Compresion/Tensile



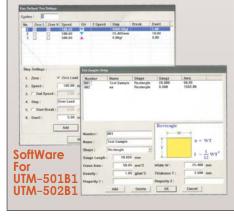






MATERIAL TESTING 30ton, 20ton, 10ton, Tensile Testing Machine





UTM-501B1/502B1/503B1, Computerized Universal Testing Machine

UTM-501B1 serial, apply to metal rod, concrete, fabric etc. Floor type, is more stable and convenient for operating. Strong structural & small volume, transmission efficiency more than 70%, less energy loss and high precision, operate easily, 501B1 & 502B1 could connect to computer.

Specifications:

- The seal plates are treated by anode hardening, and the ball screws are equipped with dust –proof cover to extend its lifetime and precision. Hardware protection: Up/down limit, emergency stop button.
- Servo-motor driven, precise decelerators and ball screws is used to reduce the noisy, loss of transmission.
- LCD display screen can use to operate the machine without connecting with computer.
- Load Cell comply with ASTM-E4 standard which accuracy is limited within 1.0 % and adopt bridge circuit to sense the load force and export data. Load cell also includes memory lock to memorize various parameters. Machine can detects the parameter automatically when switching different load cells.
- With external I/O junction to expand functions
- Inching control.
- Various grips and extensometers are available.

Function of Software:

- Data sampling rate: Max. 60Hz.
- Full-computerized control to run the test or Jog button control
- Compatible with Window XP or Vista system, but the memory requires 512MB.
- USB interface for bidirectional transmission
- Multi-curves display and real-time plot
- various unit of measurement are available
- Flexible form to manage database.
- Free to name the data file.
- Testing screen is selective to display data, graph or for both at the same time.
- Data processing: file saving, setting loading, report printing and data comparing.
- Graph display: strain v.s. elongation, strain v.s. time and so on.
- tensile test, compression test, bending test, peel test, adhesive test...
- Deformation of machine is revised automatically to ensure test data closing to the precise value.
- Software protection: Overload, over-displacement protection.

Model	UTM-501B1	UTM-502B1	UTM-503B1		
Max. Capacity	300 KN (30,000 kgf)	200 KN (20,000 kgf)	100 KN (10,000 kgf)		
Force resolution	1/10000	1/10000	1/10000		
Travel resolution	0.005 mm	0.005 mm	0.005 mm		
Speed	0.2~300 mm/min	0.2~300 mm/min	0.3~350 mm/min		
Motor power	3.0kw	2.0kw	1.0kw		
Speed accuracy	±0.5%	±0.5%	±0.5%		
Motor style	AC servo motor	AC servo motor	AC servo motor		
Testing Space	550 mm	550 mm	550 mm		
Dimension	124x68x220(H) cm	120x65x220(H) cm	115x65x220(H) cm		
Weight	950 kg	900 kg	800 kg		
Power supply	3Ø200~240 V AC, 15A	3Ø200~240 V AC, 15A	1Ø200~240 V AC, 15A		
PC-Port	USB	USB	USB		
Data Sampling Rate	5K Hz	5K Hz	5K Hz		
Optional accessories	UTM-TECH B1 Software Grips Extensometer UTM-515, UTM-558 PC	UTM-TECH software Grips Extensometer PC	_		
Stroke(w/o grips)	1000 mm	1000 mm	1000 mm		

5000kg, 1000kg, Tensile Testing Machine MATERIAL TESTING





UTM-505B1, Universal Material Testing Machine

Universal material testing machine are mainly applied to testing the physical features of raw materials, finished-products, and semi-products. Universal material tester can perform tensile testing, compression testing, bending testing and acquire testing data like elongation, extension rate, stress and strain...etc. Universal material testing machine can go with various testing accessories like grips, ovens, extensometers and load cells to perform various measuring & testing. This tensile tester can be operated individually or by computer to control the tester.

It's new floor type Universal Material Testing Machine which applied by latest design and producing skill to have strong structure, saving transmission power and electric current without specific power system. Undoubtedly we still keep the advantage for testing precision, simply operation, expand strong. It's the best choice for material testing machine.

UTM-506B1, Material Testing Machine

Material testing machines can analysis the whole testing result including elongation, stress, strain, break value and average value. It can also fit to different specimen shape or be required to destroy the specimen and record the entire testing process and analysis the physical features of the specimen like tension force, bending strength, wear-resisting, impact, torque force, abrasion, fatigue, hardness, peeling force, viscosity...etc. We also supply the specimen maker equipment like pneumatic specimen press, hardness specimen cutting device, electrical forming machine. These equipment can make the standard specimen to get precise result during test.

This is a new tabletop Material Testing Machine which applied by latest design and producing skill to have strong structure and lightweight. Undoubtedly we still keep the advantage for testing precision, simply operation, expand strong. It's the best choice for material testing machine. We have a Series B1 type: 503B1/505B1/508B1/513B1. The specification and function of them are the same expect external different.



UTM-506B1

	And Soobi (Exicita)		*
Model	UTM-505B1	UTM-506B1	UTM-506B1 (Extend)
Max. Capacity	50 KN (5,000 kgf)	10 KN (1,000 kgf)	10 KN (1,000 kgf)
Force resolution	1/10000	1/10000	1/10000
Travel resolution	0.005 mm	0.005 mm	0.005 mm
Speed	0.5~500 mm/min	1~1000 mm/min	1~1000 mm/min
Motor power	750w	400w	400w
Speed accuracy	±0.5%	±0.5%	±0.5%
Motor style	AC servo motor	AC servo motor	AC servo motor
Testing Space	420 mm	350 mm	350 mm
Dimension	88x58x193(H) cm	72x51x132(H) cm	72x51x172(H) cm
Weight	356 kg	120 kg	140 kg
Power supply	1Ø200~240 V AC	1Ø200~240 V AC	1Ø200~240 V AC
PC-Port	USB	USB	1/10000
Data Sampling Rate	5K Hz	5K Hz	5K Hz
Stroke(w/o grips)	1100 mm	700 mm	1200 mm

MATERIAL TESTING 5kN, Tensile Testing Machine



UTM-508A2/513A2, Material Testing Machines

Single column machine on volume & operation all have good configuration, suitable for below 5KN small section material to proceed with tests, this machine can use in environment with limit space.

With exclusive test software, tensile, compression, bending and multi-function tests can be done. Software is easy to operate & also with multinational languages, various metric and imperial units selection, instant diagram showing and offer complete test analysis data that user can analyze various materials after tests.

Standard:

ISO 7500–1 , ASTM E4 , ASTM D–76, DIN5122 , JIS B7721/B7733 , EN 1002–2, BS1610,GB T228.

Industry:

Rubber, Plastic, Paper, Textile, Tape, Electron, Package, Architecture.

Features:

• The seal plates are treated by anode hardening, and the ball screws are equipped with dust -proof cover to extend its lifetime and precision.

UTM-513A2

- Hardware protectionUp/down limit, emergency stop button.
- Servo-motor driven, precise decelerators and ball screws is used to reduce the noisy, loss of transmission.
- Load Cell comply with ASTM-E4 standard which accuracy is limited within

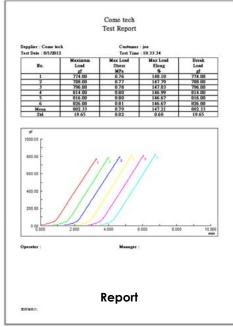
 % and adopt bridge circuit to sense the load force and export data.
 Load cell also includes memory lock to memorize various parameters.
 Machine can detects the parameter automatically when switching different load cells.
- With external I/O junction to expand functions Inching control.
- Various grips & extensometers are available.

