

VICTOR

Material Testing Equipment

Victor Manufacturing Tensile Machines



VICTOR MANUFACTURING SDN BHD

(1239671-P)

Supply & Distribution | Repair | Upgrade | Calibration

Universal Testing Machines / Tensile Machines & Accessories

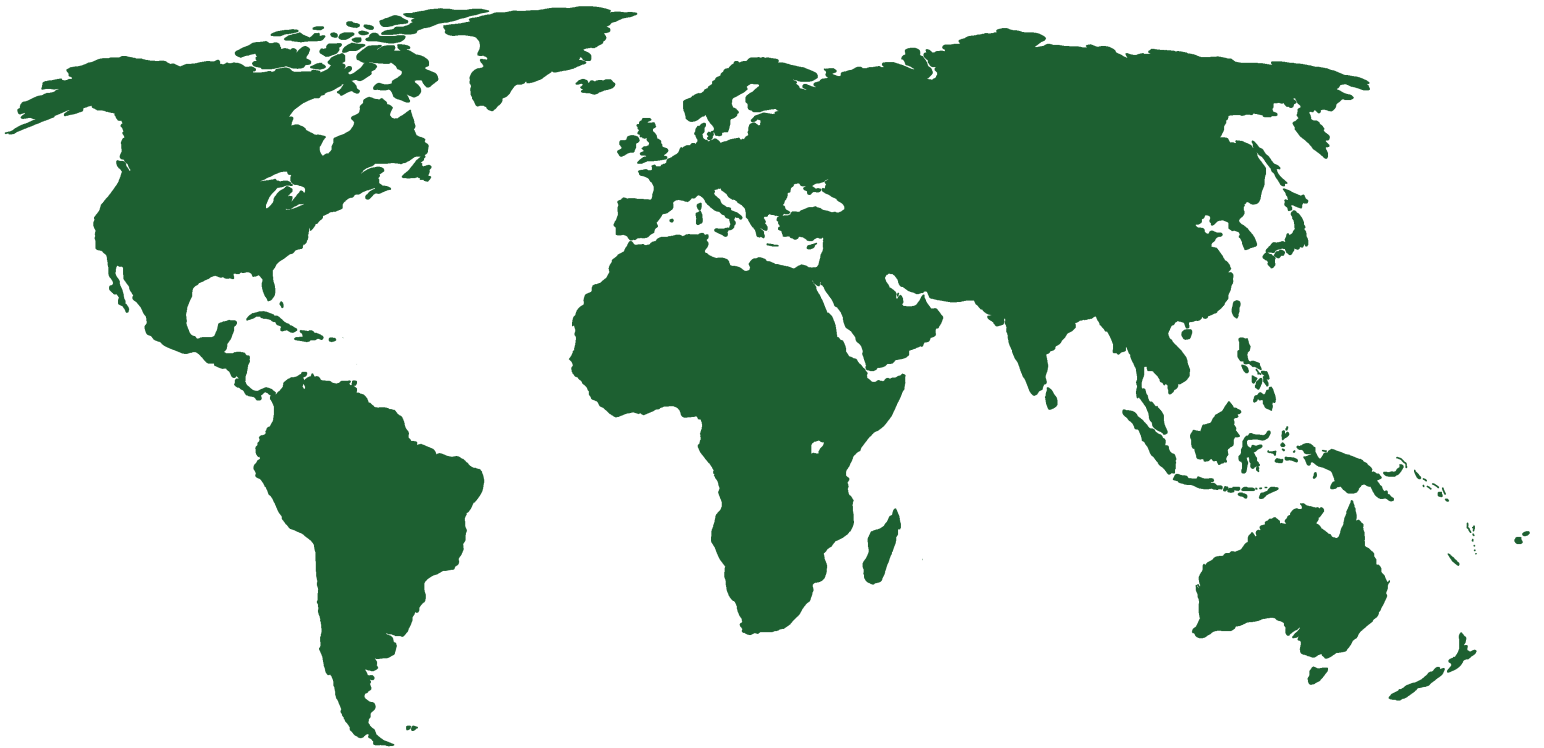
www.victortestingmachine.com

ObsnapGROUP

We Engineer Quality a Certainty
Since 1997

VICTOR MANUFACTURING

The Total Solution Provider for Material Testing Equipment



INTRODUCTION

Victor Manufacturing Sdn Bhd is a manufacturing branch of Victor Equipments Resources Sdn Bhd, which specialised in Material Testing & Sample Preparation Equipment and Systems.

Both companies are under **ObsnapGROUP** of Companies, which was established since 1997 and focuses in the supply & distribution of Measuring, Analysis, Detection & Material Testing Equipment and System.

On 2017, Victor focused its production of Universal Testing Machines within Malaysia as an innovative force in the development and delivery of precision material testing instruments for all types of materials, locally. Eventually Victor began its' manufacturing line and exported to various S.E.A countries (i.e. Australia, Dubai, Lome Africa, Vietnam, Singapore, Philippines, Indonesia, Thailand, etc).

