



COMETECH TESTING MACHINES CO., LTD.

No 46, Lane 20, Dafu Rd, Shengang Dist, Taichung city 429, Taiwan

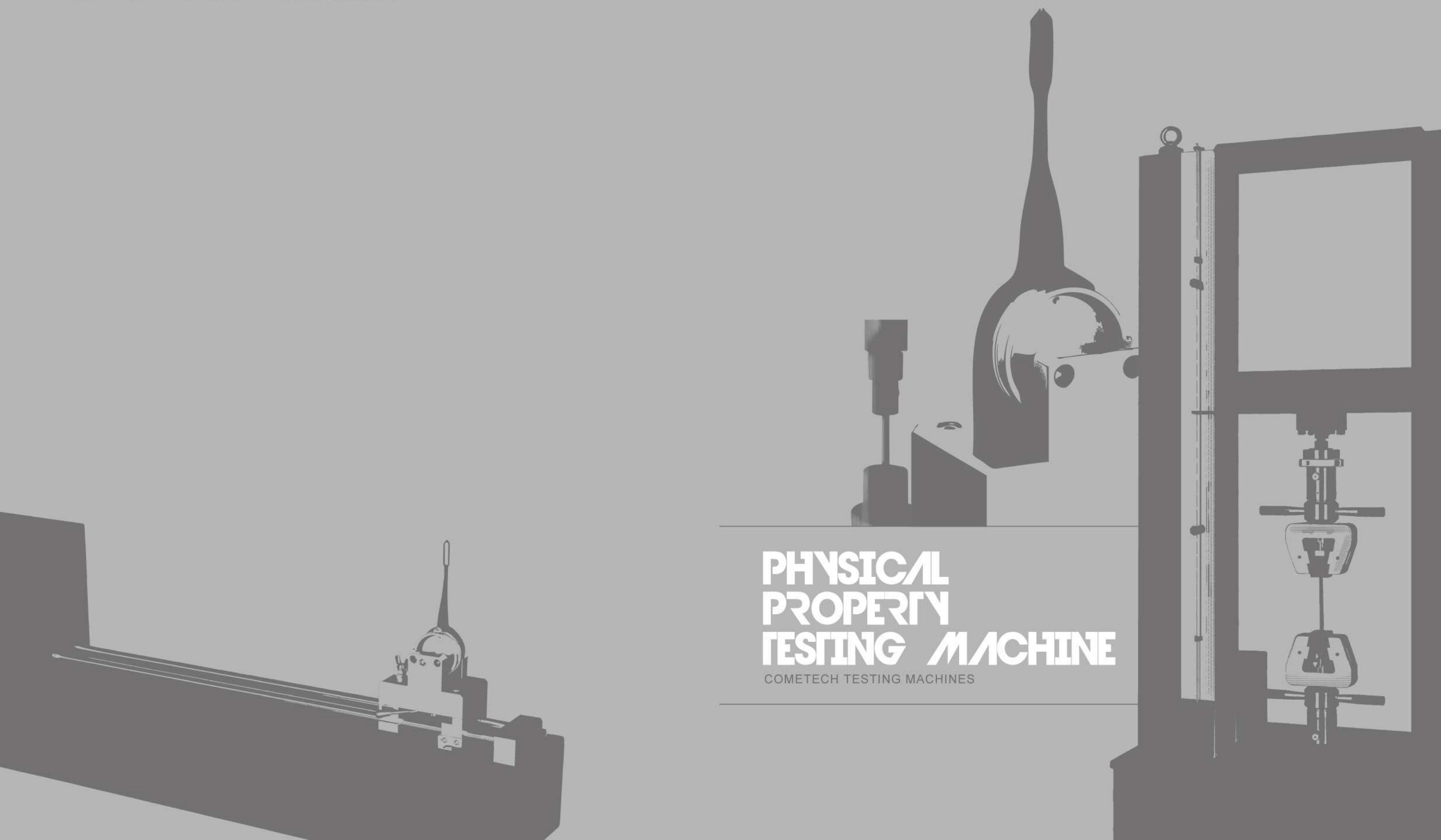
Tel/ 886-4-25297441 Fax/ 886-4-25297324

e-mail/ info@come-tech.com.tw www.come-tech.com.tw



PHYSICAL PROPERTY TESTING MACHINE

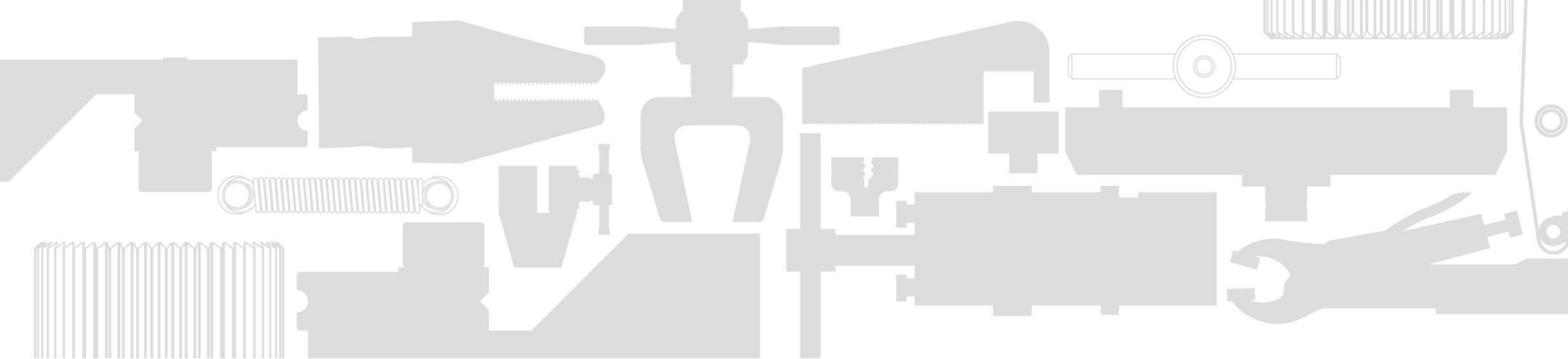
COMETECH TESTING MACHINES



TESTING MACHINES

PACKAGE
TEXTILE
TENSILE
RUBBER&PLASTIC
ADHESION
METAL
THE OTHERS





ABOUT COMETECH

HIGH QUALITY TECHNOLOGY PURSUER

It needs concentration and careful plan for testing machine production. Cometech team always continuously put effort on the process of development, design and manufacturing, this effort make Cometech products are keeping great progress.

Products quality, accuracy, safety and user-friendly design are on the list of our priorities. We have our own technology and out of the ordinary quality requirement to compete with other suppliers.

Keeping putting effort continuously in the development field, this strong point make Cometech substantially differs from other companies. On Product design, we put users as our first priority, standardization of indicated accessories that users are able to use and maintain Cometech equipment easily.

Take quality and accuracy as instrument is the most important point into consideration. Therefore, so far all of our products are designed and assembled in Taiwan. Use Taiwan high technique manpower and high accuracy components to keep Cometech quality is above the average level.

We have dominance in manufactory and development and always use these advantages to cooperate with different areas proprietors. Besides, we offer suggestions and plans for customers to reduce their cost efficiently and improve testing quality. By means of our excellent and abundant experiences and technology sharing, we always maintain good interaction with our esteemed customers.

TECHNOLOGY SERVICE SYNCHRONIZATION WITH EUROPE AND AMERICA

Several years overseas contract manufacturing and sales experience, Cometech outstanding performance differs from other Taiwan suppliers in quality requirement and upgrade technique.

AFTER SALE SERVICE

All machines must have full test before shipment and calibration report to take as out of factory record, it means each one of product has its own identification card which this can offer customer survey and maintenance service afterward. Products have their own complete data records that are Cometech guarantees to our customers. Professional service attitude and excellent and accuracy technology, perfect stock system and components supply let customers do not need to worry maintenance problems afterward. Cometech product life is above 10 years; therefore, our unshirkable responsibility is to make equipment function well.

In order to offer good service, Cometech development main point is to put users as our first priority. In order to meet with overseas customers' installation and repair demand, Cometech machines let amateur users can also easily change components and have accessories installation. This new development manufacturing mold help overseas agents win their customers satisfaction and praise easily.

