ROUNDNESS/CYLINDRICITY TESTER CODE RCT-300

INSIZE



Automatic centering and leveling

Evaluation items -Cylindricity module: cylindricity, radial full run, coaxiality, taper, radius -Roundness module: roundness, concentricity,

radial single jump, wall thickness difference -Straightness module: straightness, parallelism, squareness

-Single section flatness module: single section flatness, axial single hop, perpendicularity, parallelism -Multi-section flatness module: multi-section flatness, parallelism, axial full runout, perpendicularity -Commutator module: monolithic bounce, immediate bounce, interval difference Analytical ability

-Cylindricity function: 2-10 sections, 3 evaluation methods -Reference benchmarks for cylindricity evaluation: LSCY, MZCY, MICY, MCCY, OSCY

-Reference circle for roundness evaluation: LSC, MZC, MIC, MCC

-Measurement band: 1-15upr, 1-50upr, 1-150upr,

1-250upr, 1-500upr, 15-100upr, 15-500upr, 2-15upr, 1-1500upr, custom

-Notched measurement

SPECIFICATION

	measuring range	±500µm	
Probe	resolution	1:262144	
	linear accuracy	0.1%	
Duby	size	Ø2×10mm	
stylus	direction	two directions	
	adjustable angle	±45°	
	travel	165mm	
Yavie	excess range	25mm	
	drive mode	motor	
	moving speed	0.1~50mm/s	
	measuring range	480mm	
7 axis	straightness	0.3µm/100mm	
E uxis	movement speed	0.1~10mm/s	
	movement mode	motor	
Detector	acquisition device	circular grating	
circumferential sampling points		14400	
Granite stag	e	900×500mm	
	rotation accuracy	(0.025+6H/10000)µm, H is the measuring height in mm	
Rotary	rotation speed	6rpm, 8rpm, 10rpm	
stage	max. measuring diameter	300mm	
	max. workpiece diameter (rotation diameter)	450mm	
	workbench diameter	280mm	
adjustment	adjustment range of center	±3mm	
stage	adjustment range of level	±1°	
	weight capacity	30kg	
Precision	external grip diameter	Ø1~Ø81mm	
chuck	internal grip diameter	Ø31~Ø70mm	
	pressure range	0~0.8MPa	
Air filter	oil mist removal accuracy	0.01µm	
	export oil mist concentration	0.5mg/m ³	
Dimension (I	L×W×H)	1680×862×1685mm	
Power suppl	У	220±10%V, 50Hz	
Power		500W	
Weight		350kg	

To be continued



+INSIZE



air filter (included)



standard block (included)





precision chuck (included)

STANDARD DELIVERY

Main unit	1 pc
Probe (with ruby stylus)	1 pc each
Standard block	1 pc
Column adjusting rod	1 set
Precision chuck	1 pc
Automatic adjustment stage	1 pc
Roundness cylindricity acquisition and analysis system	1 set
Air filter	1 set
Computer	1 pc
Printer	1 pc
Installation tools	1 set



roundness analysis







cylindricity analysis



planeness analysis

OPTIONAL ACCESSORY

SPECIFICATION

Probes	see below details
Precision chucks	see below details
Dryer	ISC-DRY

	Code	Diameter (ØD)	Remark
	RCT-RA260-T1	2mm	included
Ε	RCT-RA260-T2	0.5mm	optional
	RCT-RA260-T3	1mm	optional
	RCT-RA260-T4	4mm	optional
<u> </u>	RCT-RA260-T5	8mm	optional

SPECIFICATION OF PRECISION CHUCKS





										(mm)
Cada	٨			~	Clampin	Demerk				
Code	A	P	C		-		G	external grip dia.	internal grip dia.	Remark
RCT-RA260-C1	M5×0.8	16	100	118	8	28	13	Ø0.8~63	Ø23~58	optional
RCT-RA260-C2	M6×1.0	20	116	143	10.5	37	15	Ø1~81	Ø31~70	included
RCT-RA260-C3	M6×1.0	26	140	168	10	39	19	Ø1~100	Ø36~90	optional

ROUNDNESS MEASURING MACHINE CODE RCT-RA260





-*INSIZE*-)

Air-floating spindle

- Can measure roundness, coaxiality, concentricity, flatness, radial runout, axial runout, parallelism and perpendicularity
- . Spectrum analysis, automatic gap/burr
- removal, waveform analysis 4 roundness evaluation methods: smallest area method, least square method, smallest circumscribed circle
- method, largest inscribed circle method Measuring filer: 1-15upr, 1-50upr, 1-150upr, 1-250upr, 1-500upr, 15-100upr,
- 15-500upr, 2-15upr
- Filter form: gauss (ISO standard) Software is included, for measurement, analysis, data output, etc.

SPECIFICATION

	measuring range	±300µm		
Probe	resolution	0.001µm		
	linear accuracy	0.25%		
	size	Ø2×10mm		
Ruby stylus	direction	two directions		
	adjustable angle	±45°		
	travel	165mm		
X axis	excess range	25mm		
	drive mode	by hand		
	drive mode	motor		
Z axis	travel	320mm		
	movement speed	0.5~10mm/s		
	rotation accuracy	(0.025+6H/10000)µm for H≤20mm, H is the measuring height in mm		
Rotary stage	rotation speed	6rpm		
	max. measuring diameter	260mm		
	max. workpiece diameter (rotation diameter)	400mm		
Rotary axis	radial rotation accuracy	±0.0125µm		
	axial runout accuracy	±0.05µm		
	diameter	180mm		
Adjustable	adjustment range of center	±3mm		
3D stage	adjustment range of level	±2°		
	weight capacity	20kg		
Granite stage		700×500mm		
Precision chuck	external grip diameter	Ø1~Ø81mm		
	internal grip diameter	Ø31~Ø70mm		
	pressure range	0~0.8MPa		
Air filter	oil mist removal accuracy	0.01µm		
	export oil mist concentration	0.5mg/m ³		
Dimension (L×W×H)		1300×795×1715mm		
Power supply		220±10%V, 50Hz		
Power		500W		
Weight		320kg		

