

ROUNDNESS/CYLINDRICITY TESTER CODE RCT-300

- 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
 - -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%		
Duleu	size	Ø2×10mm		
Ruby stylus	direction	two directions		
Stylus	adjustable angle	±45°		
	travel	165mm		
X axis	excess range	25mm		
A axis	drive mode	motor		
	moving speed	0.1~50mm/s		
	measuring range	480mm		
Z axis	straightness	0.3μm/100mm		
Z dxi5	movement speed	0.1~10mm/s		
	movement mode	motor		
Detector	acquisition device	circular grating		
Detector	circumferential sampling points	14400		
Granite stag	е	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		
A	workbench diameter	280mm		
Automatic 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/m³		
Dimension (I		1680×862×1685mm		
Power suppl	у	220±10%V, 50Hz		
Power		500W		
Weight		350kg		





air filter (included)



standard block (included)



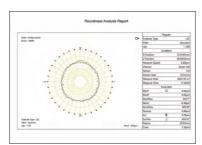
column adjusting rod (included)



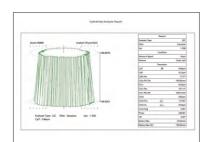
precision chuck (included)

STANDARD DELIVERY

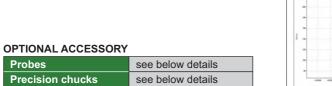
Main unit	1 pc
Probe (with ruby stylus)	1 pc each
Standard block	1 pc
Column adjusting rod	1 set
Precision chuck	1 pc
Automatic adjustment stage	1 pc
Roundness cylindricity acquisition and analysis system	1 set
Air filter	1 set
Computer	1 pc
Printer	1 pc
Installation tools	1 set



roundness analysis



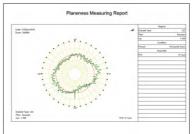
cylindricity analysis



ISC-DRY



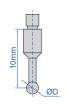
straightness analysis



planeness analysis

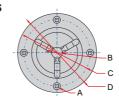
SPECIFICATION OF PROBES

Dryer



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

SPECIFICATION OF PRECISION CHUCKS



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		U	

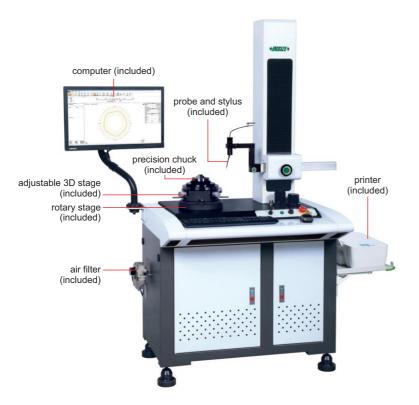
(mm)

Code		В		: D	_	E F	G	Clamping range		Remark
Code	A	Ь	C	ט	_			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





- 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, 15-100upr, 15-100upr, 15-500upr, 2-15upr
- Filter form: gauss (ISO standard)
 Software is included, for measurement, analysis, data output, etc.

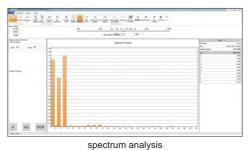
SPECIFICATION

	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	
Rotary axis	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	
r recision 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/m³	
Dimension (L×W×H	l)	1300×795×1715mm	
Power supply		220±10%V, 50Hz	
Power		500W	
Weight		320kg	





measurement



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

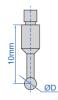


standard block (included)

OPTIONAL ACCESSORY

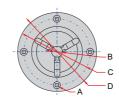
Probes	refer to details
Precision chucks	refer to details
Dryer	ISC-DRY

SPECIFICATION OF PROBES



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

SPECIFICATION OF PRECISION CHUCKS





(mm)

Code		В	, ,	C D	_	F	G	Clamping range		Remark
Code	A	Ь	· ·	, D				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