Therefore, Cometech also can offer engineer dispatched home service as your special request.

COMPLETE TECHNIQUE DATA OFFER

Complete technique data includes catalogue, operation illustration and different standards with testing working process and so on.

Cometech provide operation manual of maintenance, operation and setting, etc. Users can use these data to handle, maintain their machines and execute hardware and software upgraded functions successfully.

Software upgraded and special custom-made requirement, inside to outside entirely plan make user can feel at ease to use and purchase. Cometech will concentrate on this way and go forward to produce more human-friendly and high accuracy multi-function products.

TIME-TESTED & CUSTOMER RECOMMENDATION

Since established in 1984, Cometech always absorbed in strengthen self designed capacity and produced technology ability as goal in order to let products stability win customers trust. No mater inland or overseas agents or end-users, Cometech products always offer customers satisfied answers. We use highest standard to treat our customers and products, their public praise introduction is always the biggest source of our new customers. Therefore, Cometech customers trust in our concentration for quality requirement and after sale service in recent 20 years.

1 PACKAGE TESTING EQUIPMENTS

Cometech has many years experience in this testing equipment field with complete self design capacity, increasing the accuracy of machine as per clients' special requirement.

3 TENSILE TESTING MACHINE

Cometech start its material testing machine production since 1984. It becomes the major product for Cometech, especially with the abundant experience of overseas OEM, we have outstanding performance compared with other competitors in equipment maturity, stability and accuracy.

5 ADHESION TESTING EQUIPMENTS

The most common testing method for tape testing is 180° & 90° peel test. It will have environmental temperature request according to tape using property, such as test under high or low temperature. Cometech provides complete testing machines for clients to make choices. For instance, holding force, initial adhesion, high speed peel and multi-angle peel test, etc. Also include specimen cutting equipment.

7 THE OTHERS

Cometech has its self-design machines as per clients' request. Also being several overseas agencies on related products in order to provide a variety of testing equipments for clients. Our future new products aim at developing industries demand such as electronics, solar energy and Medical & Biotech materials.

2 TEXTILE & FABRIC TESTING EQUIPMENTS

Test textile raw material strength, fastness, abrasion-resistance and color matching. Related test for finished products and raw materials which are needed in the process of textile production.

4 RUBBER & PLASTIC TESTING EQUIPMENTS

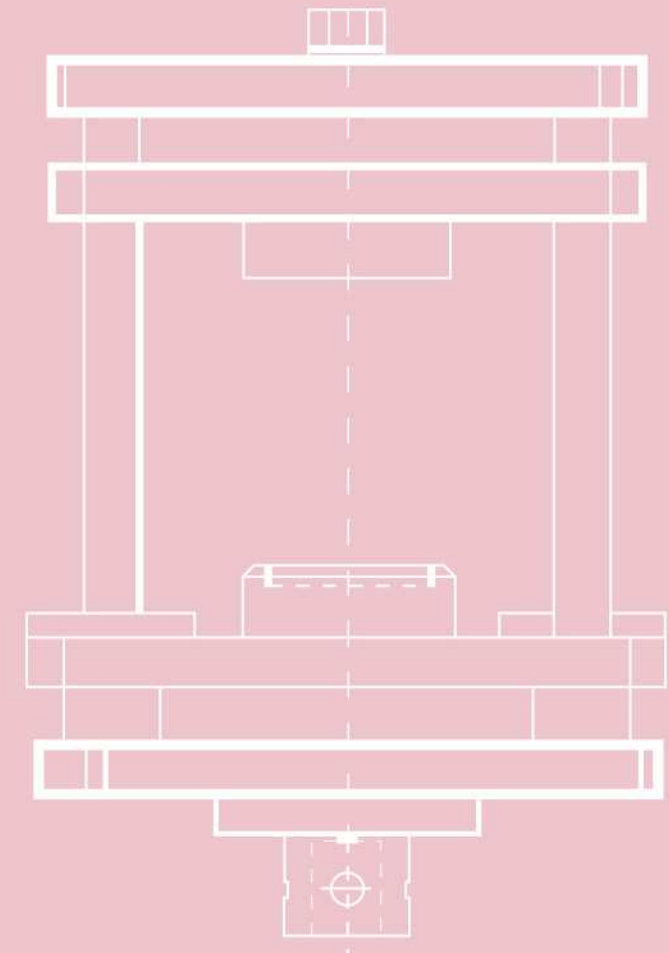
Polymeric materials have many strong points, but we need to know each material characteristic in order to use it properly. Cometech provides a wide range of testing machines, so our R&D Specialists have enough information to design qualified products.

6 METAL TESTING MACHINE

Cometech provides fatigue tester, impact tester and tensile tester related with spring test. These important equipment offer users to proceed with high accuracy test.

PACKAGE TESTING MACHINES

Cometech has many years experience in this testing equipment field with complete self design capacity, increasing the accuracy of machine as per clients' special requirement.



Package Testing Machines



QC-101B1 Carton Compression Tester

This machine for measuring the compressive resistance of carton and similar package material, to know the limit of stacking. Refer to the testing result to know if the material of package and the structural could conform to the required strength.

	QC-101B1-A	QC-101B1-B	QC-101B1-C	QC-101B1-D
Testing Space	100x100x90 cm	120x120x100 cm	100x100x90 cm	120x120x100 cm
Capacity	2000kg	2000kg	5000kg	5000kg
Testing Speed	1~200mm/min			
Dimension	175x100x200 cm	185x120x215 cm	175x100x205 cm	185x120x220 cm
Weight	800kg	900kg	850kg	950kg



QC-105 Spherical-stress Sample Cutter

This tester can cut a parallel specimen with smooth edge. Sample size can be adjusted according to customer's requirement. It is suitable for cutting paper, copper foil and aluminum foil and for tensile, ring-type compression of specimen use.

	QC-105A	QC-105B
Cutter Size	6"x1/2" (152.4mmx12.7mm)	250x15mm
Suitable	Ring-Crush Test	Tensile Test
Dimension	67x45x47mm	
Weight	32kg	



QC-115 Bursting Strength Tester

This tester uses oil pressure to break specimen through rubber film. When the specimen strength lower than oil pressure, the specimen will be broken and the result from specimen of bursting strength.

	QC-115D	QC-115E	QC-115
Capacity	0.1 ~ 100 Kg/cm ²	0.1~40kg/cm ²	10、20、50、100 Kg/cm (choose two)
Breaking Strength Indicator	Digital Display	Digital Display	Remaining needle
Speed Of Pressurization	High pressure : 170 ± 20 ml/min	Low pressure: 95±10ml/min	High pressure : 170 ± 20 ml/min
Diameter of Clamping	Upper plate : 31.5mm ± 0.05mmΦ Lower plate : 31.5mm ± 0.05mmΦ	Upper plate: 30.48mm±0.03mmΦ Lower plate: 31.75mm±0.25mmΦ	Upper plate : 31.5mm ± 0.05mmΦ Lower plate : 31.5mm ± 0.05mmΦ
Size	37x53x50cm	37x53x50cm	37x53x50cm
Weight	60kg	60kg	60kg



