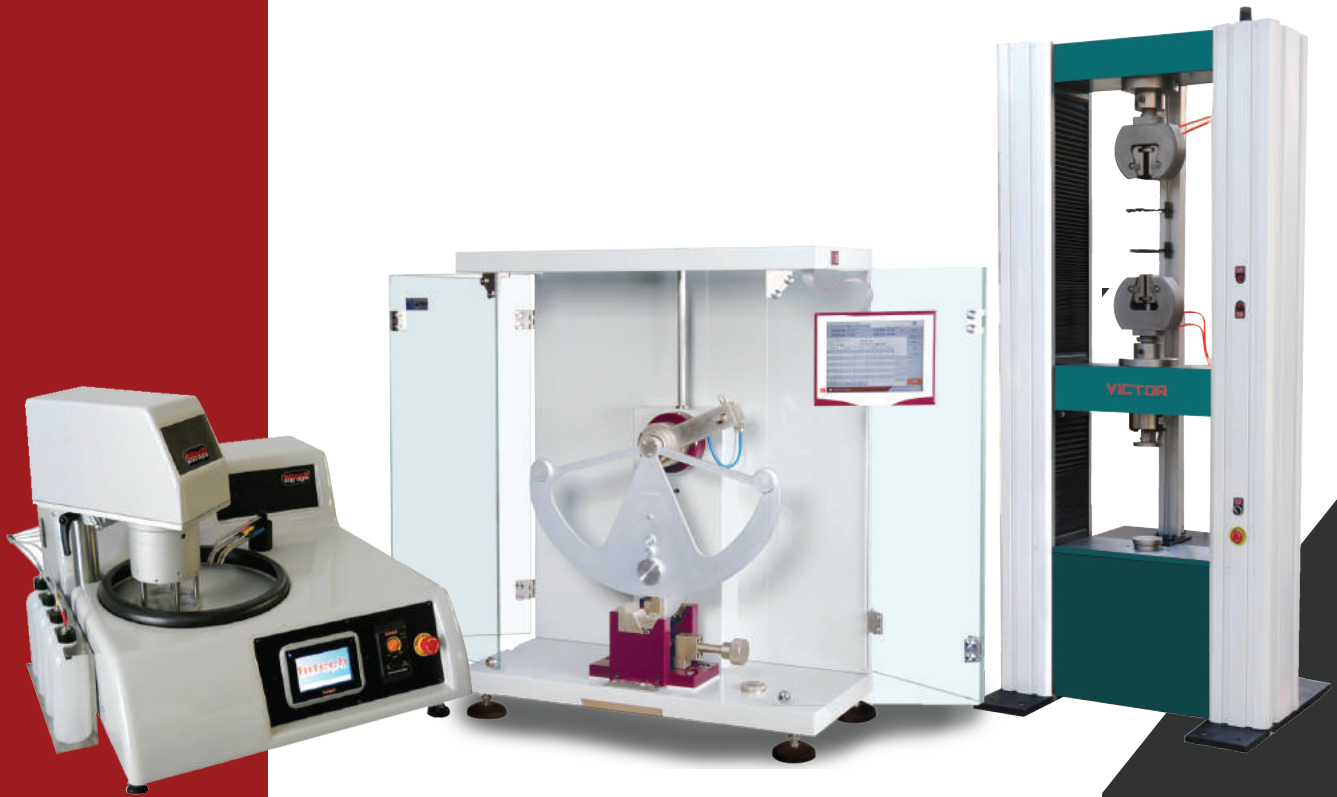


# VICTOR

Material Testing Equipments



## VICTOR MATERIAL TESTING EQUIPMENT

UNIVERSAL TESTING MACHINE  
PAPER & PACKAGING TESTING MACHINE  
PLASTIC & RUBBER TESTING MACHINE  
TEXTILE TESTING MACHINE  
FURNITURE TESTING MACHINE  
METALLOGRAPHIC SAMPLE PREPARATION  
METALLOGRAPHIC CONSUMABLES  
INDUSTRIAL LAPPING & POLISHING MACHINE  
COATING TEST EQUIPMENT

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## Universal Testing Machine

### Single Column Type

#### Load Frame:

- High rigidity frame designed to assure high resistance
- Movement of the movable crosshead obtained by pre-loaded ball screw to eliminate the backlash
- Working area easy to reach
- Servo Control system and High accuracy photoelectric encoder



Model	: VEW 260 Series
Load Accuracy(%)	: $\leq \pm 0.5$
Deformation accuracy (%)	: $\leq \pm 0.5$
Displacement resolution (mm)	: 0.001
Speed range (mm/min)	: 0.005-500/0.01-1000 (optional)



### Hydraulic Type

#### Load Frame:

- Rigid four-column & two-lead screw construction & compact design
- Dual workspace design: Upper for tension, peel tests, Lower for compression, bending and shearing test
- Moveable lower crosshead providing exceptional ease of operation.
- Accurate force measurement through accurate Load cell.
- Load cells can be changed according to different load ranges for making the measurement more accurate
- With open front hydraulic wedge grips for easy change of inserts and specimen loading
- Integrated displacement photoelectric encoder
- Cylinder mounted at the bottom of the machine

Model	: VAW 8000 Series
Max Capacity (kN)	: 50 ~ 200 kN
Load Accuracy	: $\leq \pm 0.5\%$ / $\leq \pm 0.1\%$
Adjusting speed for	
Test space (mm/min)	: 0~200 mm/min
Test Speed	: 0 ~50mm/min



### Floor Type

#### Load Frame:

The purpose of design load frame & double columns is to ensure safety, reduce operator fatigue, and provide the highest level of flexibility. Concretely, it features as following:

High accuracy: the preloaded precision ball-screw ensures high speed and position measurement accuracy. A built-in scale on the frame indicated the crosshead position for verification of normal strain testing.

Safety features: mount with the upper and lower limit switches, the testing machine stops automatically when the change in the test force exceeds a specified value during operations

Large space in the working area: the insides of columns provide wide space for the operator.  
Over-stroke limiter: the range of the crosshead movement mechanically limited.

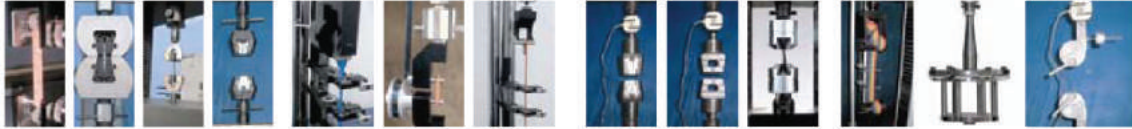
Comfortable working area: the wide legroom under the load unit provides a comfortable working area for attaching and removing jigs.



Model	: VEW 2302 Series
Max Load (kN)	: 50 ~600 kN
Load Accuracy(%)	: $\leq \pm 0.5$
Deformation accuracy (%)	: $\leq \pm 0.5$
Displacement resolution (mm)	: 0.001
Speed range (mm/min)	: 0.005-500/0.01-1000 (optional)

## Universal Testing Machine

### Test Grips



Grips for rubber  
long travel extensometer

Pneumatic and  
Hydraulic Grips

Safety  
Belt Test

Geotextile  
punch test

Snubbing  
grips



Compression  
test

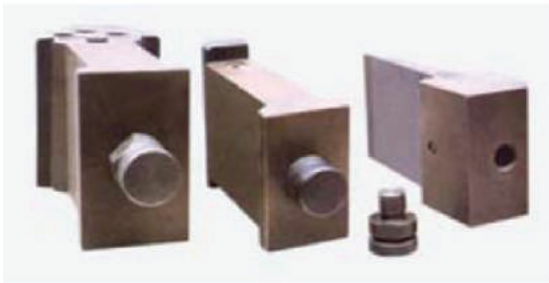
Shear  
test

Mouth  
open test

Strand  
test

Brinell  
hardness test

Chain  
tensile  
test



Cold bend test



Bolt tensile test

### Furnace and Climatic Chamber



Testing machine with furnace

### Extensometer



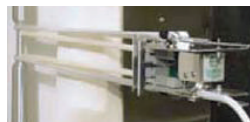
Long Travel  
Extensometer



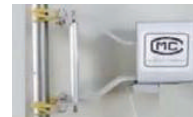
Axial Extensometer



Transverse and Axial Extensometer



High Temp. Extensometer



Extensometer for  
Round Specimen



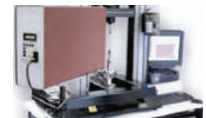
R & N Value  
Extensometer



Video Extensometer



Extensometer for  
Flat Specimen



Laser Extensometer



Full Automatic  
Extensometer



Chamber



Chamber



Furnace



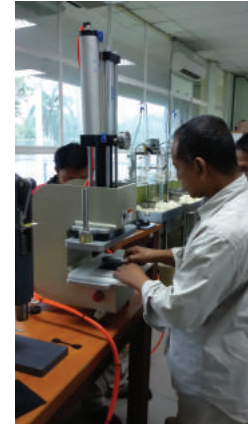
## VAP600A Pneumatic Specimen Press VAP 600B Air-Hydro Specimen Punch



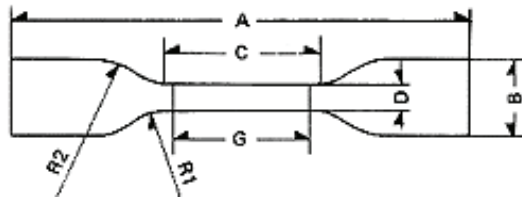
This product is able to coordinate with various cutters to cut material to achieve particular shape.

Model	VAP 600A	VAP 600B
Material	Soft rubber(shore A under 90 degree), leather	Rigid plastic (Shore A above 90 degree), fabric
Compression Platen Size	Upper platen: 145 mm (rectangle platen for option) Lower platen: 260 x 230 mm	Upper platen: 35 x 16 cm Lower platen: 35 x 18 cm
Stroke	103 mm	20 mm
Output force	About 900 kg	3000 kg
Power supply	Pneumatic (excluding compressor) 4 ~ 6 kg/cm <sup>2</sup>	Pneumatic (excluding compressor) 3 ~ 9 kg/cm <sup>2</sup>
Optional Feature	Cutter, Large platen 130MMX280MM for option 1. easy to operate, power-saving, time-saving 2. Dual switches to increase safety factor	
Dimension	35 x 42 x 63 cm	42x45x105 cm
Weight	55 kg	80 kg

Cutter type: (Optional)  
Dumbbells type



## Tensile Test



ASTM								
D-412	A	140	25 ± 1	59 ± 2	12 +0.05/-0	50 ± 0.5	14 ± 1	25 ± 2
D-412	B	140	25 ± 1	59 ± 2	6 + 0.05/-0	50 ± 0.5	14 ± 1	25 ± 2
D-412	C	115	25 ± 1	33 ± 2	6 + 0.05/-0	25 ± 0.25	14 ± 1	25 ± 2
D-412	D	100	16 ± 1	33 ± 2	3 + 0.05/-0	25 ± 0.25	14 ± 1	16 ± 2
D-412	E	125	16 ± 1	59 ± 2	3 + 0.05/-0	50 ± 0.5	14 ± 1	16 ± 2
D-412	F	125	16 ± 1	59 ± 2	6 + 0.05/-0	50 ± 0.5	14 ± 1	16 ± 2
D-638	1	165	19 + 6.4/-0	57 ± 0.5	13 ± 0.5	50 ± 0.25	76 ± 1	0
D-638	2	183	19 + 6.4/-0	57 ± 0.5	6 ± 0.5	50 ± 0.25	76 ± 1	0
D-638	3	246	29 + 6.4/-0	57 ± 0.5	19 ± 0.5	50 ± 0.25	76 ± 1	0
D-638	4	115	19 + 6.4/-0	33 ± 0.5	6 ± 0.05	25 ± 0.13	14 ± 1	25 ± 1
D-638	5	63.5	9.53 +3.18/-0	9.53 ± 0.08	3.18 ± 0.03	7.62 ± 0.02	12.7 ± 0.08	0
D-1708		38.1	15.88 ± 0.051	22.25 ± 0.051	1.75 ± 0.051	22.25 ± 0.051	3.2 ± 0.051	
D-1882	L	63.5	9.53	9.53 ± 0.08	3.18 ± 0.03	0	12.7 ± 0.08	0 0 0
D-1882	S	63.5	9.53	0/12.7R	3.18 ± 0.03	0	12.7 ± 0.08	0

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Standard	Style	A	B	C	D	G	R1	R2
JIS								
K-5781								
K-6301	1	120	25	40	10 ±0.1	40 +2/-0	21	25
K-6301	2	100	25	20	10 ±0.1	20 +2/-0	21	25
K-6301	3	100	25	20	5 ±0.1	20 +2/-0	11	25
K-6301	4	100	15	20	5 ±0.1	20 +2/-0	40	0
K-6402		150	40	50	20	40	25	25
K-6550								
K-6730		115	25 ±1	33 ±2	6 +0.4/-0	25 ±1	14 ±0.5	25 ±2
K-6732		120	25	40	10	40 +2/-0	14	25±1
K-6734		120	25	40	10	40	21	25
K-6758		115	25 ±1	33 ±2	6 +0.4/-0	25 ±1	14 ±0.5	25 ±2
K-6760		115	25 ±1	33 ±2	6 +0.4/-0	25 ±1	14 ±0.5	25 ±2
K-6767		120	25	40	10 ±0.1	40 +2/0	21	25
K-6771	1	120	25	40	10	40	21	25
K-6771	3	100	25	20	5	20	11	25
K-6781		120	25	40	10	40	14	25
K-6871		175	20 ±0.5	60 ±0.5	10 ±0.5	50 ±0.5	60	0
K-7113	1	175	20 ±0.5	60 ±0.5	10 ±0.5	50 ±0.5	60	0
K-7113	2	115	25	33 ±2	6 +0.4/-0	25 ±1	14 ±1	25 ±2
Z-1702		120	25	40	10	40	14	25

DIN								
53504	S1	115	25	33	6	25	14	25
53504	S2	75	12.5	25	4	20	8	20
53504	S3	30	6	10	2	10	2.2	10
53504	S3A	50	8.5	15	4	10	10	10

BS								
2782	3	114	25	33	6+0.4/-0	25	14±.5	25±1
6746		75	12.5±1	25±1	4±.1	20±.1	8±.5	12.5±1

ISO/DIS								
3167A								

IEC								
540	50	50 -	8.5 ±1	17 ±1	4 ±0.1	10 ±0.1	7.5 ±0.5	10 ±1
540	75	75	12.5	25	4±.1	20±.1	8±.5	12.5

UL								
746A	A	140 -	25 ±1	59 ±2	12 +0.05/-0	50	14 ±1	25 ±2
746A	B	140 -	25 ±1	59 ±2	6 +0.05/-0	50	14 ±1	25 ±2
746A	C	115 -	25 ±1	33 ±2	6 +0.05/-0	25	14 ±1	25 ±2
746A	D	100 -	16 ±1	33 ±2	3 +0.05/-0	25	14 ±1	16 ±2
746A	E	125 -	16 ±1	59 ±2	3 +0.05/-0	50	14 ±1	16 ±2
746A	F	125 -	16 ±1	59 ±2	6 +0.05/-0	50.8	14 ±1	16 ±2
62, 87, 1	A	152.4	25.4 ±1	50.8±2	6.4 0.05/-0	50	22.2 ±1	25.4 ±2
JANAF								

## VAP600C Sample Cutting Device for Rigid sample



### Introduction

Knife-bar is adopted to cut rigid sample material. Fix sample on die and move the die edge to across the rotating knife-bar from right to left to trim the sample margin and obtain the sample with required dimension.