Optional Accessories:

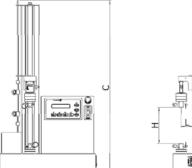
Each test will require different test grip and accessories for application industry in plastic, metal, biomedical, composites, elastomer, components, automotive, aerospace, textiles...

- Tensile grip
- Compression grip
- Flexure fixture
- Peel/tear fixture
- Film COF test fixture
- Load cell
- Extensometer.

5kN, Tensile Testing Machine MATERIAL TESTING



Machine dimensions:



Software:

- Data sampling rate: Max. 60 Hz.
- Full-computerized control to run the test or Jog button control
- Compatible with Window XP, Vista, WIN. 7 or WIN. 8 system, but the memory requires 512 MB.
- Software has Chinese & English version.
- USB interface for bidirectional transmission
- Multi-curves display and real-time plot
- Various units of measurement are available
- Flexible form to manage database.
- Free to name the data file.
- Testing screen is selective to display data, graph or for both at the same time.
- Data processing: file saving, setting loading, report printing and data comparing.
- Graph display: strain v.s. elongation, strain v.s. time and so on.
- Tensile test, compression test, bending test, peel test, adhesive test...
- Deformation of machine is revised automatically to ensure test data closing to the precise value.
- Software protection: Overload, over displacement protection.



Software interface

I L Q	Model	Width x Depth x Height A x B x C (mm)	Crosshead travel H (mm)	Front opening space L (mm)
	UTM-508A2	500x530x1450	800	80
	UTM-513A2	500x530x1000	400	80

Model	UTM-508A2	UTM-513A2			
Max. Capacity	5 KN				
Force resolution	1/20000				
Test stroke	800 mm (w/o grip) 400 mm (w/o grip)				
Stroke resolution	0.0001 mm				
Speed	1~1000 mm/min 1~1000 mm/min				
Test space	Φ140 mm				
Speed range	0.1 ~ 1000 mm/min can self-	-setting (By PC digital setting)			
Speed precision	0.1 ~ 10 mm/min ± 2% 10 ~ 1000 mm/min ±1%				
PC-port	U	SB			
Data sample rate	Faster	100 Hz			
Hardware safety protection	Up/down limit, emergency stop button				
Motor type	Servo motor				
Stiffness Slop	284 kgf/mm				
Feature	switching different load cells parameter and no n	memorize various parameters. When , it will automatically change eed for other setting. button, easy to operate			
Power Supply	Single phase 20	0 ~ 240 VAC5 A			
Dimension / Weight	50×53×145cm / 80kg	50×53×100cm / 65kg			

MATERIAL TESTING 5kN, Tensile Testing Machine



UTM-508M1/513M1, Material Testing Machines

Single column machine has good configuration in machine of volume and operation. It is suitable for under 5KN of small section of material test. The machine can base on specimen length and elongation to choose different model and grips.

This model is using special testing software which is use Windows 7/8 of Person computer. It can do tensile test, compression test, bending test, bending test and all kind of test. The software with multi-languages is very easy to operation. It also has all kind of metric units, real-time graphs and also provides complete analysis test data which finish test can do variety of material analysis.

Standard:

ISO 7500-1 , ASTM E4 , ASTM D-76, DIN5122 , JIS B7721/B7733 , EN 1002-2, BS1610,GB T228

Industry:

Rubber, Plastic, Paper, Textile, metal, wood, tape, electron, package, Medical, Architecture.



Features:

- The seal plates are treated by anode hardening, and the ball screws are equipped with dust -proof cover to extend its lifetime and precision.
- Hardware protectionUp/down limit, emergency stop button.
- Servo-motor driven, precise decelerators and ball screws is used to reduce the noisy, loss of transmission.
- Load Cell comply with ASTM-E4 standard which accuracy is limited within 1.0% and adopt bridge circuit to sense the load force and export data. Load cell also includes memory lock to memorize various parameters. Machine can detects

also includes memory lock to memorize various parameters. Machine can detects the parameter automatically when switching different load cells.

- With external I/O junction to expand functions Inching control.
- Various grips & extensometers are available.

Optional Accessories:

Each test will require different test grip and accessories for application industry in plastic, metal, biomedical, composites, elastomer, components, automotive, aerospace, textiles...

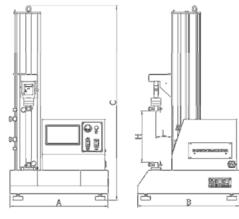
- Tensile grip
- Compression grip
- Flexure fixture
- Peel/tear fixture
- Film COF test fixture
- Load cell
- Extensometer.

5kN, Tensile Testing Machine MATERIAL TESTING



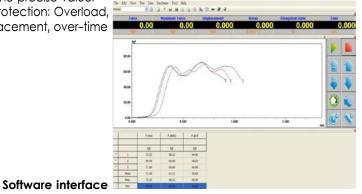
Report

Machine dimensions:



Software:

- Data sampling rate: 100Hz, depending on computer efficiency
- Full-computerized control to run the test or Jog button control
- Compatible with Window 7 system
- Software has multi-languages.
- USB interface for TCP/IP
- Multi-curves display and real-time plot
- Various units of measurement are available
- Flexible form to manage database.
- Free to name the data file.
- Testing screen is selective to display data, graph at the same time.
- Data processing: file saving, setting loading, report printing and data comparing.
- Graph display: strain v.s. elongation, strain v.s. time and so on.
- Tensile test, compression test, bending test, peel test...
- Deformation of machine is revised automatically to ensure test data closing to the precise value.
- Software protection: Overload, ⁵ over -displacement, over-time protection.



Model	Width x Depth x Height A x B x C (mm)	Crosshead travel H (mm)	Front opening space L (mm)
UTM-508M1	500x530x1450	800	80
UTM-513M1-2L4	500x530x1750	1100	80
UTM-513M1	500x530x1000	400	80

Model	UTM-508M1	UTM-513M1			
Max. Capacity	5 KN				
Force resolution	1/10,000				
Test stroke	800 mm (w/o grip) 400 mm (w/o grip)				
Stroke resolution	0.0001 mm				
Cantilever distance	70 mm				
Speed range	0.03 ~ 1000 mm/min adjustal	ble (Set up by computerized)			
Speed precision	0.03 ~ 10 mm/min ± 2%	10 ~ 1000 mm/min ±1%			
PC-port	TCF	P/IP			
Data sample rate	Faster	100 Hz			
Hardware safety protection	Up/down limit, eme	ergency stop button			
Motor type	Servo	motor			
Stiffness Slop	284 kg	gf/mm			
Feature	 * Unique accessories with auto identification system, it does not have other complicated setting when use it. * Use inching with precision hand wheel to control machine up and down which can speed up adjust machine of position. * Standard model have keep multi-input signal and fixation. It can provide user to add more function in the future. 				
Power Supply	Single phase 20	0 ~ 240 VAC5 A			
Dimension / Weight	50×53×145cm / 80kg	50×53×100cm / 65kg			

MATERIAL TESTING 500kg, 50kg, Tensile Testing Machine



Material testing machines can analysis the whole testing result including elongation, stress, strain, break value and average value. It can also fit to different specimen shape or be required to destroy the specimen and record the entire testing process and analysis the physical features of the specimen like tension force, bending strength, wear-resisting, impact, torque force, abrasion, fatigue, hardness, peeling force, viscosity...etc. We also supply the specimen maker equipment like pneumatic specimen press, hardness specimen cutting device, electrical forming machine. These equipment can make the standard specimen to get precise result during test.

