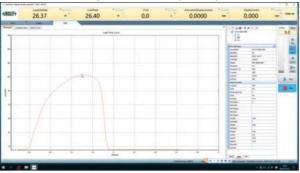


ELECTRONIC UNIVERSAL TESTING MACHINES

computer and software (included)



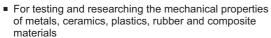


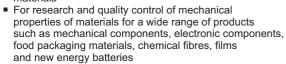




V-shaped jaws (included)











UTM-E50

SPECIFICATION

Code	UTM-E10	UTM-E20	UTM-E30	UTM-E50		
Max. test force	10kN	20kN	30kN	50kN		
Accuracy class	class 0.5					
Accuracy of test force	±0.5% of indicated va	lue				
Range of test force	0.2%~100%FS					
Resolution of test force	1/500000FS					
Crossbeam displacement accuracy	±0.5% of indicated va	lue				
Crossbeam displacement resolution	0.025µm					
Range of speed adjustment	0.001~500mm/min					
Accuracy of crossbeam speed	±1% of the set value (speed<0.5mm/min) ±0.1% of the set value (speed≥0.5mm/min)					
Range of force control speed	0.005~5%FS/s					
Accuracy of crossbeam speed	±1% of the set value (speed<0.05%FS/s) ±0.5% of the set value (speed≥0.05%FS/s)					
Compression fixture	Ø100mm	Ø100mm Ø100mm Ø100mm				
Wedge tension fixture	flat jaw: 0~7mm	flat jaw: 0~7mm V-jaw: Ø4~Ø9mm	flat jaw: 0~7mm V-jaw: Ø4~Ø9mm	flat jaw: 0~14mm V-jaw: Ø4~Ø14mm		
Effective test width *	400mm 440mm 440mm 440mm					
Vertical test space *	1030mm	970mm	970mm	970mm		
Effective compression height *	800mm	700mm	700mm	700mm		
Dimension (W×D×H)	715×500×1680mm	820×620×1880mm	820×620×1880mm	820×620×1880mm		
Weight	230kg	350kg	350kg	350kg		
Power supply	AC 220V, 50Hz, 0.4kW~1kW					

^{*}Can be customized according to test requirements

To be continued



Continued from previous page

SPECIFICATION

Code	UTM-E100	UTM-E200	UTM-E300	UTM-E600		
Max. test force	100kN	200kN	300kN	600kN		
Accuracy class	class 0.5					
Accuracy of test force	±0.5% of indicated val	±0.5% of indicated value				
Range of test force	0.2%~100%FS					
Resolution of test force	1/500000FS					
Crossbeam displacement accuracy	±0.5% of indicated val	lue				
Crossbeam displacement resolution	0.025µm					
Range of speed adjustment	0.001~500mm/min			0.001~250mm/min		
Accuracy of crossbeam speed	±1% of the set value (speed<0.5mm/min) ±0.1% of the set value (speed≥0.5mm/min)					
Range of force control speed	0.005~5%FS/s					
Accuracy of crossbeam speed	±1% of the set value (speed<0.05%FS/s) ±0.5% of the set value (speed≥0.05%FS/s)					
Compression fixture	Ø160mm Ø150mm Ø200mm					
Wedge tension fixture	flat jaw: 0~20mm			flat jaw: 0~30mm V-jaw: Ø8~Ø46mm		
Effective test width*	600mm 600mm 600mm 750mm					
Vertical test space *	1250mm	1000mm	1000mm	1100mm		
Effective compression height **	700mm	600mm	600mm	650mm		
Dimension (W×D×H)	1070×855×2180mm	1070×920×2550mm	1070×920×2550mm	1140×1580×2980mm		
Weight	1000kg	1500kg	1500kg	5000kg		
Power supply	AC380V, 3Ø, 50Hz, 2kW~5kW					

^{*}Can be customized according to test requirements

SPECIFICATION OF LARGE DEFORMATION EXTENSOMETER (OPTIONAL)

Code	UTM-EY1	UTM-EY2		
Range of deformation	10~800mm			
Accuracy of deformation	±1%			
Resolution of deformation	0.01mm 0.004mm			
Type of blade	flat blade			
Range of clamp	thicknesses<10mm, width<30mm			

STANDARD DELIVERY

Main unit	1 pc
Control box	1 pc
Measuring software	1 pc
Computer	1 pc
Printer	1 pc
Compression fixture	1 set
Wedge tension fixture	1 set