### Specification

1. Horse power: DC motor ; 600W
2. Cutting speed: high speed: 3600 rpm; low speed:1800 rpm
3. Minimum cutting R angle, R= 8 mm (Radius of cutter)
4. Specimen Thickness: 2~30mm
5. With one dumbbell shape cutter, customized shape is also acceptable but cannot be wider than 100mm and longer than 250mm.
6. With transparent protection cover.
7. With vacuum cleaner to keep it clean when operating
8. Equipped with track to increase the stability, safety and fluency
9. Fixing screws for grip to increase the stability when turning over
10. Power: 220V or 110V, single phase
11. Machine size: 47 × 40 × 45(H)cm

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## Charpy and Izod Pendulum Impact Tester

VICTOR's Charpy and Izod Impact tester is a high performance pendulum impact tester that precisely determines absorbed impact energy and resistance to breakage of metallic specimens. With the computer display, it can show test result and test curve in real time easily. Designed for determination of the impact energy as Charpy and Izod impact methods according to ATM E23, ISO, DIN, EN standards ; Innovative mechanical design features make these testing machine top contenders in the market the excellent price/quality ratio as well as high accuracy. Universities, automotive, and aero companies, research and R&D Labs, as well as steel plants are typical customers for these testing system.

### Metal



Model : VIR 300 Series  
Impact Energy : 150 ~ 800 J  
Impact velocity : 5.2, 5.4, 5.9 m/s  
Raise angle : 150°

### Non Metal



Model : VIR 50 Series  
Impact Energy : 0.5 ~ 50 J  
Impact velocity : 2.9 ~ 3.8 m/s



The machine is mainly used to cut standard notch of non-metal material. Such as plastics and organic glass, etc. it allows a perfect reproducibility of the notches, increase working efficiency and reduces the labor intensity



### UV Notch Cutter

The machine is designed for providing the specimens used in the impact testing tasks.

The machine cut notch which according to the "V" ASTM E23, ISO148 standards. "U" DIN50115 and ISO83 standards "Charpy Notch Impact Test Method for metal material" on the specimen for only one time. At the same time, it has advantages of high precision, long life, low noise and concise appearance etc.



## Melt Flow Indexer



### MELT FLOW INDEXER

This type of Melt Flow Indexer is a new and affordable tabletop instrument that tests the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of a wide range of thermoplastic raw materials (granulate). The tester conforms to all National and Internasional Melt Flow Resistance standard, including ISO1133, ASTM D1238 and GB/T 3862. Any temperature within 120°C-450°C (248°F-842°F) can be control accurately. This type of MFI has gained the CE certificate and has been sold all around the world.

### SPECIFICATION

Temperature range : 120°C~450°C  
Measuring range : MFR : (1g-100g) / 10min  
MVR: 0.01-350cm<sup>3</sup>/10min  
Temperature recovery time : <4min  
Temperature accuracy: <±0.2°C  
Timing accuracy : 0.01S

### CONNECTIONS

Electrical : 110/220V 50/60 Hz (Others Please Specify)

### APPLICATIONS

A wide range of thermoplastics.

### STANDARDS

GB/T3862-2000, ASTM D1238, BS2782, ISO1133 : 2005 method A&B

### INCLUDED WEIGHTS

2000g 8, 1640g 1, 1200g 1, 1000g 1, 960g 1, 875g 1, 600g 1

### EXCELLENCE

#### • AUTO CUTTING OFF FEATURE

The tester conforms to all National and Internasional melt flow resistance standards, including BS EN ISO 1133 ASTM D1238. Any temperature within 120°C-450°C (248°F-842°F) can be control accurately.

#### • EASY TO USE

The clear multi-line LCD display and tactile-feedback membrane keypad allow fast, accurate input of test parameters and provide continuous display of settings during testing.

#### • HIGH EFFICIENCY

Rise to the set temperature in less than 30 min, much quicker than the standard's requirement.



## HDT/VICAT Tester



VH 600 Series

### PARAMETERS

- Temperature controlling range : RT~300°C;
- Heating rate : 120°C/h, 50°C/h; Error of heating rate : less than  $\pm 1\%/6\text{min}$
- Max. temperature error :  $\pm 0.5^\circ\text{C}$
- Number of temperature measuring point : 6 ;
- Number of test station : 6 ;
- Thermal expansion coefficient of test stations : 0.005mm/100°C
- Deformation measuring device : digital gauge with communication interface ;

- Deformation measuring range : 0~5.0mm ;
- Span of sample support : 64mm, 100mm ;
- Max. deformation measuring error : 0.002mm ;
- Medium : methyl silicone oil ;
- Cooling method : natural cooling (medium temperature more than 150°C) water cooling or natural cooling (medium temperature less than 150°C)
- With upper temperature setting function, it will stop heating when the medium temperature reaches the setting value.
- Power supply : 7500VA 220VAC 50HZ

This tester is use to determine the Heat Deflection Temperature or the Vicat Softening Point. All the specimens are charged with a constant load and immersed in a bath, where the temperature is increased at a standard velocity.

The attained heat resistance rate of plastic material is a widely required parameter for product characterization, for quality control, as well as evaluating their conformity to the previewed applications.



## Hydrostatic Pressure Tester (VHPT 2010)



### Technical parameters

- Pressure : 0-16MPa;
- Pressure controlling Accuracy : -1%~+2%
- Display Accuracy of Pressure : 0.001MPa;
- Display Accuracy of Time : 1s
- The Temperature Range of the Water tank : 15°C~95°C;
- The Working Time of the Timer : 1s-10000h;
- The Interface of Pressure : 3,5,6,10
- Power Supply : Three phase 380V/220V

### Equipment Configurations

1. Pressure supply system;
2. Pressure and temperature control system;
3. Water tank;
4. End closures:

**Type A :** Ø10, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø75, Ø90, Ø110, Ø125, Ø140, Ø160, Ø180, Ø200  
**Type B :** Ø225, Ø250, Ø280, Ø315, Ø355, Ø400, Ø450, Ø500, Ø560, Ø630mm

## VP731 Foam Indentation Hardness Tester



Foam indentation hardness tester is a requirement under the standard size foam sample to the provisions of the sag, measured compressive strength foam trap generated power, the ability to use Newton said it related to the performance and materials, and equipment the force imposed on the sample size of equal and opposite, record the force value, the indentation hardness can be measured.

Model	VP731
Range of indentation hardness	0-12000.0N
Minimum resolution of force measurement	0.2N
Measurement error	< 1 %
Stable pressure head	Speed: 90mm/min

## VP402C Baking Tape Testing Machine (5 group type)



Open-type tape retention for tape adhesion testing machine made a static load test, load and temperature at a certain timing belt can automatically maintain the time, such as falling halfway, then record the time, to confirm the tape adhesive limitation, trial hold time of its stalemate.

Model	VP 402C
Load	1kg,5 group (or specified)
Determination group number	5 group ,can test separately
Automatic timer	1-999 , 999min (min.or sec settable)
Temperature controller	Room temperature -200 Centigrde degree,PID control
Temperature display	0.1 centigrade degree
Heating mode	Hot air Circulation
Safety devices	With over - temperature and electric overload protection Automatic power off facility
Machine material	Interior SUS # 304 stainless steel; external high steel paint handling
Inside size	50*35*45 cm
Weight	143kg
Power	AC220V 19.5A



## VP241 Tape Retention Testing Machine (10 groups)



Tape one end to the wheel rolling, so stick in the test plate, one end of the suspension provision of the weight, by some of the time, measuring tape down the distance, such as falling halfway, then record the time for assessing the stalemate to maintain force.

Model	VP241
Load	1kg,10wh
Determination of Numbers	10 groups,can test separately
Battery timer	1-999,999min
Dimension	45*20*63cm
Weight	32kg

## VP 724A Electric-Type Compression Molding Test Machine



Electric-type compression molding test machine (manual or electric), the pre-production sample test material placed on the membrane, pressed between the heating plates, according to settings of the temperature, pressure and time to test raw materials for forming, as a research or factory mass production basis. Electric heating plate test can choose to increase the number of specimens simultaneously tested three films.

Model	VP 724A
Form	Manual hydraulic
Maximum Capacity	10,30,50 ton (Choose one or special requirement)
Pressure Table	0~200 kg/sq. cm
Heating Schedule	Maximum 100 mm (Or according to customer specified)
Temperature	RT + 10 degree centigrade~300 degree centigrade
Heating Plate Size	about 300 * 300mm
Dimension(approx.)cm	42 * 45 * 120 cm
Set Timer	60 min
Weight(approx.) kgs	80kgs
Power	220V

## VP 703B Stereoplasm Plastic Hammer Drop Testing Machine



Drop hammer impact test machine adopts the free fall drop hammer impact test pieces, the process of rapid, immediate test results, observation of specimen broken situation and assess its impact resistance qualities.

Model	VAP 703B
Control	Electromagnetic control of down, and really make an impact
Test Height	0~2m
Drop Tube	Twin-tube, stainless steel, equipped with Windows can understand weight position (dual tube, two electromagnetic)
Test height settings	Motor drive, variable speed can be set arbitrarily high
Control box	Separate, upper and lower electromagnet security control, with safety warning device
Dimensions	Main engine:50*100*380cm Main control box:37*37*104cm
Power	AC220V, 5A
Safety devices	Try to install a safety net around the rack

## VP 730 Foam Resilience Tester



Applicable to the determination of flexible polyurethane foam rebound performance off the ball. The instrument by the quality of a given ball diameter and height of free fall in the provisions of foam samples, the calculation of the maximum ball height and ball rebound height ratio of the percentage drop, that resilience to rebound said foam rebound performance. This machine uses microprocessor control, LCD Chinese display, and can print the test data. This machine has the use of safe, reliable, measurement accuracy.

Model	VP730 Foam Resilience Tester
Steel ball falling from	460±0.5%mm(GB)500±0.5%mm(American standard)
Ball Diameter	16±0.05 mm
Precision ball drop resilience	<1.5%
Sample size	100 mm(L) ×100 mm(W)× 50mm(H)
Automatic calculation of the average rebound	
Automatic calculation of the average rebound rate	

## VR 307 DIN Abrasive Tester



The main function of DIN abrasive tester is to test the friction of surface by a particular piece of sandpaper, After friction for a certain time, and then assess the condition of material surface, weight, volume and thickness, from this standard to assess the abrasive nature of materials.

Model	VR 307
Test-arm weight	250 ± 5 (g).
Testing Load	2.5N, 7.5N.
Diameter abrasive wheel	dia 150 ± 450L (mm)
Emery cloth	60 #, 425 ± 473 ± 1.5 (mm).
Wheel Speed	40 ± 1RPM
Shift screw	6 teeth / inch.
Limit rotation	85 rotate.
Set rotation	84 rotate (about 40M).
Return form	Electric automatic reset.
Drive Power	40W; 1 / 30.
Power	220V 50HZ
Machine Dimensions	600 ± 330 ± 420 (mm).
Machine Weight	75kg.

## VR 705A Akron abrasion machine



Akron abrasion machine used to measure the wear resistance of vulcanized rubber, through the specimen and the wheel at a certain angle and under a certain load of friction, determination is within a certain mileage wear volume. Figures set to show wear the number, automatic shutdown, will host and electrical control design as a whole, using calibration wheel, handsome in appearance, easy operation, improved testing machine for the domestic-date.

Model	VR 705A
Strength of Rubber tire	26.7N
Speed of rubber wheel rotation	76±2r/min
Speed of wheel shaft speed	33~35r/min
Range of plastic axle and wheel axis angle	0°~45°
Power	AC220V±10%
Outside dimension	600 mm×480 mm×400 mm
Weight	60Kg
Attachment	A digital timer

## VR 2000R Mooney Viscometer 2 VR 2000MDR Computer Display Moving Die Rotor Rheometer



Mooney Viscometer viscosity for rubber vulcanization index determination. Sample in a certain temperature and pressure, the rotor to a certain degree of rotation torque on the sample to a certain degree of shear stress, measure out the rubber anti-shear torque. Is reclaimed rubber, rubber, wire and cable industry indispensable instrument.

Model	VR 2000R
Control temperature range	Normal temperature~200
Temperature display resolution	0.01°C (0.1°C common type of imported temperature controller temperature)
Temperature control accuracy	±0.3 °C
Calibration accuracy	Mooney value ±0.5
Rotor speed	2 rotation/ min ±0.02rotation/ min
Torque range	Mooney value 0 ~200
Torque resolution	Mooney value 0.1
Print content	Date, time, temperature, Mooney scorch curve and MV, T5, T35, T3, T18, @15, @30
Power	50HZ, ~220V±10 %

VR2000MDR type non-rotor rheometer is widely used tester in rubber processing industry, rubber quality control and basic research rubber, For optimize formula of rubber provide accurate data, It can accurately measure the scorch time, rheometer time, sulfide index, the maximum and minimum torque and other parameters.

Model	VR 2000MDR
Standard	GB/T16584 ISO6502
Temperature	room temperature to 200 Centigrade
Heating-up	15 Centigrade/min
Temperature fluctuation	≤ ±0.3 Centigrade
Temperature resolution	0.1 Centigrade
Torque range	0-5N.M, 0-10N.M, 0-20N.M
Torque resolution	0.001NM
Power:	50HZ, 220V±10%
Pressure	0.4Mpa
Air-pressure requirement	0.5Mpa-0.65Mpa (user prepare the dia 8 trachea)
Environment temperature	10 Centigrade -- 20 Centigrade
Humidity range	55~75%RH
Compressed air	0.35- 0.40Mpa
Swing frequency	100r/min(about 1.67HZ)
Swing angle	±0.5 Centigrade, ±1 Centigrade, ±3 Centigrade
Printing	Date, time, temperature, vulcanization curve, temperature curve, ML, MH, ts1, ts2, ts10, t50, Vc1, Vc2.

VIPAC is majoring in researching, manufacturing of packaging testing instruments and provide technical service for laboratory and industry. VIPAC always keeps step on the latest technology and commits to provide the most advanced products to our customers.

## VIP109C Paper and Cardboard Bursting Strength Tester



It is applicable to a various of single paper and thin cardboard and multi-layer corrugated cardboard, it is also used in silk, cotton and other non-paper products bursting strength test.

ISO2759, QB/T105, GB1539, GB/T 6545, GB/T 454

Items	Parameters
Measuring Range	50 ~ 6000Kpa/50~2000Kpa
Accuracy	1grade (resolution: 0.1 Kpa)
Value Accuracy	±0.5%F.S
Hydraulic System Leak	In the measurement of upper limit value, 1min pressure drop <10%Pmax
Dimension	700mmx400mmx550mm
Power Supply	AC 220V 50Hz

## VIP113A Crush Tester



High accuracy and intelligent instrument, designed according relevant standards. The advanced components, mating parts and micro-computer are logical structured, to ensure the property and appearance. The instrument has parameter testing, adjusting, computer screen display, memory, printing function.

Items	Parameters
Measuring Range	(5~5000)N
Resolution	1N
Error	±1%
Test Speed	(12.5 ± 2.5) mm/min
Platen Distance	0-75mm
Dimension	530mmx350mmx580mm
Weight	50Kg

## VIP104B Electronic Cardboard Puncture Tester



VIP104B Electronic cardboard puncture tester is the indispensable instrument for carton manufacturing plants, research and quality supervision, inspection and other enterprises and departments.