Besides distribution of Material Testing Equipment. Victor is able to upgrade and customize tensile machine accordingly to customer's requirement with machines calibrated to ISO / IEC 17025.

VISION

To be the solution provider-of-choice for industrial and laboratory material testing equipment.

MISSION

To bring certainty in material research and reliability for testing to every laboratory in the world.

BUSINESS PARTNERS

The growing demand for material testing in the educational institutions is driving the material testing market. The increasing necessity to meet manufacturing standards, such as ASTM, and ISO, have resulted in high demand for material testing equipment.

Among types, the universal testing machines segment led the material testing market in 2016. Universal testing machines is the largest segment of the material testing market, owing to its affordable availability and its wide usage in various industries.

The material testing market in Asia Pacific is projected to grow at the highest CAGR during the forecast period. Asia Pacific is the largest and the fastest-growing market for material testing. It is also a major market for construction, educational institution, and automotive globally. Countries in Asia Pacific are expanding their production capacities and investing in new projects due to increasing industrialization. Growing economies, increasing population, and standard of living are driving the automotive, construction, and aerospace & defense industries in the region. This, in turn, is fuelling the growth of the material testing market in Asia Pacific.

Materials Testing is performed for a variety of reasons and can provide a wealth of information about the tested materials, prototypes or product samples.

Here are some of the reasons material testing is important:

- Meeting requirements of regulatory agencies
- Selecting appropriate materials and treatments for an application
- Evaluating product design or improvement specifications
- Verifying a production process

Victor Manufacturing is an associate company of Obsnap Instruments that established in 1997. With a combined experience of nearly twenty-two years of practical consultation and professional solution provider for material testing, Victor Manufacturing is formed with a pure intention to serve Malaysia and S.E.A. countries as an innovative force in the development and delivery of precision material testing equipment for all types of materials.

Now, we are expanding our reach across the region to serve the market better. Currently, Victor Manufacturing are searching for enthusiastic and caliber business partners around South-East Asia. We knew that in order to reach each country market, we need extra hands in the country itself. Thus, we are eagerly finding a distributor in your region so that we could share and spread the importance of material testing and its benefits to the industries.

CLIENTS SERVED



OUR PRODUCTS

VICTOR UNIVERSAL TESTING MACHINE

Victor Manufacturing manufactures Universal Testing Machine here locally in Malaysia. A universal testing machine is used to test the tensile stress and compressive strength of materials. It is named after the fact that it can perform many standard tensile and compression tests on materials, components, and structures. Also known as UTM, universal tester, material testing machine or tensile machine. UTMs specialize in providing material and engineering tests to determine tensile tests properties like:

- Ultimate tensile strength
- Breaking strength
- Maximum elongation and reduction in specific sample areas

Victor's computer-controlled Testing Machines are suitable for wide range of material for tension, compression, bending, shearing test etc. It is equipped with PC system for test control, test result analysis, data processing & printing. This broad portfolio of load frames, software and accessories delivers exceptional control, reliability, and ease-of-use to address a full range of monotonic test applications.

Victor UTMs are constructed with a variety of components & part from USA, JAPAN & MALAYSIA that ensures premium quality with high precision and reliability.

Electromechanical Floor-Type



Electromechanical Bench-Top



Electromechanical Hydraulic



APPLICATION

Victor test systems are compliant with international standards and designed to meet the requirements of all common testing standards such as **ISO, JIS, ASTM, DIN** and others. They provide an ideal balance between functionality and cost, and are able to satisfy common testing needs across a broad range of industries while offering an excellent return on investment.

Victor's computer-controlled Testing Machines are suitable for wide range of material for tension, compression, bending, shearing test etc. It has high precision, high stiffness as well as high stability, equipped with PC system for test control, test result analysis, data processing & printing. Complete with modulus for metal, spring, textile, rubber, plastic and other material testing & creep test. It is widely used in quality control and research & development such as manufacturing, oil & gas industries, testing & research laboratory, education, etc

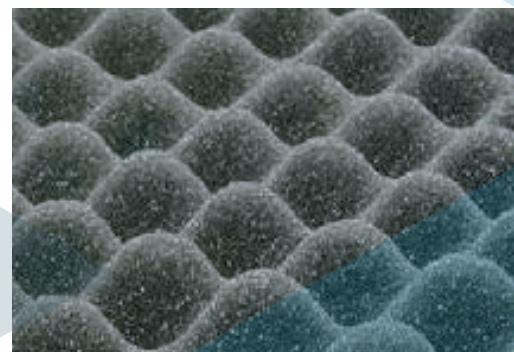
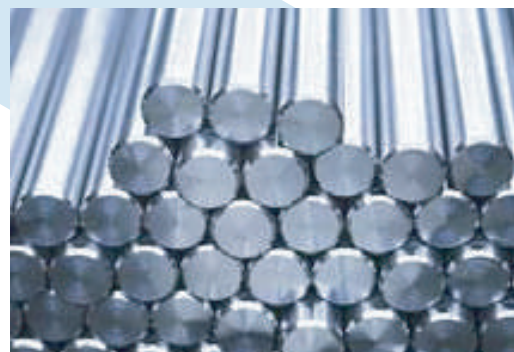
This broad portfolio of load frames, software and accessories delivers exceptional control, reliability, and ease-of-use to address a full range of monotonic test applications.