OF HONAL ACCESSORT		
Fixture	UTM-F series (customized, selection of specifications according to test requirements)	
Extensometer	UTM-EX series (customizable)	
Video extensometer	UTM-M series	
Large deformation extensometer	UTM-EY series (customizable)	
Security door	customized, available in plexiglass or wire mesh	



large deformation extensometer (optional)



HIGH AND LOW TEMPERATURE TEST CHAMBERS FOR ELECTRONIC UNIVERSAL TESTING MACHINES





UTT-M63-E50

- For **UTM-E**□□□ electronic universal testing machines
- For tensile, compression, bend, shear tests in high and low temperature environment

SPECIFICATION

	for UTM-E10	UTT-M03-E10	UTT-M33-E10	UTT-M63-E10	
Code	for UTM-E50	UTT-M03-E50	UTT-M33-E50	UTT-M63-E50	
	for UTM-E100	UTT-M03-E100	UTT-M33-E100	UTT-M63-E100	
Temperature range		(room temperature+10)~300°C	-30~300°C	-60~300°C	
Temperatur	e accuracy*	±1°C			
Temperatur	e fluctuation*	±0.5°C			
Temperatur	e uniformity*	≤2°C			
Temperatur	e resolution	0.1°C			
Cooling system		no	cormpressor or liquid nitrogen		
Cooling time (room temperature@25°C)		- 110	1~2°C/min (no-load)		
Warming u	p time	1~3°C/min (no-load)			
Temperatur	e control	PID automatic temperature control			
Heating sys	stem	magnesium powder heating tube			
Aperture si	ze	Ø50mm			
Chamber d	imension**	240×430×530mm (suitable for electronic universal testing machines with column spacing of 400mm and above)			
Power supp	oly	AC 220V, 60Hz			
Total power	r	1.8kW	2.2kW	2.8kW	

^{*}The applicable range of temperature accuracy, uniformity and fluctuation is Ø100×200mm

^{**}Customized according to UTM-E___ electronic universal testing machine and customer requirements



VIDEO

ELECTRONIC UNIVERSAL TESTING MACHINES (ADVANCED TYPE)

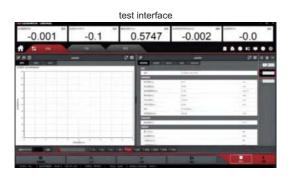


wired hand control box (included)



UTM-X010

- Equipped with a variety of test software, can be for metal, ceramics, plastics, rubber and composite materials and other related mechanical properties of the test and research
- Can be used for research and quality control of mechanical properties of various products such as mechanical parts, electronic parts, food packaging materials, chemical fibres, films, new energy batteries and so on
- The rigidity of the host, loading speed and load, deformation measurement accuracy, data reliability, adoption rate and closed-loop control rate are excellent



test and calibration interface





fully automatic
extensometer (optional)
(class 0.5 high-precision
fully-automatic
extensometer with a wide
measuring range for
automatic testing and full
strain measurement)



compression fixture (optional)



security door (optional)



tensile fixture (optional)

To be continued



Continued from previous page



high and low temperature environment box (optional)



constant temperature and humidity box (optional)



high temperature furnace (optional)



high precision axial extensometer (optional) (a variety of scales can be selected to fully meet the requirements of variety of materials, the accuracy meets class 0.5)



width gauge (optional) (widely used for r-value and poisson's ratio measurements, meets the requirements of ASTM E517 and IS010113)

SPECIFICATION

SPECIFICATIC	/IN						
Code		UTM-X001 UTM-X005 UTM-X010		UTM-X050	UTM-X100	UTM-X300	
Max. test for	ce	1kN 5kN 10kN		50kN	100kN	300kN	
Accuracy cla	ss	class 0.5					
Accuracy of	test force	±0.5% of indicated value					
Range of tes	t force	0.2%~100%FS					
Test force re	solution	0.002N	0.02N	0.02N	0.2N	0.2N	0.5N
Crossbeam o	lisplacement accuracy	±0.1% of inc	licated value				
Crossbeam o	lisplacement resolution	0.1µm					
Velocity accu	ıracy	±0.1% of indicated value					
Range of spe	ed adjustment	0.001~1000mm/min 0.001~800mm/min 0.001~50			0.001~500mm/min		
Effective test	width	420mm 600mm					
Vati = =1.4==4	standard model	1200mm		1255mm		1450mm	
Vertical test space heightened 250mm (optional)		1450mm		1505mm		1700mm	
ориос	heightened 500mm (optional)	1700mm			_		
D:	standard model	748×582×16	600mm		1100×724×2160mm		1180×756×2440mm
Dimension (W×D×H)	heightened 250mm (optional)	748×582×18	350mm		1100×724×2410mm		1180×756×2690mm
(**************************************	heightened 500mm (optional)	748×582×21	100mm		_		
	standard model	160kg		610kg		965kg	
Weight	heightened 250mm (optional)	onal) 185kg		660kg		1015kg	
	heightened 500mm (optional)	210kg			_		
Power supply	′	AC220V, 50	Hz, 1kW		AC380V, 3Ø, 50Hz, 4kW	AC380V, 3Ø, 50Hz, 4.5kW	AC380V, 3Ø, 50Hz, 6kW
Environment	requirements	temp: 5~40°c, humidity level: 5~85%RH, non-condensing no vibration					