Items	Parameters
Measuring Range	A gear (1~6) J±0.05J B gear (1~12) J ±0.10J C gear (1~24) J±0.20J D gear (1~48) J ±0.50J
Friction Resistance Set	<0.25J
Dimension	Three base length 60mmx60mmx60mm, High(25±0.7)mm, Edge fillet radius R(1.5±0.1)mm
Pyramid Features Size	800mm x 470mm x 840mm
Weight	145kg

## VIP119 Softness Tester



Designed according to relevant standards and adopts modern mechanical philosophy and computer processing technology. It has LCD display function, various parameters setting function, conversion, adjust, memory, printing and other functions

Item	Parameter
Measuring Range	10~1000mN
Resolution	0.01mN
Probe Total Trip	12±0.5mm
Probe Indentation Depth	8±0.5mm
Platform Slit Width	5mm, 6.35mm, 10mm, 20mm (±0.05mm)
Platform Slit Parallel Error	≤0.05mm
Probe Neutral Error	≤0.05mm
Dimension	240(L) x 300(B) x 280 (H)mm
Weight	10Kg

## VIP111A MIT Folding Tester



Designed according to relevant standards and adopts modern mechanical philosophy and computer processing technology. It has LCD display function, various parameters setting function, conversion, adjust, memory, printing and other functions

Item	Parameter
Measuring Range	1~99999times
Folding Angle	(175±10) time/min
Folding Speed	0.01N
Folding Head Width	19±1mm, fold radius:0.38±0.02mm
Spring Tension	4.91~14.72N, per 9.81N tension, spring compression 17mm
Folding Head Specification	0.25mm, 0.50mm, 0.75mm, 1.00mm
Dimension	300(L)x240(B)x450(H)mm
Weight	20Kg

## VIP105 Smoothness Tester



Smoothness Meter is designed according to Bekk method to measure paper and cardboard's smoothness.

Item	Parameter
Measuring Range	0-9999s Three gears : (1~15)s, (15~300)s, (300~9999)s
Time Error	(1~300)S ±0.1S, (300~999) S±1S
Vacuum Container volume	Big vacuum container volume : (380±1)ml Small vacuum container volume : (38±1)ml
Test Size	10±0.05cm <sup>2</sup>
Pressure	100kPa±2kPa
Glass Plate size	Outside diameter 37.4±0.05mm, inside diameter 11.3±0.005mm
Glue cushion	Thickness 4±0.2mm, hardness 40±5IRHD
Dimension	460(L) x 360(B) x 300(H)mm
Weight	70Kg



## VIP115 Paper-cup Stiffness Tester



Paper-cup Stiffness Tester is applicable to test cup body's stiffness strength, widely used in paper-cup industry, science research department and inspection department

Item	Parameter
Measuring Range	(1~20)N
Rim of Diameter	50~160mm
Resolution	0.01N
Indication Error	± 0.1%
Test Speed	(50.0±1.2)mm/min
Probe Relative Moving Distance	(9.5±0.2)mm
Probe Neutral Error	≤ 0.2mm
Distance of Two Probes	(40~120)mm
Dimension	500(L) x 270(B) x 340(H) mm
Weight	25Kg

## VIP108B Electronic Tearing Strength Tester



Drop Tester imitates the falling impact influence of packages in transportation and loading. It is used to identify the impact endurance and designable rationality of packages

Item	Parameter
Measuring Range	10-16000mN
Resolution	0.1mN
Accuracy	1% of Reading Value
Tearing Arm	(104±1) mm
Beginning Angle for Tearing	27.50° ±0.5°
Clamp Distance	(2.8±0.3)mm
Simple Cut Size	20±0.5mm
Standard Weight	145G/900G
Dimension	410(L)x300(B)x465(H)mm
Weight	15Kg

## VIP124 Drop Test



Drop Tester imitates the falling impact influence of packages in transportation and loading. It is used to identify the impact endurance and designable rationality of packages

Item	Parameter
Falling Height	400 -1500mm
Sample size	800(L) x 800(B) x 1250(H)mm
Dimension	2500(L) x 1700(B) x 1500(H)mm
Baseboard Size	1600(L) x 1450(B) x 20(H)mm
Bear Weight	100Kg
Weight	800Kg

## VIP219 Digital Torque Tester



Digital Torque Tester is applicable in open force and lock force tests of cups of bottle, suction and flexible tube packages. The open and lock forces of bottle caps are important online or offline technical parameters of production, and will influence the transportation and consumption of the products.

Item	Parameter
Specifications	20Nm 40Nm 50Nm
Accuracy	1% of Reading Value
Resolution	0.001 Nm
Clamp Range	φ5~ φ170mm (diameter)
Statistical Quantity	1~9 pieces
Dimension	360mm(L) x 245mm(B) x 145mm(H)
Power Supply	AC 220V 50 Hz
Weight	21Kg

## VIP182 Digital Internal Plybond Tester

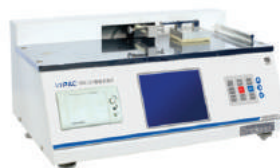


Internal Plybond Tester is applied to testing internal bond strength of paper and board.

Test principle: the paperboard sample is impact in a certain angle and weight, the energy it has absorbed indicates the internal bonding strength. It could test five samples at a time. Unit is optional among kg/cm, N/m, J.

Item	Parameter
Impact Angle	90°
No. of Specimen	5 pieces
Capacity	0.25/0.5 kg-cm
Mini Reading	0.005kg/cm
Dimension	700 x 340 x 600mm
Weight	91Kg

## VIP127A Coefficient of Friction Tester



Mainly applied to testing the static and dynamic coefficient of friction of plastic film and sheet. It uses micro-computer to control and adopts advanced elements. It has powerful test functions, such as test parameter setting, adjusting g, data display, memory and printing.

Item	Parameter
Measuring Range	0~5 N
Accuracy	0.5% of reading value
Stroke	70mm /150mm
Sled Size	63 x 63mm
Mass of Sled	200g Note : sleds of other weights can be ordered, sleds of any weights supportive
Mass Speed	100mm/min
Probe Neutral Error	≤ 0.05mm
Dimension	480(L) x 320(B) x 300(H)mm
Weight	35Kg

## VIP135 Falling Dart Impact Tester



Applicable in the impact result and energy measurement of the falling dart from a certain height against plastic films and sheets with thickness less than 1mm, which would result in 50% tested specimen failure

Items	Parameter
Test Method	A,B (Optional)
Measuring Range	Method A: 50-2000g Method B: 300-2000g
Test Accuracy	0.1g (0.1J)
Specimen Clamping	Pneumatic
Gas source Pressure	0.6MPa (Users provide gas source by themselves)
Inlet Size	8mm polyurethane pipe
Specimen Size	>150mm x 150mm
Power Supply	AC 220V 50Hz
Weight	65kg



## VIP134 Leak Tester



Applicable to the leakage test of packages for food, drugs, daily chemical products and other industrial products. The instruments also could be used to the determination of seal performance of specimens after failing and compression test.

Items	Parameter
Accuracy	±1% of reading force
Vacuum Degree	0~ - 90kPa
Size of Vacuum Chamber	φ270mm x 210mm(H) (standard) φ360mm x 585mm(H) (optional) φ460mm x 330mm(H) (optional)
Gas Source Pressure	0.7MPa (user provide gas source themselves)
Gas Inlet	Φ6mm polyurethane pipe
Dimensions	470 mm(L) x 300mm(W) x 190mm(H)
Power	AC 220V 50Hz
Net Weight	12 kg

## VIP133 Softness Tester



Heat Seal Tester seals the specimen to determine the seal parameters of basic film, laminated films, coating paper and other heat sealing laminated films according to the requirement of relative standards. The seal parameters include heat seal temperature, dwell time, and the pressure of heat seal. Heat seal materials that have different melting point, heat stability, fluidness, and thickness could show various heat seal properties, which cause obviously different seal technique. Users can obtain standard and accurate heat seal index by VIP133 Heat Seal Tester.

Items	Parameter
Dwell Pressure	0 - 0.8 MPa
Dwell Time	0.1 - 999.9s
Seal Temperature	Room Temperature- 300°C
Temperature Control Accuracy	±0.3°C
Seal Surface	180mm x 10mm (Customization is available)
Dimension	700mm (L) x 400mm (W) x 540mm (H)
Power Supply	AC 220V 50 Hz
Weight	47kg

## VIP122 Haze Meter



Applying to test the light transmittance, transmission haze, and reflection haze, reflectivity of transparent and semitransparent parallel level material and plastic films. Also it is suitable for liquid samples (water, beverage, pharmacy, colored liquid, grease) turbidity measurement. It is the basic instrument for plastic, glass products, all kinds of transparent packaging films, colored and colorless of organic glass and aerospace, automotive glass and photographic film. It accords with the standards of GB2410—80 and ASTM D1033-61, JIS K7105-81

Items	Parameter
Vacuum Degree	0~ -100kPa
Accuracy	±1% reading force
Gas Inlet Pressure	0.25- 0.6MPa (2.5~ 6kg/ cm2)
Size of Vacuum Chamber	270mm x 490mm (H) (Other size can be customized)
Gas source Pressure	0.7MPa (Users provide gas source by themselves)
Average Gas Consumption	70L/min
Gas Inlet	φ 8mm polyurethane pipe
Power Supply	AC 220V 50Hz
Weight	12kg

## VIP136B Film Impact Tester



Film Impact Tester is applicable in the precise impact resistance test of plastic films, sheets, laminated films, rubber and other nonmetal material.

Items	Parameter
Max Impact Energy	1J,2J,3J
Resolution	0.001J
Pendulum Tip Size	Φ25.4mm, φ19mm, φ12.7mm, (Special size can be customized)
Clamp Diameter	Φ 89mm, φ60mm
Specimen Size	100 x 100mm or φ100mm
Gas Source Pressure	0.6MPa (Users provide gas source themselves)
Inlet Size	Φ6mm polyurethane pipe
Dimension	600 mm(L) x 390mm(W) x 600mm(H)
Power	AC 220V 50Hz
Net Weight	64 Kg
Test Environment	Temperature : 23±2°C Tolerance ±1°C, Humidity 50±5% Tolerance ±2%

## VIP108C Film Tearing Tester



Tearing Tester is applicable in the tearing test of films, sheets, flexible PVC, PVDC, waterproof films, woven materials, polypropylene, polyester, paper, cardboard, textile and non-woven, etc. ISO 6383-1-1983,ISO 6383-2-1983, ISO 1974,GB/T16578.2-2009,GB/T 455,ASTM D1922,ASTM D1424,ASTM D689,TAPPI T414

Items	Parameter
Pendulum Capacities	200gf, 400gf, 800gf, 1600gf, 3200gf, 6400gf
Gas Source Pressure	0.6MPa (Users provide gas source by themselves)
Gas inlet	φ 4mm polyurethane pipe
Dimension	460mm (L) x 320mm (W) x 500mm (H)
Power Supply	AC 220V 50 Hz
Weight	30 Kg (200gf configuration)

## VIP137 Anti-Pressure High-Temperature Boiler



The tester is suitable for the steam test of food packaging, adhesive, Ink printing and other correlative films .It is also the optimal equipment for aseptic packaging test of food research Institute.

Items	Parameter
Effective Cubage	50L
Dimension of Clapboard	275mm x 190mm x 20mm (2pcs)
Test Chamber Size	300mm x 750mm (H)
Hydraulic Pressure	0-2.5kg/ cm (0 - 0.25MPa)
Temperature of Steaming	Higher than room temperature 10°C-135°C
Time	0-999 minutes
Pressure Gauge Range	0.1 - 0.3MPa
The Heating Source	Copper or stainless steel electric heater
Dimension	650mm x 350mm x 500mm





*Vitex has become the leading designer and manufacturer of textile testing equipment with our advanced technologies and the best customer services in the industry. Our OEM manufacturer, a joint venture of Germany and China was founded in 2008 with headquartered in China. Since 1969, we are focusing on developing and manufacturing textile testing equipment, and is well-known in the American and European markets. Vitex aim to supply reliable and cost-effective testing equipment to clients. All the products offered by Vitex were rigorously tested by reliable methods according to German standards.*

## A/B/C Fiber Fineness & Content Analysis System



Fiber Fineness & Content Analysis System, To determine the fineness of fiber and analyze the content and surface feature of animal and vegetation fiber, and mineral fiber, such as cotton, wool, man-made fiber, etc.

- Industrial pick-up camera, microscope, specialized test software.
- Operating mode : Manual, Automatic, Multiple-spot measurement
- Measurement range: 1~2000 $\mu$ m
- Measurement accuracy : 0.1 $\mu$ m

Standards : AATCC 20/20A, ISO 137, ISO 17751, IWTO-8-97, IWTO-47-00,

## Wool Fineness Meter



Wool Fineness Meter(IWTO Test Method), to determine the wool fibre fineness in the animal husbandry, cotton spinning industry, fibre researching and testing departments, etc.

- Wool fineness range: 18 ~ 40 $\mu$ m

## Digital Fiber Resistance Tester



Digital Fibre Resistance Tester, to determine the resistance of all kinds of fibre.

The Measuring range of Resistance: 106~1013 $\Omega$

## Fiber Crimp Tester



Fiber Crimp Tester is the latest developed high precision testing apparatus. It is used to automatically measure the crimp ratio, crimp elastic recovery percentage, and number of crimps of the fiber.

- Force measurement range: 0~2000 (10-3cN)
- Force precision: 0.1 (10-3cN)
- Force error:  $\leq \pm 1\%$

## Automatic Micronaire Tester



Automatic Micronaire Meter, used to determine the micronaire value of cotton fibre.

- Micronaire value range: 2.5-6.0 Micronaire Value
- Accuracy:  $\pm 0.05$  Micronaire Value (The first in the world)

## Photoelectricity Fiber Length Tester



- Length range: 25 ~ 31mm, resolution 0.1mm

Photograph Fiber Length Tester, to measure the length of cotton fiber by photoelectricity technology, is mainly used in cotton inspection and purchasing for cotton spinning factories.

## Single Fiber Strength Tester



Single Fiber Strength Tester, suitable to test the tension strength and elongation of chemical fiber, cotton, wool, ramie, silk, glass fiber, fine metallic thread, etc.

- Capacity: 500.00cN
- Resolution: 0.01 cN
- Load cell accuracy:  $\leq \pm 0.05\%$ F.S

## Crease Recovery Tester Digital



Digital Fabric Crease-recovery Tester is used for testing fabric recoverability after being creased, and indicated with crease vertical-recovery method.

- Measuring mode: fast elastic : 15 $\pm$ 1s, slow elastic : 5min $\pm$ 5s
- Pressure loading: 10 $\pm$ 0.05N



Fibre Cutter

Fibre Microtome

Cotton Macronaire Meter



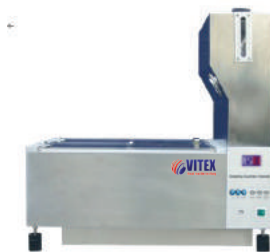
## Fabric Stiffness Tester



Softness Tester, to determine the softness of leather and coated fabrics and other soft materials.