MATERIALS & COMPONENTS

- * Adhesives and coatings
- * Biomedical products
- * Composites
- * Construction materials
- * Fibers and textiles
- * Foam
- * Metals
- * Polymers
- * Wood and paper products

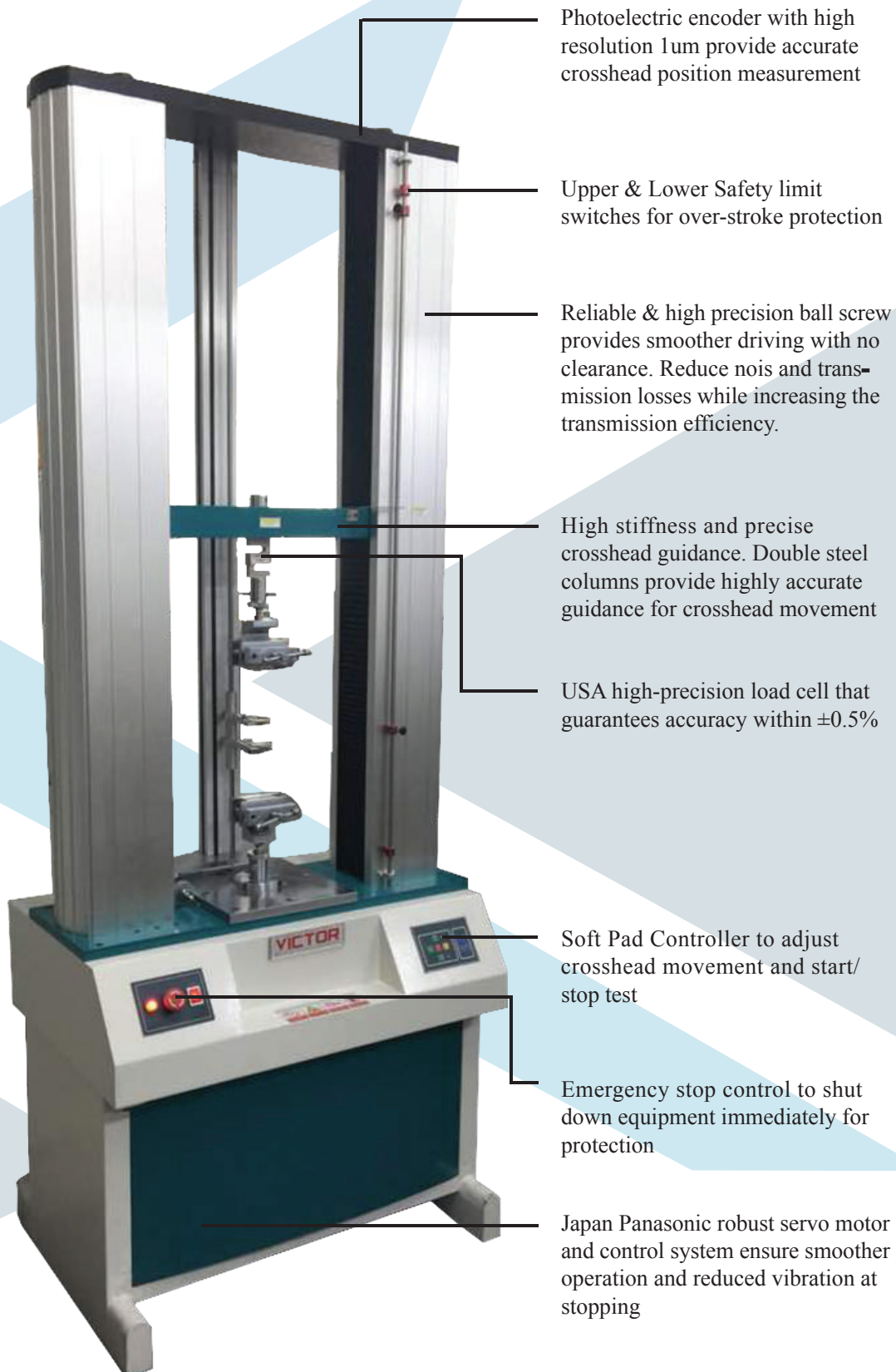
APPLICATIONS

- * Compression
- * Flex/bend
- * Peel
- * Shear
- * Tear
- * Tension



Product Overview

Victor UTMs are constructed with a variety of components & part from USA, JAPAN & MALAYSIA. To ensure you get the quality and precision of your testing procedures.



Photoelectric encoder with high resolution 1um provide accurate crosshead position measurement

Upper & Lower Safety limit switches for over-stroke protection

Reliable & high precision ball screw provides smoother driving with no clearance. Reduce noise and transmission losses while increasing the transmission efficiency.