20 To be continued



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measurement

spectrum analysis

STANDARD DELIVERY

Main unit	1 pc
Probe (with ruby stylus)	1 pc each
Standard block	1 pc
Precision chuck	1 pc
Adjustable 3D stage	1 pc
Rotary stage	1 pc
Computer	1 pc
Software	1 set
Printer	1 pc
Air filter	1 set
Installation tools	1 set



standard block (included)

OPTIONAL ACCESSORY

Probes	refer to details
Precision chucks	refer to details
Dryer	ISC-DRY

SPECIFICATION O	F PROBES									
			rin (Co	de		Diameter (ØD)	Remark	
					RC		0-T1	2mm	included	
		_			RC	T-RΔ26	0-T2	0.5mm	ontional	
					RC	T-RA26	0-T3	1mm	optional	
					RC	T-RA26	0-T4	4mm	optional	
			1 Q ø	D	RC	T-RA26	0-T5	8mm	optional	
SPECIFICATION O	FPRECISIC	ON CHU	ICKS							
				(
					\supset)					
			-		FIO					
					\mathbb{X}	— В				
						— C — D				
					A	D	Ē			
								F G		(mm)
		_			_	_	•	Clampir	ng range	
Code	A	В	C	ט	E	F	G	external grip dia.	internal grip d	ia. Remark
RCT-RA260-C1	M5×0.8	16	100	118	8	28	13	Ø0.8~63	Ø23~58	optional
RCT-RA260-C2	M6×1.0	20	116	143	10.5	37	15	Ø1~81	Ø31~70	included
RCT-RA260-C3	M6×1.0	26	140	168	10	39	19	Ø1~100	Ø36~90	optional



PRECISION AIR FLOATING ROTARY TABLES







6875-320

air filter (included)



Manual rotation
 Optional accessory: high precision digital indicators (code 2133 series), hydraulic universal magnetic stands (code 6274 series)

Code	Stage size ØD	Max. RPM	Air supply pressure	Max. Ioad	Radial stiffness	Axial stiffness	Radial runout	Axial runout	L×W×H
6875-320	320mm	500rpm	5-6bar	100kg	250N/µm	500N/µm	<0.3µm	<0.3µm	272×272×161mm
6875-400	400mm	500rpm	5-6bar	100kg	250N/µm	500N/µm	<0.3µm	<0.3µm	272×272×161mm
6875-500	500mm	500rpm	5-6bar	100kg	250N/µm	500N/µm	<0.3µm	<0.3µm	272×272×191mm

Standard glass hemisphere (optional)

Code	Roundness
6875-BALL*	0.05µm

*To check the accuracy of rotary table



6875-BALL





6875-CLAMP



SURFACE PROFILE MEASURING MACHINE CODE SPM-1000

<i>+INSIZE



To be continued

standard shaft (included)

Weight

583

320kg

STANDARD DELIVERY

Main unit	1 pc
Standard probe and arm	1 pc of each
Standard block	2 pcs
Standard ball	2 pcs
Standard shaft	1 pc
Stage	1 pc
Vise	1 pc
Measuring arm	1 pc
Computer	1 pc
Measurement software	1 pc
Printer	1 pc
Installation tools	1 set





1/64772

stage (included)

vise (included)

OPTIONAL ACCESSORY

Probe

refer to details



ROUGHNESS AND PROFILE MEASURING MACHINE (TWO PROBES TYPE) CODE SPM-2000

ATTENTION: PROFILE AND ROUGHNESS PROBES ARE USED SEPARATELY





Software is included, for measurement and data output Profile sensor with low noise

<i>AINSIZE

- Wide range roughness sensor without skid
 Meet ISO1997, ISO1984, BS1988, DIN1990, ASME1995, JIS1982, JIS1994 standards
- 65 roughness parameters

PROFILE MEASUREMENT SPECIFICATION

X axis measuring range	140mm
X axis resolution	0.2µm
X axis traverse speed	0.05~15mm/s
Z axis measuring range	50mm
Z axis resolution	0.05µm
Z axis traverse speed	0.2~15mm/s
Straightness	0.5µm/100mm
Linear accuracy	±(0.8+ 0.15H)µm, H is measuring height in mm
Angular measuring accuracy	±1′
Arc measuring accuracy	±(1.5+R/12)μm, R is 2~10mm standard ball
Measuring unit	μm/μin
Measuring speed	0.05~1mm/s
Traceable angle	72° (upward), 88° (downward)
Travel of Z axis	430mm
Power supply	220±5%V, 50Hz
Dimension (L×W×H)	1400×850×1780mm
Weight	350kg



stage (included)



vise (included)



ROUGHNESS MEASUREMENT SPECIFICATION

Roughness parameters	Ra, Rp, Rv, Rz, Rz (JIS), R3z, Rz (DIN), Rzj, Rmax, Rc, Rt, Rq, Rsk, Rku, Rsm, Rs , ΡΔq, Rk, Rpk, Rvk, Mr1, Mr2, Rmr
Waviness parameters	Wa, Wt, Wp, Wv, Wz, Wq, Wsm, Wsk, Wku, Wmr
Primary profile parameters	Pa, Pt, Pp, Pv, Pz, Pq, Psm, Psk, Pku, Pmr
Measuring range	±420µm
Resolution	0.001µm
Linear accuracy	≤±(5nm+2.8%)
Probe radius/angle	5µm/90°
Cut off	0.025/0.08/0.25/0.8/2.5/8mm
Number of cut-offs	2~7
Measuring unit	μm
Measuring speed	0.05~0.25mm/s



standard blocks (included)



standard balls (included)

To be continued

STANDARD DELIVERY

Main unit	1 pc
Calibration block	1 set
Roughness probe arm	1 pc
Roughness stylus	1 pc
Profile probe arm	1 pc
Profile chisel stylus	1 pc
Stage	1 set
Vise	1 set
Computer	1 pc
Software	1 set
Printer	1 pc
Installation tools	1 set