UTM-508B1, Material Testing Machine

It's a light type Material Testing Machine which applied by latest design and producing skill to have strong structure and lightweight. Undoubtedly we still keep the advantage for testing precision, simply operation, expand strong. It's the best choice for material testing machine. We have a Series B1 type: 503B1/505B1/506B1/513B1/. The specification and function of them are the same expect external different.

UTM-513B1, Universal Testing Machines

This is a new light type device which adopts latest design & skill to have strong but smaller & lighter structure. Still keep the advantages of testing precision, simply operation, extend strong. It is the best choice for small capacity.



UTM-508E, Material Testing Machine

This light type Material Testing Machine which takes newest designed concept and technology to be the smallest and lightweight. It has lots of advantage, such us test exactly, operated simply, strong expand, etc. It's the best choice for small capacity testing.

Model	UTM-508B1	UTM-513B1	UTM-508E
Max. Capacity	5 KN (500 kgf)	5 KN (500 kgf)	500 N (50 kgf)
Force resolution	1/10000	1/10000	1/10000
Travel resolution	0.005 mm	0.005 mm	0.005 mm
Speed	1~1000 mm/min	1~1000 mm/min	6~600 mm/min
Motor power	400w	400w	-
Speed accuracy	±0.5%	±0.5%	±0.75%
Throat depth	70mm	70mm	50mm
Motor style	AC servo motor	AC servo motor	Step motor
Testing Space	140 mm	140 mm	100 mm
Dimension	50x53x145 cm	50x53x100 cm	42x28x88 cm
Weight	80 kg	65 kg	27 kg
Power supply	220 V AC	220 V AC	100~240 V AC, 3A
PC-Port	USB	USB	USB
Data Sampling Rate	5K Hz	5K Hz	2K Hz
Stroke(w/o grips)	800 mm	400 mm	350 mm

500kg, 200kg, Tensile Testing Machine MATERIAL TESTING



UTM-528K4, Electronic Test Stand

UTM-528K4 test stand is designed to be available to mount 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. You can manually operate the test stand to test automatically, or connect with computer to control the stand for going multi-functional material test and analyze.

Model	UTM-528K4		
Max. Capacity	500 N (50 kgf)		
Force resolution	According to the specification of force gauge		
Travel resolution	0.05 mm		
Speed 3~600 mm/min			
Speed accuracy	±0.75%		
Motor style	Step motor		
Testing Space	55 mm		
Dimension	42x28x88(H) cm		
Weight	27 kg		
Power supply	100~240 V AC, 3A		
Stroke(w/o grips)	400 mm		

UTM-513B2/508B2, Universal Testing Machine Single column (2KN) UTM-513B2 & UTM-508B2 type; B2 controller serial is simplest type,

controller and machine movement operate independently, provided with output signal of stop machine, collocate with different type flexible. Provided with data output function, can connect to computer and do analyses, statistics, save data with special software. Single column types include various stroke models and capacity for choosing, and apply to metal, rubber, plastic, fabric, leather, paper, component material etc. This can provide more economic solution for testing and satisfy testing requirement of finished product and semi-finished product.

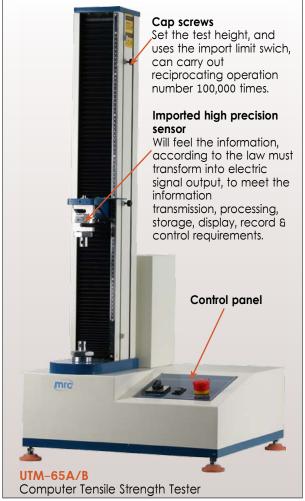
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UTM-506B2/506B2(extend), Testing Machine (5KN)

UTM-506B2 include standard, extend length type, and conform with various testing request to providing best test state for the different between specification of specimen, testing environment, testing force etc. This type is suitable for testing within 5KN capacity. Table type, convenient to operate, small volume and strong structure won't occupy space, transmission efficiency more than 85%, less energy loss and high precision, operate easily, could connect to computer.







UTM-65A/B, Material Testing Machines Uses:

This machine is designed for quick and reliable tensile, compression, bending, shear, peel, loop tack and fatigue cycling on metals, tape, composites, alloys, rigid plastics & films, elastomers, textiles, paper, board & finished products. Character:

- Using the computer as the main control mathine plus the special testing software of our campany can conduct all of testing parameter, work state, collecting data δ analysis, result display and printing output.
- Have steady performace, high accuracy, powerful software function and easy operation.
- Use the USA high-precision load cell. Machine accuracy is ±0.5%.

Accessories:

- Suitable Grips that meet customer sample need.
- Special peeling tools for peel test in tape δ film industry.
- Software for test control, data acquisition and report.
- English operation teach video.
- Tabel, computer is selectable.



BESTE Software functions:

- TUse windows working platform, set all parameter with dialog forms and operate easy
- Using a single screen operation, do not need to change the screen
- Have simplified Chinese, traditional Chinese and English three languages, switch conveniently
- Plan test sheet mode freely
- Test data can be directly appeared in the screen
- Compare multiple curve data through translation or contrast ways
- With many units of measurement, the metric system and british system can switch
- Have autómatic calibration function
- Have user-defined test method function
- Have test data arithmetic analysis function
- Have the function of automatic magnification, to achieve the most appropriate size of graphics.

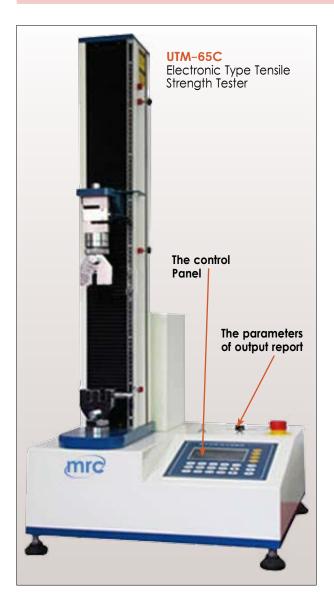
Model	UTM-65A	UTM-65B			
Range of speed	0.5-1000mm/min	50–500mm/min			
Motor	Japan Panasonic Servo Motor AC Motor				
Capacity Choice	1/2/5/10/20/50/100/200/500kg optional				
Resolution	1/250, 000 1/150, 000				
Effective Testing spec.	120mmMAX				
Accuracy	±0.5%				
Operation Method	Windows operation				
Accessories Optional accessories	computer, printer, system operation manual stretcher, air clamp				
Weight	80Kg				
Dimentions (WxDxH)	580×580×1250mm				
Power	1PH, AC220	0V, 50/60Hz			
Stroke Protection	Upper & lower protection	on, prevent over preset			
Force Protection	System	setting			
Emergency stop device	Handling er	mergencies			

Safety Device:

• Travel protection: machinery, computer double protection, prevent exceeds the preset stroke

- Force protection: system settings
- The emergency stop device: it can deal with emergencies.