QC-113 Pneumatic Type Drop Tester

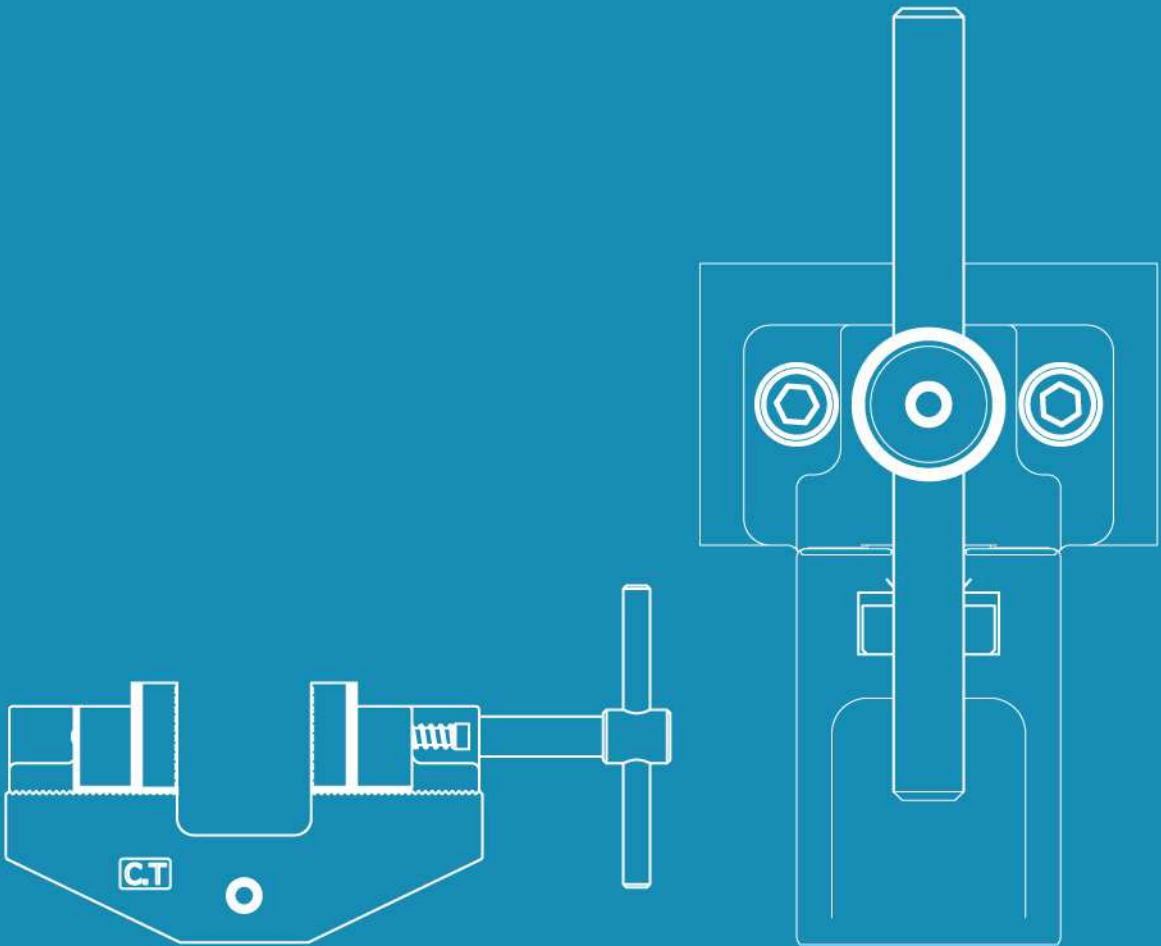
This tester is suitable for drop test resistant packaging material such as cardboard boxes, luggage, electrical appliances and other accessories...etc. It need to be simulated transport conditions to do test. The test result can be used as product packaging in the transportation process, or when falling down this machine, we can more sure how the good safety and complete when being delivered.

	QC-113A	QC-113B
Testing height	30 ~ 130 cm	30 ~ 180 cm
Moving speed	2000 mm/min	
Plate size	27 × 47 cm (W × D)	
Max.Load capacity of specimen holder	60 kg	
Max. packing of specification size	80x80x80 cm	
Weight	300 kg	



TEXTILE & FABRIC TESTING MACHINES

Test textile raw material strength, fastness, abrasion-resistance and color matching. Related test for finished products and raw materials which are needed in the process of textile production.



Textile & Fabric Testing Machines

Textile & Fabric Testing Machines



QC-302 Motor Wrap Reel

By this tester can take a certain number of turn and length of the yarn, and get yarn of strength and match with balance weight to calculate the number of yarn.

QC-302	
Number of yarn skeins	5 Set
Speed	200 R.P.M
Circumference	1 M/turn or 1.5 Yarn/Turn
Counter	0~99,999
Size	90x50x65cm
Weight	60kg

QC-317A Water Penetration Tester

This Tester is test the endurance of waterproof fabric, cloth or other material, as exposed to water (common use 1cm/sec), when water penetrate from waterproof and record the pressure which is waterproof of hydrostatic pressure.

QC-317A	
Specimen	8 inchx8 inch (about 20x20)
Surface pressure diameter	4.5 inch(about 114mm)
Clamping method	Pneumatic, able to preset gripping strength.
Water pressure height	0~1800mmH ₂ O(With Scale)
Size	65x70x260cm (WxDxH)
Weight	125kg



QC-309 Motor Twist Counter

The tester is able to examine "Twisted level" and "Twisted Shrinkage" of fiber or yarn no matter it is single or twisted. S and Z directions are all available.

QC-309	
Indicator	Digital Display
Speed	50~650RPM,Adjustable
Direction	S or Z Switchable
Specimen of size	5~52cm
Size	85x19x37cm (WxDxH)
Weight	12kg

QC-317 Portable Type Water Penetration Tester

It aims to test the water pressure-resistance for waterproof fabric or other material and it is portable and without electric power to do testing. It is convenience to use at working place as well.

QC-317M		QC-317N
Specimen of size	12x12cm	
Testing pressure diameter	9.4cm	
Pressure of range	Dual scale switching 0-2000 mmH ₂ O(0.2kg/cm ²) 0-10000 mmH ₂ O(1.0kg/cm ²)	0-10000mmH ₂ O (1.0kg/cm ²)
Dimension	35x20x32cm(WxDxH)	
Weight	5.9kg	



QC-309A Manual Twist Counter

The tester is able to examine "Twisted level" and "Twisted Shrinkage" of fiber or yarn no matter it is single or twisted. S and Z directions are all available.

QC-309A	
Indicator	Digital Display
Speed	Manual Control
Direction	Manual Control S or Z
Specimen of size	5~52cm
Size	95x19x37cm (WxDxH)
Weight	12kg

QC-319 Dyeing Rubbing Tester

Attach dry or wet white cloth to the abrasion head and abrade the specimen under certain load weights. User can evaluate the contamination level by observing the white cotton color to determinate the discoloration resistance level.

QC-319	
Testing quantity	6 piece/time
Specimen of size	22x3cm
Rubbing speed	30CPM
Load	200g or 500g
Rubbing distance	100mm
Counter	1~99,999
Dimension	45x65x35cm
Weight	45kg



Textile & Fabric Testing Machines



QC-701A Color Viewing Booth

Objects display color vary base on light source change. Simulate under various standard light source to compare if the test meet user's request.

QC-701A	
Inner box	67x37x35cm
Light source type	D65、TL84、CWF、A、UV total five type
Timer	5sets,record using time of each light.
Machine dimension	72x42x58cm
Machine weight	25kg



QC-PS Circular Sample cutter

The tester is used to create a circular sample speedily and accurately for testing purpose. It can be applied to textile material like fabric woven, Non Woven, Knitted Fabric and carpet, plastic sheet, expanded polystyrene, papery and wooden sheet, etc. It is indispensable instrument for clothing and dyeing factory.

QC-PS	
Sample area	100cm ²
Sample diameter	Φ113mm
Cutting thickness:	Around 5 mm
Machine Dimenseion	12x12x10cm
Machine Weight	1.3kg



QC-SM Thickness Gauge

With its small size, light weight, easy to carry, big dial plate design for reading value easily. Also, the wide varieties of specification and cheap prices become the most people best choice.

	SM-112	SM-114	SM-528	SM-1201
Read(mm)	0.01~10.0	0.01~10.0	0.01~20.0	0.001~1.00
Range(mm)	10	10	20	10
Depth(mm)	26	120	30	30
Load(N)	2.5	2.5	3.5	1.5



QC-305 Spray Tester

This tester may test water-proof or non-water-proof textile such as cloth, silk, wool, gunny and chemical fiber, etc. The purpose is to test the textile surface moisture resistance.