OPTIONAL ACCESSORY

Probe

refer to details
refer to details

SPECIFICATION OF ROUGHNESS PROBE

R2µm



UKYZ







PROFILE AND ROUGHNESS MEASUREMENT AT THE SAME TIME

~///SIZE

- Roughness, waviness, and profile analysis can be achieved with just one measurement
- Can measure all roughness and waviness parameters
- Can be used for automatic measurement system
- Air flotation and shockproof system to reduce measurement deviation
- Free to edit measurement reports

PROFILE MEASUREMENT SPECIFICATION

X axis measuring range	100mm
X axis resolution	0.2µm
X axis traverse speed	0.05~50mm/s
X axis linear accuracy	±(0.8+ 0.015L)µm, L is measuring length in mm
Z axis measuring range	±10mm
Z axis resolution	0.01µm
Z axis traverse speed	0.2~50mm/s
Z axis linear accuracy	±(0.5+ 0.08H)μm, H is measuring height in mm
Angular measuring accuracy	±1′
Arc measuring accuracy	±(1+R/12)μm, R is 2~10mm standard ball
Straightness	0.3µm/100mm
Measuring unit	mm/inch
Travel of Z axis	320mm
Power supply	220±5%V, 50Hz
Dimension (L×W×H)	1700×820×1900mm
Weight	500kg

ROUGHNESS MEASUREMENT SPECIFICATION







standard shaft (included)



stage (included)



vise (included)



standard blocks (included)

To be continued



2~7

um

0.1~2mm/s

Roughness

parameters

Waviness

parameters

Original profile

Number of cut-offs

Measuring unit

Measuring speed

Ra, Ramax, Ramin, Rasd, Rp, Rpmax, Rpmin, Rpsd, Rv, Rvmax, Rvmin, Rvsd, Rz, Rzmax, Rzmin, Rzsd, R3z, Rc, Rcmax, Rcmin, Rcsd, Rt, Rq, Rqmax, Rqmin, Rdsd, Rsk, Rskmax, Rskmin, Rsksd, Rku, Rkumax, Rkumin,

Rkusd, Rsm, Rsmmax, Rsmmin, Rsmsd, Rs, RΔa, RΔamax, RΔamin, RΔasd, RΔq, RΔqmax, RΔqmin, RΔqsd, Rk, Rpk, Rvk, Mr1, Mr2, Rλa,

Wq, Wqmax, Wqmin, Wqsd, Wsm, Wsmmax, Wsmmin, Wsmsd, Wsk,

WΔqmin, WΔqsd, Wδc, Wmr, Wpsd, Wpmin

Rλamax, Rλamin, Rλasd, Rλq, Rλqmax, Rλqmin, Rλqsd, Rδc, Rpc, Rmr

Wa, Wamax, Wamin, Wasd, Wsa, Wca, Wa08, Wc, Wcmax, Wcmin, Wcsd, Wt, Wz, Wzmax, Wzmin, Wzsd, Wp, Wpmax, Wv, Wvmax, Wvmin, Wvsd,

Wskmax, Wskmin, Wsksd, Wku, Wkumax, Wkumin, Wkusd, WAq, WAqmax,

Pa, Pt, Pp, Pc, Pv, Pz, Pq, Psm, Psk, Pku, RzJ, Rpq, Rvq, Rmq, Pmr, PΔq,

STANDARD DELIVERY

Main unit (including workbench, controller, driver, sensor)	1 рс
Calibration block	1 set
Probe arm	1 pc
Stylus	1 pc
Air flotation and shockproof system	1 set
Stage	1 set
Vise	1 set
Computer	1 pc
Software	1 set
Printer	1 pc
Installation tools	1 set

OPTIONAL ACCESSORY

Probe	refer to details



NSIZE

SPECIFICATION OF PROFILE PROBES



BIDIRECTIONAL ROUGHNESS AND PROFILE MEASURING MACHINE CODE SPM-6000

- Intelligent tracking control system, real-time scanning measurement
- Bidirectional probe measurement
- Constant measuring force

<i>AINSIZE

- Can be used to measure absolute diameters
- Real time variable speed measurement,
- high-speed measurement can also ensure accuracy
 The trajectory of the probe is vertical, with more
- realistic Z-axis coordinate point and large range
- The profile data point cloud spacing is consisten, enabling high accuracy measurement

	MEACHDEMENT	SDECIEIC ATION
FROFILE	WEASUREWENT	SFECIFICATION

X axis measuring range	325mm
X axis resolution	0.01µm
X axis traverse speed	5~10mm/s
X axis straightness	0.45µm/100mm
X axis linear accuracy	±(0.8+L/100)μm, L is measuring length in mm
X axis measuring speed	0.2~0.7mm/s
Z axis measuring range	325mm
Z axis resolution	0.01µm
Z axis traverse speed	5~10mm/s
Z axis straightness	0.45µm/100mm
Z axis linear accuracy	±(0.8+L/100)μm, H is measuring height in mm
Z axis measuring speed	0.2~0.7mm/s
Angular measuring accuracy	±2'
Arc measuring accuracy	±(0.8+R/15)µm
Measuring unit	mm/inch
Traceable angle	72° (upward), 89° (downward)
Power supply	220±5%V, 50Hz
Dimension (L×W×H)	1700×820×1900mm
Weight	500kg