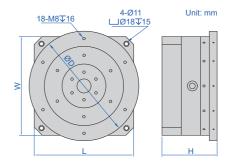




PRECISION AIR FLOATING ROTARY TABLES



6875-320



- 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. load	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





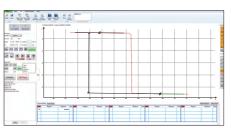
6875-CLAMP





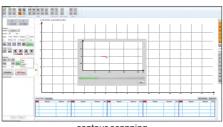
SURFACE PROFILE MEASURING MACHINE **CODE SPM-1000**

- Software is included, for surface profile measurement and data output
- Probe compensation
- Output as format txt, csv, etc.
- Large range design, the leverage ratio is 1:2.2, maintain the original accuracy of the sensor
 The overall structure of the Z-axis sensor does not
- have any elastic components, ensuring the measuring force is constant regardless the position of probe

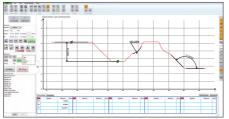


calibration

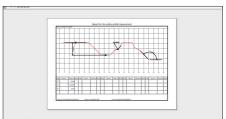




contour scanning



dimension measurement

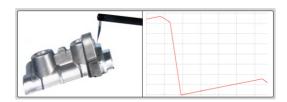


data output

SPECIFICATION

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X axis measuring range	140mm	
X axis resolution	0.2μm	
X axis straightness	0.8μm/100mm	
X axis moving speed	0.1~10mm/s	
Z axis measuring range	±20mm	
Z axis resolution	0.05µm	
Z axis moving speed	0.5~10mm/s	
Linear accuracy	±(1.5+ 0.2H)µm, H is measuring height in mm	
Angular measuring accuracy	±2'	
Arc measuring accuracy	±(2+R/8)µm, R is 2~10mm standard ball	
Radius of probe tip	25μm	
Moving direction	backward	
Measuring force	6.86~9.8mN	
Measuring unit	mm/inch	
Traceable angle	72° (upward), 87° (downward)	
Drive mode	motor	
Travel of Z axis	430mm	
Dimension (L×W×H)	1200×700×1780mm	
Power supply	220±5%V, 50Hz	
Weight	320kg	





standard balls (included)



standard blocks (included)



standard shaft (included)



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





stage (included)

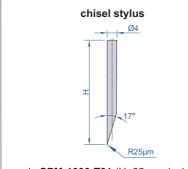
vise (included)

OPTIONAL ACCESSORY

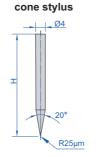
Probe	refer to details
1.000	10101 to dotallo

SPECIFICATION OF PROFILE PROBES

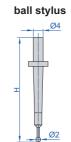




code SPM-1000-T01 (H=32mm, included) code SPM-1000-T02 (H=48mm, optional) code SPM-1000-T03 (H=68mm, optional)

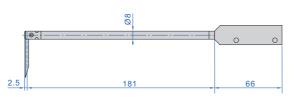


code SPM-1000-Z01 (H=32mm, optional) code SPM-1000-Z02 (H=48mm, optional) code SPM-1000-Z03 (H=68mm, optional)

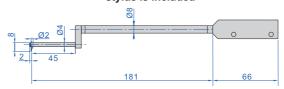


code SPM-1000-R01 (H=32mm, optional) code SPM-1000-R02 (H=48mm, optional) code SPM-1000-R03 (H=68mm, optional)

standard arm, code SPM-1000-SP (included), stylus is not included

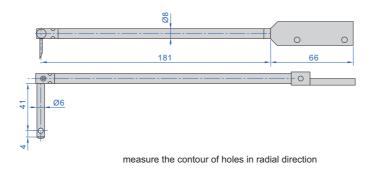


probe for small holes, code SPM-1000-SBP (optional), stylus is included



measure the contour of holes with diameter>Ø8mm

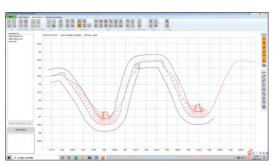
transverse probe, code SPM-1000-LP (optional), stylus is included