- The shaking speed of sample frame: 2r/min
- The max. angle of shaking:  $\leq \pm 45^\circ$

## Sweating Guarded Hotplate



Standards GB / T 11048, ISO 11092, ASTM F 1868-09, ASTM D 1518-85, JIS L1096-2010, ASTM F 1868-02

TF129 Sweating Guarded Hotplate is the most professional, most advanced Thermal and Evaporative Resistance test instrument, simulate the human skin test plate, Automatic water supply system, Wind speed stabilization system, test host and Climate Chamber completely separated design, Automatically senses the thickness of the test sample.

- Test plate temperature range:  $30^\circ\text{C} \sim 40^\circ\text{C}$  adjustable
- Air velocity:  $0 \sim 1.2 \text{ m/s}$  continuously adjustable
- Sample thickness:  $0 \sim 50 \text{ mm}$

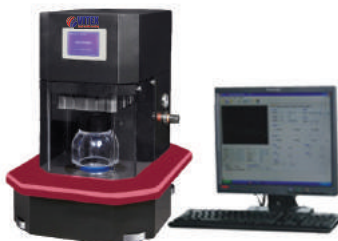
## Digital Elmendorf Tear tester



Digital Elmendorf Tear Tester, A computer controlled falling-pendulum instrument, to determine the ballistic tearing strength of textiles, plastics, paper or board.

- Capacity:  $0 \sim 6400 \text{ grams}$
- Pendulum Range: 1600, 3200, 6400
- Unit MN, CN, G KG, OZ, LB

## Computerized Bursting Tester



Computerized Bursting Tester, To determine the bursting strength of fabric, woven or knitted fabrics, non-woven, paper and board by the Application of hydraulic load under a rubber diaphragm of a specific area.

- Capacity and Resolution: 2000kPa (290psi), 10000 kPa (1450psi), 2Kpa.
- Standard clamping ring set:  $50 \text{ cm}^2$  ( $\Phi 79.8 \text{ mm}$ ),  $7.3 \text{ cm}^2$  ( $\Phi 30.5 \text{ mm}$ ), the other size are available on request.
- Testing range:  $0 \sim 2000 \text{ kPa}$  /  $0 \sim 10000 \text{ kPa}$

## Hydrostatic Head Tester



Hydrostatic Head Tester, used for determining the resistance of fabrics (canvas, coated fabrics, cover cloth, rainproof clothing fabrics and geotextile materials) and films to water penetration under pressure while firmly clamped in the test rig of standard area, by means of dynamic test method and static test method.

## Button Impact Tester



Button Impact Tester, to determine the impact resistance of plastic sew-through flange buttons to a falling mass of 0.84kg (29.5oz), released from a height of 67mm (2.625 inches) or other heights as required. Cracking, chipping or breakage constitutes failure.

- Impact Quality : 0.84Kg
- Testing Height: 32, 44, 67, 83, 95, 117, 200mm

## Fabric Stiffness Tester



Fabric Stiffness Tester, To determining the bending height, flexural rigidity and bending modulus of fabric by simple procedures and calculation. Fabric Stiffness tester is a totally manual operated device.

Tilt angle :  $41.5^\circ$

## Standards Tumble Dryer



Standard Tumble Dryer, used for the test of drying process and of the drying procedures needed by other textiles, which are prescribed in the standard textiles test purposed household cleaning and drying procedures.

- Drum volume: 165L
- Revolution speed: 50r/min
- Number of lift sheets: 3pieces with  $120^\circ\text{C}$  between each one
- Rated drying capacity: 15kg
- Standards GB/T 8629, ISO 6330



## Taber Abrasion Tester



Taber Abrasion Tester (Taber Abraser). To determine the wear resistance of all kinds of structures including fabrics, leather and rubber, paper, metals, paints, plated surfaces, coated materials, glass etc.

- Grinding Wheel: Dia. 2inch
- Wear Round Centre Spacing: 53.2mm
- Gyration Speed: 60±1rpm
- Counter: LCD, 0-999,999 times

Standards ISO 5470, ASTM D3884, FED.CCC.5306 / 5309, TAPPI T476, DIN 53754 / 53799 / 53109

## Flammability 45 Degree Flammability Tester



45 Degree Flammability Tester, to determine fabric flammability under controlled conditions total automatically (fabric burn test). The 45 degree fabric flammability tester is safe and easy to operate.

- Dimension of holder: outside 205x76 mm, interior 165x40
- Distance from nozzle to specimen: 8mm

Standards : ASTM D1230, FTMS191-5908, 16 CFR -1610, CALIF TB117  
Dimensions : 400x300x500 mm(LxWxH)

## Standards Tumble Dryer



Brush or Sponge Pilling Tester, to determine the pilling propensity and simulate normal wear of knitted and woven fabrics used in apparel and automotive interiors by brush and/or sponging specimens together in a circular motion to form pills. Specimens are evaluated under standard lighting conditions using a pillscope, light cabinet or similar, against users' standard fabrics or piling photographs.

- Height of Nylon brush: 25.4mm
- Consist of 6 Holders, rubber edge grips, sandpaper.
- Rotation speed: 58 r/min
- Sponge dimension: 51x102x152 mm

ASTM D3511, FORD BN12-4/108-03, GM 9652P

## Wascator FOM 71 CLS Lab Washer-extractor



Wascator FOM 71 CLS Lab Washer-extractor. Standard reference washing machine. Microprocessor controlled, up to 999 washing and drying programmes can be designed as required, input via the keyboard and stored in memory.

- Standards M&S P1, P1A, P3A, P12, P91, P99, P99A, P134
- BS EN 25077/26330, ISO 5077/6330, IEC 456

## Martindale Abrasion and Pilling Tester



Martindale Abrasion and Pilling Tester. To determine the abrasion and pilling resistance of all kinds of textile structures. Samples are rubbed against known abrasants at low pressures and in continuously changing directions and the amount of abrasion or pilling is compared against standard parameters

### Abrasion test

- Max stroke of movement 60.5+/-0.5mm
- Weight of holder and spindle: 200+/-1g

### Pilling Test

- Max stroke of movement : 2  
4+/-0.5mm
- Weight of holder and spindle : 155+/-1g

### Models

TF210A Martindale Abrasion And Pilling Tester-4 Heads  
TF210B Martindale Abrasion And Pilling Tester-6 Heads  
TF210C Martindale Abrasion And Pilling Tester-8 Heads  
TF210D Martindale Abrasion And Pilling Tester-9 Heads

### Standards

EN ISO 12945-2/12947-1/12947-2/12947-3/12947-4, ISO 20344, ASTM 4966/4970, BS EN 388/530, BS 3424/5690, JIS L1096, DIN 53863/53865, GB/T 13775, SATRA TM31, IS 12673, IWSTM 112/196, IWTO 40-88, SFS 4328, NEXT 16, GMW15651, ISO 5470-2, M&S 17 / 19 / 19C, Next 18/18a/18b, GB/T 4802.2/21196-1/21196-2, Wool Mark TM 112/196

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the professional



AWARDED ASIA PACIFIC  
TOP EXCELLENCE BRAND



Izod-type Impact  
Machine

Zipper Tester

Foam Dynamic  
Fatigue Tester

Computerized Air  
Permeability Tester

## Flammability 45 Degree Flammability Tester



45 Degree Flammability Tester, to determine fabric flammability under controlled conditions total automatically (fabric burn test). The 45 degree fabric flammability tester is safe and easy to operate.

- Dimension of holder: outside 205x76 mm, interior 165x40
- Distance from nozzle to specimen: 8mm

Standards : ASTM D1230, FTMS191-5908, 16 CFR -1610, CALIF TB117  
Dimensions : 400x300x500 mm(LxWxH)

## Electronic Crockmeter



Electronic Crockmeter, to determine the colour fastness of textiles to dry or wet rubbing.

- Rubbing head: Dia.16mm
- Vertical pressure: 9N+/-10%
- Rubbing stroke: 104mm
- Rubbing speed: adjustable

ITCC 8/165, BS 1006-D02, BS 4655, NEXT 10, M&S

C8/C8A/C25/C52

Power : 220/110V 50/60 Hz 2 A

Weight : 25 Kg

Dimensions 550x230x260 mm(LxWxH)

## Carpet flammability tester



Carpet Flammability tester is used to test the effects of a small source of ignition on floorcoverings. Carpet flammability tester can be used for either Hot metal nut test (BS 4790) and Methenamine tablet test (ISO 6925, BS 6307 and GB/T 11049)

- Complete with measuring grid and clamping ring
- Sliding panel for ease access
- Angled mirror for convenient viewing
- Applicable to 2 different tests
- Enclosed unit for optimum safety

Standards : ISO 6925, BS 4790, BS 6307, CFR 1630/1631, GB/T 11049, CPAI 84, CGSB standard 4-GP-2

Weight : 40 Kg

Dimensions : 500x500x850 mm(LxWxH)

## Geotextile Opening Size Tester (Dry Sieving)



Geotextile Opening Size Tester (Dry Sieving), to determine the apparent opening size (AOS) of a geotextile by sieving glass beads pass through a geotextile sample.

- Sieve diameter: 200 mm
- Amplitude: 10+/-2 mm
- Lateral vibration frequency: 220 times/min
- Vertical vibration frequency: 150 times/min
- Radius of gyration: 12+/-1mm
- Preset time: 0 ~ 60min

Standards ASTM4751, GB/T 14799, JTG E50 T1144, SL/T 23, ISO 8124-1/ 8124-4

Power 380V 50 Hz 1000 W

Weight 130 Kg

Dimensions 600 x 560 x 1030mm (L x W x H)



*Craftec have been focusing on design and manufacture of furniture testing equipment. The management has more than 40 years of toys/furniture inspection and testing experience. What distinguishes us from our competitors are that we keep close watch on new standard publish or revision, and ensure to have accurate interpretation of standards. We focus on furniture field and are committed to be the best furniture equipment supplier. Our product category covers office furniture, domestic and outdoor furniture which meet the standard of BIFMA, ASTM, BS, ISO, GB. We always stick to the concept to design and make equipment that are simple but accurate to standards, durable and easy installation and operation,*

## FURNITURE TESTING EQUIPMENT

### CT-F763 Mattress Rollator Tester



Using a horizontal hexagonal wooden drum roll or cylinder (both ends of the diameter of 250 mm, the middle part of the 300 mm, rolling back and forth on the mattress, simulate human motion to assess the durability of the mattress.

#### Function and Features

- Weight of hexagonal wood barrel:109kg, Cylinder weight:140kg
- According to different mattress to adjust the rolling stroke(adjust the limit switch \ position)
- Low coefficient of friction guide, ensure full drum weight on the mattress.
- Maximum size of mattress: 2.3m×2.5m (optional)
- The text display provides easy control and setting.
- Machine size(L×W×H):2500mm×2800mm×2200mm
- Power:380V, 1.5kw

### CT-BFM-09 Chair Swivel Durability Tester



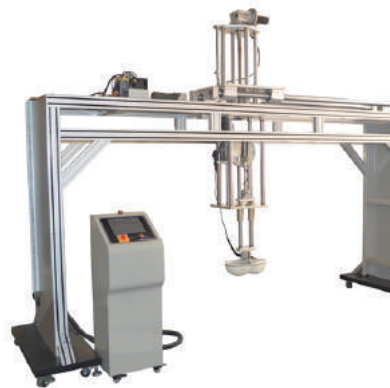
#### Structure characteristics :

- Motor drive the testing platform, the frequency transformer control the motor rotation speed and speed conversion
- Precision manual pressure regulating valve ensure to get the stable and reliable output force and indicate from the digital display.
- The output end of the cylinder attached the gimbal, adapt to different angles of the chair surface.

#### Parameter

- Digital rotation frequency RPM: 5~15CPM.
- Angle of rotation: Repeated swing or rotate in a single direction.
- Out-force: 158.5KgF
- Special mechanical design ensure the center of gravity of the load is 2 to 2.5 in forward of the centerline of the rotational axis.
- Count range: 0~999999, Stop / off memory function.
- Bearing surface height (seat): 350~800mm
- Turntable diameter: 740mm

### CT-F766 Cornell Mattress Durability Tester



Use specific block impact on the mattress over and over again, to assess their durability, and the fastness of mattress spring

- Imposed the pressure on mattress by a transducer, pressure range to 300KG
- Adjust the pushrod stroke on mattress, maximum force = 1025N minimum force = 22N
- Pusher travel speed adjustable, about 160 weeks times per minute
- Suitable maximum specimen: 2.3M X 2.5M
- A computer program under pressure transmitter and location of the transmitter of the data, make a complete test report.
- Display Accuracy: 0.001kgf
- Deformation precision: 0.001mm
- Impact height: 0-300mm adjustable
- Counter range: 0-99999 times
- Motor power: 2KW DC

### CT-BFM-10-1 Backrest Tester - Back Pull



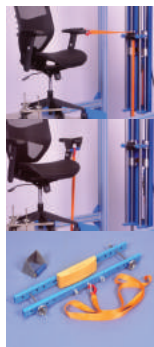
#### Structure characteristics:

- Multi-function testing equipment, out-force and traveling for selection.
- Through change the position of Pulley to change out-force direction of air cylinder.
- When the form-device left the Backrest, the back will return the original state without any resistance.
- Precision manual pressure regulating valve ensure to get the stable and reliable output force and indicate from the digital display.
- L style Baffle plate+Lstyle Pressure plate fix the base; Manual screw to keep pressing.
- RPM display can be adjusted.

#### Parameter:

- More than 150kg out-force.
- More than 1000mm testing platform
- 600mm Air cylinder traveling

## CT-BFM-13 Chair Strength Tester



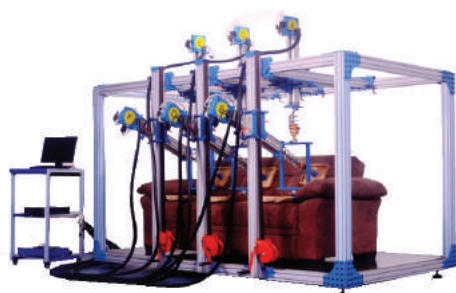
### Structure characteristics:

- Aluminum structure, stainless steel test platform.
- Through change the position of Pulley to change out-force direction of air cylinder.
- Through manually adjusting the position of the vertical pulley, can be realized in different height levels of force direction;

### Parameter:

- More than 150kg out-force, maximum tension 600mm traveling
- Maximum time delay 999 seconds.
- Tension sensor rated range of 500 kg
- Horizontal pulleys adjustable tension angle of 0-45 degrees
- The vertical pulley adjustable height of 0-800 mm;

## CT-BFM-38 Sofa Tester



### Function

- 6 groups (Max. 8 groups can be installed) of servo close-loop cylinder loading assembly, each can work separately or at programmed action with others
- PC input/output test parameters, real time Force-Time Curve Display, memory at power failure, break-stop and low pressure detection function. (Data retention being developed)
- Easy installation of specimen and test set up by one person without auxiliary tools

### Specification

- 63mm Dia. cylinder, stroke 500mm, force range: 50-150kgs;
- Vertical loading Height range: 500-1300mm
- Adjustable back loading angles: 0-90 degrees, loading height 400-1500mm

## CT-BSE-19 Seating Overturning Test Rig



### Standards

BS 5459-2:200 Figure A.22;

### Operation :

- Loading height adjustable vertically: 200 - 760mm
- Loading distance adjustable horizontally: 200 - 1000mm

## CT-BFM-16 Chair Arm Durability Tester



### Structure characteristics:

- Multi-Function, Multi-purpose Testing equipment.
- Adjust the air cylinder position to control out-force direction.
- Through change the out-force style, make the air cylinder in out-force state, arm fixture attach to arm, increase the testing stability.
- Precision manual pressure regulating valve ensure to get the stable and reliable output force and indicate from the digital display.
- Foot-cup fixing fixture, free force in the Vertical d direction.
- RPM display can be adjusted.