ROUGHNESS MEASUREMENT SPECIFICATION

Roughness parameters	Ra, Ramax, Ramin, Rasd, Rp, Rpmax, Rpmin, Rpsd, Rv, Rvmax, Rvmin, Rvsd, Rz, Rzmax, Rzmin, Rzsd, R3z, Rc, Rcmax, Rcmin, Rcsd, Rt, Rq, Rqmax, Rqmin, Rdsd, Rsk, Rskmax, Rskmin, Rsksd, Rku, Rkumax, Rkumin, Rkusd, Rsm, Rsmmax,Rsmmin, Rsmsd, Rs, RΔa, RΔamax, RΔamin, RΔasd, RΔq, RΔqmax, RΔqmin, RΔqsd, Rk, Rpk, Rvk, Mr1, Mr2, Rλa,Rλamax, Rλamin, Rλasd, Rλq, Rλqmax, Rλqmin, Rλqsd, Rδc, Rpc, Rmr
Waviness parameters	Wa, Wamax, Wamin, Wasd, Wsa, Wca, Wa08, Wc, Wcmax, Wcmin, Wcsd, Wt, Wz, Wzmax, Wzmin, Wzsd, Wp, Wpmax, Wv, Wvmax, Wvmin, Wvsd, Wq, Wqmax, Wqmin, Wqsd, Wsm, Wsmmax, Wsmmin, Wsmsd, Wsk, Wskmax, Wskmin, Wsksd, Wku, Wkumax, Wkumin, Wkusd, WΔq, WΔqmax, WΔqmin, WΔqsd, Wδc, Wmr, Wpsd, Wpmin
Original profile parameters	Pa, Pt, Pp, Pc, Pv, Pz, Pq, Psm, Psk, Pku, RzJ, Rpq, Rvq, Rmq, Pmr, P∆q, Avh, Hmax, Hmin, Area, Põc, Tilta
Motif parameters	Ncrx, R, Rx, AR, Nr, Cpm, Sr, Sar, W, Wx, Aw, Wte, Nw, Sw, Saw
Resolution	0.01µm
Linear accuracy	≤±(20nm+5%)
Probe radius/angle	5µm/90°
Cut off	0.025/0.08/0.25/0.8/2.5/8mm
Number of cut-offs	2~7
Measuring unit	μm
Measuring speed	0.1~2mm/s

To be continued



STANDARD DELIVERY

Main unit (including workbench, controller, driver, sensor)	1 set
Calibration block	1 set
Profile arm	1 pc
Bidirectional profile stylus	1 pc
Roughness arm	1 pc
Unidirectional roughness stylus	1 pc
Stage	1 pc
Vise	1 pc
Computer	1 pc
Software	1 set
Printer	1 pc
Installation tools	1 set



calibration blocks (included)



vise (included)



INSIZE+

stage (included)



standard shaft (included)

APPLICATION EXAMPLES





To be continued

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SPECIFICATION OF PROBES

Unit: mm



ROUGHNESS MEASURING MACHINE CODE SPM-4000







calibration





data output

SPECIFICATION

Roughness parameters	Ra, Rp, Rv, Rz, Rz (JIS), R3z, Rz (DIN), Rzj, Rmax, Rc, Rt, Rq, Rsk, Rku, Rsm, Rs, R∆q, Rk, Rpk, Rvk, Mr1, Mr2, Rmr
Waviness parameters	Wa, Wt, Wp, Wv, Wz, Wq, Wsm, Wsk, Wku, Wmr
Primary profile parameters	Pa, Pt, Pp, Pv, Pz, Pq, Psm, Psk, Pku, Pmr
X axis measuring range	100mm
X axis resolution	0.2µm
X axis straightness	0.5µm/100mm
X axis moving speed	0.1~10mm/s
Z axis measuring range	±420µm
Z axis resolution	0.001µm
Z axis linear accuracy	≤±(7nm+3.5%)
Z axis moving speed	0.5~10mm/s
Z axis repeatability	1δ≤2nm
Radius/angle of stylus	5µm/90°
Cut off length	0.025/0.08/0.25/0.8/2.5/8mm
Number of cut-offs	2~7
Measuring unit	μm
Drive mode	motor
Travel of Z axis	320mm
Dimension (L×W×H)	1200×700×1780mm
Power supply	220±5%V, 50Hz
Weight	320kg



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vise (included)



stage (included)

OPTIONAL ACCESSORY

Small roughness probe

SPECIFICATION OF ROUGHNESS PROBE



refer to details



Unit: mm

ELECTRONIC UNIVERSAL TESTING MACHINES





<i>AINSIZE



flat 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	class 0.5						
Accuracy of test force	±0.5% of indicated val	lue					
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						
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: 0~7mmflat jaw: 0~7mmflat jaw: 0~7mmflat jaw: 0~14mV-jaw: Ø4~Ø9mmV-jaw: Ø4~Ø9mmV-jaw: Ø4~Ø14						
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





UTM-E50

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 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			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	Ø150mm	Ø200mm			
Wedge tension fixture	flat jaw: 0~20mm V-jaw: Ø8~Ø26mm	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

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)	
Security door	customized, available in plexiglass or wire mesh	



+///SIZE+

large deformation extensometer (optional)

HIGH AND LOW TEMPERATURE TEST CHAMBERS FOR ELECTRONIC UNIVERSAL TESTING MACHINES





31

UTT-M63-E50

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

SPECIFICATION

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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				
Temperature ac	curacy *	±1°C						
Temperature flu	actuation *	±0.5°C						
Temperature ur	niformity *	≤2°C						
Temperature re	solution	0.1°C	0.1°C					
Cooling system		20	cormpressor or liquid nitrogen					
Cooling time (room temperature@25°C)		10	1~2°C/min (no-load)					
Warming up tin	าย	1~3°C/min (no-load)						
Temperature co	ontrol	PID automatic temperature control						
Heating system	1	magnesium powder heating tube						
Aperture size		Ø50mm	50mm					
Chamber dimer	nsion**	240×430×530mm (suitable for electronic universal testing machines with column spacing of 400mm and above)						
Power supply		AC 220V, 60Hz						
Total power		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

ELECTRONIC UNIVERSAL TESTING MACHINES (ADVANCED TYPE)

wired hand control box (included) +INSIZE+)





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



<i>AINSIZE



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



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



high temperature furnace (**optional**)



high precision axial extensioneter (**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