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

ATTENTION: PROFILE AND ROUGHNESS PROBES ARE USED SEPARATELY



CAD profile comparison

- Software is included, for measurement and data output
- Profile sensor with low noise
- Wide range roughness sensor without skid
- Meet ISO1997, ISO1984, BS1988, DIN1990, ASME1995, JIS1982, JIS1994 standards
- 65 roughness parameters



PROFILE MEASUREMENT SPECIFICATION

ION	
140mm	
0.2µm	
0.05~15mm/s	
50mm	
0.05μm	
0.2~15mm/s	
0.5µm/100mm	
±(0.8+ 0.15H)µm, H is measuring height in mm	
±1′	
±(1.5+R/12)µm, R is 2~10mm standard ball	
μm/μin	
0.05~1mm/s	
72° (upward), 88° (downward)	
430mm	
220±5%V, 50Hz	
1400×850×1780mm	
350kg	

ROUGHNESS MEASUREMENT SPECIFICATION

Roughness parameters	Ra, Rp, Rv, Rz, Rz (JIS), R3z, Rz (DIN), Rzj, Rmax, Rc, Rt, Rq, Rsk, Rku, Rsm, Rs , P∆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	
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	



stage (included)



vise (included)



standard shaft (included)



standard blocks (included)



standard balls (included)

To be continued



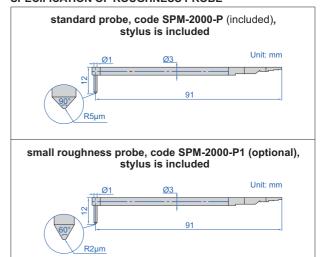
STANDARD DELIVERY

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

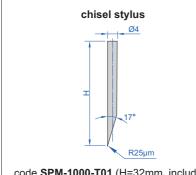
Probe	refer to details

SPECIFICATION OF ROUGHNESS PROBE

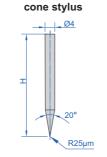


SPECIFICATION OF PROFILE PROBES

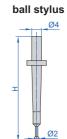
Unit: mm



code SPM-1000-T01 (H=32mm, included) code SPM-1000-T02 (H=48mm, optional) code SPM-1000-T03 (H=68mm, optional)

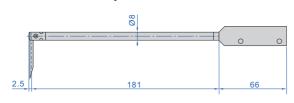


code SPM-1000-Z01 (H=32mm, optional) code SPM-1000-Z02 (H=48mm, optional) code SPM-1000-Z03 (H=68mm, optional)



code SPM-1000-R01 (H=32mm, optional) code SPM-1000-R02 (H=48mm, optional) code SPM-1000-R03 (H=68mm, optional)

standard arm, code SPM-1000-SP (included), stylus is not included

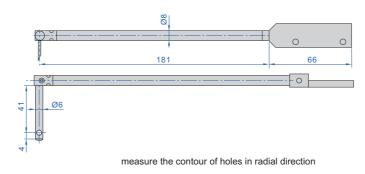


probe for small holes, code SPM-1000-SBP (optional), stylus is included



measure the contour of holes with diameter>Ø8mm

transverse probe, code SPM-1000-LP (optional), stylus is included





ROUGHNESS AND PROFILE MEASURING MACHINE (ONE PROBE TYPE) CODE SPM-5000

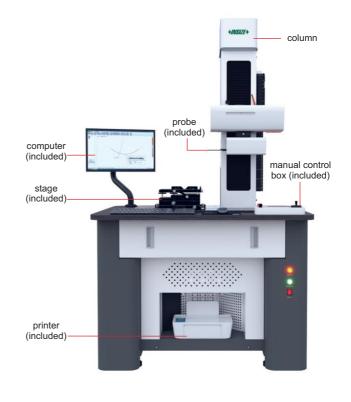


PROFILE AND ROUGHNESS
MEASUREMENT AT THE SAME TIME

- 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

PROFILE WEASUREWENT SPEC	JII IOAIIOIT
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







standard balls (included)

standard shaft (included)