200kg, Tensile Testing Machine MATERIAL TESTING



UTM-65C, Electronic Type Tensile Strength Tester Uses:

This machine is designed for quick and reliable tensile, compression, bending, shear, peel, loop tack and fatigue cycling on metals, tape, composites, alloys, rigid plastics and films, elastomers, textiles, paper, board and finished products.

Character:

Have steady performace, high accuracy, & easy operation.

Accessories:

- Suitable Grips that meet customer sample need.
- Special peeling tools for peel test in tape&film industry.
- English operation teach video.

Model	UTM-65C	
Range of speed	50–400mm/min adjustable, constant speed 300mm/min	
Motor	adjustable speed Motor	
Capacity Choice	1/2/5/10/20/50/100/200kg option	
Resolution	1/50,000	
Stroke	650mm	
Test space	120mmMAX	
Accuracy	±1.0%	
Display	Force & elongation display	
Dimentions (WxDxH)	500×500×1200mm	
Optional accessories	Strecher, air clamp	
Weight	60Kg	
Power	1PH, AC220V, 50/60Hz	

Safety Device:

- Stroke protection: machinery, computer double protection, prevent over preset
- Emergency stop device: handling emergencies.

According to testing different products to choose different fixtures (for all models A/B/C):



MATERIAL TESTING SoftWare

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Quick start

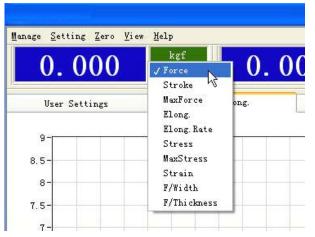
A complete testing process includes three steps: Setting before test; execute test and get test results.

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Software include title bar, menu bar, current volume displaying bar, control panel, testing time displaying, lifting speed of machine, manual check point, material selection and modification, testing methods' selection and modification, control parameters' selection and modification, results' selection and modification, results displaying form, history record operation, report forms operation, force – displacement curve display and so on. Title bar: software name, version information, etc.



Control Panel: Control the machine up and down and testing execution operation and so on. Rising and falling speed of machine: Adjust lifting & falling speed of machine.

Login			
	Administrator	~	OK
Password:	1		Cancel
🗹 Auto Login			

Log-in

Click Menu "Management"->"Log in", or press composite key Ctrl+L(3.5 Shortcut Key lists) to enter Login interface, as shown.



Authority Managment

Please ente	er the new password:	
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2 2		

Modify Password

Click menu "Management"-> "Modify login password" to enter Modify Login Password Interface.



Accessories:

- Suitable Grips that meet customer sample need.
- Software for test control, data acquisition and report.
- English operation teach video.
- Tabel, computer is selectable.
- Extensometer as customer need.

UTM-66A/66B, Tensile Testing Machine

This machine also known as a materials testing machine, is applicable to testing tensile, compression, bending, peel, shearing force, peeling force, modulus of elasticity, and elongation of materials, components, and finished product for metal, plastic, rubber, textile, synthetic chemicals, wire & cable, leather, package, tape, film, solar cell, ect.

Character:

- The structure is made of the paint-coated aluminium blanking plate. The interior is used the high-accuracy, low-resistance and zero clearance of two ball screw and oriented pole which improve loading efficience δ structure rigidity.
- Use Panasonic seveo motor which ensure high efficiency, steady transmission δ low noise. The accuracy of speed can be controled in 0.5%.
- That using the business computer as the main control mathine plus the special testing software of our campany can conduct all of testing parameter, work state, collecting data&analysis, result display and printing output.

Software functions:

- Use windows working platform, set all parameter with dialog forms and operate easy;
- Using a single screen operation, do not need to change the screen;
- Have simplified Chinese, traditional Chinese and English 3 languages, switch conveniently;
- Plan test sheet mode freely;
- Test data can be directly appeared in the screen;
- Compare multiple curve data through translation or contrast ways;
- With many units of measurement, the metric system and british system can switch;
- Have automatic calibration function;
- Have user-defined test method function
- Have test data arithmetic analysis function
- Have the function of automatic magnification, to achieve the most appropriate size of graphics.

Model	UTM-66A	UTM-66B					
Range of speed	0.1-1000mm/min	50–500mm/min					
Motor	Japan Panasonic Servo Motor	Taiwan Chengbang AC motor					
Capacity choice	5, 10, 50, 100, 200,	500, 1000, 2000 kG					
Resolution	1/250, 000	1/150, 000					
Effective testing space	400mm Max.						
Test Stroke	1200mm Max.						
Accuracy	±0.	5%					
Operation method	Windows XP, Win7 oper	ation, computer control					
Optional accessories	customized clamps by appointed, force	e sensors, printer, and operation manual					
Weight	250	ЖG					
Dimention	W800×D500	0×H1500mm					
Power	1PH, AC220	0V, 50/60Hz					
Stroke protection	Upper and lower protec	tion, prevent over preset					
Force protection	System	setting					
Emergency stop	Handling e	mergencies					

Design Standards: GB16491-2008, HGT 3844-2008, QBT 11130-1991, GB 13022-1991, HGT 3849-2008, GB6349-1986, GB/T 1040.2-2006 2411, ISO 4587, ISO/TS 11405, ISO 527, ASTM E4, BS1610, DIN 51221, ISO 7500, EN 10002, ASTM D628, ASTM D638, ASTM D412

Software Introduction:

Connect tensile tester with computer well, open software, press setting-online-COM1...

	ibration Ctrl-	+Shift+C	COM1 Kgf		0.0	00	Elor			0.00)0		mm Stroke		
u ot	her Ctri-	+0	COM2 COM3	Force-Time	1	longTime	St	ess-Strain	1	Force-Blong		Multi-G	aph		TestRes
Sp	pecimenSelect	Rubber	COM4 COM5 COM6	Ed	it										
Na	lame	No.	120102330	augeLength (mm)	Area (mm^2)	Width (mm)	Thickn (mm		Out_Dia. (mm)	In_Dia, (mm)	Property				
Ru	ubber	1	сомя	100.000	1,000	1.000	1.00	0	0.000			0.000	1.000	2.000000	3,000
Stage	ProjectSelect	ControlType	COM12 ControlValue	Shift Condition		PauseTime	ControlPara	lextProces	s CydeTimes	(evtProcess					P
	Compress	FixSpeed	100.000mm/min	Elong.>=	50.000mm	0.000min	100.00	End							
1															
Ser	insor			hi da			1.2		FilterCoe.:	5				13	
1 Ser	nsor Force 50	1.0kg						Bre	FilterCoe.:					i:	

Calibration, press setting-calibration, input password, & enter calibration menu, press read from chip, press OK, the software will read from tensile tester chip



Input the specimen shape, size...

