

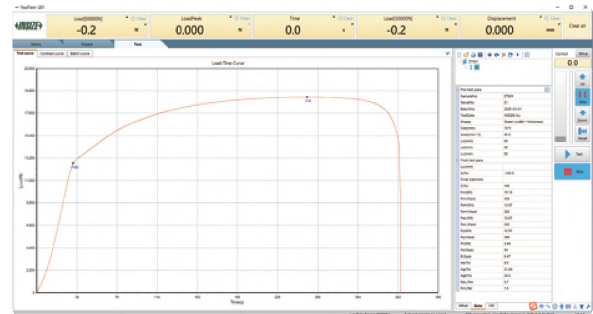
ELECTRONIC UNIVERSAL TESTING MACHINES (STANDARD TYPE)



CUSTOMIZABLE



UTM-E50



computer and software (included)



flat jaws (included)



V-shaped jaws (included)

- 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

SPECIFICATION

Code	UTM-E10	UTM-E20	UTM-E30	UTM-E50
Max. test force	10kN	20kN	30kN	50kN
Accuracy class	0.5 class			
Accuracy of test force	±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 value			
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) ±0.2% of the set value, (speed≥0.5mm/min)			
Range of force control speed	0.005~5%FS/s			
Accuracy of constant load force	±2% 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*	970mm	970mm	970mm	970mm
Effective tensile height*	700mm	610mm	610mm	610mm
Effective compression height*	800mm	700mm	700mm	700mm
Power supply	AC 220V, 50Hz, 0.4kW~1kW			
Dimension (LxWxH)	715×500×1680mm	820×620×1880mm	820×620×1880mm	820×620×1880mm
Net weight	230kg	350kg	350kg	350kg

*Can be customized according to test requirements

SPECIFICATION

Code	UTM-E100	UTM-E200	UTM-E300	UTM-E600
Max. test force	100kN	200kN	300kN	600kN
Accuracy class	0.5 class			
Accuracy of test force	±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 value			
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) ±0.2% of the set value, (speed≥0.5mm/min)			
Range of force control speed	0.005~5%FS/s			
Accuracy of constant load force	±2% of the set value, (speed<0.05%FS/s) ±0.5% of the set value, (speed≥0.05%FS/s)			
Compression fixture	Ø160mm	Ø150mm	Ø150mm	Ø200mm
Wedge tension fixture	flat jaw: 0~20mm V-jaw: Ø8~Ø26mm	flat jaw: 0~30mm V-jaw: Ø8~Ø36mm	flat jaw: 0~30mm V-jaw: Ø8~Ø36mm	flat jaw: 0~30mm V-jaw: Ø8~Ø46mm
Effective test width*	600mm	600mm	600mm	750mm
Vertical test space*	1200mm	1000mm	1000mm	1100mm
Effective tensile height*	690mm	420mm	420mm	650mm
Effective compression height*	900mm	600mm	600mm	650mm
Power supply	AC380V, 3Ø, 50Hz, 2kW~5kW			
Dimension (LxWxH)	1100×800×2180mm	1100×920×2550mm	1100×920×2550mm	1140×1580×2980mm
Net weight	1000kg	1500kg	1500kg	5000kg

*Can be customized according to test requirements



large deformation extensometer
(optional)

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

OPTIONAL ACCESSORY

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)

OPTIONAL ACCESSORY

Acrylic single-sided front safety guard	for UTM-E10	UTM-E10-A
	for UTM-E20	UTM-E20-A
	for UTM-E30	UTM-E30-A
	for UTM-E50	UTM-E50-A
	for UTM-E100	UTM-E100-A
	for UTM-E200	UTM-E200-A
	for UTM-E300	UTM-E300-A
	for UTM-E600	UTM-E600-A
Wire mesh single-sided front safety guard	for UTM-E10	UTM-E10-W
	for UTM-E20	UTM-E20-W
	for UTM-E30	UTM-E30-W
	for UTM-E50	UTM-E50-W
	for UTM-E100	UTM-E100-W
	for UTM-E200	UTM-E200-W
	for UTM-E300	UTM-E300-W
	for UTM-E600	UTM-E600-W
Perforated steel plate single-sided front safety guard	for UTM-E10	UTM-E10-P
	for UTM-E20	UTM-E20-P
	for UTM-E30	UTM-E30-P
	for UTM-E50	UTM-E50-P
	for UTM-E100	UTM-E100-P
	for UTM-E200	UTM-E200-P
	for UTM-E300	UTM-E300-P
	for UTM-E600	UTM-E600-P

OPTIONAL ACCESSORY

Acrylic double-sided front and rear safety guard	for UTM-E10	UTM-E10-AD
	for UTM-E20	UTM-E20-AD
	for UTM-E30	UTM-E30-AD
	for UTM-E50	UTM-E50-AD
	for UTM-E100	UTM-E100-AD
	for UTM-E200	UTM-E200-AD
	for UTM-E300	UTM-E300-AD
	for UTM-E600	UTM-E600-AD
Wire mesh double-sided front and rear safety guard	for UTM-E10	UTM-E10-WD
	for UTM-E20	UTM-E20-WD
	for UTM-E30	UTM-E30-WD
	for UTM-E50	UTM-E50-WD
	for UTM-E100	UTM-E100-WD
	for UTM-E200	UTM-E200-WD
	for UTM-E300	UTM-E300-WD
	for UTM-E600	UTM-E600-WD
Perforated steel plate double-sided front and rear safety guard	for UTM-E10	UTM-E10-PD
	for UTM-E20	UTM-E20-PD
	for UTM-E30	UTM-E30-PD
	for UTM-E50	UTM-E50-PD
	for UTM-E100	UTM-E100-PD
	for UTM-E200	UTM-E200-PD
	for UTM-E300	UTM-E300-PD
	for UTM-E600	UTM-E600-PD