High stiffness and precise crosshead guidance. Double steel columns provide highly accurate guidance for crosshead movement

USA high-precision load cell that guarantees accuracy within $\pm 0.5\%$

Soft Pad Controller to adjust crosshead movement and start/stop test

Emergency stop control to shut down equipment immediately for protection

Japan Panasonic robust servo motor and control system ensure smoother operation and reduced vibration at stopping

Universal Testing Machines - Electromechanical

Electromechanical Floor type VEW 2302 Series

TECHNICAL SPECIFICATIONS (VEW 2302 Series)

Capacity	50kN or 100kN
Test speed	0.05 - 500 mm/min
Maximum load	5,10,20 ton
Accuracy	Class 0.5
Effective measuring range	0.2 - 100% Full Scale
Load accuracy	±0.5%
Load resolution	1/300000
Load sensor	Max 4
Effective test width	400 mm
Effective tensile stroke	1200 mm
Accuracy of displacement measurement	±0.5%
Accuracy of measured deformation	Tolerance: ±0.5% (according to requirement of customer to choose the larger or small deformation)
Safety	Electronic-limit protection
Jog Controller	Fast /slow two speeds to control, can jog
Back to function of testing platform	Manual or automatic operation After the test, the moving iron return to initial position with the highest speed by manual or automatic operation
Overload protection	Overload 10%, automatic protection
Dimension	1070 x 560 x 2100 mm (L x W x H)
Power Supply	3 Phase 415V, 50HZ
Weight	Approx. 320 kg



Electromechanical Benchtop Type VEW 220 Series

TECHNICAL SPECIFICATIONS (VEW 220 Series)

Load capacity	50N, 100N, 200N, 500N, 1000N
Load resolution	1/ 300000
Load accuracy	≤ ±0.5 % from 0.2% - 100% full scale
Strain measurement accuracy	±0.5% of reading down to 1/50 of full scale with ASTM E 83 class B or ISO 9513 class 0.5 extensometer.
Power magnification	7 automatic switching
Displacement resolution	0.001 mm
Displacement accuracy	≤ ±0.5 %
Extensometer resolution	0.001 mm
Extensometer accuracy	≤ ±0.5 %
Speed range	0.01 – 500 mm/min or 1000 mm/min (Optional)
Crosshead speed accuracy	Better than ±0.2% of set speed Twin ball screw driven with close-loop servo and motor control.
Effective Tensile Stroke	500mm
Safety	Electronic Safety Limit Switch Protection
Auto or Manual Return	Auto/Manual Return after testing
Jog Controller	2 speed control mode
Overload Protection	Setting 5~10% Overload Protection. Automatic Shutdown the system
Load unit	N, kN, kgf, lb, Ton etc
Power Supply	Single Phase 220V 50Hz
Dimension(L x W x H)	450mm x 580mm x 1350mm (LxWxH)
Weight (kg)	Approx. 35kg



Universal Testing Machines - Electromechanical

Electromechanical Floor type VEW 2308 Series

TECHNICAL SPECIFICATIONS (VEW 2308 Series)

Load capacity	5kN, 10kN, 20kN
Load resolution	1/ 300000
Load accuracy	≤ ±0.5 % from 0.2% - 100% full scale
Strain measurement accuracy	±0.5% of reading down to 1/50 of full scale with ASTM E 83 class B or ISO 9513 class 0.5 extensometer.
Power magnification	7 automatic switching
Displacement resolution	0.001 mm
Displacement accuracy	≤ ±0.5 %
Extensometer resolution	0.001 mm
Extensometer accuracy	≤ ±0.5 %
Speed range	0.01~500mm/min (Optional : 1000mm/min)
Crosshead speed accuracy	Better than ±0.2% of set speed Twin ball screw driven with close-loop servo and motor control.
Effective Tensile Stroke	800mm
Motor	Delta Servo Motor
Test width	400mm
Load unit	N, kN, kgf, lb, Ton etc
Power Supply	Single Phase 220V 50Hz
Dimension (L x W x H)	800 x 550 x 2200 mm
Weight	250 kg



Electromechanical Computer Type Carton Resist Compression Testing Machine VRC 601B

TECHNICAL SPECIFICATIONS (VRC 601 Series)