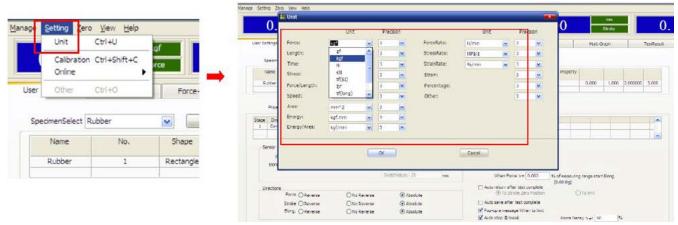
	Force-E		Force-Time	-	🔣 Material									
SpedmenSele	ct Rubber		ど 🚺 Ed	t.	Name	No.	Shape	GaugeLength (mm)	Area (mm^2)	Width (mm)	Thickness (mm)	Out_Dia. (mm)	In_Dia. (mm)	Proper
Name	No.	Shape	GaugeLength	Area	Rubber	1	Rectangle	100.000	1.000	1.000	1.000	0.000		
	1997		(mm)	Area (mm ⁻¹ 2)	Rubber2 Metal	2	Rectangle Round	200.000	20.000	10.000	2.000	0.000	-	
Rubber	1	Rectangle	100.000	1.000	inetai		Roona	200.000	0.765			1,000	-	
ProjectSele	ct Compression Te	st	Ed	it in the second s										
Stage Direction 1 Compress	ControlType FixSpeed	ControlValue 100.000mm/m		ControlVa 50.000m										
Sensor Force Elong. ()		Rubber Extense	meter	O Metals E	Name:	Rubber			Shape:	Rectangle				
			Swi	itchValue:	No.:	l		3				TO		
Directions					GaugeLength:	100	mm	10	BrokenGaugeLent	150	mm			
FI	orce O Reverse	0	No Reverse	() Abs	GaugeLength: Area:	100	mm		BrokenGaugeLent RoundRadius:	150	mm	+		
Fi Sb	oke () Reverse	O	No Reverse	() Abs	Area:	1	mm	n^2	RoundRadius:	0	mm	1 ±		
Fi Sb		O			Area: Width:	1		n^2	RoundRadus: Thidmess:			Į		
Fi St Ek	oke () Reverse	O	No Reverse	() Abs	Area:	1	mm	n^2 n	RoundRadius:	0	mm			
Fi Sti Ek	ake OReverse	O	No Reverse No Reverse	() Abs	Area: Width:	1	mm mm	n^2 n	RoundRadus: Thidmess:	0	mm			
Fi Stri Ek Protection	ake OReverse	01	No Reverse No Reverse No of Measu	() Abs	Area: Width: Out_Die.:	1	mm mm	n^2 n	RoundRadus: Thidiness: In_Die.:	0 1 0	mm	Property:		

SoftWare MATERIAL TESTING



In softWare, you can see different testing views, like force-elong (diplacement), force-time, multi-graph...

Set unit



If you need to add test items of testing, or need to add formula, please choose edit. Choose the test items you need, press insert-OK, save it or press edit to add formulas:

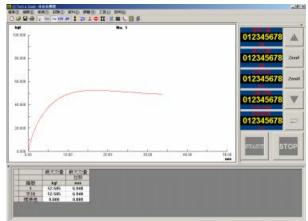
		User S	lettings	Force-E	long.	F	orce-Time	Elong,		
			ResultSe	slect Tenslie Strength			Edit			
		No)	Max Force (kgf)	Tensile S (kP		Elongation percenta (%)			
		1		8.550	35229		577.057			
		2		7.585	31253		859.065			
		3	()	9.985	41142		1062.848			
		4 Maxir		9.220	37990 41142		1140.539 1140.539			
		Minin	1.7.1.1.1.1.1	7.585	31253		577.057			
ılt										6
12	Test Result	Interval Set	tings	Auto Snan Settinos	Others	_				
NameList 🔨	Test Result	Interval Set	tings	Auto Snap Settings	Others					
NameList And	Test Result	Interval Set	ttings			Elongatio	n percentage @ peak		1	
	Test Result			orce Tensile Strer		Elongatio	n percentage @ peak %			
NameList American Ame		Name	Max F	orce Tensile Strer f kPa	ngth					
NameList And		Name Unit	Max F	orce Tensile Strer f kPa	ngth		%			

MATERIAL TESTING 1000kg, Tensile Testing Machine



Statistics:

- Resolution: 1/100,000. (1/1000 to 1/200,000 adjustable)
- Load Cell: Conform to ASTM-E4, difference within 1.0%
- Precision of Force: 5~100% within ±0.5%, 1~5% within ±1%
- Precision of speed: 1~500mm/min ±1%.



Hardware for PC:

CPU: P4 2.0GHZ Hardware Capacity: 40GB DISK compack Soft DISK compack Screen: CRT 15" color screen Standard Keyboard Standard Mouse

QC-503/505/506/508/513A1, Universal Tensile Test Machines

Description:

- QC-A1 series is a completely computer controlled material testing machine with AC server motor, ball screws & timing belt for a high precision testing result.
- Test for various material such as rubber/ plastic / tape / textile/ electrical product...etc in Tensile/ Compression / Peel/ Fatigue / bending /shear test with different clamps.
- Special test with universal testing machine is also available to discussion such as oven type & Temperature & Humidity type testing environment.

Machine:

- Strong frame to assure high static and semi-dynamic resistance
- Ball Screws for high smooth and accurate linear motion during test.
- Timing Belt provides a high transmission power and smooth meshing results in a long-life belt which is reliable more than ever.
- AC Server Motor provides a precision speed, programmable control
- Include Up, Down, Stop Button to control machine.
 Include Up, Down limit device and Emergency Stop
- Button.
- Auto-Stop when the testing is completed.
- Easy assembly of grips or fixture by pin adaptor.

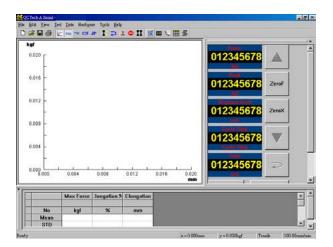
Software Function:

- Operation method: By keyboard, mouse
- Environment: Windows
- Color screen with Chinese/ English version or specified
 R\$232 interface
- Unit changeable (for Force, Displacement, Area, Stress ...)
 Table formable by user
- Column Nameable by user
- Data δ curve can display separately or in the same time
- Data: Save, Open, Print, export to excel or word file
- Live Curve and Data: Force-Displacement, Force-Time, Stress-Strain...etc.
- Used for Tensile, Compression, Bending, Peeling, Cycles,
- Create Custom Test...etc. Two different testing speed setup in one testing period.
- Travel Limited and load capacity protection setup.

Model	QC-503A1	QC-505A1	QC-506A1	QC-508A1	QC-513A1	
Max Capacity	100kN	50kN	10kN	5kN	5kN	
Max Speed (mm/min.)	0.5~350	0.5~500		1~1000		
Travel (mm)	800	1000	800	8/00	450	
Space (mm)	W550	W420	W400	Ø1	40	
Machine Dimensions (mm)	1090X570X2100	900x600x1950	840x580x1510	500X520X1500	680x430x950	
Type/Column	Floor	/Two	Bench/Two	Bench	/Single	

Program:

Below is QC-A1 software operation environment. The item or unit in the table report or curve can be changed with the one you need. Software has two version. One is Chinese and the other is English or custom version is available, and there is no problem to connect with printer.