QC-305	
Sample size	18 x 18cm
Sample ring	Ø150 mm
Tilting angel	45°
Spray distance	6"
Water volume	250ml, Spray time:25~30 sec
Dimension	30 x 30 x 65cm
Weight	15kg



QC-337 Elmendorf Tearing Strength Tester

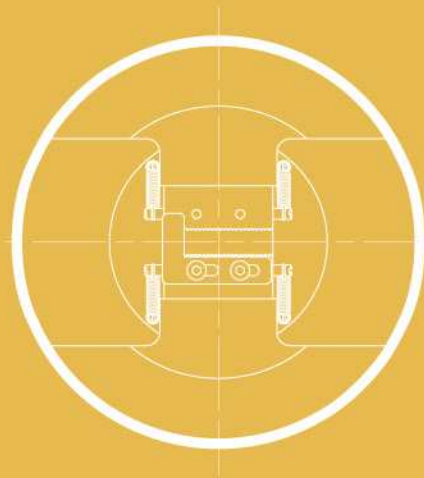
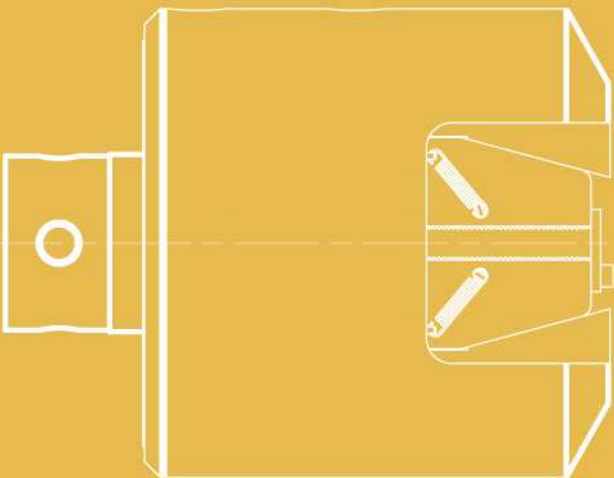
Cometech tearing strength tester is used to test the tear force of paper, fabric, PVC material in accordance with individual test strength. Grip the specimen and make a notch with cutter. Falling pendulum will swing through to tear the specimen. Meanwhile, the scale will indicate the tearing force. Tearing force can be adjusted according to various materials

	QC-337	QC-337A
Specimen size	63.5 x 100 mm	25 x 12 mm
Capacity	0~3200g/0~6400g Double capacity (changeable)with counterweight	1000g
Feature	With cutter. The needle point out the value of tear strength directly.	30
Dimension	47 x 25 x 38 cm	50 x 25 x 37 cm
Weight	25 kg	13 kg



TENSILE TESTING MACHINE

Cometech start its material testing machine production from 1984. It becomes the major product for Cometech, especially with the abundant experience of overseas OEM, we have outstanding performance compared with other competitors in equipment maturity, stability and accuracy.



Tensile Testing Machine



QC-500A2 Computerized Tensile Testing Machine

Rigid frame structure can stand metal material of high capacity testing requirement, dual testing space can install two different capacities at same time. The precise servo motor can provide stable testing speed. This series machine can match different controller and software, different software provides various functions. Strong and functional computer system provides a complete test function; assemble with different grips/accessories are able to do various material test.

	QC-500A2	QC-501A2	QC-502A2	QC-503A2
Capacity	500 KN	300 KN	200 KN	100 KN
Stroke (w/o Grips)	1000 mm	1000mm	1000mm	800 mm
Space between columns	550 mm	550 mm	550 mm	550 mm
Speed range	1 ~ 200 mm/min	1 ~ 200 mm/min	1 ~ 250 mm/min	1 ~ 350 mm/min
Dimension	135×72×250 cm	135×66×240 cm	135×65×240 cm	120×65×220cm
Weight	1200kg	950kg	950kg	800kg

QC-505A2 Computerized Server Tensile (Compression) Testing Machine

This machine with testing software has strong computer system which provides complete testing function. It can match different tensile, compression, bending and peel of grips to do all kind of material test.

	QC-505A2
Capacity	50 KN
Stroke (w/o Grips)	1200 mm
Space between Columns	420 mm
Speed range	1 ~ 500 mm /min adjustable(setting by computer)
Dimension	87 × 58 × 205 cm
Weight	370kg

QC-506A2 Computerized Server Tensile (Compression) Testing Machine

This machine with testing software has strong computer system which provides complete testing function. It can provide testing graph real time and many kind of unit changeable and compare testing data... etc of function. It is suitable for plastic, rubber, textile, leather, electron, paper, package and medical device of industries. It can do many kind of material test and products test.

	QC-506A2-204	QC-506A2-2L4
Capacity	10KN	
Testing Stroke	800mm	1250mm
Space Between Columns	425mm	
Speed Rangee	1~800mm/min	
Dimension	84x58x151cm	84x58x195cm
Weight	145kg	175kg

QC-508A2 Computerized Server Tensile (Compression) Testing Machine

The volume is small and the precise servo motor and such as ball screw driving parts supply with stable test speed. This testing is in common use on type, wire, spring and paper industries of relative testing. Strong and functional computer system provides a complete test function; assemble with different grips/accessories are able to do various material test.

	QC-508A2
Capacity	5 KN
Testing Stroke	800 mm (w/o Grips)
Testing Space	Ø140 mm
Speed Range	1 ~ 800 mm/min
Dimension	50×53×145cm
Weight	80kg

QC-513A2 Computerized Server Tensile (Compression) Testing Machine

The volume is small and the precise servo motor and such as ball screw driving parts supply with stable test speed. This testing is in common use on type, wire, spring and paper industries of relative testing. Strong and functional computer system provides a complete test function; assemble with different grips/accessories are able to do various material test.

	QC-513A2
Capacity	5 KN
Testing Stroke	400 mm (w/o Grips)
Testing Space	Ø140 mm
Speed Range	1 ~ 800 mm/min
Dimension	50×53×100cm
Weight	65kg

QC-528K Electronic Tensile Testing Machine

This test stand is design to be available to mounth with different brand/type of force gauge. The test stand is provided with displacement display, test speed is digital setting up, for small specimen, is the best choice as it is light and small without take space.

	QC-528K
Max. output	500N(50kgf)
Moving capacity	Depends on the capacity of mounted force gaug, but the maximum capacity, can't be over 500N.
Force resolution	According to the specification of force gauge.
Testing stroke(w/o Grips)	400 mm
Stroke resolution	0.05 mm
Speed range	3~600 mm/min
Testing space	55 mm
Dimension	47 x 29 x 81 cm
Weight	28 kg

QC-508E Computerized Tensile (Compression) Testing Machine (500N)

This is a light model with small volume which does not take space. It provides with stable test speed. The strong function computer system provides complete test function. It is available to carry out a variety of material test by mounting with different grips and accessory.

	QC-508E
Max. Capacity	500N (50kgf)
Force resolution	1/10000
Testing Stroke (w/o grips)	400mm
Speed range	6~600mm/min digital setting
Testing space	Ø100mm
Dimension	42×28×88cm
Weight	28kg

QC-536M1 Computerized Tensile Testing Machine

This machine is Cometech integrated common use functions model. This computerized tensile testing machine is easy to operate, save data, analyze curve and with its high expansibility, which offer user a reasonable economic model choice.

	QC-536M1-204	QC-536M1-2L4
Capacity	10 KN	
Stroke	650 mm	1100 mm
Width	410 mm	
Speed Range	0.2~900 mm/min Free setting	
Connection	TCP/IP	
Data capture speed	Fastest speed 100 Hz	
Dimension	85 x 45 x 126 cm	85 x 45 x 180 cm
Weight	110 kg	135 kg

Tensile Testing Machine



Tensile Testing Machine



QC-538M1 Computerized Tensile Testing Machine

This machine is Comotech specially focus on R&D and release model. We integrated powerful functions of tensile testing machine into easy operation and use accuracy components to low down machine breakdown rate. Users can reduce their purchasing budget to get high function model.

QC-538M1	
Capacity	2 KN
Stroke	650 mm
Stroke resolution	0.0001 mm
Testing space	Ø150 mm
Speed range	0.2 ~ 900 mm/min Free setting
Connection	TCP/IP
Data capture speed	Fastest speed100Hz
Dimension	50 × 42 × 124 cm
Weight	62 kg



QC-506LWH Temperature Tensile Testing Machine

Comotech release tensile testing machine with temperature control function with accuracy temperature chamber as integration. Specimen can proceed with tensile testing under different temperature environments to show its physical characteristic. This tester can be customized as per customer request for testing capacity, temperature range and testing space, below is standard specification.