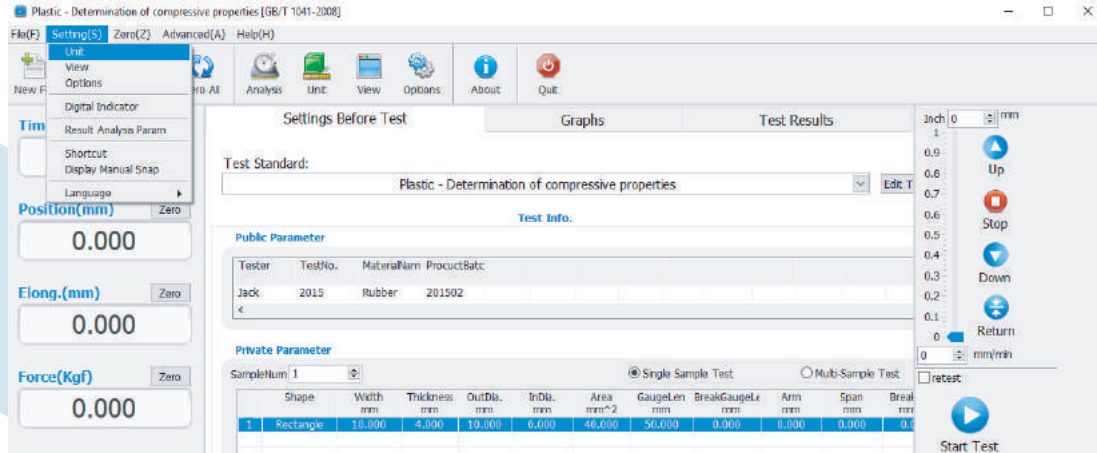
Units	<u>kgf</u> , <u>lbf</u> , N, KN, <u>kPa</u> , <u>MPa</u>
Capacity	500kg, 1 ton, 2 ton, 5ton
Resolution	1/50,000
Accuracy	±1% ACCURACY
Compression space	1000*1000*1000mm; (or designated)
Motor	Panasonic AC Servo Motor + Driver
Test speed	12~350mm/min
Protector	Leakage protection, overload auto-shutdown, displacement limit protection
Volume	153×121×180cm
Power	1φ, AC 220V, 5A



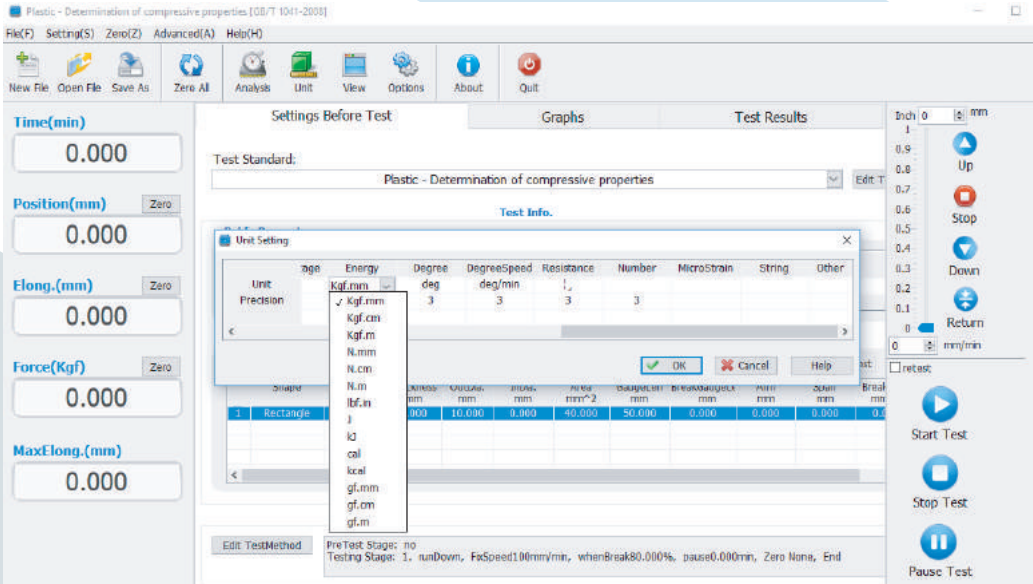
REALTEST Software Operation Interface

REALTEST can be found with all of VICTOR's Universal Testing Machines.