No :	M0001		Material Material :	QC0001 Rubbe		
Name :	Test		Gauge: 20.00mm Area: 10.00mm*2 Width W: 5.00mm			
Туре :	User Defined	•				
	Settings		Thickness T : 2.00	Thickness T : 2.00mm		
Test Speed			Measure			
Speed:	25.00	mm/min	Loadcell :			
Direction ;	ø Up	C Down	Displacement :	Standard		
🗖 2nd Speed :	10.00	mminin	- Laterial Extenso	meter		
Change By :	Force	*	1: 🗆 Use	F R		
	0.00	Kgt	2: E Use	EB		
Start			End			
Auto Zero :	Force	Displacement	Auto Return :	C No		
Begin Force :	0.10	Kgf	Auto Save :	🖷 No		

Others:

Accessory: Load Cell X1, Instruction Manual in English or Chinese.

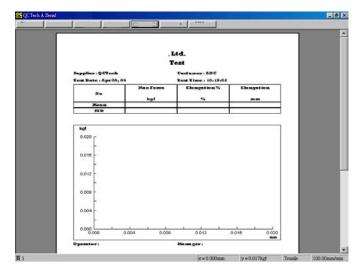
Warranty: 1 year under normal operation Voltage: Single phase, AC 100~ 240V, 50 or 60HZ

Option:

Various Grips, Fixtures, plates or Custom Item Extensometer Additional Load Cell Custom Testing Method in program Temperature and

humidity Chambers.

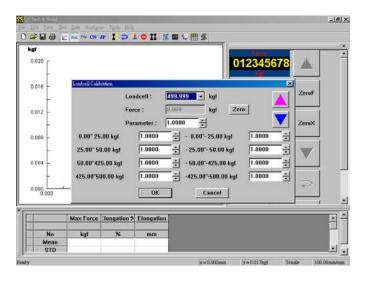
Print preview is as below. Name can be changed such as company, testin g, customer, and supplier name ...etc..



Below is one of the setting manual for:

- Test No, Name, type includes:
 - Tensile Compression Peel Shear Tear 3 or 4 point Bending Creep
 - Friction
 - User's Defined
- Setting for Circles Test includes times, force, displace ment...etc.
- Test speed, Direction, two speeds period selections.
- Material specific-Name, Dimension, Thickness, Length.
- Others.

Load Cell Calibrates in software with numbers sections to enlarge every small force deviation for precision correction.



MATERIAL TESTING 10kg, Horizontal Tensile Testing Machine

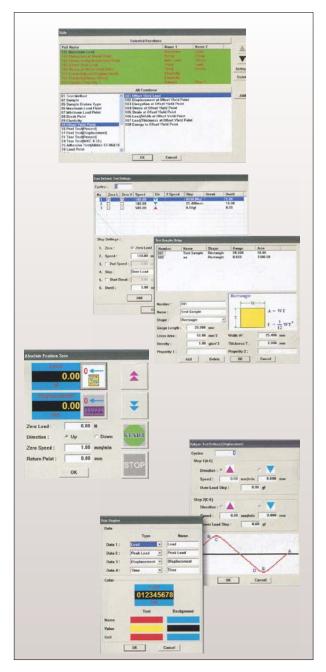
UTM-507E Horizontal Tensile Tester



This machine is suitable for 180 degree peel test of tape and electronic packing belt.

It can perform friction test and tensile test of small force as well.

The horizontal type tester offers a better solution for some special requirements that a vertical type tester can not do.



Model No.	UTM-507E			
Load Capacity	100N (10kgf)			
Stroke (w/o Grips)	300mm			
Position Control Resolution	0.005mm			
Max. Speed	500mm/min			
Min. Speed	5mm/min			
Speed Accuracy	±0.75%			
Motor Style	Step Motor			
Language	Chinese / English Selectable			
Pc-Port	USB			
Data Sampling Rate	2KHZ			
Resolution Of Force	1/10,000			
Load Cell Accuracy	±1.0%			
	92x30x38 cm			
Dimension	92x30x38 cm			
Dimension Weight	92x30x38 cm 36kg			

Software:

Software of computerized serial

- Setting testing condition and operate directly trough computer.
- Setting various testing mould, e.g. tension test, compression test, bending test, peel test, creep test, test, spring test, foam test, user defined test etc.
- Various unit selectable: Unit is interchangeable between Metric system and English system, also can set the decimal place of each unit.
- Force (kN, N, tonf [SI, long, short], kgf, gf, lbf, ozf)
- Length(m, cm, mm, ft, in)
- Stress (GPa, MPa, kPa, Pa, kN/m², N/m², N/cm², N/mm², kgf/mm², gf/cm², gf/mm², lbf/ft², lbf/in, kpsi, psi)
- Time (min, sec, msec)
- Speed (cm/min, cm/sec, mm/min, mm/sec, in/min, in/sec).
- Protection mode: Over load protection, over displacement protection.
- Display X-Y, X-T, Stress-Strain curve and data synchronously.
- Analyze data, statistics, save data by computer.
- Connect with computer by USB.

Software of Electronic serial

- Connect with computer by USB.
- Setting various testing mould, e.g. tensile, compression, bending, peel test etc.
- Display X-Y, X-T, Stress-Strain curve and data synchronous.
- Analyze data, statistics, save data by computer.

Grips MATERIAL TESTING

Model	UTM-GR-A010	UTM-GR-A020	UTM-GR-A030	UTM-GR-B010	
Image					
Max. Capacity	2KN	2KN	2KN	200KN	
Specimen Width	40mm	40mm 44mm		30mm	
Specimen Thickness	1~12mm	1~12mm 0.1~5mm		0.1~5mm	
Grip Weight	984g	984g 687g		212g	
Grip Material	Steel	Steel Steel		Aluminium Alloy	
Temperature Limits	-30°c~+200°c	-30°c~+200°c	-30°C~+200°C	-10°c~+100°c	
Min Load Cell	200N	200N	200N	20N	
Applicable Adapter	GR-02	GR-02	GR-02	GR-02	
Application	Rubber / Plastic / Fabric	Ductile Rubber / Ductile Plastic	Ductile Rubber / Ductile Plastic	Tapes, Films / Paper	
Diagram					

Model	UTM-GR-B020	UTM-GR-B030	UTM-GR-C010	UTM-GR-C020	
Image		Fil			
Max. Capacity	200N	200N	5KN	10KN	
Specimen Width	25.4mm	32mm	40mm	58mm	
Specimen Thickness	0.1~3mm	0.01~3mm	-	-	
Specimen Distance	-	-	22~260mm	24~300mm	
Grip Weight	949g	1110g	up 901g / down 5342g	up 1960 / down 11510g	
Grip Material	Aluminum Alloy	Steel	Steel	Steel	
Temperature Limits	-10°C~+100°C	-10°C~+100°C	-30°c~+200°c	-30°c~+200°c	
Min Load Cell	-			500N	
Applicable Adapter	GR-02	GR-02	GR-02 / GR-03	GR-02 / GR-03	
Application	Tapes / Films / Ductile Circuit Board	Tapes / Films / Ductile Circuit Board	Metal / Wood / glasses / Rigid Plastic	Metal / Wood / glasses / Rigid Plastic	
Anvil Radius	-	-	R=5mm (adjustable)	R=5mm (adjustable)	
Diagram				\$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	