QC-506LWH	
Capacity	1000 kg(MAX)
Inner chamber stroke Speed	300 mm 1-1000 mm/min
Inner Chamber space	300 x 300 x 580 (WxDxH) mm
Temperature range	-60 -200°C(indicated)



QC-557 Short Extensometer

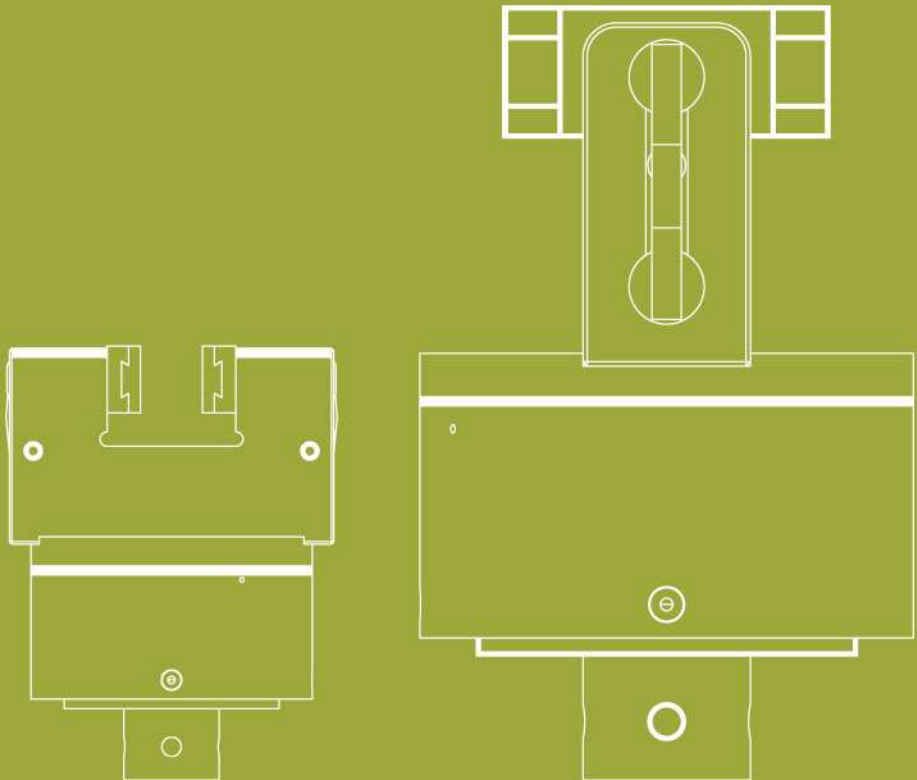
QC-557 is Comotech specially designed for test the short extendable materials elongation which can applies to metal, rigid plastic, etc. It can measure complete testing deformation rate without taking apart extensometer, if bigger elongation is required, short extensometer could be customized.

QC-557	
Gauge Length	25mm / 50mm (Two Gauge Length for changeable)
Elongation	100% (25mm) / 50%(50mm)
Specimen thickness	0-22mm
Circle type specimen diameter	6-22mm
Resolution	0.5µm
Output signal	OC one-port output / A, B phase difference
Max output frequency	64KHZ
Input voltage	DC5V±5%
Voltage	AC100-240V
Weight	162g



RUBBER & PLASTIC TESTING EQUIPMENTS

Polymeric materials have many strong points, but we need to know each material characteristic in order to use it properly. Comotech provides a wide range of testing machines, so our R&D Specialists have enough information to design qualified products.



Rubber & Plastic Testing Equipments

**QC-601T Manual Thermos Press Forming**

This tester is a bench-top manual press forming machines. The table type of Manual Press Forming Machine with new design, small and light, more convenience for operating. Great assistant for making specimen.

QC-601T

Pressure	2t	5t	10t	20t
Temperature	Room temperature ~ 300°C			
Timer	0 ~ 999 minute			
Heating plate size	15×15 cm			
Electric hot plate distance	60~120 mm (adjustable)			
Accessory	forming mold for specimen, one set			
Dimension	60×35×75 cm			
Weight	110 kg		120 kg	150 kg

QC-601A Manual Forming Machine

Put the plastic (or rubber) raw material into the casting mold between the upper and lower heating plate, implement pressure and temperature, to form the material into a standard shape to be a sample to serve for test, or to be an example of color comparison, also to be example before mass-production.

QC-601A

Pressure	5t	10t	20t	30t	50t
Temperature	Room temperature ~ 300°C				
Cooling method	Cooling water circulation(optional)				
Timer	0 ~ 999 minute				
Electric hot plate size	25 × 25 cm (standard) + 30×30cm (optional)				
Electric hot plate distance	60~120 mm (adjustable)				
Dimension	47×62×145 cm				
Weight	260 kg		300 kg		350 kg

QC-602A Electrical Forming Machine

This machine of main function has heating device in upper and lower platen. It can through electric oil pressure in upper and lower platen. It also can choose platen with cooling function and make less specimen, press and product in lab.

QC-602A

Pressure	10t	20t	30t	50t
Temperature	Room temperature ~ 300°C			
Timer	0 ~ 999 minute			
Electric hot plate size	300×300 mm			
Electric hot plate distance	60~120 mm (adjustable)			
Dimension	112×65×137 cm(W×D×H)			
Weight	380kg	420kg	480kg	550kg

QC-672 Electrical Manual Thermos Press Forming Machine

Automated molding step, put the plastic or rubber material into the mold and after start pre-press the specimen, heating, molding, cooling of steps. The material is according to the mold become shape. It provides for testing or compares color or makes less specimen and used as the basis for factory mass-produced ingredients.

QC-672

Pressure	10, 30, 50ton (optional)
Temperature	Room temperature~ 300°C
Electric hot plate size	30×30 cm(or designate)
Electric hot plate distance	120 mm (Max.)
Accessory	Flat specimen mold, one set
Temperature can be set	Forming temperature, open model temperature
Pressure can be set	Pre-pressure, molding pressure
Dimension	110×70×152 cm(W×D×H)



Rubber & Plastic Testing Equipments

QC-603A Pneumatic Specimen Press

This tester is pneumatic type with double switch safety design. It greatly increased the safety of operation and match with all kinds of cutting mold used to quickly cut out various shape of the specimens.

QC-603A

Suitable material	Rubber, soft plastic (hardness under A90 degree) & leather...etc.
Diameter plate	Upper plateφ145 mm, Lower plate 260 x 230 mmV
Output stroke	103 mm
Output	900 kg
Power	3 ~ 6 kg/cm²
Dimension	35 × 42 × 63 cm
Weight	55 kg

**QC-603C Air-Hydro Specimen Punch**

This tester modified from the QC-603A-type, the main change is the use of some air oil conversion increased the machine's output and able to cut the hardness material. This tester is use pressure-driven machine with dual-switch to safe design with safe operation and with all kinds of cutting die used to quickly cut out various shapes of the specimens.

QC-603C

Suitable material	Hardness plastic (hardness under A90) & cloth
Diameter plate	Upper plate size:35 ×16cm , Lower plate size:35 x 18cm
Output stroke	20 mm
Output	3000 kg
Power	3 ~ 6 kg/cm²
Dimension	42×45×105 cm
Weight	80 kg

**QC-603G Hardness Specimen Cutting Device**

Higher or thicken of Polymer specimen hardness can not in general of the knife cut into the required shape, generally, the specimen will be formed directly in the mold to be the appearance or use machine tool with the mold of the specimen processed by way of appearance.

QC-603G

Cutting speed	High speed 3600 RPM + Low speed1800 RPM
Specimen thickness	2 ~ 30 mm
Minimum cutting angle	R=8 mm(cutter of radius)
Dimension	47×40×45cm (W x D x H)
Weight	60 kg

**QC-605 Oven**

Excellent thermal insulation of the body design and precision electronic temperature controller, so that the test machine's heating up fast, low power consumption,Prolonged use of body surface heating; over-temperature protection features enhance the use of more security.