### Parameter:

- Air cylinder adjustable distance: 500-900mm;
- Dia 50mm Air cylinder, ensure to meet the force and accuracy requirement.
- Width 100mm arm fixture, with 10 degree inclination angle to give the force to the arm.
- Precision manual pressure regulating valve ensure to get the stable and reliable output force and indicate from the digital display.
- RPM display can be adjusted;

## CT-BSE-17 Universal Test Frame for Furniture



### Structure characteristics:

- Multi-Function, Multi-purpose testing.
- Six cylinder group, each one for 4 face and two PCS in the top of frame.
- Air cylinder in 4 face, can be moved up and down(with self-lock function, fit one operator to run it), slide right and left freely, move before and after(Max distance 500mm), rotate freely( Max angle 90 degree, can expand to 360 degree.
- Top air cylinder can move before and after.
- Each air cylinder assembled Touch screen and PLC, can control the out-force type or the out-distance type.
- Aluminum frame, stainless steel test platform.
- Power failure memory. 24 hours Unattended operation.

### Parameter:

- Output force: More than 150 kgf.
- Using Test platform size: 2200mm X 2200 mm.
- 600mm Air cylinder traveling
- 20 rpm per min for Air cylinder Cyclic rate.

 <p>CT-BFM-11 Seating Tester / Free-fall Drop Tester / Drop Test Rig</p>	 <p>CT-BFM-17 Chair Caster Durability Tester</p>	 <p>CT-BFE-37 Ladder Foothold /Tread Impact Tester</p>
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## TOY TESTING EQUIPMENT

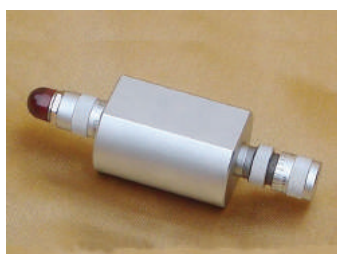
### CT-01 Sharp Edge Tester



**Application :**

Safety Testing, evaluate all assecible edges that presents an unreasonable risk of injury during normal use and reasonably foreseeable abuse of a toys.

### CT-19 Sharp Point Tester



**Application :**

A point tester is applied to an accessible sharp point and it is determined whether or not the point being tested penetrates a specified distance into the sharp point tester.

### CT-01-TP CHRT Tape/PTFE Tape



### CT-08 Accessibility Probe



### CT-84-6SP Seam Clamp



### CT-82-3TB Torque Fixture



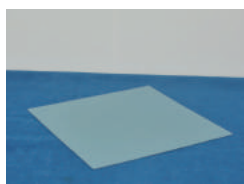
### CT-18- TC Kit Cap for UL Sharp Edge Tester



### CT-21-US Drop Test Platform for ASTM



### CT-21-ISO+GB ISO/GB Impact Test Platform



### CT-07 Small Part Cyclider



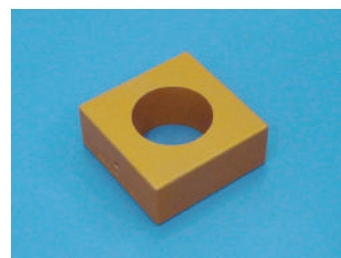
### CT-09-01 Elongated Template A



**Application :**

Safety Testing, evaluate all assecible edges that presents an unreasonable risk of injury during normal use and reasonably foreseeable abuse of a toys.

### CT-09-02 Rattle Test Fixture-Round



### CT-18 UL Sharp Edge Tester



**Application :**

testing the products of electrical equipment including toys,computers,daily home electrical equipments and see whether these equipments has sharp edges which will harm people. It is a equipment of safety testing.

### CT-88 Projection Test Gauges



### CT-VTR 100 Vibration Tester



### CT-84-5HC Hair Clamp



### CT-06 Bite Test Fixture



### CT-84-3RC Hook for Tension Test



### CT-11 Pacifier Test Fixture

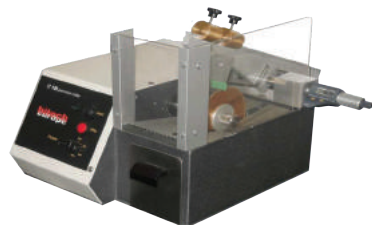






*Made in Italy. Since 1985 tecmet 2000 plays a pivotal role in the Quality Control market. Sales experience and technical skills, matured during this period, led us to make an accurate selection of the best partners, and market the best products, in the following fields: microscopy, metallography (metallographic preparation machines made in Italy under HITECH EUROPE brand: cut off saws, mounting presses, grinders/polishers, lapping machines.*

## Precision Sectioning Machine C 106



Low speed precision sectioning machine :

- Easy to use
- Solid steel structure
- Small, compact with functional design
- Start/Stop and micro switch limit
- Variable speed up to 400 rpm
- Cutting capacity up to 45mm
- Micrometer feed with 0.01 mm. accuracy
- Easily removable cutting fluid tank
- Variable loading from 0 to 300 grams
- Accommodates diamond, silicon carbide and aluminium oxide wafering blades from 102 to 150mm

## Metallographic Cut off Saws C320 Series



- The cooling nozzles of the wheel, allow an homogeneous cooling during the cutting operations, avoiding the overheating of the piece.
- Additional cooling and cleaning system
- Safety opening of the cover
- Manual descent cutting system

Model	C320M2
Code	02-15-320MY-C
Ø Wheel	Ø 300 mm
Translation on Z, X and Y - axis	Manual
Cutting capacity	Up to 108 mm with Ø300 mm wheel
Engine Power	4 kW
Speed	2800 rpm
Power Supply	400V 50Hz
Safety opening	Interlock system
Cooling System	Yes
Dimensions	700 x 810 x 865 mm
Weight	230 kg

## Automatic Metallographic Cut Off Saws C 350/400 Series

### C 400MZYX Manual Series

The 350/400 series, are solid, high power and versatile machines, thanks to their dimensions and to the wide customizable range. The machines, easy to use and accurate, guarantee a clear and plain cut, without microstructural alterations.



### C 350 A Automatic Series

The C 350/400 A series include four models with motorized translation on Z and Y axis. The motorized cut off saw is useful to operate difficult cutting and when the cut is repetitive, in order to help the operator in his job.

The control of the blade descent speed and of the blade and motor sustained effort avoid each kind of problem and therefore the microstructural alteration of the cut.

At the end of the cutting process, the blade stops and returns to its rest position.



## Metallographic Cut off Saws C Series



- Quick acting vice system (short shaft), opening 180mm min.
- Coolant re-circulating system with pump and sump assembly, included in the C series machines
- Inverter controlled motor (C301 models only) to operate with a constant tension, gives more efficiency to the motor reducing noise.

Model	C251	C301
Code	02-15-251-C	02-15-301-C
Dia. Cutting wheel	250mm	300mm
Cutting capacity up to	80mm	90mm
Motor power	2.2 KW	3.0 KW
Motor	Auto breaking	Inverter
Speed (RPM)	3000	300
Variable speed (optional)	No	Yes
Power Supply	380/400V-50Hz-3ph (440V-60Hz only c301 with inverter)	
Safety limit micro-switch	Yes	
Left rubber sealed side port	Yes	
Illuminated cutting chamber	Option	
Coolant re-circulating system	Yes	
Dimensions (mm)	650 x 650 x 720	
Weight (kg)	95	

## EP 50T Automatic, Hydraulic, Mounting Press for High Performance



- Hydraulic system ( doesn't need any connection to the air line)
- Easy interchangeable moulds ( from 25,4 mm. up to 50mm. )
- Dual sample capability during each cycle
- Electronics PLC controlled and operated by the "Touch screen" panel
- Programmable temperatures up to 200 °C
- Programmable times up to 99 min.
- Adjustable pressure 0 ~ 200 bars with direct reading on digital display
- Heating head with resistance up to 2000W
- Head water cooling System
- Power supply: 220V -50/60Hz
- Dimensions : 400x500x650 mm
- Weight : 60Kg

## EP 52 PT Automatic, Pneumatic, Mounting Press for High Performance



## EP 50 PT Already set up for Additional Unit



- Touch Screen to set programs (12) for both moulds
- Possibility to make double samples simultaneously
- Adjustable pressure 0 ~ 6 bars with direct reading on digital display
- Programmable temperatures up to 200 °C
- Water system for head cooling
- Power supply: 220V -50/60Hz
- Dimensions : 350x900x650 mm
- Weight : 85Kg

## Manual Polishers MP Series

MP 22V  
(code 02-30-020 V-C)



MP 31V  
(code 02-30-030 V-C)



MP 32V  
(code 02-30-020 V-C)



- Corrosion, heat and impact resistant moulded cover
- Solid steel chassis and stainless steel bolts and screws
- Control panel with start button and adjustable tap for water flow.
- Removable working wheel 200/230/250/300 mm diameter (not included)
- Cover and splash ring
- Working wheel rotation
- Adjustable hydraulic unit
- Motor 220V – AC – 0,75 Kw (0,37Kw for MP 22V) – 50 Hz  
Inverter controlled for variable speed versions
- Motor 220V – AC – 0,37 Kw – 50 Hz for fixed speed versions

### Accessories



Magno  
Base



Working  
Wheel



Magno  
Plate



Paper Clamp



Xlam Fas

## Automatic Dispenser p4



### TECHNICAL FEATURES:

- Cover in resin reinforced shockproof / corrosion
- Stainless steel screws
- Color Touch-screen 3,5"
- 4 programmable peristaltic pumps
- Adjustable telescopic arm
- No. 4 Bottles for fluid
- Power supply 230V - 50 Hz
- Dimensions: 500x200x350mm
- Weight: 7 Kg

Using the easy and intuitive touch screen, it is possible to set the number of pulses per minute and also duration of each pulse.

The P4T version can be combined with any polishing machine of all brands and models, as an independently programmable unit working in parallel with the machine.

The P4-1 Dispenser, with PLC controlled Electronics, can be supplied as an optional with the automatic polishing machine Hitech Europe AP311/T, controlled/programmed through the touch screen of the machine.

## Digital Polishers TSP Series Touch Screen



This Series is based on the efficiency of their electronic parts, that help the operator in his job. It is possible to set up each step of the polishing cycle, in order to guarantee better results with less efforts. The operator can change the setting during the cycle. The PLC, digital electronic is controlled via touch screen, with the possibility to store up to 30 programs. The electronic control of the parameters is done with extreme precision in order to determine the repeatability of the programs. The operator can store all the cycle parameters: the working wheel rotational speed and the direction, the pressure of the sample, the cycle time and the control of the water and of the fluids used.

## Metallographic Polisher MP311



## Metallographic Polisher MP311T



- Potentiometer for setting speed – water on/off – start/stop buttons / Touch-screen panel for setting speed – cycle time – water on/off – start/stop
- Working wheel rotational speed 50~600 r.p.m. (clockwise)
- Inverter Controlled Motor 0,75 Kw to optimize performance also at low speed
- Working wheel available diameters: 200-230-250-300 mm
- Dimensions 620x800x400 mm
- Weight 53 Kg

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AWARDED ASIA PACIFIC  
TOP EXCELLENCE BRAND

## Metallographic Polisher TSP311T



- Colour touch-screen panel for setting speed – cycle time – water on/off – start/stop – head – USB bidirectional output
- Dispenser with peristaltic pump setting by touch-screen panel
- Cycle time up to 60 min. – Speed. 50~600 Rpm
- Inverter Controlled Motor 0,75 Kw to optimize performance also at low speed
- Working wheel rotational speed (clockwise and counterclockwise)
- Working wheel available diameters: 200-230-250-300 mm
- Head rotational speed: fixed 3/5 versions (75 rpm) or variable (Combo/V Model only: 0~75 rpm)
- TSP311 T/3
- TSP311 T/5
- TSP311 T/COMBOV
- Dimensions 620x800x500 mm
- Weight 74 Kg

## Electrotec SIS-EL

(code SIST-ELETTROLIT)

ELECTROTEC SIS-EL (code SIST-ELETTROLIT)



- For the electrolytic attack to metallographic samples
- Corrosion and impact resistant with unbreakable glass
- Out-put 10V nominal voltage, 10A nominal current
- Knob for tension converter
- Power transformer in conformity with CEI EN 60742
- Rectification circuit: single phase bridge
- Rectifier with voltmeter and ammeter gauge
- Anode and cathode with support



## Metallographic Polisher AP311



- Electronic board controlled panel for setting speed – cycle time – water on/off – start/stop – head
- Cycle time up to 60 min. – Speed. 50~600 Rpm
- Inverter Controlled Motor 0,75 Kw to optimize performance also at low speed
- Working wheel rotational speed (clockwise and counterclockwise)
- Working wheel available diameters: 200-230-250-300 mm
- Head rotational speed: fixed (75 rpm) or variable (Combo/V Model only: 0~75 rpm)
- AP311/3
- AP311/5
- AP311 COMBO/V
- Dimensions 620x800x500 mm
- Weight 72 Kg

## Metallographic Polisher AP311T (Touchscreen)



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**Founded in 2004 with more than 17 year's experience with developing quality consumables and equipment for metallography. Akasel from Denmark is 100% focus in manufacturing of metallographic consumables with their own R&D. Combined with Akasel products, Akasel method will guarantee perfect, cost efficient and reproducible results.**

## DiaMaxx



Dose one liquid instead of both suspension and lubricant. DiaMaxx is a ready mix of lubricant and suspension, it is permanently stable and thus ensures reproducible results. Based on our High Concentration Aka+ suspensions and our high removal Aka-Lube, Clear+ we have formulated a combination product which combines quick preparation with ease of use. Contrary to competing two-in-one diamond suspensions; DiaMaxx is perfectly compatible with any polishing or fine-grinding surface, thus you can work with the usual micron sizes. All grain sizes in both mono- and polycrystalline diamonds are available as DiaMaxx. DiaMaxx does not contain any oil and is therefore very easy to clean.

Poly +	Product name	Content	Weight Kg
25nm - 1 µm final polishing	DiaMaxx Poly 0.25 µm	500 ml	0,61
	DiaMaxx Poly 1 µm	500 ml	0,61

Poly	Product name	Content	Weight Kg
3 µm - 6 µm polishing	DiaMaxx Poly 3 µm	500 ml	0,61
	DiaMaxx Poly 6 µm	500 ml	0,61
9 µm - 15 µm stock removal	DiaMaxx Poly 9 µm	500 ml	0,61
	DiaMaxx Poly 15 µm	500 ml	0,61

Mono	Product name	Content	Weight Kg
1 µm final polishing	DiaMaxx Mono 1 µm	500 ml	0,61
3 µm - 6 µm polishing	DiaMaxx Mono 3 µm	500 ml	0,61
	DiaMaxx Mono 6 µm	500 ml	0,61
9 µm - 15 µm stock removal	DiaMaxx Mono 9 µm	500 ml	0,61
	DiaMaxx Mono 15 µm	500 ml	0,61

## DiaDoubo



Dose one liquid instead of both suspension and lubricant. DiaDoubo is a ready mix of lubricant and suspension, it is permanently stable and thus ensures reproducible results. Based on our lubricants and diamond suspensions we have formulated a combination product which makes dosing and lubrication as easy as can be. Contrary to competing two-in-one diamond suspensions DiaDoubo is perfectly compatible with any polishing or fine-grinding surface, thus you can work with the usual micron sizes. DiaDoubo is available in a very wide range from 25 nm to 45 µm in mono and polycrystalline diamonds.