MATERIAL TESTING Grips

Model	UTM-GR-D01A	UTM-GR-D01D	UTM-GR-D01G	UTM-GR-D020
Image				
Max. Capacity	2KN	2KN	2KN	2KN
Specimen Width	78mm	78mm	78mm	60mm
Specimen Thickness	0.2~5mm	0.2~5mm	0.2~5mm	0.2~5mm
Grip Weight	1600g	1600g	1600g	2142g
Grip Material	Steel	Steel	Steel	Steel
Jaw Face	Crosshatch	Rubber Faced	Waved	_
Temperature Limits	-30°C~+200°C	-30°c~+200°c	-30°C~+200°C	0°c~+200°c
Min Load Cell	200N	200N	200N	200N
Applicable Adapter	GR-02	GR-02	GR-02	GR-02
Application	Textile / Rubber / Plastic	Paper / Textile / Rubber / Plastic	Textile	Textile / Plastic
Other Spec.	GR-D01B: A=50.8mm GR-D01C: A=25.4mm	GR-D01E: A=50.8mm GR-D01F: A=25.4mm	GR-D01H: A=20.8mm GR-D01I: A=25.4mm	-
Diagram				

Model	UTM-GR-D030	UTM-GR-D040	UTM-GR-E010
Image			
Max. Capacity	5KN	1KN	200KN
Specimen Width	50mm	78mm	_
Specimen Thickness	0.5~25mm	1~45mm	-
Grip Weight	2800g	2100g	432g
Grip Material	Steel	Steel	Steel
Temperature Limits	0°C~+100°C	0°C~+200°C	0°C~+100°C
Min Load Cell	500N	200N	20N
Applicable Adapter	GR-02	GR-02	GR-02
Application	Textile / Plastic	Big Size Specimen	Yarn
Diagram			

Grips MATERIAL TESTING

Model	UTM-GR-E020	UTM-GR-E030	UTM-GR-E040	UTM-GR-E050
Image				
Max. Capacity	2KN	500KN	100KN	2KN
Specimen Width	51mm	26mm	-	-
Specimen Thickness	0.2~3mm	0.1~2mm	-	-
Grip Weight	1120g	585g	245g	1400g
Grip Material	Steel	Steel	Aluminum Alloy	Steel
Temperature Limits	-30°c~+200°c	-30°c~+200°c	-30°c~+200°c	-30°c~+200°c
Min Load Cell	200N	50N	20N	100N
Applicable Adapter	GR-02	GR-02	GR-02	GR-02 / M12
Application	Webbing / Packing belt	Yarn / Wire / Film	Yarn	Wire / Nylon line
Specimen Diameter	-	_	Ø0.5~Ø1mm	Ø0.5~Ø2mm
Diagram				

Model	UTM-GR-F010	UTM-GR-F01A TYPE JAW	UTM-GR-F01B TYPE JAW
Image		Standard Specimen Specimen Thickness: 0.2~10mm A: Interchangeable Jaw Face B: Jaw Face Support	Thickened Specimen Specimen Thickness: 9~18mm
		Application: metal Sheet / Wire / Plastic	
Max. Capacity	100KN	UTM-GR-F01F TYPE JAW	UTM-GR-F01G TYPE JAW
Specimen Width	30mm		
Specimen Thickness	1~12mm		
Grip Weight	5246g		
Grip Material	Steel	r=30.0 =1	+ 30.0 +1 ^{∞D}
Temperature Limits	-30°C~+200°C		
Min Load	1KN		
Applicable Adapter	GR-02 / GR-03		- et.0-
Diagram		Rod Specimen Specimen: Dia.(D) Ø6~Ø14mm Application: Metal Rod / Plastic R	Rod Specimen Specimen: Dia.(D) Ø13~Ø20mm od / Rod or Tube Shape Materials

MATERIAL TESTING Grips

Model	UTM-GR-F020	UTM-GR-F02A TYPE JAW	UTM-GR-F02B TYPE JAW
Image			Thickened Specimen Specimen Thickness: 10~21mm
May Capacity	FOKN	Application: Wire / Rigid	
Max. Capacity	50KN	UTM-GR-F02F TYPE JAW	UTM-GR-F02G TYPE JAW
Specimen Width Specimen Thickness Grip Weight Grip Material Temperature Limits	40mm 0.1~5mm 10163g Steel -30°c~+200°c		
Min Load	1KN GR-03	-0.67	-0
Applicable Adapter		Rod Specimen Specimen: Dia. Ø7~17Ømm	Rod Specimen Specimen: Dia. Ø16~Ø26mm
	-65.0+	Application: Metal Rod / Plast	ic Rod / Rod or Tube Materials
Model	1+65,0+8		
Model	UTM-GR-F030	UTM-GR-F03A TYPE JAW	IC Rod / Rod or Tube Materials UTM-GR-F03B TYPE JAW
Image	UTM-GR-F030	UTM-GR-F03A TYPE JAW	UTM-GR-F03B TYPE JAW
Image Max. Capacity	UTM-GR-F030	UTM-GR-F03A TYPE JAW	UTM-GR-F03B TYPE JAW
Image Max. Capacity Specimen Width Grip Weight	UTM-GR-F030	UTM-GR-F03A TYPE JAW	UTM-GR-F03B TYPE JAW
Image Max. Capacity Specimen Width Grip Weight Grip Material	UTM-GR-F030	UTM-GR-F03A TYPE JAW	UTM-GR-F03B TYPE JAW
Image Max. Capacity Specimen Width Grip Weight	UTM-GR-F030	UTM-GR-F03A TYPE JAW	UTM-GR-F03B TYPE JAW
Image Max. Capacity Specimen Width Grip Weight Grip Material Temperature Limits	UTM-GR-F030	UTM-GR-F03A TYPE JAW	UTM-GR-F03B TYPE JAW

Grips MATERIAL TESTING

Model	UTM-GR-F040		UTM-GR-F04	A TYPE JAW	UTM	-GR-F04B TYPE JAW
Image			G G G G G G G G G G G G G G G G G G G		Th Specim	ickened Specimen hen Thickness: 10~19mm
	0			Application: Wir	e / Metc	al Sheet
Max. Capacity	200KN		UTM-GR-F04	F TYPE JAW	UTM-	-GR-F04G TYPE JAW
Specimen Width Grip Weight Grip Material Temperature Limits Min. Load Applicable Adapter	46mm 19150g Steel -30°c~+200°c 5KN GR-04			^{₽D} ^{39.0} ~	000	
Diagram			Rod Specim Ø9~17	pen: Dia.(D) Ømm	Ro	d Specimen: Dia.(D) Ø6∼Ø25mm
Model	UTM-GR-G010	ŪT/	M-GR-G01A	UTM-GR-G020		UTM-GR-G030
Image					4	
Max. Capacity	5KN		10KN	5KN		20KN
Max. Diameter	50mm		130mm	90mm		100mm
Grip Weight	400g		1700g	1518g		3269g
Grip Material Temperature Limits	Steel -70°c~+200°c		Steel 70°c~+200°c	Steel -70°c~+200	າະດ	Steel -30°c~+200°c
Min. Load Cell	50N		200N	100N		500N
Applicable Adapter	GR-02 / GR-01	GR-02	/ GR-03 / GR-04	GR-02		GR-02 / GR-03
Application	Can / Brittle Material	Can /	/ Brittle Material	Spring / Fo	am	Concrete Material
Diagram						