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 ind	licated value				
Range of test	t force	0.2%~100%	FS				
Test force res	solution	0.002N	0.02N	0.02N	0.2N	0.2N	0.5N
Crossbeam d	lisplacement accuracy	±0.1% of ind	licated value	•			
Crossbeam d	lisplacement resolution	0.1µm					
Velocity accu	ігасу	±0.1% of indicated value					
Range of spe	ed adjustment	adjustment 0.001~1000mm/min			0.001~800mm	ı/min	0.001~500mm/min
Effective test	width	420mm		600mm			
Maudia al 4a a4	standard model	1200mm		1255mm		1450mm	
heightened 250mm (optional)		1450mm		1505mm		1700mm	
opuoc	heightened 500mm (optional)	1700mm		-			
D : .	standard model	748×582×1600mm		1100×724×2160mm		1180×756×2440mm	
	heightened 250mm (optional)	748×582×18	350mm		1100×724×2410mm		1180×756×2690mm
	heightened 500mm (optional)	748×582×21	00mm		—		
	standard model	160kg		610kg		965kg	
Weight	heightened 250mm (optional)	185kg		660kg		1015kg	
	heightened 500mm (optional)	210kg			-		
Power supply		AC220V, 50Hz, 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					

OPTIONAL ACCESSORY

STANDARD DELIVERY

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

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

*Selection of specifications according to test requirements



ELECTRONIC UNIVERSAL TESTING MACHINES

1/647

computer and software (included)

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									00

- 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

Max. test force 50N 500N 1000N 2000N 5000N Accuracy class class 0.5	Code	UTM-Z50	UTM-Z500	UTM-Z1000	UTM-Z2000	UTM-Z5000		
Accuracy classclass 0.5Range of test force0.4%~100%FSAccuracy of test force±0.5% of indicating valueResolution of test force1/30000FSAccuracy of displacement±0.5% of indicating valueResolution of displacement0.2µmRange of crossbeam speed0.001~1000mm/minAccuracy of force control speed0.05%~10%FS/sAccuracy of force control speed±0.5% of indicating valueEffective tensile travel*550mmEffective compression travel*500×380×1150mmPower supplyAC 220V, 50HzWeight100kg	Max. test force*	50N	500N	1000N	2000N	5000N		
Range of test force0.4%~100%FSAccuracy of test force±0.5% of indicating valueResolution of test force1/30000FSAccuracy of displacement±0.5% of indicating valueResolution of displacement0.2µmRange of crossbeam speed0.001~1000mm/minAccuracy of crossbeam speed±0.5% of indicating valueRange of force control speed0.05%~10%FS/sAccuracy of force control speed±0.5% of indicating valueEffective tensile travel550mmEffective compression travel500×380×1150mmDimension (W×D×H)500×380×1150mmPower supplyAc 220V, 50HzWeight100kg	Accuracy class	class 0.5						
Accuracy of test force±0.5% of indicating valueResolution of test force1/30000FSAccuracy of displacement±0.5% of indicating valueResolution of displacement0.2µmRange of crossbeam speed0.001~1000mm/minAccuracy of crossbeam speed±0.5% of indicating valueRange of force control speed0.05%~10%FS/sAccuracy of force control speed±0.5% of indicating valueEffective tensile travel550mmEffective compression travel500×380×1150mmDimension (W×D×H)500×380×1150mmPower supplyAc 220V, 50HzWeight100kg	Range of test force	0.4%~100%FS						
Resolution of test force1/30000FSAccuracy of displacement±0.5% of indicating valueResolution of displacement0.2µmRange of crossbeam speed0.001~1000mm/minAccuracy of crossbeam speed±0.5% of indicating valueRange of force control speed0.05%~10%FS/sAccuracy of force control speed±0.5% of indicating valueEffective tensile travel*550mmEffective compression travel*700mmDimension (W×D×H)500×380×1150mmPower supplyAC 220V, 50HzWeight100kg	Accuracy of test force	±0.5% of indicati	ng value					
Accuracy of displacement±0.5% of indicating valueResolution of displacement0.2µmRange of crossbeam speed0.001~1000mm/minAccuracy of crossbeam speed±0.5% of indicating valueRange of force control speed0.05%~10%FS/sAccuracy of force control speed±0.5% of indicating valueEffective tensile travel*550mmDimension (W×D×H)500×380×1150mmPower supplyAC 220V, 50HzWeight100kg	Resolution of test force	1/300000FS						
Resolution of displacement0.2µmRange of crossbeam speed0.001~1000mm/minAccuracy of crossbeam speed±0.5% of indicating valueRange of force control speed0.05%~10%FS/sAccuracy of force control speed±0.5% of indicating valueEffective tensile travel*550mmEffective compression travel*700mmDimension (W×D×H)500×380×1150mmPower supplyAC 220V, 50HzWeight100kg	Accuracy of displacement	±0.5% of indicating value						
Range of crossbeam speed0.001~1000mm/minAccuracy of crossbeam speed±0.5% of indicating valueRange of force control speed0.05%~10%FS/sAccuracy of force control speed±0.5% of indicating valueEffective tensile travel*550mmEffective compression travel*700mmDimension (W×D×H)500×380×1150mmPower supplyAC 220V, 50HzWeight100kg	Resolution of displacement	0.2µm						
Accuracy of crossbeam speed±0.5% of indicating valueRange of force control speed0.05%~10%FS/sAccuracy of force control speed±0.5% of indicating valueEffective tensile travel*550mmDimension (W×D×H)500×380×1150mmPower supplyAC 220V, 50HzWeight100kg	Range of crossbeam speed	0.001~1000mm/min						
Range of force control speed0.05%~10%FS/sAccuracy of force control speed±0.5% of indicating valueEffective tensile travel*550mmEffective compression travel*700mmDimension (W×D×H)500×380×1150mmPower supplyAC 220V, 50HzWeight100kg	Accuracy of crossbeam speed	±0.5% of indicating value						
Accuracy of force control speed ±0.5% of indicating value Effective tensile travel * 550mm Effective compression travel * 700mm Dimension (W×D×H) 500×380×1150mm Power supply AC 220V, 50Hz Weight 100kg	Range of force control speed	0.05%~10%FS/s						
Effective tensile travel* 550mm Effective compression travel* 700mm Dimension (W×D×H) 500×380×1150mm Power supply AC 220V, 50Hz Weight 100kg	Accuracy of force control speed	±0.5% of indicating value						
Effective compression travel 700mm Dimension (W×D×H) 500×380×1150mm Power supply AC 220V, 50Hz Weight 100kg	Effective tensile travel *	550mm						
Dimension (W×D×H) 500×380×1150mm Power supply AC 220V, 50Hz Weight 100kg	Effective compression travel *	700mm						
Power supply AC 220V, 50Hz Weight 100kg	Dimension (W×D×H)	500×380×1150mm						
Weight 100kg	Power supply	AC 220V, 50Hz						
	Weight	100kg						