Poly +	Product name	Content	Weight Kg
25nm - 1 µm final polishing	DiaDoubo Poly 0.025 µm	500 ml	0,55
	DiaDoubo Poly 0.05 µm	500 ml	0,55
	DiaDoubo Poly 0.1 µm	500 ml	0,55
	DiaDoubo Poly 0.25 µm	500 ml	0,55
	DiaDoubo Poly 1 µm	500 ml	0,55

Poly	Product name	Content	Weight Kg
3 µm - 6 µm polishing	DiaDoubo Poly 3 µm	500 ml	0,55
	DiaDoubo Poly 6 µm	500 ml	0,55
9 µm - 15 µm stock removal	DiaDoubo Poly 9 µm	500 ml	0,55
	DiaDoubo Poly 15 µm	500 ml	0,55

Mono	Product name	Content	Weight Kg
1 µm final polishing	DiaDoubo Mono 1 µm	500 ml	0,55
3 µm - 6 µm polishing	DiaDoubo Mono 3 µm	500 ml	0,55
	DiaDoubo Mono 6 µm	500 ml	0,55
9 µm - 15 µm stock removal	DiaDoubo Mono 9 µm	500 ml	0,55
	DiaDoubo Mono 15 µm	500 ml	0,55

## Diamond Spray NH

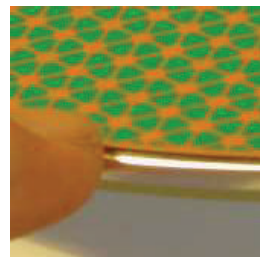


Diamond Spray is a convenient way of dosing diamonds. However a pressurized can is considered dangerous goods and often difficult to transport. We have developed a non pressurized Diamond Spray using a nonflammable easy bio degradable solvent as carrier. A trigger spray cap facilitates easy repeatable dosing and a clear bottle makes it easy to see how much the bottle needs to be shaken to get all diamonds in suspension.

Poly	Product name	Content	Weight Kg
0.25 µm - 15 µm	Aka-Spray NH Poly 0.25 µm	150 ml	0,20
	Aka-Spray NH, Poly 1 µm	150 ml	0,20
	Aka-Spray NH, Poly 3 µm	150 ml	0,20
	Aka-Spray NH, Poly 6 µm	150 ml	0,20
	Aka-Spray NH, Poly 9 µm	150 ml	0,20
	Aka-Spray NH, Poly 15 µm	150 ml	0,20

Mono	Product name	Content	Weight Kg
1 µm - 15 µm	Aka-Spray NH, Mono 1 µm	150 ml	0,20
	Aka-Spray NH, Mono 3 µm	150 ml	0,20
	Aka-Spray NH, Mono 6 µm	150 ml	0,20
	Aka-Spray NH, Mono 9 µm	150 ml	0,20
	Aka-Spray NH, Mono 15 µm	150 ml	0,20

## Magnetic Adaption



Aka-Rhaco is a stainless steel disc with a soft adhesive polymer coating.

It will adhere Hermes grinding paper allowing over the edge grinding and substituting expensive psa backed grinding paper. Aka-Rhaco will last over 100 applications.

Aka-Rhaco also adheres Aka-Cloths with-out taking off their liner. Simply place the cloth on top of Aka-Rhaco and you have a magnetic cloth. When the cloth is worn out simply pull the cloth off and re-use Aka-Rhaco.

Aka-Ronan is a stainless steel disc with a 3D-polymer coating. Adapt self adhesive polishing cloths to use them in a magnetic system. When the cloth is worn out simply pull the cloth off and re-use Aka-Ronan.

Aka-Ronan	Product name	Content	Weight Kg
Use self adhesive Cloths in magnetic system	Aka-Ronan, Magnet Adapter Ø200mm	2 pcs	0,20
	Aka-Ronan, Magnet Adapter Ø250mm	2 pcs	0,20
	Aka-Ronan, Magnet Adapter Ø300mm	2 pcs	0,20

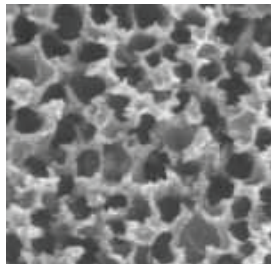
Aka-Rhaco	Product name	Content	Weight Kg
Unique adaption of grinding paper and polishing cloths	Aka-Rhaco , Magnet Adapter Ø200mm	2 pcs	0,20
	Aka-Rhaco , Magnet Adapter Ø250mm	2 pcs	0,20
	Aka-Rhaco , Magnet Adapter Ø300mm	2 pcs	0,20
	Aka-Rhaco , Magnet Adapter Ø350mm	2 pcs	0,20

Aka-Magnet	Product name	Content	Weight Kg
Self-adhesive polymer magnet	Aka-Magnet 210 x 210 mm	1 pcs	0,30
	Aka-Magnet 260 x 260 mm	1 pcs	0,45
	Aka-Magnet 310 x 310 mm	1 pcs	0,80

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## Magnetic Polishing Cloths

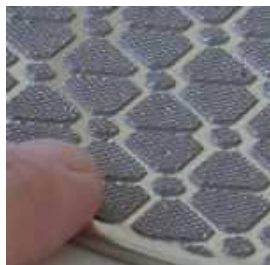


Polishing cloths for placement on magnetic discs. The textile is adhered directly on the stainless steel disc to insure maximum planeness and edge retention. Mag-Plaran and Mag-Paran are used for fine-grinding with 15 µm, 9 µm or 6 µm abrasive. Mag-Pluran, Mag-Daran, Mag-Moran are for polishing with 3 µm abrasive. Mag-Chemal and Mag-Napal are used for final polishing with abrasives of 1 µm and finer.

Mag-Chemal-M is a grooved version of Chemal. This increases the suspension distribution on the surface increasing the uniformity of the polish. Also prevents big samples from sticking to the surface.

	Product name	Weight Kg
Magnetic polishing cloths	Mag-Chemal ø200mm/ ø250mm/ ø300mm	1,00
	Mag-Chemal M ø200mm/ ø250mm/ ø300mm	1,00
	Mag-Napal ø200 mm/ ø250mm/ ø300mm	1,00
	Mag-Plural ø200 mm/ ø250mm/ ø300mm	1,00
	Mag-Moran ø200mm/ ø250mm/ ø300mm	1,00
	Mag-Daran ø200 mm/ ø250mm/ ø300mm	1,00
	Mag-Paran ø200 mm/ ø250mm/ ø300mm	1,00

## Aka-Allegran/Largan



Aka-Allegran and Aka-Largan applies a unique system for material removal. Integrated abrasive is released while applying abrasive in the form of diamond suspension or diamond spray to Aka-Allegran and Aka-Largan. The result is high removal, long life and perfect planeness. Aka-Allegran-9 replaces a number of grinding steps, typically P320 - P1200 with one single fine grinding step. Allegran-3 replaces a 3 micron polishing cloth. Its benefits are very short preparation times, very flat samples and retaining of soft phases like inclusions in steel.

Allegran-1 replaces the final polishing step resulting in outstanding flatness regardless of how many phases your specimen may contain. Any material with hardness above 150 HV can be prepared using Aka-Allegran. For materials with hardness less than 150 HV use Aka-Largan.

		Product name
Aka-Largan	For material <150 Hv	Aka -Largan 9 ø200 mm / ø250 mm/ ø300 mm/ ø350mm
Aka-Allegran-9	For materials > 150 Hv 15 µm - 6 µm	Aka -Allegran 9 ø200 mm / ø250 mm/ ø300 mm / ø350 mm
Aka-Allegran-3	For materials > 150 Hv 3 µm	Aka -Napal ø200 mm / ø250mm/ ø300 mm/ ø350 mm
Aka-Allegran -1	For materials > 150 Hv 1 µm - 0.1 µm	Aka -Plural ø200 mm / ø250mm/ ø300 mm/ ø350 mm

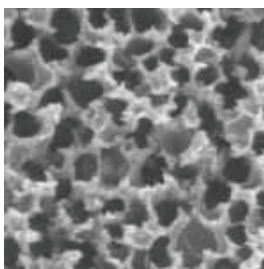
## SiC-Paper



Many still prefer grinding paper for plane and fine grinding their samples. We distribute Hermes high quality grinding paper in the usual diameters and grit sizes. The grinding paper is water-proof, curls very little, and has very few loose grits.

Product name	Weight kg
SiC Paper #80 ø200 mm / ø230 mm / ø250 mm / ø300mm	0,00/ 0,20 / 0,20 / 3,20
SiC Paper #120 ø200 mm / ø230 mm / ø250mm / ø300mm	1,35/ 1,80/ 2,20/ 3,20
SiC Paper #180 ø200 mm / ø250mm	0,00/ 0,20
SiC Paper #220 ø230 mm / ø250 mm / ø300mm	1,40/ 1,60/ 2,30
SiC Paper #320 ø200 mm / ø230 mm / ø250 mm / ø300mm	0,95/ 1,25/ 1,40/ 1,85
SiC Paper #500 ø200 mm / ø230 mm / ø250 mm / ø300mm	0,00/ 1,10/ 1,20/ 1,70
SiC Paper #600 ø250mm	1,20
SiC Paper #800 ø200 mm / ø230 mm / ø250mm / ø300mm	0,00/ 1,10/ 1,10/ 1,70
SiC Paper #1000 ø200 mm / ø230 mm / ø250mm / ø300mm	0,00/ 0,90 / 1,10/ 1,60
SiC Paper #1200 ø200 mm / ø230 mm / ø250mm / ø300mm	0,70/ 0,90 / 1,10/ 1,60
SiC Paper #2500 ø200 mm / ø230 mm / ø250mm / ø300mm	0,70/ 0,90 / 1,10/ 1,60
SiC Paper #2400 ø200 mm / ø230 mm / ø250mm / ø300mm	0,35/ 0,50/ 0,60/ 0,90
SiC Paper #4000 ø200 mm / ø230 mm / ø250mm / ø300mm	0,35/ 0,50/ 0,60/ 0,90

## Self Adhesive Polishing Cloths

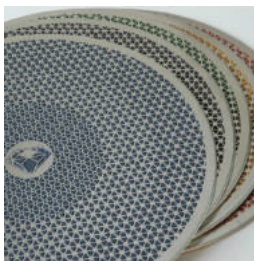


The polishing cloths are self adhesive and contain a thick polymer barrier that keeps lubricant and abrasive at the surface where they participate in the removing of material. A new developed adhesive with low tack and a unique tap assures easy placing and removal of the cloths. Unique is also batch code, manufacturing date and a QR code printed into the cloth back. Aka-Plaran and Aka-Paran are used for fine-grinding with 15 µm, 9 µm or 6 µm abrasive. Aka-Pluran, Aka-Daran, Aka-Moran are for polishing with 3 µm abrasive.

Aka-Chemal and Aka-Napal are used for final polishing with abrasives of 1 µm and finer. Aka-Chemal-M is a grooved version of Chemal. This increases the suspension distribution on the surface increasing the uniformity of the polish. Also prevents big samples from sticking to the surface.

	Product name	Weight Kg
Self-adhesive polishing cloths	Aka-Chemal ø200 mm/ ø250 mm/ ø300mm / ø350mm	0,15
	Aka-Chemal M ø200 mm/ ø250 mm/ ø300mm / ø350mm	0,15
	Aka-Napal ø200 mm/ ø250 mm/ ø300mm / ø350mm	0,15
	Aka-Plural ø200 mm/ ø250 mm/ ø300mm / ø350mm	0,15
	Aka-Moran ø200 mm/ ø250 mm/ ø300mm / ø350mm	0,15
	Aka-Daran ø200 mm/ ø250 mm/ ø300mm / ø350mm	0,15
	Aka-Paran ø200 mm/ ø250 mm/ ø300mm / ø350mm	0,15
	Aka-Plaran ø200 mm/ ø250 mm/ ø300mm / ø350mm	0,15

## Aka-Piatto



Aka-Piatto is a series of diamond grinding discs in grit sizes P80 to P1200. There are a number of benefits from using Aka-Piatto compared to grinding paper. - Several grinding paper steps can be substituted by a single step on Aka-Piatto. - Fully plane samples without any "half moon" effect. - Absolut edge retention due to diamond abrasive. - Plane and fine grinds all material harder than HV150.

Unique to Aka-Piatto is the color coded binder and a wear compensated surface design increasing the planeness of the samples and increasing the life of the Piatto discs.

Depending on the sample size and machine set-up between 100 and 200 pcs of grinding paper can be substituted by one Piatto disc.

Product name	Weight kg
Aka-Piat to 80 ø200mm / ø250mm / ø300mm / ø350mm	0,20/ 0,25/ 0,35/ 0,50
Aka-Piat to 120 ø200mm / ø250mm / ø300mm / ø350mm	0,20/ 0,25/ 0,35/ 0,50
Aka-Piat to 220 ø200mm / ø250mm / ø300mm / ø350mm	0,20/ 0,25/ 0,35/ 0,50
Aka-Piat to 600 ø200mm / ø250mm / ø300mm / ø350mm	0,20/ 0,25/ 0,35/ 0,50
Aka-Piat to 1200 ø200mm / ø250mm / ø300mm / ø350mm	0,20/ 0,25/ 0,35/ 0,50

## Hot Embedding



Hot embedding compounds for use in hot-embedding presses.

Aka-Resin, Epoxy a black mineral filled thermosetting compound for the best possible embedding.

Aka-Resin, Acrylic a clear thermoplastic compound for crystal clear embedding.

Aka-Resin, Melamine a white mineral filled thermosetting compound for universal good embedding.

Aka-Resin, Phenolic a black wood filled thermosetting compound for economic embedding or back filling.

Aka-Resin, SEM a black carbon filled thermosetting compound for conductive embedding used in SEM work.

Epoxy	Product Name	Content	Weight kg
Black mineral filled best edge retention	Aka -Resin Epoxy	1kg/ 7,5kg/ 25kg	1,10/ 8,00/ 26,50
Acrylic	Product Name	Content	Weight kg
Clear thermoplastic resin	Aka -Resin Acrylic	1kg/ 7,5kg/ 25kg	1,00/ 1,00/ 1,00
Melamine	Product Name	Content	Weight kg
White mineral filled good all round resin	Aka -Resin Acrylic Melamine	1kg/ 7,5kg/ 25kg	1,00/ 1,00/ 1,00
Phenolic	Product Name	Content	Weight kg
Black wood filled best economy	Aka -Resin Acrylic Melamine	2.5 kg/ 7,5kg/ 25kg	1,00/ 1,00/ 1,00
Phenolic SEM	Product Name	Content	Weight kg
Black graphite filled conductive for SEM work	Aka -Resin Acrylic Melamine	1kg/ 7,5kg/ 25kg	1,00/ 1,00/ 1,00

## Cold Embedding



Our Epoxies have perfect adhesion and low shrinkage: The cured embeddings are without any environmental risks. This makes it ideal for both routine work and difficult specimens like plasma spray coatings or porous corrosion surfaces.

We offer resin and hardener separate not as a kit. This way adding a new feature is just a matter of buying another hardener.

Our Aka-Crylic Kit is a quick curing shrink free 2 component system. It cures in 8 minutes and has perfect edge retention due to its high amount of mineral fillers. By using an advanced polymer it actually expands during curing.