ROUGHNESS MEASUREMENT SPECIFICATION

NOOOTHINEOO MEAOON	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, PΔq, Avh, Hmax, Hmin, Area, Pδc, Tilta	
Motif parameters	Ncrx, R, Rx, AR, Nr, Cpm, Sr, Sar, W, Wx, Aw, Wte, Nw, Sw, Saw	
Measuring range	±10mm	
Resolution	0.01µm	
Linear accuracy	≤±(4nm+2.5%)	
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	



stage (included)



vise (included)



standard blocks (included)

To be continued



STANDARD DELIVERY

Main unit (including workbench, controller, driver, sensor)	1 pc
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

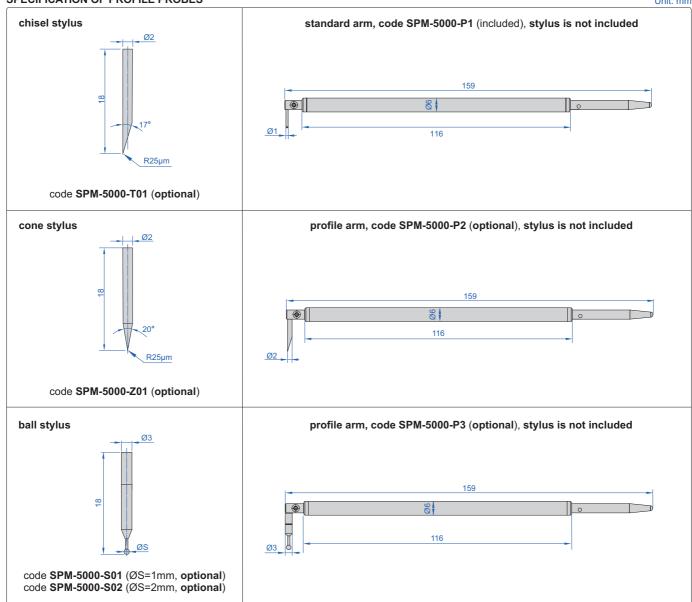
OPTIONAL ACCESSORY

Probe	refer to details
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SPECIFICATION OF STANDARD PROBE standard stylus , code SPM-5000-R1 (included)

SPECIFICATION OF PROFILE PROBES

Unit: mm





BIDIRECTIONAL ROUGHNESS AND PROFILE MEASURING MACHINE **CODE SPM-6000**



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

PROFILE MEASUREMENT SPECIFICATION

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 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, Rkumir 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, PΔq, Avh, Hmax, Hmin, Area, Pδc, 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

+INSIZE+

Continued from previous page

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)

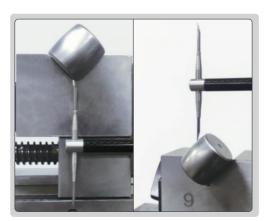


stage (included)



standard shaft (included)

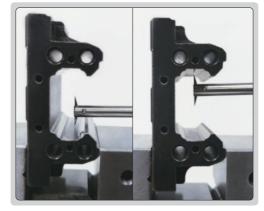
APPLICATION EXAMPLES



roller bearing



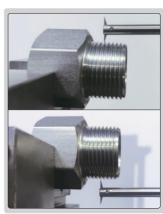
hub bearing



slider



valve spool



thread



SPECIFICATION OF PROBES

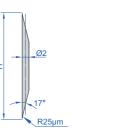
Unit: mm



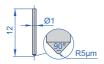
bidirectional spherical stylus

code SPM-6000-R01 (optional)

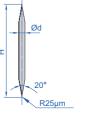
bidirectional chisel stylus code SPM-6000-T01 (H=16mm, included) code SPM-6000-T02 (H=24mm, optional) code SPM-6000-T03 (H=30mm, optional)