QC-605M

QC-605L

Temperature range	40°C ~ 200°C	
Heating type	Hot air circular with two sets of heater	
Accessory	Two shelves, Shelves Height adjustable.	
Inner size	40×40×45 cm	50×50×60 cm
Outer size	74×64×118 cm	100×70×115 cm
Weight	70 kg	90 kg



Rubber & Plastic Testing Equipments

**QC-607 Aging Oven**

This machine is equipped with two layers of specimen racks, which rotate automatically to make specimen heated evenly. With an observing window, user can see the real condition of specimen without opening the door.

	QC-607M	QC-607L
Temperature range	Room temperature 40°C ~ 200°C	
Timer	0~999 hours	
Rotary table	2 layer, height adjustable	
Inner size	40×40×45 cm	50×50×60 cm
External size	74×64×118 cm	80×70×130 cm
Weight	75kg	95kg

QC-615A AKRON Abrasion Tester

Using grinding wheel and specimen into 15° tilt angle and perform friction between sample and grinding wheel by rolling way, Using specimens before and after wear volume loss as a test piece of the anti-abrasion characteristics.

	QC-615A
Weights	2 pounds and 6 pounds
Testing angle	15° (adjustable)
Grinding wheel	# 40
Diameter of grinding wheel	150 mm
Dimension	65×45×45 cm
Weight	45 kg

QC-619K Taber Abrasion Tester

Using specified Grinding wheel with specified Load rubs the surface of specimen and then measures the weight difference after testing, records it as abrasion level. Some will evaluate the thickness of specimen by naked eye or by measurement.

	QC-619K
Grinding Wheel	Diameter 2inch, thickness 1/2 inch
Distance	Distance between two wheels center : 63.5 mm Distance between wheel and the center of tray : 38 mm
Rotary Speed	Step motor, 1~100 rpm, adjustable
Load	250g、500g、1000g
Machine dimension	55 × 38 × 47 cm
Machine weight	30 kg

QC-618A DIN Abrasion Tester

This tester is designed to test tire, conveyor belt, transmission belt, and shoe sole, etc., according to DIN standard. In simulate testing, it is considered the best way to test material which is in the working state of easily have abrasion and tearing.

	QC-618A
Sample size	diameter 16 mm, thickness 6 ~ 16mm
Load	2.5N、5N、10N
Wheel	Diameter 150 mm、Perimeter 471 mm、Rotary speed 40RPM
Sand paper	#60 or indicated
Specimen movement	4.2 mm / rev
Stroke	40 mm
Sample Tilt angle	3°
Machine dimension	81 × 32 × 36 cm
Machine weight	90 kg



Rubber & Plastic Testing Equipments

QC-621A Manual Crock Meter

This tester hammer head can grip dry or wet white cotton under 900g, to have abrasion test for specimen (common standard 10 times of test), observing discolor level of the cotton to determine the specimen color fastness condition.

	QC-621A
Abrasion head load	900 g
Abrasion head diameter	Ø16 mm, white cotton fixing ring
Abrasion distance	10±0.7 cm
Counter	LCD displayer, with zero setting
Machine dimension	60 × 28 × 24 cm (W×D×H)
Machine weight	5.5 kg

**QC-631 Compression & Deformation Tester**

It is for testing vulcanized rubber under a specified constant compression and heating condition to check the permanently deformation rate of the material. This test should collocate oven and thickness meter.

	QC-631
Specimen size	Ø28.68 × 12.7mm (rubber); 50 × 50 × 25 (H) (Foam plastic)
Material	Whole set is made by SUS 304 stainless steel.
3 pieces of compressed plates	The surface had been polished to provide an even surface for test
Interval ring	5.0, 7.62, 8.89, 9.52, 10.16 mm are available (10 interval rings of the same size will be offered for free).
Machine dimension	20×10×12cm
Machine weight	7kg

**QC-639 Universal Impact Tester**

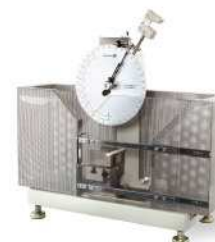
This tester is equipped with both IZOD and CHARPY type and made according to ASTM, including grips regulation and speed requirement. The whole tester design is perfectly adjusted to have easy and safe to use for users.

	QC-6390	QC-639A	QC-639B
Test type	Equipped with both IZOD and CHARPY vise		
Impact Angle	150°		
IZOD	Radius of striker edge 0.8mm Impact point to gripped specimen 22.5mm		
CHARPY	Radius of striker edge 3.175 mm Fixing knife edge Radius=1.0mm		
Capacity	3J、6J、12J	7J、14J、21J	1.5J、3J、4.5J
Machine dimension	60×30×76 cm	68×38×76 cm	60×30×76 cm
Machine weight	82 kg	160 kg	81 kg

**QC-639K Mechanical Impact Tester**

This tester can match with different grips and hammers to proceed with IZOD or CHARPY test. Operator can directly read the value of impact strength of material from panel. Specimen with base holder that insures it can be hold precisely and correctly. Equip with safety net to increase the safety.

	QC-639K
IZOD Impact	capacity : 1J、2.75J、5.5J、11J、22J
Charpy Impact	capacity : 1J、5J
Impact Angle	150°
Machine dimension	81×33×75 cm
Machine weight	125kg



Rubber & Plastic Testing Equipments



QC-639F Digital Impact Tester

This tester was built according to material impact resistance test. It is a high precision tester and easy to operate. Testing value will display on LCD panel directly without passing through complicated calculation.

QC-639F

IZOD test	capacity : 1J 、 2.75J 、 5.5J 、 11J 、 22J
Charpy test	capacity : 0.5J 、 1J 、 5J
Machine display angle	0.05°
Impact angle	150°
Display energy unit	J 、 J/mm 、 J/cm 、 J/mm² 、 J/cm² 、 KJ/m² 、 Kg-cm 、 Kg-cm/mm 、 Kg-cm/cm 、 ft-lb 、 ft-lb/in 、 ft-lb/in²
Machine dimension	80×38×75 cm
Machine weight	250 kg



QC-640 Impact Specimen Angle Cutting Device

This machine can cut impact test standard specimen to have a V shape notch, the specimen will be more stable and accuracy during operation. The cutter choice of V shape notch base on different standard. This device itself also can adjust the cutting depth to meet specimen requirement.

QC-640

Cutting speed	30-550 m/min (adjusted)
Notch Angle	45° (or indicated)
ample Size	Thickness 3 ~ 13 mm, height 10 ~ 13mm
Sample Length	14 cm (max.)
Cutting Radius	R=0.25 mm(or indicated)
Machine dimension	48 × 37 × 35 cm
Machine weight	40 kg



QC-641 DUPONT Impact Tester

This tester aims to test the impact endurance of coated material. Put coating on the steel plate and make standard specimen, use suitable impact head and energy to impact specimen. Evaluate the coating adhesion and crack state after steel plate deformed. The dimension, weight and height of hammer head can be chosen by user in accordance with different testing condition.

QC-641

Impact Height	50 ~ 500 mm
Impact weight	300g,500g,1000g per pcs
Impact head and fixed mother block	1/2",1/4",3/16",1/8" per set
Machine dimension	42×26×100 cm
Machine weight	45 kg



QC-654 Heat Deflection Tester

Heat Deflection test offer temperature a steady rising environment. Specimen endure certain load to test its bending resistance at this state, when specimen has deformation, record the deformation value when it reaches a specific temperature which be called material softening temperature.

QC-654

Temperature	40~200°C
Heating Speed	2±0.2 °C/min
Sample Dimension	127×12.7×6~15 mm
Loading Weights	10 、 20 、 30 、 50 、 100 、 200 、 300 、 500g per set
Deformation value	Mechanical type: 0.01 mm~10 mm indicator display : Digital type: 0.001-10.0mm digital display
Testing set	1 、 2 、 3 、 6set (Indicated)



QC-GS Holder For Hardness Gauge

This hardness gauge can provide precise load, heighten the accuracy and reproducibility during the hardness measurement test.