STANDARD DELIVERY

SPECIFICATION

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

OPTIONAL ACCESSORY

Fixture*	
Extensometer *	ouotomized
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

AINSIZE

Code	UTM-S200A	UTM-S500A	UTM-S1KA	UTM-S2KA	UTM-S5KA
Max. test force	200N	500N	1kN	2kN	5kN
Accuracy class	class 0.5				
Accuracy of test force	±0.5% of indicate	ed value			
Range of test force	0.2%~100%FS				
Resolution of test force	1/500000FS				
Crossbeam displacement accuracy	±0.5% of indicate	ed value			
Crossbeam displacement resolution	0.025µm				
Range of speed adjustment	0.001~500mm/m	iin			
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 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				
Effective compression height *	800mm				
Dimension (W×D×H)	510×510×1580mm				
Weight	150kg				
Power supply	AC220V, 50Hz, 0.4kW				

*Can be customized according to test requirements

STANDARD DELIVERY

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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

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, page 948)
Security door	customized





HYDRAULIC UNIVERSAL TESTING MACHINES

7/////////





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 measureme	ent range	2%~100%FS				
Resolution of test for	ce measurement	1/300000 of Max. test force (same resolution all the way)				
Deformation measure	ment device	extensoment	extensoment			
Deformation measure	ment range	1%~100%FS				
Deformation measure	ment accuracy	±1%				
Deformation measure	ment resolution	1/300000				
Displacement accurate	су	±1%				
Displacement resolut	ion	0.01mm				
Displacement travel		200mm				
Max tensile space (in	cluding piston stroke)	600mm 600mm 680mm 900mm				900mm
Max compression spa (including piston stro	500mm	500mm	560mm	500mm	800mm	
Transmission mode		chain drive	•			
Safety protection dev	ice	software protecti	on and mechanica	I limit protection		
Control function		special software,	closed-loop of stre	ess, strain and velo	ocity	
Clamping range of ro	und sample	Ø10~32mm	Ø13~40mm	Ø13~60mm	Ø20~70mm	Ø25~80mm
Clamping range of fla	t sample	0~15mm	0~15mm*	0~20mm**	0~40mm	0~80mm
Upper and lower pres	sure plate size	Ø188mm	Ø188mm	Ø208mm	Ø208mm	Ø208mm
Bending branch roll w	vidth	140mm				
Total power	2.5kW 3.0kW 3.0kW 3.75kW 5.5kV			5.5kW		
Power supply		380V, 50Hz				
Dimension (mm)	host	800×620×1900	820×650×2000	940×780×2250	1100×760×3000	1250×930×3550
	oil source	1140×600×855				
Weight		2T	2.2T	3T	7.5T	12.6T
	at at					

*Customizable 0~30mm

To be continued

^{**}Customizable 0~40mm



AINSIZE

computer and software (included)



STANDARD DELIVERY

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	-
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



acrylic safety shield (optional)

400	

steel wire safety shield (optional)

OPTIONAL ACCESSORY

Acrylic safety shield
Steel wire safety shield

UTM-H-COVER1
UTM-H-COVER2

EXTENSOMETERS

For universal testing machines

SPECIFICATION				
Code	Gauge length	Deformation		
UTM-EX25-5	25mm	5mm		(
UTM-EX25-10	25mm	10mm	fixing pin —	fixing hole
UTM-EX25-25	25mm	25mm		
UTM-EX50-5	50mm	5mm		The last
UTM-EX50-10	50mm	10mm		100 06
UTM-EX50-25	50mm	25mm		100
UTM-EX100-5	100mm	5mm		60
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	on, customized e workpieces		



IMPACT TESTING MACHINES

EINSIZE





ITM-S300J

- According to GB/T 3808, GB/T 229, JJG 145, ASTM E23 (with American standard blade), ISO 148.1, ISO 148.2, ISO 148.3, ISO R83
 For testing the anti-impact performance of metal materials under dynamic load
 Capable of performing metal impact tests in large quantities on a continuous basis



low-temperature chamber (optional)

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software (included)

SPECIFICATION

Code	ITM-S150J	ITM-S300J	ITM-S450J	ITM-S600J	ITM-S750J
Impact energy	150J	300J	450J	600J	750J
Dial range	0~150J	0~300J	0~450J	0~600J	0~750J
Dial graduation	1J	2J	3J	4J	5J
Pendulum moment	M=80.3848N·m	M=160.7695N⋅m	M=241.1543N⋅m	M=321.5390N·m	M=401.9238N·m
Pendulum preparing angle	150°				
Distance between pendulum shaft center and specimen center	750mm				
Impact speed	5.24m/s				
Span of specimen seat	40mm				
End face radius of specimen seat	R (1.0~1.5)mm				
Radius of impact blade	R (2.0~2.5)mm				
Inclination angle of support surface of specimen seat	11°±1°				
Angle of impact blade	30°±1°				
Thickness of impact blade	16mm				
Range of measuring angle	0~360°				
Angle resolution	≤0.06°				
Specimen size	10×10×55mm				
Base size	800×500mm 960×650mm				
Dimension of main body	2050×690×2015mm 2100×835×2200mm				
Weight	450kg		900kg		
Power supply	AC 380V, 3Ø, 50Hz	<u></u>			
Power	400W 1.5kW				

To be continued

<i>AINSIZE

SPECIFICATION OF LOW-TEMPERATURE CHAMBER (OPTIONAL)