STANDARD DELIVERY

Main unit	1 pc
Control box	1 pc
Computer	1 pc
Software	1 pc
Printer	1 pc

OPTIONAL ACCESSORY	
Security door *	
Fixture*	
Extensometer *	
Width gauge *	customizable
High temperature furnace*	
Constant temperature and humidity box*	
High and low temperature environment box*	
di.	

^{*}Selection of specifications according to test requirements

+INSIZE+

VIDEO

ELECTRONIC UNIVERSAL TESTING MACHINES

computer and software (included)



- Applicable to metal, non-metal and composite materials for tensile, compression, bending and other mechanical properties test analysis and analytical research
- Automatically obtain the maximum force, breaking force, yield strength, upper and lower yield strength, tensile strength, compressive strength, elongation at break, tensile modulus of elasticity, bending modulus of elasticity and other test data
- Test standards and test parameters can be managed and imported or exported test standards
- Overload emergency shutdown protection device, up and down travel limit protection device
- Crossbeam movement collision mitigation function



UTM-Z500

SPECIFICATION

Code	UTM-Z50	UTM-Z500	UTM-Z1000	UTM-Z2000	UTM-Z5000	
Max. test force*	50N	500N	1000N	2000N	5000N	
Accuracy class	class 0.5					
Range of test force	0.4%~100%FS					
Accuracy of test force	±0.5% of indica	ting value				
Resolution of test force	1/300000FS					
Accuracy of displacement	±0.5% of indica	ting value				
Resolution of displacement	0.2μm	0.2μm				
Range of crossbeam speed	0.001~1000mm	0.001~1000mm/min				
Accuracy of crossbeam speed	±0.5% of indica	±0.5% of indicating value				
Range of force control speed	0.05%~10%FS/	0.05%~10%FS/s				
Accuracy of force control speed	±0.5% of indicating value					
Effective tensile travel*	550mm	550mm				
Effective compression travel *	700mm					
Dimension (W×D×H)	500×380×1150mm					
Power supply	AC 220V, 50Hz					
Weight	100kg					

STANDARD DELIVERY

Main unit	1 pc
Computer	1 set
Software	1 set
Control box	1 pc
Tensile fixture	1 set

Fixture*	
Extensometer*	customized
Large deformation extensometer *	Customized
Security cover *	

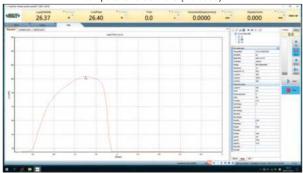
^{*}Can be customized according to test requirements



ELECTRONIC UNIVERSAL TESTING MACHINES







- For testing and researching the mechanical properties of metals, ceramics, plastics, rubber and composite materials
- For research and quality control of mechanical properties of materials for a wide range of products such as mechanical components, electronic components, food packaging materials, chemical fibres, films and new energy batteries



UTM-S5KA

SPECIFICATION

Code	UTM-S200A	UTM-S500A	UTM-S1KA	UTM-S2KA	UTM-S5KA
Max. test force	200N	500N	1kN	2kN	5kN
Accuracy class	class 0.5	class 0.5			
Accuracy of test force	±0.5% of indica	±0.5% of indicated value			
Range of test force	0.2%~100%FS	0.2%~100%FS			
Resolution of test force	1/500000FS	1/500000FS			
Crossbeam displacement accuracy	±0.5% of indica	±0.5% of indicated value			
Crossbeam displacement resolution	0.025µm	0.025µm			
Range of speed adjustment	0.001~500mm/i	0.001~500mm/min			
Accuracy of crossbeam speed		±1% of the set value (speed<0.5mm/min) ±0.1% of the set value (speed≥0.5mm/min)			
Range of force control speed	0.005~5%FS/s	0.005~5%FS/s			
Accuracy of constant load force		±1% of the set value (speed<0.05%FS/s) ±0.5% of the set value (speed≥0.05%FS/s)			
Vertical test space*	1120mm	1120mm			
Effective compression height *	800mm	800mm			
Dimension (W×D×H)	510×510×1580	510×510×1580mm			
Weight	150kg	150kg			
Power supply	AC220V, 50Hz	AC220V, 50Hz, 0.4kW			