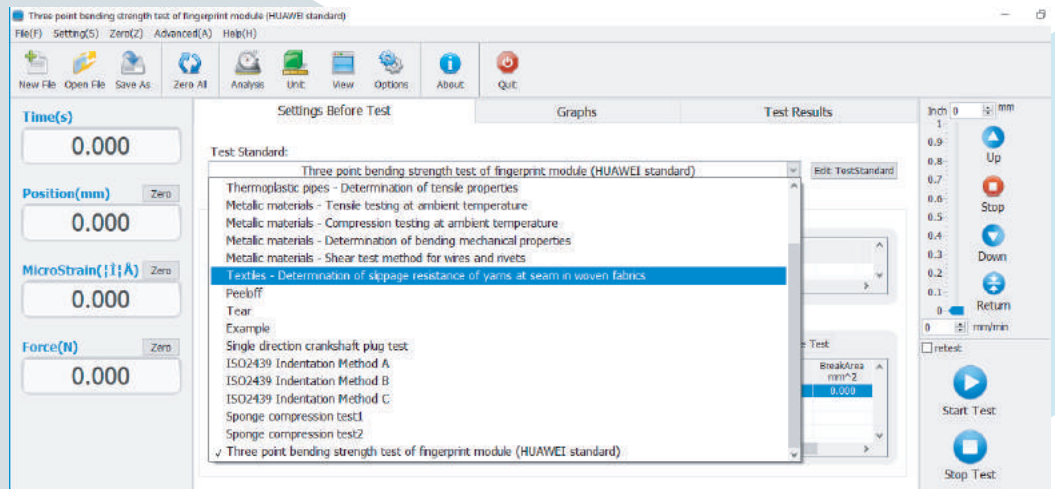
Choose Unit Setting



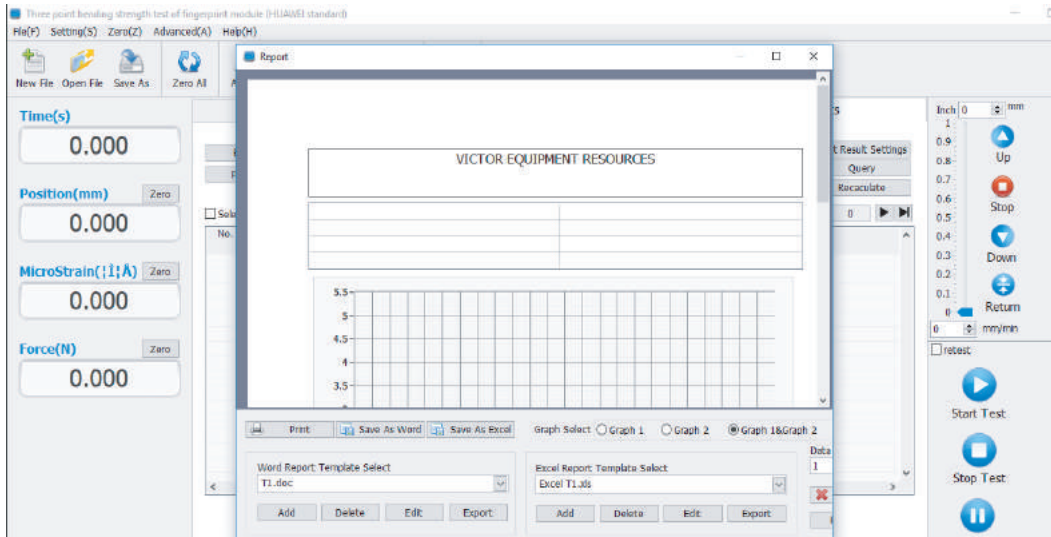
Various types of Unit Selection



More than 200 International Test Standards can be Set & Programmed

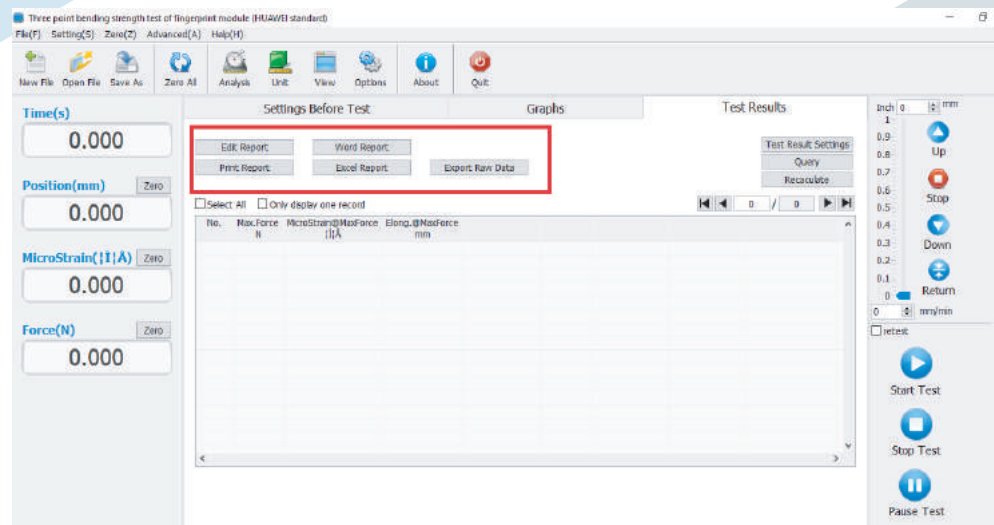


REALTEST Software Operation Interface

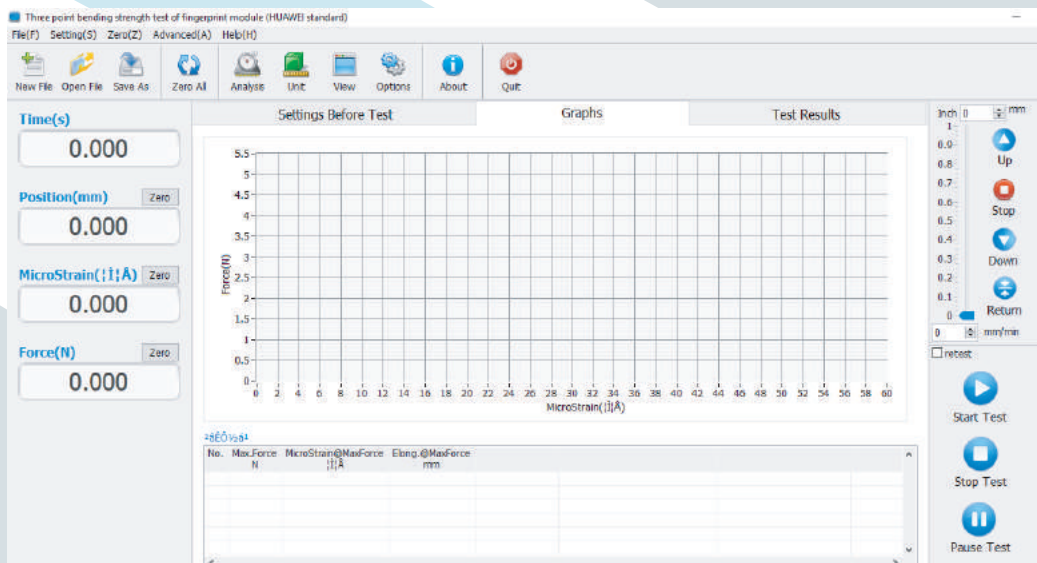


Test Curve Display

Customized Test Report for various type of products



Create Test Report in Microsoft Word, Excel or PDF format



Testing Accessories

Thanks to its extensometers, environmental simulation solutions and wide range of grips & fixtures. Victor Manufacturing offers high-performance or customised testing accessories to match the needs of your testing simulation & procedure to meet your various materials & components testing.

Grips & Fixtures



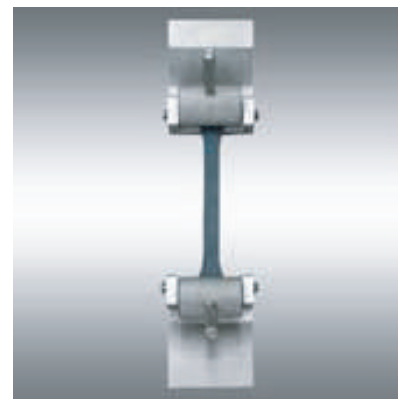
Mechanical Wedge Grip

These mechanical grips are designed to self-tighten as the tensile test progresses. Used for high strength tensile testing, suitable for flat & round specimen



Spring Loaded Wedge Grip (Center Action)

This Spring Loaded grips are designed to self-tighten as the tensile test progresses. Easy & fast jaw opening. Used for high strength tensile testing, suitable for flat & round specimen



Eccentric Roller Grip

Easy to use and self-tightening Applicable for soft and flexible samples, foils, plastics, rubber, etc.



Jaw Tension Grip

used to grab small areas of a sample for a tensile test. These fixtures are ideal for testing end-consumer products because the grip actuation resembles two fingers pinching together and pulling on something.



Tensile Wedge Grip

These mechanical grips are designed to self-tighten as the tensile test progresses. Used for high strength tensile testing, suitable for flat & round specimen