Code	ITM-S-40	ITM-S-60	, ITM-S-80	ITM-S-80S	ITM-S-100	ITM-S-196*
Range of temperature	room temperature ~-40°C	room temperature ~-60°C	room temperature ~-80°C	room temperature ~-80°C	room temperature ~-100°C	-20°C~-196°C
Accuracy of temperature control	±0.5°C	±0.5°C				
Evenness	≤1.0°C	≤1.0°C ≤				
Resolution	0.1°C					0.1°C
Method of refrigeration	compressor refrige	ration				liquid nitrogen refrigeration
Cooling medium	ethanol or other un	frozen liquid				liquid nitrogen
Number of specimen	≥60 pcs					
Cooling speed	+25°C~0°C about 1.5°C/min, 0°C~-20°C about 1.2°C/min, -20°C~-40°C about 1.0°C/min	+25°C~0°C about 1.8°C/min, 0°C~-20°C about 1.5°C/min, -20°C~-40°C about 1.3°C/min, -40°C~-60°C about 1.0°C/min	+25°C~0°C about 1.5°C/min, 0°C~-20°C about 1.5°C/min, -20°C~-60°C about 1.3°C/min, -60°C~-80°C about 1.0°C/min, -60°C~-80°C about 0.8°C/min -80°C~-100°C about 0.8°C/m		+25°C~0°C about 2.0°C/min, 0°C~-40°C about 1.5°C/min, -40°C~-80°C about 1.3°C/min, -80°C~-100°C about 0.8°C/min	1°C~-3°C
Heating speed	3°C/min					
Timekeeping device	1min~9999min, res	olution: 1min				
Volume of refrigeration room (W×D×H)	275×160×120mm	275×160×120mm				
Effective volume of refrigeration room (W×D×H)	150×140×110mm					
External dimension (W×D×H)	910×510×920mm 755×555 1105×705 ×950mm ×1110mm			1105×705 ×1110mm	710×600 ×740mm	
Material of the case	Iron shell spraying moulding stainless steels rounding moulding			stainless steels		
Power supply	AC220V, 3Ø, 50Hz, 1.8kW	AC220V,3Ø, 50Hz, 2.3kW	AC220V, 3Ø, 50Hz, 2.5kW	AC220V, 3Ø, 50Hz, 2.5kW	AC 220V, 3Ø, 50Hz, 3.0kW	AC 220V, 3Ø, 50Hz, 100W

*For test >-20°C, ITM-T80 is recommended

STANDARD DELIVERY

Main unit		1 pc	
Control cabinet		1 pc	
Simply supported beam fixture (including jaws, anvil)		1 set	
	ITM-S150J	150J pendulum	
	ITM-S300J	300J pendulum and 150J pendulum	
Pendulum	ITM-S450J	450J pendulum and 150J pendulum	
	ITM-S600J	600J pendulum and 150J pendulum	
	ITM-S750J	750J pendulum and 150J pendulum	
Span aligner		1 pc	
Tongs		1 pc	
Safety cover		1 set	
Software		1 set	
Computer		1 pc	
Printer		1 pc	

OPTIONAL ACCESSORY

Workbench	7911-15
150J pendulum	ITM-S-PE150J
300J pendulum	ITM-S-PE300J
450J pendulum	ITM-S-PE450J
600J pendulum	ITM-S-PE600J
750J pendulum	ITM-S-PE750J
ASTM standard impact blade	ITM-S-ASTM-IB
Sample recovery device	ITM-S-RD
Digital display screen	ITM-S-DDS
Impact specimen notch projector (GB/T 229, ASTM E23)	ITM-S-1
	ITM-S-40
	ITM-S-60
Low-temperature chamber	ITM-S-80
	ITM-S-80S
	ITM-S-100
	ITM-S-196
Impact specimen notch broaching machine (double broaches)	ITM-U32
Impact standard sample	ITM-BR series

SALT SPRAY TEST CHAMBERS

<i>AINSIZE

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COMPLY WITH ISO STANDARD SALT SPRAY TEST REQUIREMENT





- Adopting plastic precision nozzle and cone spraying device, even mist falling, fast, long nozzle life, no crystallisation
 Spraying time can be controlled internally without the need for an external time relay
- Adjustment of brine flow and compressed air pressure by means of a flow meter and a high-pressure value to ensure uniform salt spray deposition
 Adopt manual water filing system, water level is insufficient to automatically replenish the function,
- to ensure that the test is not interrupted
- USB port for download curves and historical data

SPECIFICATION

Advanced	Code	SFT-T350	SFT-U680	SFT-E305	SFT-S410		
type	test condition	suitable for NSS (Neutral), AASS (Acid), CASS (Copper Accelerated) test					
Pagia tuna	Code	SFT-S210R	SFT-G550	SFT-L965	SFT-V125		
Dasic type	test condition	NSS (Neutral), AASS (Acid) test only					
Chamber dimens	ion (W×H×D)	900×600×500mm	1200×850×500mm	1600×850×550mm	2000×950×600mm		
Chamber volume	•	270L	480L	740L	1440L		
Saline tank volur	ne	25L	90L	90L	120L		
Chamber temperature		(NSS, AASS) test temperature: 35°C±1°C/(CASS) test temperature: 50°C±1°C					
Saturated barrel temperature		(NSS, AASS) test temperature: 47°C±1°C/(CASS) test temperature: 63°C±1°C					
Saline temperature		(NSS, AASS) test temperature: 35°C±1°C/(CASS) test temperature: 50°C±1°C					
Heat type		advanced type: thermal radiation heat/basic type: steam heat					
Test fluid		NSS: pure water+NaCl (pH 6.5~7.2), AASS: pure water+NaCl+CH ₃ COOH (pH 3.0~3.3) CASS: pure water+NaCl+CuCl ₂ (pH 3.0~3.3)					
Compressed air pressure		0.2MPa	0.6MPa	0.6MPa	0.6MPa		
Power		2kW	3kW	4kW	4.5kW		
Power supply		AC 220V, 1Ø, 50Hz					
External dimension (W×H×D)		1460×910×500mm	1900×1150×1500mm	2300×1150×1550mm	2700×1350×1600mm		
Weight (basic typ	pe)	108kg	485kg	585kg	760kg		
Weight (advanced type)		105kg	385kg	480kg	580kg		