Our Aka-Clear Kit is a quick curing 2 component system. It cures in 8 minutes and produces a totally clear mount if a pressure pot is used.

Aka-Clear 8 min. Cure @90°C clear embeddings with pressure pot

Product Name	Content	Weight kg
Aka -Clear Powder	1 kg / 10 kg	1,00/10,00
Aka -Clear Liquid	500 ml	0,80

Mould	Product Name	Content	Weight kg
Cold Embedding Moulds for all Cold Embedding Resins	Aka-Mould 25 mm/ 30mm/40mm/50mm	10 pcs	0.20

Clip	Product Name	Content	Weight kg
Clip for holding samples in place	Aka-TrioClip, Black	100 pcs	0.10

Aka-Cure Quick 30 min. cure @80°C

Product Name	Content	Weight kg
Aka -Cure, Quick	500ml	0,50

Aka-Crylic 8 min. cure @98°C shrink-free mineral filled

Product Name	Content	Weight kg
Aka -Crylic Powder	1 kg / 10 kg	1,00/10,00
Aka -Crylic Liquid	500 ml	0,80

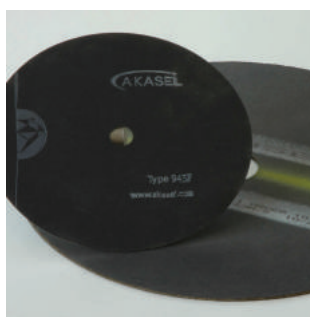
Aka-Resin Liquid flow viscosity clear liquid epoxy resin

Product Name	Content	Weight kg
Aka -Resin Liquid Epoxy	1l / 5l	1,10 / 5,10

Aka-Cure Slow 8 - 24 hours cure @20°C

Product Name	Content	Weight kg
Aka -Cure, Slow	500ml	0,85

## Cut-Off Wheels



Our precision cut-off wheels are based on traditional bond and abrasive systems.

150 mm : ø150 x 0.5 x ø12.7 mm Precision cut

Product name	Content	Weight Kg
Cut- off 150 x 0.5 x 12.7 mm 500-1000HV	5 pcs	0,20
Cut - off 150 x 0.5 x 12.7 mm 150-700HV	5 pcs	0,20

## Accessories



A number of accessories that makes your preparation a little easier.

Cleaning	Product Name	Content	Weight kg
	Aka -Clean , Spray	0,5 l	0,60
	Aka -Clean , Refill	5 l	5,10

Cleaning	Product Name	Content	Weight kg
	Aka -Clean WF, Spray	0,5 l	0,60
	Aka -Clean WF, Refill	5 l	5,10

Cleaning	Product Name	Content	Weight kg
	Krestopol abrasive cleaner	250 g	0,25

Dressing Stick	Product Name	Content	Weight kg
	Dressing Stick #220 25 x 25 x 150 mm	1 pcs	0,10

NoStick	Product Name	Content	Weight kg
	Aka -NoStick - Mould release powder	50 g	0,01
	Aka -NoStick Liquid - Mould release agent	250 ml	0,01



THE REFERENCE BRAND FOR EXCELLENCE IN HARDNESS TESTING

Authentic pioneers in the field of hardness testing. Over a century of efforts to meet the ever increasing requirements of the global market, a history of successes and satisfactions, concentration on quality and innovation, endeavor to implement and update the range of products according to the evolution of measuring techniques and metrology advancement. Our Primary Hardness Standardizing Machines resulted from our close co-operation with the Italian National Metrology Institute "G. Colonnetti" (now INRIM), have been appreciated and operating with success for over twenty years in NMIs, National Metrology Institutes of the USA, United Kingdom, Italy, Turkey, Brazil, Bulgaria, China, India, Romania, Russia and Korea

ERGOTEST Hardness Tester



	Scala Scale	Norma Standard	Penetratore Indenter	Carico Load	COMP 25	DIGI R	DIGI U	DIGI RS
ROCKWELL	HRA	ISO 6508 - ASTM E18	Cono di diamante Diamond cone	60 kgf	X	X	X	X
	HRB	ISO 6508 - ASTM E18	Sfera / Ball 1/16"	100 kgf	X	X	X	X
	HRC	ISO 6508 - ASTM E18	Cono di diamante Diamond cone	150 kgf	X	X	X	X
	HRD	ISO 6508 - ASTM E18	Cono di diamante Diamond cone	100 kgf	X	X	X	X
	HRE	ISO 6508 - ASTM E18	Sfera / Ball 1/8"	100 kgf	X	X	X	X
	HRF	ISO 6508 - ASTM E18	Sfera / Ball 1/16"	60 kgf	X	X	X	X
	HRG	ISO 6508 - ASTM E18	Sfera / Ball 1/16"	150 kgf	X	X	X	X
	HRH	ISO 6508 - ASTM E18	Sfera / Ball 1/8"	60 kgf	X	X	X	X
	HRK	ISO 6508 - ASTM E18	Sfera / Ball 1/8"	150 kgf	X	X	X	X
	HRL	ASTM E18	Sfera / Ball 1/4"	60 kgf	X	X	X	X
	HRM	ASTM E18	Sfera / Ball 1/4"	100 kgf	X	X	X	X
	HRP	ASTM E18	Sfera / Ball 1/4"	150 kgf	X	X	X	X
	HRR	ASTM E18	Sfera / Ball 1/2"	60 kgf	X	X	X	X
	HRS	ASTM E18	Sfera / Ball 1/2"	100 kgf	X	X	X	X
	HRV	ASTM E18	Sfera / Ball 1/2"	150 kgf	X	X	X	X
	HR15N	ISO 6508 - ASTM E18	Cono di diamante Diamond cone	15 kgf	X			X
	HR30N	ISO 6508 - ASTM E18	Cono di diamante Diamond cone	30 kgf	X			X
	HR45N	ISO 6508 - ASTM E18	Cono di diamante Diamond cone	45 kgf	X			X
	HR15T	ISO 6508 - ASTM E18	Sfera / Ball 1/16"	15 kgf	X			X
	HR30T	ISO 6508 - ASTM E18	Sfera / Ball 1/16"	30 kgf	X			X
	HR45T	ISO 6508 - ASTM E18	Sfera / Ball 1/16"	45 kgf	X			X
	HR15W	ASTM E18	Sfera / Ball 1/8"	15 kgf	X			X
	HR30W	ASTM E18	Sfera / Ball 1/8"	30 kgf	X			X
	HR45W	ASTM E18	Sfera / Ball 1/8"	45 kgf	X			X
	HR15X	ASTM E18	Sfera / Ball 1/4"	15 kgf	X			X
	HR30X	ASTM E18	Sfera / Ball 1/4"	30 kgf	X			X
	HR45X	ASTM E18	Sfera / Ball 1/4"	45 kgf	X			X
	HR15Y	ASTM E18	Sfera / Ball 1/2"	15 kgf	X			X
	HR30Y	ASTM E18	Sfera / Ball 1/2"	30 kgf	X			X
	HR45Y	ASTM E18	Sfera / Ball 1/2"	45 kgf	X			X

	Scala Scale	Norma Standard	Penetratore Indenter	Carico Load	COMP 25	DIGI R	DIGI U	DIGI RS
BRINELL	HBW 1/10	ISO 6506 - ASTM E10	1 mm	10 kgf	X			
	HBW 1/30	ISO 6506 - ASTM E10	1 mm	30 kgf	X		X	X
	HBW 2,5/15,625	ISO 6506 - ASTM E10	2,5 mm	15,625 kgf	X			
	HBW 2,5/31,25	ISO 6506 - ASTM E10	2,5 mm	31,25 kgf	X		X	
	HBW 2,5/62,5	ISO 6506 - ASTM E10	2,5 mm	62,5 kgf	X	X	X	
	HBW 2,5/187,5	ISO 6506 - ASTM E10	2,5 mm	187,5 kgf	X	X	X	
	HBW 5/62,5	ISO 6506 - ASTM E10	5 mm	62,5 kgf	X	X	X	
	HBW 5/125	ISO 6506 - ASTM E10	5 mm	125 kgf	X			
	HBW 5/250	ISO 6506 - ASTM E10	5 mm	250 kgf	X	X		
	HBW 10/100	ISO 6506 - ASTM E10	10 mm	100 kgf	X	X	X	X
	HBW 10/250	ISO 6506 - ASTM E10	10 mm	250 kgf	X	X		

DUROMETRI / HARDNESS TESTERS								
	Scala Scale	Norma Standard	Penetratore Indenter	Carico Load	COMP 25	DIGI R	DIGI U	DIGI RS
VICKERS	HV10	ISO 6507 - ASTM E384	piramide pyramid	10 kgf	X			
	HV20	ISO 6507 - ASTM E384	piramide pyramid	20 kgf	X			
	HV30	ISO 6507 - ASTM E384	piramide pyramid	30 kgf	X		X	X
	HV50	ISO 6507 - ASTM E384	piramide pyramid	50 kgf	X			
	HV60	ISO 6507 - ASTM E384	piramide pyramid	60 kgf	X	X	X	X
	HV100	ISO 6507 - ASTM E384	piramide pyramid	100 kgf	X	X	X	X

## ISOSCAN Microhardness Tester



## MICROSCAN Microhardness Tester



	MICRODUROMETRI / <i>MICROHARDNESS TESTERS</i>							
	Scala <i>Scale</i>	Norma <i>Standard</i>	Carico <i>Load</i>	MICROSCAN	ISOSCAN HV1	ISOSCAN HV2	ISOSCAN HV10	ISOSCAN HV50
VICKERS	HV 0,01	ISO 6507 - ASTM E384	0,09807/0,01 N/kgf	X	X			
	HV 0,015	ISO 6507 - ASTM E384	0,147/0,015 N/kgf	X				
	HV 0,02	ISO 6507 - ASTM E384	0,1961/0,02 N/kgf	X				
	HV 0,025	ISO 6507 - ASTM E384	0,2452/0,025 N/kgf	X	X	X		
	HV 0,05	ISO 6507 - ASTM E384	0,4903/0,05 N/kgf	X	X	X		
	HV 0,1	ISO 6507 - ASTM E384	0,9807/0,1 N/kgf	X	X	X		
	HV 0,2	ISO 6507 - ASTM E384	1,961/0,2 N/kgf	X	X	X	X	
	HV 0,3	ISO 6507 - ASTM E384	2,942/0,3 N/kgf	X	X	X	X	
	HV 0,5	ISO 6507 - ASTM E384	4,903/0,5 N/kgf	X	X	X	X	
	HV 1	ISO 6507 - ASTM E384	9,807/1 N/kgf	X	X	X	X	X
	HV 2	ISO 6507 - ASTM E384	19,61/2 N/kgf	X		X	X	X
	HV 3	ISO 6507 - ASTM E384	29,42/3 N/kgf	X			X	X
	HV 5	ISO 6507 - ASTM E384	49,03/5 N/kgf	X			X	X
	HV 10	ISO 6507 - ASTM E384	98,07/10 N/kgf				X	X
	HV 20	ISO 6507 - ASTM E384	196,1/20 N/kgf					X
	HV 30	ISO 6507 - ASTM E384	294,2/30 N/kgf					X
	HV 50	ISO 6507 - ASTM E384	490,3/50 N/kgf					X



*Made in Korea. Established more than 20 years, Ibche Corporation is a global leader in Lapping/Polishing technology that has been assist many customers in their product development by supplying high quality Lapping/Polishing machines at reasonable price.*

Based on 20 years of IBCHE's business and technology know how and experiences, the IBCHE now leads the Lapping/Polishing business field in my country because our technology has been renowned domestically and internationally.

## Single side lapping/Polishing M/C

Guaranteed single sided plane figure, and fulfilling the illumination requirements!



15" Single side Lapping/Polishing M/C



24" Single side Lapping/Polishing M/C

## Single side lapping/Polishing M/C

Polishes both internal and external planes at the same time with guaranteed consistency!



9BL- Double Side M/C



IDM - 9BLD



Lapping/Polishing Auto - M/C

Make possible parts mass-production by the automation of loading & unloading

Application Field  
Automotive parts, Piston shoe, Electronic parts, Aviation parts, Defence industry parts, etc.

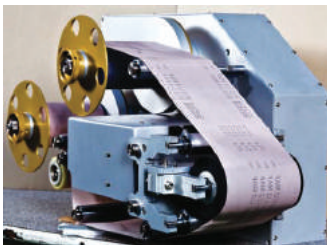


LCD Lapping /Polishing M/C  
Guaranteed Consistency

In order to guarantee consistency, the function of the single-side lapping and polishing machine has been added to give the ability to transport the head both ways.

Application Field  
LCD, Silicon wafer, IC Photo Mask, Crystal, Ceramic, Femile, Gauge Block, Sapphire.

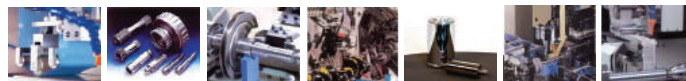
## Super Finishing Unit & M/C for Lapping the mounting film



Super Finishing Units (SF-100)



Super Finishing Units (SFC-100)



## Brush Polishing M/C

Designed for single sided and curved surfaces  
100% clean polishing surface work and good luminance working conditions



Brushing Polishing Machine  
IBP-470N

## Assistant Materials for Lapping & Polishing



Various Composite Lapping  
Polishing Plate

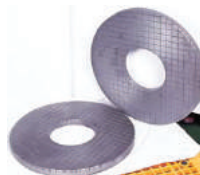
### Vitrified Diamond Pallet Plate



Vitrified Diamond Pallet Plate, excellent ability to cut difficult to cut materials, utilizing the advantages of reshard bonds and metal bonds using water as a grinding liquid allowing a cleaner working environment.

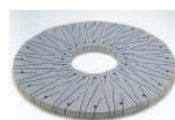
Application Field  
Ceramic, Alumina, silicon, carbide, ferrite, Zirconia, boro-carbide, glass item (sapphire), quartz, aluminium, copper, brass, etc.

### Cast Iron Lapping Plate



Mainly used for two sided Lapping Machines and first step lapping in various items

### PVA-WP Plate



Softer products with nonferrous materials are polished by water and grind liquid with high quality consistency.

### FBB-C Plate



A grinding plate that does not need a separate abrasive and GC whetstone system. Designed for high quality precision polishing for aluminium, copper, steel, nickel, cobalt.

