

## ELECTRONIC UNIVERSAL TESTING MACHINES (PROFESSIONAL TYPE)



UTM-X010

wired hand control box  
(included)



test interface



test and calibration interface

- 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



tensile fixture (optional)



compression fixture (optional)



security door (optional)



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

high precision axial extensometer **(optional)** (a variety of scales can be selected to fully meet the requirements of a 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 ISO10113)

high temperature furnace **(optional)**

constant temperature and humidity box **(optional)**

high and low temperature environment box **(optional)**

## SPECIFICATION

Code	UTM-X001	UTM-X005	UTM-X010
Maximum test force	1kN	5kN	10kN
Accuracy class	class 0.5		
Accuracy of test force	±0.5% of indicated value		
Range of test force	0.2%~100%FS		
Test force resolution	0.002N	0.02N	0.02N
Crossbeam displacement accuracy	±0.1% of indicated value		
Crossbeam displacement resolution	0.1µm		
Velocity accuracy	±0.1% of indicated value		
Range of speed adjustment	0.001~1000mm/min		
Effective test width	420mm		
Vertical test space	standard model	1200mm	
	heightened 250mm (optional)	1450mm	
	heightened 500mm (optional)	1700mm	
Dimension W x D x H	standard model	748×582×1600mm	
	heightened 250mm (optional)	748×582×1850mm	
	heightened 500mm (optional)	748×582×2100mm	
Weight	standard model	160kg	
	heightened 250mm (optional)	185kg	
	heightened 500mm (optional)	210kg	
Power supply	AC220V, 50Hz, 1kW		
Environment requirements	temp: 5~40 °C humidity level: 5~85%RH non-condensing no vibration		

Code	UTM-X050	UTM-X100	UTM-X300
Maximum test force	50kN	100kN	300kN
Accuracy class	class 0.5		
Error of test force	±0.5% of indicated value		
Range of test force	0.2%~100%FS		
Test force resolution	0.2N	0.2N	0.5N
Crossbeam displacement accuracy	±0.1% of indicated value		
Crossbeam displacement resolution	0.1µm		
Velocity accuracy	±0.1% of indicated value		
Range of speed adjustment	0.001~800mm/min		0.001~500mm/min
Effective test width	600mm		
Vertical test space	standard model	1255mm	
	heightened 250mm (optional)	1505mm	
	heightened 500mm (optional)	—	—
Dimension W x D x H	standard model	1100×724×2160mm	
	heightened 250mm (optional)	1100×724×2410mm	
	heightened 500mm (optional)	—	—
Weight	standard model	610kg	
	heightened 250mm (optional)	660kg	
	heightened 500mm (optional)	—	—
Power supply	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 ASSESSORY

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

\* Selection of specifications according to test requirements