^{*}Can be customized according to test requirements

STANDARD DELIVERY

- · · · · · · · · · · · · · · · · · · ·		
Main unit	1 pc	
Control box	1 pc	
Measuring software	1 pc	
Computer	1 pc	
Printer	1 pc	
Compression fixture (except UTM-S200A)	1 set	
Tension fixture	1 set	

Fixture	UTM-F series (customized, selection of specifications according to test requirements)
Extensometer	UTM-EX series (customizable)
Video extensometer	UTM-M series
Large deformation extensometer	UTM-EY series (customizable, page 948)
Security door	customized



VIDEO

HYDRAULIC UNIVERSAL TESTING MACHINES



UTM-H300B

 For tensile, compression, bend, shear tests of metal and non-metal materials

SPECIFICATION

Code		UTM-H300B	UTM-H600B	UTM-H1000B	UTM-H2000B	UTM-H3000B
Max. test force		300kN	600kN	1000kN	2000kN	3000kN
Accuracy		±1%				
Test force measuren	nent range	2%~100%FS				
Resolution of test fo	rce measurement	1/300000 of Max. test force (same resolution all the way)				
Deformation measur	ement device	extensoment				
Deformation measur	ement range	1%~100%FS				
Deformation measur	ement accuracy	±1%				
Deformation measur	ement resolution	1/300000				
Displacement accura	асу	±1%				
Displacement resolu	ition	0.01mm				
Displacement travel		200mm				
Max tensile space (in	ncluding piston stroke)	600mm	600mm	680mm	600mm	900mm
Max compression sp (including piston str		500mm	500mm	560mm	500mm	800mm
Transmission mode		chain drive				
Safety protection de	vice	software protection and mechanical limit protection				
Control function		special software, closed-loop of stress, strain and velocity				
Clamping range of re	range of round sample Ø10~32mm Ø13~40mm Ø13~60mm Ø20~70mm Ø25		Ø25~80mm			
Clamping range of fl	at sample	0~15mm	0~15mm*	0~20mm**	0~40mm	0~80mm
Upper and lower pressure plate size Ø188mm Ø188mm Ø208mm Ø208mm		Ø208mm				
Bending branch roll	width	140mm				
Total power	2.5kW 3.0kW 3.0kW 3.75kW 5.5kW			5.5kW		
Power supply		380V, 50Hz				
D '	host	800×620×1900	820×650×2000	940×780×2250	1100×760×3000	1250×930×3550
Dimension (mm)	oil source	1140×600×855				
Weight		2T	2.2T	3T	7.5T	12.6T

^{*}Customizable 0~30mm

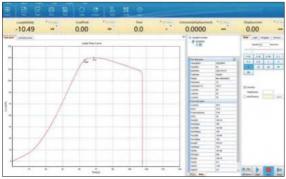
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^{**}Customizable 0~40mm



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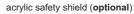
computer and software (included)



STANDARD DELIVERY

Main unit	1 pc
Electro hydraulic servo oil source	1 pc
Electro hydraulic servo valve	1 pc
High pressure oil pump	1 pc
Oil pressure sensor	1 pc
Control box	1 pc
Extensometer	1 pc
Computer	1 pc
Measuring software	1 set
Printer	1 pc
Tensile fixture	1 set
Compression fixture	1 set







steel wire safety shield (optional)

OPTIONAL ACCESSORY

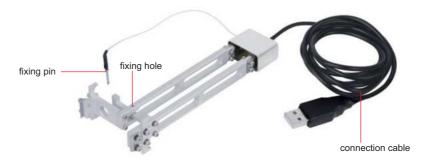
Acrylic safety shield	UTM-H-COVER1
Steel wire safety shield	UTM-H-COVER2

EXTENSOMETERS

■ For universal testing machines

SPECIFICATION

Code	Gauge length Deformation		
UTM-EX25-5	25mm	5mm	
UTM-EX25-10	25mm	10mm	
UTM-EX25-25	25mm	25mm	
UTM-EX50-5	50mm	5mm	
UTM-EX50-10	50mm	10mm	
UTM-EX50-25	50mm	25mm	
UTM-EX100-5	100mm	5mm	
UTM-EX100-10	100mm	10mm	
UTM-EX100-25	100mm 25mm		
UTM-EX200-5	200mm	5mm	
UTM-EX200-10	200mm	10mm	
UTM-EX200-25	200mm	25mm	
UTM-EX-B	large deformation, customized according to the workpieces		



UTM-EX50-10