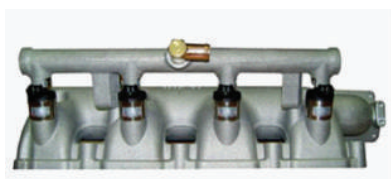
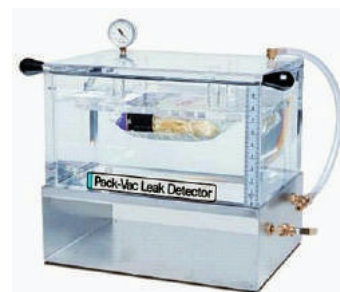




## Customize Test Equipment



Table Type



### Automotive

Brake Components  
Coolant Systems/Components  
Drive Train Assemblies/Components  
Engine Assemblies/Components  
Exhaust Systems/Components  
Fuel Assemblies/Components  
Power Steering Systems/Components



### Medical

Bags/Tubes  
Catheters  
Endoscopic Devices  
Laparoscopic Devices  
Containers  
Valves  
Heat Exchangers  
Filters



## AUTOMOTIVE AND DIE CAST AIR LEAK , FLOW OR BLOCKAGE TESTING

<p>ABS valves ABS housing Ball bearing Bellows seal Brake caliper Brake pipes Catalytic converter Clutch casting Cylinder block Cylinder head Cylinder head volume Cylinder sleeve Exhaust recirculation valves Differential /transmission Engine block Engine water cavity Engine oil cavity Engine rubber seals Exhaust manifold Exhaust pipe Fuel cap Fuel filter Carburator float Fuel tank Fuel tank cap</p>	<p>Fuel lines Gas tank Gear box Gear box manifold Head light Head light ramp Heat exchanger Heater core High pressure fuel circuit Horn Hydraulic transmission Injection ramp Intake manifold Intake butterfly valve Inlet valve guide seal Jerrycan Lip seal Mechanical transmission Oil manifold Oil gauge Oil heater</p>	<p>Windshield washer tank Pneumatic jack Pneumatic spring Pneumatic transmission Rack and pinion steering Radiator Rocker arm cap Roller valves Rubber hose Shock absorber hydraulic tank Shock absorber valve Silencer Single switch gauge Speed controller Spiral wound gasket for camshaft Spiral wound gasket for crankshaft Spiral wound gasket for cylinder head Spiral-wound gasket for engine Steering wheel Tank fuel circuit Turbo compressor Water circuit Water float Water pump</p>
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### Miscellaneous

Gas Pump Handles  
Paper Cups  
Water Fountains



### Natural Gas

Fittings  
Hoses/Tubes  
Meters  
Regulators  
Stove Components/Assemblies  
Valves, High/Low Pressure

Features	Measurement Range	Accuracy	Advanced	Pressure
Leak Pressure Test	5 X 10 - 4 MBAR (0.0002mbar)	0.002 mbar (0.2 Pa)	0.0002 mbar (0.02Pa)	Min 1 Bar ~ Max 50 Bar
Flow Test	5 x 10 - 9 atm cc/sec helium max	1.5 Full Scale Linearity	None	Min 1 Bar ~ Max 50 Bar
Vacuum Test	Atmosfera to 5 X 10 -4 mbar	Typically +/- 15%< 100mbar	Typically +/- 15%< 100mbar	Depand Volume

**Obsnap**  
the professional

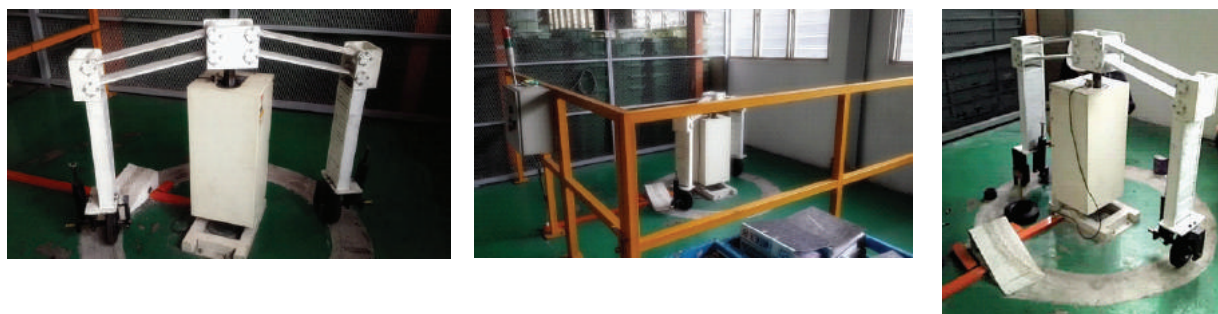




## R&D | Q&A | CUSTOMIZE TESTER ----- EN STANDARD/MS STANDARD



## OEM ENDURANCES TEST | STATIC LOAD TEST <Automotive,Medical,Electrical,Furniture etc>





## DJH Crater Dry Film Thickness Measurement System



MEK Rub Test Machine



Bench Mounted Paint Adhesion Test Machine



Strip-Lok Joiner

### Key Benefits

- Repeatable consistent results
- Environmentally safe, no solvents, or contaminated wipers to dispose of
- Low maintenance
- Quick and accurate
- can read primer, color coat and clear top coat at one time.
- System can be used to measure thick films (i.e > 2 mil) by using optional plastisol bits. (see accessories)
- Optical video system can be used for other purposes, (i.e. substrate surface defects, paint film defects etc.)
- Eliminate operator error
- Borer requires no calibration for different substrate materials
- Can read primer & Top coat film at one time
- System can be expanded to meet other requirements such as defect inspection



*Kejuruteraan Emas Sdn. Bhd.*

18<sup>th</sup> Nov 2011

VICTOR EQUIPMENTS RESOURCES  
No. 29A, Jalan SS15/4C,  
47500 Subang Jaya  
Selangor, Malaysia.

Dear Sir,

### LETTER OF APPRECIATION

My experience with VICTOR service and support has been outstanding. Service calls have been answered promptly, and technical support has been friendly and competent. It has been a real pleasure working with the professional and courteous staff at Victor Equipments Resources.

Thank you for your dedicated engineers and we are satisfied with your service support.

Yours sincerely,

Hasrul Azizul B. Akis  
Head of Quality (Quality Division)  
Kejuruteraan Emas Sdn. Bhd.  
Lot 5 & 6, Jalan Fimas, Off Jalan Simpang Balak,  
Kawasan Perindustrian Fimas,  
43000 Kajang, Selangor, Malaysia  
Tel: 03-8738 1192  
Fax: 03-8738 1187

Lot 5 & 6, Jalan Fimas, off Jalan Simpang Balak, Kawasan Perindustrian Fimas, 43000 Kajang, Selangor Darul Ehsan.  
Tel : 03-87381192 / 94 Fax: 03-8738 1187  
Email : kemas@kejemas.com.my



**SANWA IRON (MALAYSIA) SDN. BHD.**



25<sup>th</sup> February 2013

VICTOR EQUIPMENTS RESOURCES SDN BHD  
No. 29A, Jalan SS15/4C,  
47500 Subang Jaya  
Selangor, Malaysia.

Dear Sir,

### LETTER OF APPRECIATION

"With the assistance of Victor Equipments Resources Sdn Bhd, we manage to do our jobs efficiently by using their high quality machine has been promised. Their fast service that been offered also help us in order to complete our task in time. The service team also assists us in giving their best advice and information needed. We appreciate for your precious advices and support"

Yours sincerely,

Mr Hafid  
QA/ QC Department

Sanwa Iron (Malaysia) Sdn Bhd

Main Office : No 7, Jalan Seruling ST, Kawasan 3, Taman Klang Jaya, 41200 Klang, Selangor Darul Ehsan, Malaysia  
Tel : 603-33235827 & 33235828 Fax : 603-33235829 E-Mail : klg@sanwairon.com  
Kuantan Branch: Lot 48/4 Ground Floor, Kawasan Perindustrian Semambu, 25360 Kuantan, Pahang Darul Makmur.  
Tel: 609-5603980, 5603981 Fax: 609-5603982 Email : ktn@sanwairon.com  
Website : <http://www.sanwairon.com>

**WSA RESEARCH AND TESTING CENTER SDN. BHD.** (232588-0)  
Lot 1, Jalan Perusahaan Satu, Batu 17 Kawasan Perindustrian PKNS, 48000 Rawang,  
Selangor Darul Ehsan, Malaysia  
Tel. No: (603)60934699/6210  
Fax No: (603)60934700


Obsnap Instruments Sdn Bhd  
No 29A, Jalan SS 15/4C,  
47500 Subang Jaya,  
Selangor, Malaysia.  
22 March 2013

TO WHOM IT MAY CONCERN

RE: Appreciation on Obsnap good service and support

Obsnap Instrument has supplied to us with few system machines like **MERIDIAN Walk-in Temperature and Humidity Chamber, Portable CMM, and Tensile Machine**. Obsnap's teams are very responsible and provide fast feedback when we need advises on the machines' operation and also at rectifying machine's problems. We've experience before that Obsnap's service teams were willing to stay until late night to trouble shoot one of the machines. We're satisfied with Obsnap's good quality maintenance service.

Besides, they also provide useful training, informative knowledge sharing to us, so that we get more familiar when operating the machines. We hope that they can maintain this kind of professionalism and supportive attitude for the sake of customer satisfaction to their service. Thanks for their sincere service and supports.

Yours faithfully,  
  
Mohamad Syafiq Mamat  
Senior Engineer  
WSA Engineering Sdn. Bhd. / WSA RTC Sdn. Bhd.

WSA ENGINEERING SDN. BHD. (000000)  
Lot 22, Jalan RPS 2,  
Taman Perindustrian,  
Kawasan Perindustrian Fasa 4,  
Bayan Lepas, 11900 PINANG.  
Tel: (06) - 461 6234 Fax: (06) - 461 6236

Page 1 of 1

**SHORUBBER (MALAYSIA) SDN. BHD.**  
(Company No: 181609-U)

☐ **RESEARCH & DEVELOPMENT INSTITUTE**  
NO. 20, MEDAN BAYAN LEPAS,  
KAWASAN PERINDUSTRIAN FASA 4,  
BAYAN LEPAS, 11900 PINANG.  
TEL: (06) - 461 6234  
FAX: (06) - 461 6236

☐ **PENANG OFFICE**  
LOT 12 B1, LEVEL 12, MENARA KWSP,  
NO. 38, JALAN SULTAN AHMAD SHAH,  
10000 PENANG.  
TEL: (04) - 229 3732  
FAX: (04) - 229 3332 / 226 4972

☐ **FACTORY**  
NO. 2, JALAN INDUSTRI KINANG 6,  
PUJUT INDUSTRIAL ESTATE,  
02000 ARAU, PERLIS, MALAYSIA.  
TEL: (05) - 959 9887 / 49 750 751  
FAX: (05) - 976 9952

01<sup>st</sup> April 2014  
VICTOR EQUIPMENTS RESOURCES-SDN BHD  
No. 29A, Jalan SS15/4C,  
47500 Subang Jaya  
Selangor, Malaysia.

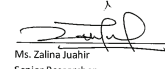
To Whom It May Concern

**APPRECIATION LETTER ON SERVICE & SUPPORT**

It was a pleasure of Shorubber Malaysia of working with Victor Equipments Resources, their services and equipment of Victor can only be recommended. During installation & training, Victor's engineer has trained us in detail so that we are able to do the test according to specifications.

Victor will always go extra miles to provide advice and solution, their experience and specialize in design and fabricating jig & fixtures had help us in cost saving by re-use our old accessories in new machine.

Thank you for your dedicated engineer and we are satisfied with your service support.

Yours sincerely,  
  
Ms. Zalina Juahir  
Senior Researcher

Shorubber (M) Sdn Bhd  
No. 20 Medan Bayan Lepas  
Kawasan Perindustrian (Fasa 4),  
Bayan Lepas, 11900  
Pulau Pinang

HEAD OFFICE : SHOWA CO., 565 TOHORI HIMEJI, HYOGO JAPAN 670-0802  
TEL : (0792) 64-1234 FAX : (0792) 64-1516

**ORIENTAL STEEL PIPE**


01<sup>st</sup> June 2011  
VICTOR EQUIPMENTS RESOURCES  
No. 29A, Jalan SS15/4C,  
47500 Subang Jaya  
Selangor, Malaysia.

Dear Sir,

**LETTER OF APPRECIATION**

It is a real pleasure working with the professional and courteous staff at Victor Equipments Resources. The service team of Victor goes well beyond the normal call of duty and committed to resolve problem we have faced far beyond normal working hour. We are happy to have Victor Equipments Resources, a company with dedicated and sound knowledge engineer working with us.

Thank you.

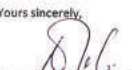
Yours sincerely,  
  
Mr. Hoo (QA Manager)  
Oriental Steel Pipe Sdn Bhd  
Lot 3, Lorong Sg. Chandong,  
Taman Perindustrian Pulau Indah,  
42009 Pelabuhan Klang, Selangor  
Tel: 03-3101 3423  
Fax: 03-3101 3426


**Menang Nusantara Sdn. Bhd.**  
(Co. No. 337922-W)

To Whom It May Concern

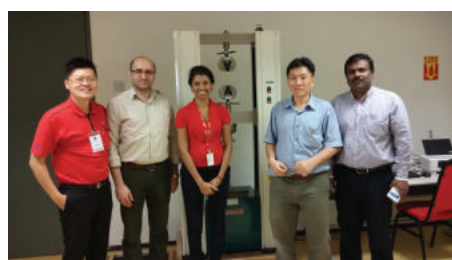
1<sup>st</sup> November 2011

Our experience to date has proved that choosing Victor Equipments Resources as our supplier was the right one. We are very satisfied with the handling of the testing machine, the responsible engineers and the quality service that they provide.

Yours sincerely,  
  
Ms. Noor Aida Jalaludin  
Purchasing Executive  
Lot 1, Jalan 5,  
Taman Cheras Jaya,  
43200 Balakong, Selangor  
Tel: 03-9076 5361  
Fax: 03-9074 6043

  
Lot 1, Jalan 5, Taman Cheras Jaya,  
43200 Balakong, Selangor Darul Ehsan.  
Tel: 03-9076 5361, 9074 6043 Fax: 03-9076 4361  
E-mail: menang@tm.net.my









**MICRO**

CMM, Profile Projector, Video Measuring System, Video Tool-Maker Microscope

**x-rite**

Colour Measurement Instruments

**Skyray**

X-ray Fluorescence Spectrometer For Elements Analysis, RoHS Detection, Coating Thickness Measurement

**ANALYTICAL INSTRUMENTS GROUP**

Spectrometer for Elements Analysis

**XAVIS**

X-Ray Machine for Casting, SMT Semicon

**TIME**

Hardness Tester, Roughness Tester, Ultrasonic Thickness Gauge, Ultrasonic Flaw Detector, Vibration Tester

**Mahr**

Height Gauge, Roundness Tester, Contour Measuring Machine, Roughness Tester, Universal Length Measuring Machine

**Nabertherm**

Laboratory and Production Furnaces

**RHOPOINT INSTRUMENTS**

Glossmeter, Hazemeter, MFFT, Viscometer

**ElektroPhysik**

Measuring for Oberflächenbereich - Surface Testing Instruments  
Coating Thickness Gauge, Wall Thickness Gauge, Pinhole Detector

**SH SCIENTIFIC**

Water Bath, Oil bath Cold Lab Chamber, Autoclave Cleanroom Bench

Ball Mill, Universal Oven, Vacuum Oven, Incubator Muffle Furnace, Tube Furnace

**MERIDIAN**

[www.meridianinst.com](http://www.meridianinst.com)  
Temperature & Humidity Chamber, Accelerated Weathering Tester, Ozone Tester, Salt Spray Machine, Fade Tester, Aging Oven, Oven, Furnace, Vibration Testing System, Fume Cabinets

**ZEISS**

The Reference Machine in the Compact Class

**MICRO**

CMM, Portable Measuring Arm, Profile Projector, Video Measuring System, Video Tool-maker Microscope

[www.victormaterial.com](http://www.victormaterial.com)

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Paper & Packaging Testing Machine  
Plastic & Rubber Testing Machine  
Textile Testing Machine  
Furniture Testing Machine  
Metallographic Sample Preparation  
Metallographic Consumables  
Industrial Lapping & Polishing Machine  
Coating Test Equipment

**VICTOR**  
Material Testing Equipments

No 29A, Jalan SS 15/4C, 47500 Subang Jaya, Malaysia Tel : 03-5621 5786 Fax : 03-5621 5829