Pliers Grip

Suitable to test rubber, plastic film, leather and fabric



Strapping Band Tensile Test Grip

For PP Strapping, Web strap, belt, etc



Screw Side Action Grips

Suitable to test fabric, textile webbing, metal, film, rubber and plastic



Spring Loaded Wedge Grip(Side Lift)

Spring operated, easy and fast opening of jaw. Suitable for plastic and rubber material

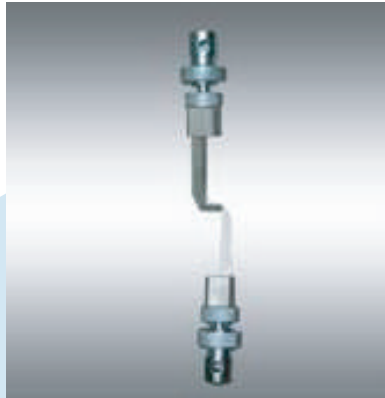
Testing Accessories

Grips & Fixtures



Capstan Grip

Suitable for wire, thread, yarn etc



Leather Tearing Test Grip

Suitable for tearing strength of leather



90 Degree Peel Test Fixture

To measure the adhesion strength. The sliding table provides a steady movement to maintain a constant peel angle. The peel point remains in the centre.



Puncture Test Fixture

General rules of plastic films for food packaging



Leather Puncture Resistance Test Fixture

Test fixture to determine distension and strength of surface of leather.



Spring Compression Platen

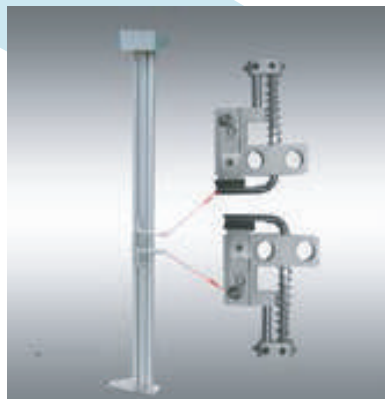
- For hard materials, steel, plastics, stone etc.
- Hardened steel 58 HRC, black phosphate coating
- Temperature range: 0°C - +350°C
- Nickel plated: -70°C - +350°C (on request)
- Max capacity depends on the size of coupling

Extensometers & Sample Cutter



Electronic Extensometer

To measure deformation of metallic materials.



Long Travel Extensometer

long-travel contact extensometer designed to measure displacement in tensile tests of soft materials with considerable elongation



Dumbbell Cutte

Our range of Dumbbell Cutters is manufactured using high grade material. These are available in different sizes and varieties like tear cutters and straight cutters compliance with ASTM, DIN, and ISO standards.