STANDARD DELIVERY

Main unit	1 pc
Sample holder	1 group
Sodium chloride NaCl	2 bottles
10L salt water preparation cup	1 pc
80cm ² collection cup	2 pcs
50cm glass measure cylinder	2 pcs

OPTIONAL ACCESSORY

Nozzle	SFT-S210R-NOZZLE
Brine filter	SFT-S210R-FILTER



DESKTOP TEMPERATURE AND HUMIDITY CHAMBER CODE THT-Z158

</NSIZE>

-INSIZE-)





- Table design, quiet and small
 Equipped with operation system with 7 inch touch screen controller
 Intelligent refrigeration and dehumidification system, it can save
- 30~45% of electricity compared with traditional machines
 Output excel data report through USB port

SPECIFICATION

of Lon IoAnon			
Chamber dime	ension (W×H×D)	300×350×300mm	
Chamber volume		30L	
Temperature range		-40~120°C	
Humidity rang	e	20%RH~98%RH	
Temperature d	leviation	±2.0°C	
Temperature f	luctuation	±0.5°C	
Temperature u	iniformity	≤2.0°C	
Humidity devi	ation	±3.0%RH (at 75%RH~98%RH), ±5.0%RH (at 20%RH~75%RH)	
Humidity fluct	uation	±3.0%RH	
Humidity uniformity		≤5.0%RH (at 75%RH~98%RH), ≤7.0%RH (at 20%RH~75%RH)	
Heating rate		1°C/min~3°C/min	
Cooling rate		0.7°C/min~1°C/min	
Operation temperature		5~35°C	
environment	humidity	≤85%RH	
	case material	cold rolled steel plate+varnish	
Material	chamber material	SUS#304 stainless steel	
	thermal insulation material	polyurethane foam	
Cooling system a		air-cold compressor	
Protector		compressor overload protection switch, refrigerant high pressure protection switch, ceramic fuse, water plate of water shortage protection switch, electromagnetic switch, air burn protection switch, alarm	
Power supply		AC220, 50/60Hz, 2kW	
External dime	nsion (W×H×D)	550×850×1050mm	
Weight		125kg	

STANDARD DELIVERY

Main unit	1 pc
Test hole	1 pc
Shelf	2 pcs

TEMPERATURE AND HUMIDITY CHAMBERS

HINSIZE





THT-A101T

- The chamber is equipped with an independent operation system with 7-inch or 10.1-inch touch screen contuoller
 Intelligent refrigeration and dehumidification system, combined with energy-saving control algorithm, can adjust
- Intelligent refrigeration and denumidification system, combined with energy-saving control algorithm, can adjust the refrigeration level and save energy. Compared with traditional machines, it can save 30~45% of electricity
- It can output excel data report through USB port

SPECIFICATION

Code		THT-A101T	THT-A102T	THT-A103T	THT-A104T	THT-A105T	
Chamber dimension (W×H×D)		500×600×500mm	500×500×400mm	500×750×600mm	700×850×700mm	1000×1000×1000mm	
Chamber	volume	150L	100L	225L	416L	1000L	
Temperat	ure range	-40~150°C	-40~150°C				
Humidity	range	10~98%RH					
Temperat	ure/humidity fluctuation	±0.5°C, ±2.5%RH					
Temperat	ure/humidity uniformity	<2°C, 5%RH					
Temperat	ure/humidity stability	0.2°C, 2%RH					
Temperature/humidity deviation		±2°C, 3%RH					
Warm up time		about 3°C/min					
Cooling time		about 1°C/min					
	case material	cold rolled steel plate+varnish					
Material chamber material		SUS#304 stainless steel					
thermal insulation material		rigid polyurethane foam					
Cooling system		compressor					
Protector		no fuse switch, compressor overpressure, overheat protection, overtemperature protection, overload protection, dry burning protection, water shortage protection, etc.					
Power supply		AC220V, 50Hz, 4.5kW	AC220V, 50Hz, 2kW	AC380V, 3Ø, 50Hz, 4kW	AC380V, 3Ø, 50Hz, 3.5kW	AC380V, 3Ø, 50Hz, 3.5kW	
Dimension (W×H×D)		800×1660 ×1400mm	750×1550 ×1170mm	850×1750 ×1200mm	950×1850 ×1400mm	1300×1950 ×1850mm	
Weight		365kg	285kg	385kg	510kg	950kg	

STANDARD DELIVERY

Main unit	1 pc
Test hole	1 pc
Shelf	2 pcs



PROGRAMMABLE TEMPERATURE AND HUMIDITY CHAMBER (ADVANCED TYPE) CODE HTT-A150



temperature and humidity control range diagram %RH 100 98%RH 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100°C



- The chamber is equipped with a standalone operation system and uses a 7-inch human-machine interface touch screen programmable controller
- Adopt advanced balanced temperature and humidity control system, dynamic PID and steam partial pressure control, HFC environmental refrigerant
- Remote control and data acquisition can be performed through the RS232 interface, and CSV data files can be directly exported to a USB flash drive

SPECIFICATION

Chamber dir	nension (W×H×D)	500×600×500mm
Chamber vo	lume	150L
Temperature range		-40~150°C
Humidity rar	nge	20~98%RH
Temperature	humidity deviation	±2.0°C, ±2.5%RH
Temperature	humidity fluctuation	±0.5°C, ±2.0%RH
Temperature	humidity uniformity	±2.0°C, ±3.0%RH
Warm up tin	ne	2.0~3.0°C/min (empty)
Cooling time		1.0~1.5°C/min (empty)
Cooling system		compressor
case material		double-sided galvanized steel plate+spray treatment
Material	chamber material	SUS#304 stainless steel
thermal insulation		rigid polyurethane foam
Protector		total power supply phase sequence and out-of-phase protection, leakage protection, load short-circuit protection, adjustable over-temperature protection, humidification system water-deficit protection, compressor over-pressure protection, etc.
Power supply		AC380V, 50Hz, 5kW
Dimension (W×H×D)	765×1670×1575mm
Weight		370kg

STANDARD DELIVERY

Main unit	1 pc
Test hole	1 pc
Shelf	2 pcs

11/69/79