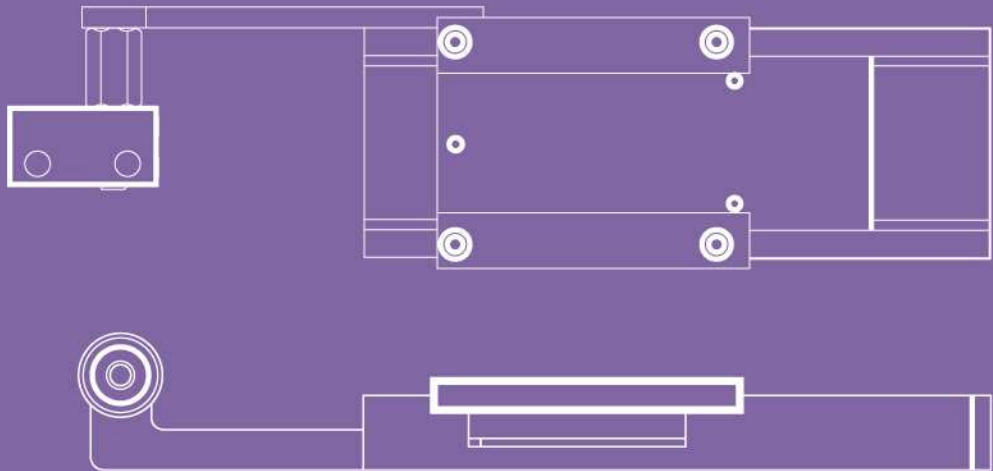
QC-GS

Loading Weight	1 kg 、 5 kg
Feature	Specimen height is adjustable
Machine Dimension	18 × 20 × 42 cm
Machine Weight	18 kg



ADHESION TESTING EQUIPMENTS

The most common testing method for tape testing is 180° & 90° peel test. It will have environmental temperature request according to tape using property, such as test under high or low temperature. Cometech provides complete testing machines for clients to make choices. For instance, holding force, initial adhesion, high speed peel and multi-angle peel test, etc. Also include specimen cutting equipment.



Adhesion Testing equipments



QC-801 Tape Retentivity Tester

The tester can record the time of adhesive force when tape sustain a certain weight, if there are many machines, they can be stacked to save space.

QC-801	
Testing jigs	10 sets
Load	1 kg×10pcs
Machine dimension	93×26×62 cm
Machine weight	45 kg



QC-802A Tape Retentivity Tester (Heating Tape)

This tester can simulate a high temperature environment, and record the adhesion time when the tape sustains a certain weight in a specific high temperature.

QC-802A	
Temperature	Room temperature~200°C
Testing jigs	10 sets
weights	1 kg(or other specification) × 10 pcs, stainless steel
Timer	Electronic LCD display, automatic retention time, 9999 hours, total 10 sets.
Machine dimension	100 × 50 × 92 cm
Machine weight	80 kg



QC-803A Manual Roller

Roller can provide a standard load, so that tape and objects can be well fit and can be produced specimen under the same conditions, reduce the error of adhesion test.

QC-803A	
Weight of Roller	2 kg
Speed of Roller	Control by hand
Machine dimension	13 × 22 × 8 cm
Machine weight	2.7 kg

QC-803K Motor Roller

Roller can provide a standard load, so that tape and objects can be well fit and can be produced specimen under the same conditions, reduce the error of adhesion test.

QC-803K	
Weight of Roller	2 kg(two roller can be used at the same time)
Speed of Roller	300 mm/min
Machine dimension	62 x 36 x 25 cm
Machine weight	38 kg



VT-03/04F Viscosimeter

VT-03F/VT-04F is suitable for wide range viscosity measurement such as industrial materials heavy oil, paint and binder, etc. It can do quality control in the process of manufacturing for food and other production. While examining engineering vehicles or other machinery, it also can measure hydraulic pressure oil, light axle oil and gear oil, etc.

VT-03F(low viscosity)		VT-04F(low viscosity)
Measurement range	No. 4 rotary tube No. 5 rotary tube No. 3 rotary tube	No. 3 rotary tube No. 1 rotary tube No. 2 rotary tube
Liquid sampling volume	Around 460 mL	No. 1 and No. 2 rotary tube around 300mL, No. 3 rotary tube around 170mL
Rotary cylinder speed	62.5rpm	
Volume	9.8(width) x 18.1(length) x 4(height)cm	
Weight	Around 570 grams (w/o battery)	



QC-507E Horizontal Tensile Tester / Light capacity(100N)

Comtech QC-507E is especially designed for 180° peeling test. It can reduce specimen self weight to affect the testing strength while doing test. Small size can save space and easy to operate. It is suitable for light capacity within 100N which can be matched with various grips and jaws and also is suitable for electrical and tape, etc.

QC-507E	
Max capacity	100N (10kgf)
Stroke(w/o grip)	300mm
Fastest test speed	500mm/min
Lowest test speed	5mm/min
Connection	USB
Strength resolution	1/10,000
Dimension	92×30×38 cm
Weight	36kg
Power	100~240VAC ,3A



Adhesion Testing equipments

Adhesion Testing equipments



QC-805 One Set of Tape Initial Adhesion Tester
Using steel ball to roll on tape, and then use the rolled distance before steel ball is stuck by tape and its size, to determine the initial adhesion.

QC-805	
Test angle	0° ~ 40° Adjustable (common use 30°)
Run-up distance	100 mm
Machine dimension	60 × 20 × 49 cm
Machine weight	15 kg



QC-805A Four Set of Tape Initial Adhesion Tester
Using steel ball to roll on tape, and then use the rolled distance before steel ball is stuck by tape and its size, to determine the initial adhesion.

QC-805A	
Test angle	20° ~ 40° Adjustable (Common use 30°)
Run-up distance	100 mm
Machine dimension	55 × 30 × 30 cm
Machine weight	35 kg



QC-805P PSTC Tape Initial Adhesion Tester
This tester provides a fixed angle track for steel ball, and then use the rolled distance before steel ball is stuck by tape to determine the initial adhesion.

QC-805P	
Track Angle	21.3°
Track Length	6.5 inch
Size	23 × 6 × 7 cm
Weight	800 g



QC-527A2 Adhesion Testing Machine
Horizontal type tensile testing machine is mainly applied to peel or friction test. The tilting angle of test table and the height of load cell can be adjusted according to the individual test demand. It's very convenience to control machine and analyze data through the help of software.

QC-527A2	
Max. output	500N
Moving speed	100-30,000mm/min adjustable
Moving stroke	500mm

The load cell can adjust position, height and angle of direction to multi-angle of testing requirement.

METAL TESTING MACHINE

Cometech provides fatigue tester, impact tester and tensile tester related with spring test. These important equipment offer users to proceed with high accuracy test.



Metal Testing Machine



QC-901 Spring Fatigue Testing Machine

This machine is able to test 5 springs at the same time and record test value automatically when spring break. Operation panel has touch-screen setting, which enable user to have quick test, easy adjustment and easy to operate.

QC-901	
Max capacity	50 kg (depending on the test stroke)
Max stroke	160 mm
Max testing distance	180 mm
Testing quantity	5
Max testing speed	20 ~ 500(rpm)
Max testing time	999,999,999
Machine dimension	72 × 115 × 142 cm
Machine weight	190 kg



QC-902 Spring Twist Test Machine

Springs will be twisted by clockwise and anti-clockwise direction until it breaks. Torque angle can be indicated by user, even have over 360° angle, multiple angle and speed setting. The machine can be set for downtime function when spring breaks. It is equipped with protective cover to ensure the safety during the operation.

QC-902	
Max torsion	9 N-m
Test station	4
Max test speed	0.1 ~ 100 rpm
Max test time	9,999,999
Machine dimension	80 × 70 × 82 cm
Machine weight	120 kg



QC-711 Salt Water Spray Tester

This tester is used for testing the corrosiveness resistance of material electroplated, paint coated or positive electrodes. Use fog salt water to speed up the corrosion. It is suitable for research unit like hardware, screw and electroplating industry.