Service & Support

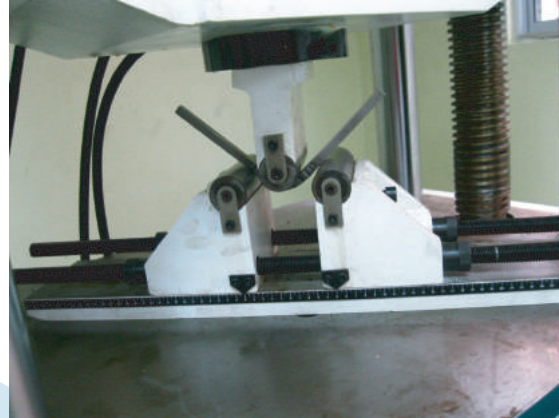
Victor Manufacturing offers a variety of services to support your tensile machine needs.

Calibration



VICTOR offers calibration to ensure of the accuracy of the tensile machine's system whether its from our production line and even for other brands.

Material Testing



VICTOR can do material testing for Metal, Plastic, Rubber, Textile, Composites, Cement Parts, Components and Materials, etc.

Custom Modification & Upgrade



VICTOR's Upgrade Service can provide high-standard & quality accessories and other add-ons to old & outdated machines or customised your own unique tensile machine accordingly to your specs or requirements.

Whether it is an electromechanical or hydraulic machine – the upgrade / customisation process, will not be affected*.

*Within our expertise.

We comply to standards i.e. ASTM, ISO, DIN etc. Along with various mechanical testing i.e. Adhesion, Abrasion and Wear Testing, Bend Testing, Break Strength, Bond Strength, Compressive Strength, Ductility, Durability, Elongation, Fatigue Testing, Tensile Strength, Tensile Stress, Stress Rupture, Yield Strength, etc.

Repair & Maintenance



Victor Manufacturing has more than 20 years of installation, maintenance, servicing, repairing, wiring & fabrication and modifications experience while partnered with Obsnap Instruments Sdn Bhd, which was established, since 1997.

VICTOR can repair your material testing equipment confidently, along with any machine ordered from our upgrading or customised service.

Service & Support

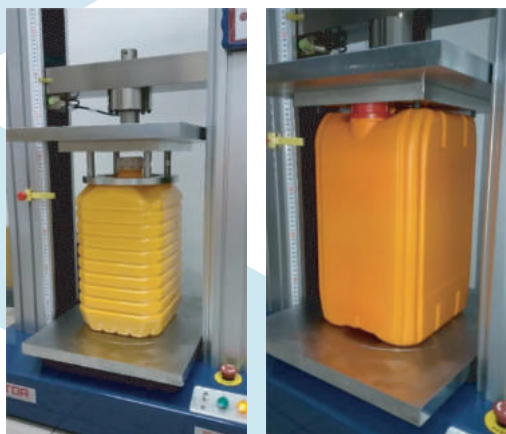
Customised Grips, Jig & Fixtures

Victor Manufacturing can build, design and produce unique Grips / Fixtures accordingly to your requirement. View some of our samples below.

Customised Jigs for Automotive Components Testing



Compression Jigs for Bottle / Jerry Can



Strength Test Fixture for Steel Stud & Frame Wall system



Customised Fixture
for PU Foam Adhesion Test



Customised ASTM D3574
Foam Compression
Platen



Compression
Jig for PE/Steel
Drums



Customised Jig
for Air Filter
Adhesion Strength
Test

CLIENTS' TESTIMONIAL



HONDA AUTOPARTS
VEW 2308E 5kN



BOON PLASTIC
VEW 2307E 500N

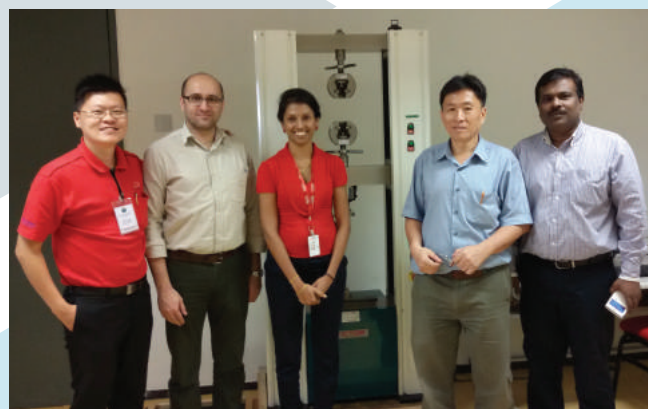


POLITEKNIK SEBERANG PERAI
VDW 1000

UNIVERSITI MALAYSIA PAHANG
VEW 2302 50kN



KAYABA
VEW 2302 50kN



HELP UNIVERSITY COLLEGE
VEW 2302 50kN

VICTOR

Material Testing Equipment

Manufacturer of
Universal Testing Machine / Tensile Machines & Accessories

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

Social Media

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