MATERIAL TESTING Grips

Model	UTM-GR-G040	UTM-GR-G050	UTM-GR-H010	UTM-GR-H020
Image				(rada b ac
Max. Capacity	500N	5KN	200N	20N
Specimen Width	-	-	30mm	16mm
Specimen Thickness	-	0.28~0.55mm	0.1~3mm	0.1~3mm
Grip Weight	1320g	7442g		
Grip Material Temperature Limits	Steel -30°c~+200°c	Steel 0°c~+100°c	Aluminum Alloy 0°c~+40°c	Aluminum Alloy 0°c~+40°c
Min Load Cell	-30 C++200 C	500N	20N	10N
Applicable Adapter	GR-02	GR-02	GR-02	GR-02
Application	Spring / Foam	Tappi T818 Paper Ring Crush	Plastic / Rubber Sheet / Wire / Paper	Plastic Sheet / Wire
Air Supply	-	-	40~80Psi	40~80Psi
Max. Diameter	Ø55mm	-	-	-
Specimen Size	-	12.7 x 152.4mm	-	-
Diagram		р 9 449.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Model	UTM-GR-I010	UTM-GR-H030	UTM-GR-H040	UTM-GR-H050
Image				
Max. Capacity	500N	1KN	1KN	5KN
Specimen Width	-	51mm	-	50mm
Specimen Thickness	-	0.1~12mm	0.1~4mm	0.5~12mm
Grip Weight	1320g		2503g	9337g
Grip Material Temperature Limits	Steel -30°c~+200°c	Aluminum Alloy 0°c~+40°c	Aluminum Alloy 0°c~+40°c	Steel 0°c~+40°c
Min Load Cell	-	200N	200N	1KN
Applicable Adapter	GR-02	GR-02	GR-02	GR-02
Application	Spring / Foam	Fabric / Paper / Leather / Plastic / Rubber	Nylon Line	Plastic / Rubber
Air Supply	-	40~80Psi	40~80Psi	40~80Psi
Test Area	60 x60mm	-	-	-
Diagram				

Grips MATERIAL TESTING

Model	UTM-GR-I030	UTM-GR-J010	UTM-GR-J020
Image			
Max. Capacity	500N	10KN	20KN
Specimen Width		50mm	81mm
Specimen Thickness	-	0.5~3mm	0.5~3mm
Specimen Diameter	1~9mm	-	-
Grip Weight	782g	4900g	11522g
Grip Material	Steel	Steel	Steel
Temperature Limits	0°C~+100°C	-30°C~+200°C	-30°C~+200°C
Min Load Cell	100N	2KN	2KN
Applicable Adapter	GR-02 / GR-03	GR-02 / GR-03	GR-02 / GR-03
Application	Rod Material	Webbing / High-Tension Material	Webbing / High-Tension Material
Diagram			

Model	UTM-GR-K010	UTM-GR-K020	UTM-GR-K030	UTM-GR-K03B	UTM-GR-L030
Image				9 <u></u>	
Max. Capacity	1KN	200N	500N	100N	-
Specimen Diameter	-	Ø0.5~Ø2.5mm	-	-	-
Button Dia.	-	-	-	-	Ø5~Ø15mm
Specimen Width	50mm	-	-	-	-
Jaw Face Width	-	-	25.4mm	12mm	-
Specimen Thickness	0.5~4mm	-	0.2~5mm	0.2~3mm	-
Grip Weight	1727g	Up 470g / Down 1748g	710g	253g	Up 925g / Down 3648g
Grip Material	Steel	Steel	Steel	Steel	Steel
Temperature Limits	-30°c~+200°c	-30°C~+200°C	-30°c~+200°c	-30°c~+200°c	0°C~+200°C
Min Load Cell	50N	20N	50N	10N	20N
Applicable Adapter	GR-02	GR-02 / MB+GR-02	M12 / GR-02	M6 / GR-02	M6 / GR-02
Application	Zipper / Speci- men-Fix One Side and Pull up	Spring	Smaller Specimen / Ductile Sheet Material	Smaller Specimen / Ductile Sheet Material	Button
Diagram					

MATERIAL TESTING Grips, Extensometer

Model	UTM-GR01	UTM-GR02	UTM-GR03	UTM-GR04
Image				
Max. Capacity	1000N	20KN	50KN	200KN
Adapter Material	Steel	Steel	Steel	Steel
Application	QC-528 / QC-508E	QC-528 / QC-508E / QC-513 QC-508 / QC-506 / QC-505	QC-505 Series	QC-503 / QC-502 Series
Diagram				$\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & &$



UTM-515, Extensometer

Extensometer is the essential equipment for measuring the elongation of specimen. It used in tensile test and sense the elongation when testing is processing. Extensometer is helpful to analysis test data at the same time, including force, elongation, time and so on.

MRC supply long extensometer and short extensometer according to different test materials. Long extensometer applies on rubber and plastic material. Short extensometer applies on metal and brittle material.

How To Install On The Machine



Long Extensometer

Model	UTM-515			
Type (Length)	A: Standard	B: Extended		
Accuracy	0.1mm			
Resolution	0.025mm			
Drag Fore	Max/0.25N			
Stroke	700mm 1100mm			
Gauge Length	15~50mm			
Output Signal	AB Phase			
Mounting Way	Fixed Holder / Revolvable Holder (option)			

Extensometer, Chamber MATERIAL TESTING

Short Extensometer



Model	UTM-556	UTM-558
Gauge Length	50mm	25mm / 50mm
Elongation	50%	100% / 50%
Length Resolution	0.001mm	0.01mm
Output Signal	2 mV/V	AB Phase Differential Motion Output
Max. Output Frequency	-	64KHZ
Power Supply	DC 5-10V	DC 5V±5%
Application	A Series Controller	B1-A Series Controller
Weight	_	175g

Chamber For Environmental Test



Temperature and humidity can make great impact on physical properties of the test material.

Therefor, materials which are used in specific condition need even more to pass through specific

environmental test.

MRC offer various acquirements for environmental test, including high temperature test, low temperature test and humidity test.

These chambers can be installed on universal testing machine to preform test under certain environmental conditions.

These serial almost adapt double column type, it can also be used on single column type to meet special request.

Oven

- Inner size: Standard type 200x200x500mm.
- Temperature range: +50°c ~ +200°c.
- Attached stand with track to connect with universal testing machine.
 Attached extend shaft of thermal discharge type to reduce the
- effect of temperature to tester.

Note: Temperature and inner size could be specified by customer.

Freezing Chamber

- Inner size: Standard type 200x200x500mm.
- Temperature range: low temperature range: 0°c \sim -60°c, high temperate range: up to +150°c.
- Attached stand with track to connect with universal testing machine.
- Attached extend shaft of thermal discharge type to reduce the effect of temperature to tester.

Note: Temperature and inner size could be specified by customer.

Humidity And Temperature Chamber

- Inner size: Standard type 300x300x500mm.
- Temperature range: low temperature range: 0°c \sim -60°c, high temperature range: up to +150°c.
- Humidity range: 25–90%
- Attached stand with track to connect with universal testing machine.
- Attached extend shaft of thermal discharge type to reduce the effect of temperature to tester.

Note: Temperature and inner size could be specified by customer.