QC-711M		QC-711L
Heater	1000W	2000W
Temperature range	Chamber	Room Temp.~ 35°C
	Air	Room Temp. ~ 47°C
	Compressed air Pressure	0.8 ~ 2.0 ± 0.01
	Spray volume	0.5 ~ 3.0
	P.H.	Salt Spray 6.5 ~ 7.2 Cu CooH 3.0 ~ 3.2
Internal Dim W × H × D(cm)	60 × 40 × 45	90 × 50 × 60
External Dim. W × H × D(cm)	125 × 112 × 94	155 × 128 × 105
Machine weight	90 kg	120 kg



QC-913 Digital Metal Impact Tester

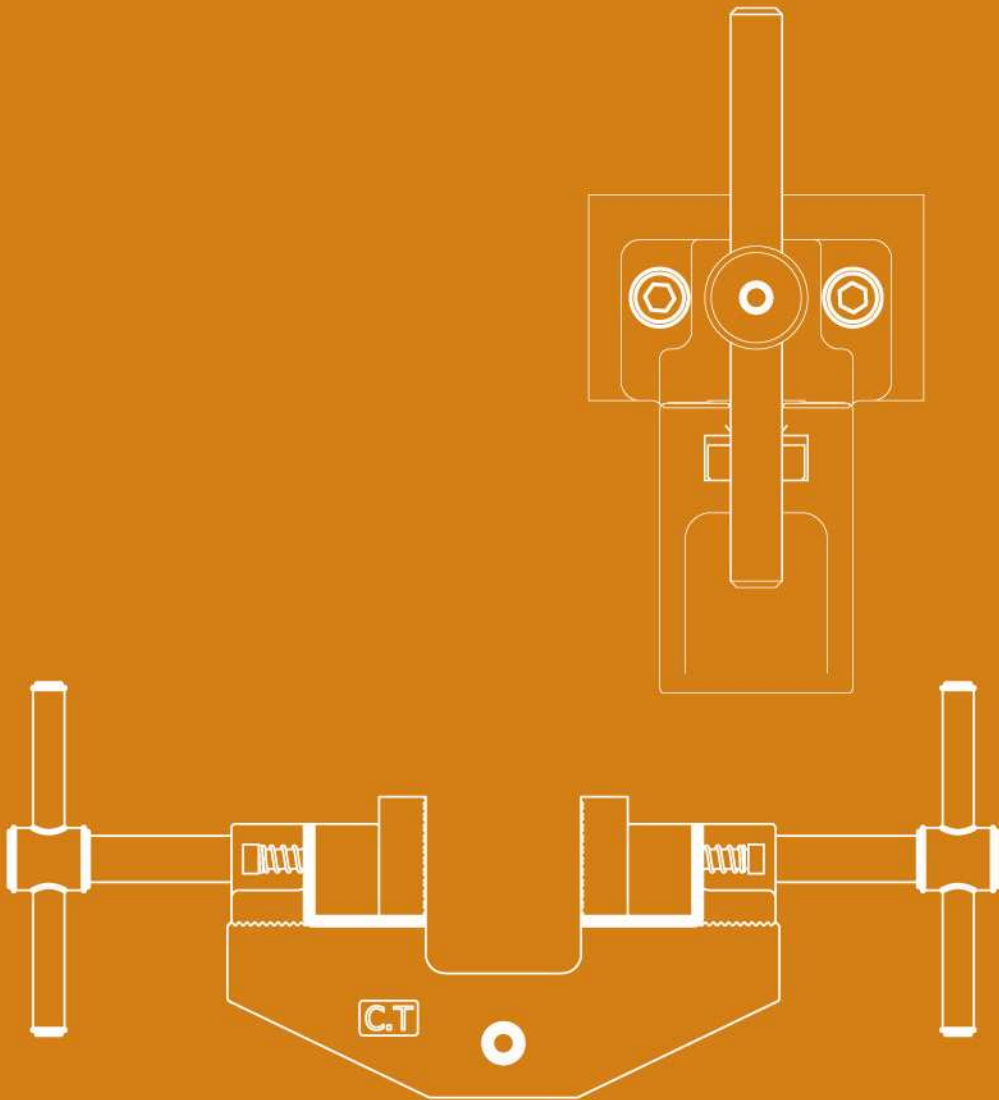
This tester is a high precision tester and easy to operate. Testing value will display on LCD panel directly without passing through complicated calculation. This tester was built impact energy calculation, machine loss energy, and unit conversion formula in the controller, specimen energy value can be directly read after finishing the test.

QC-913	
Charpy test (According to EN 10 045-1)	Capacity : 100J、150J、(Several capacity for indication), Depend on impact hammer. Impact speed : 5 m/sec ± 10% radius of striker edge : 2 ± 0.5 mm. Specimen length : 55 mm
Machine display angle	0.05°
Impact angle	140°
Display energy unit	J、J/mm、J/cm、J/mm²、J/cm²、KJ/m²、Kg-cm、 Kg-cm/mm、Kg-cm/cm、ft-lb、ft-lb/in、ft-lb/in²
Machine dimension	188 × 65 × 178 cm
Machine weight	710 kg



THE OTHERS

Cometech has its self-design machines as per clients' request. Also being several agencies for overseas related products in order to provide a variety of testing equipment for clients. Our future new products aim at developing industries demand such as electronics, solar energy and Medical & Biotech materials.



The Others



QC-T60 Closure Torque Tester

This tester is easy to operate which can be twisted by clockwise and anti-clockwise direction. Containers of round or irregular shapes with diameter of 10-190mm can be quickly and securely held between the easily adjustable clamp posts.

QC-T60

Measurement Range	0 ~ 6 N·m · 0 ~ 60 kgf·cm · 0 ~ 50 lbf·in
Display Resolution	0.002 N·m · 0.02 kgf·cm · 0.01 lbf·in
Container Diameter	Φ10 ~ 190 mm
Units of Measurement	N·m · mN·m · N·cm · kgf·cm · gf·cm · lbf·ft · Bf·in · ozf·in
Brand	UK MECMESIN
Machine Dimension	30 × 28 × 13 cm
Machine Weight	3 kg



QC-621H Surface Hardness Abrasion Tester

This tester is test the discoloration condition and abrasion-resistant of painting surface such as coating, electroplating or dyeing by using white cotton cloth · emery stick, eraser, steel wool and so on to test the abrasion-resistant of specimens.

QC-621H

Counterweight	50g x1 · 100g x1 · 200g x1 · 300g x1 · 500g x1 · 1000g x1
Basic load	200g
Abrasion distance	10 ~ 100 mm adjustable
Sample Size	Width 20 ~ 200 mm · Thickness MAX 10 mm
Control Panel	5 ~ 100 CPM speed setting 1 ~ 9,999,999 times for setting
Power	100V ~ 240V · 50/60 Hz
Dimension	70 × 35 × 40 cm
Weight	46 kg



QC-PP & PPI Push-Pull Gauge

Mechanical Push-Pull Gauge is light and easy operating, high resolution and portable quality equipment.

Electronic Push-Pull Gauge can do simple load test, no matter on which products test, all could be used as special purpose machine. Cometech is specially designed lifting table in order to make direction and speed more stability, also can match with software to do full automatic material test. It is more convenient, accuracy and easier to do analysis.

Electronic PPI

Mechanical PP

Capacity	1KG · 10KG · 50KG · 100KG	1KG · 2KG · 3KG · 5KG · 10KG · 20KG · 30KG · 50KG
Resolution	1/2000	1/200



QC-703 High/ Low Constant Temperature Chamber

This machine offers quick and accuracy environmental temperature space, low temperature can reach -60°C and high temperature up to -150°C, inner chamber can be chosen as per customers requirement, whole stainless steel set make maintenance easier.

QC-703M

QC-703L

Inner size	400 x 500 x 400(WxHxD.mm)	500 x 600 x 500(WxHxD.mm)
External size	930 x 1310 x 810(WxHxD.mm)	1030 x 1410 x 910(WxHxD.mm)
Volume	80 L	150 L
Temperature range	Low tem. -10 ~ -60°C	High tem. 100 or 150°C
Temperature uniformity	±0.5°C	±0.5°C
Temperature stability	±0.2°C	±0.2°C

www.come-tech.com.tw