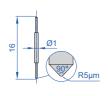
unidirectional roughness stylus code SPM-6000-S01 (included)



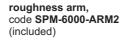
bidirectional cone stylus code **SPM-6000-Z01** (H=12mm, Ød=2mm, **optional**) code SPM-6000-Z02 (H=24mm, Ød=2mm, optional) code SPM-6000-Z03 (H=10mm, Ød=1mm, optional)

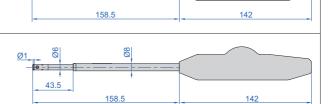


bidirectional roughness stylus code SPM-6000-S02 (optional)



profile arm, code SPM-6000-ARM1 (included)





ROUGHNESS MEASURING MACHINE CODE SPM-4000



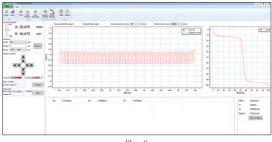
- Skidless probe
- Hundreds of parameters can be evaluated, such as roughness profile,
- waviness profile, primary profile, etc.

 Software is included, for measurement and data output

STANDARD DELIVERY

Main unit	1 pc
Roughness probe (with stylus)	1 pc
Calibration block	1 pc
Stage	1 pc
Vise	1 pc
Computer	1 pc
Software	1 set
Printer	1 pc
Installation tools	1 set





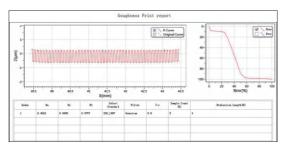
calibration



measurement



parameter measurement



data output

SPECIFICATION

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		



calibration block (included)



vise (included)



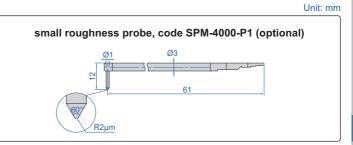
stage (included)

OPTIONAL ACCESSORY

Small roughness probe refer to details

SPECIFICATION OF ROUGHNESS PROBE

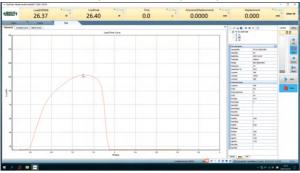
standard probe, code SPM-4000-P (included)





ELECTRONIC UNIVERSAL TESTING MACHINES

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





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



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	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~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 *	1250mm	1000mm	1000mm	1100mm		
Effective compression height *	700mm	700mm 600mm 600mm				
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 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	



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

or Lon ICAH	•						
	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	0.1°C				
Cooling system		no	cormpressor or liquid nitrogen				
Cooling time (room temperature@25°C)		- 110	1~2°C/min (no-load)				
Warming up time		1~3°C/min (no-load)					
Temperatur	e control	PID automatic temperature control					
Heating system		magnesium powder heating tube					
Aperture size		Ø50mm					
Chamber dimension***		240×430×530mm (suitable for electronic universal testing machines with column spacing of 400mm and above)					
Power supp	oly	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



VIDEO

ELECTRONIC UNIVERSAL TESTING MACHINES (ADVANCED TYPE)

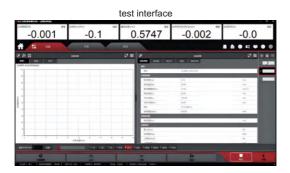


wired hand control box (included)



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)





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-X010	UTM-X050	UTM-X100	UTM-X300		
Max. test force		1kN	5kN	10kN	50kN	100kN	300kN
Accuracy cla	ss	class 0.5					
Accuracy of	test force	±0.5% of inc	licated 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 inc	licated value				
Range of spe	ed adjustment	0.001~1000mm/min		0.001~800mm/min		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	748×582×1600mm		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)	748×582×2100mm		_			
	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					

STANDARD DELIVERY

517 (115) (115 BEE1 VEIX)		
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*	
4.	

^{*}Selection of specifications according to test requirements

+INSIZE+

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	iting value				
Resolution of test force	1/300000FS					
Accuracy of displacement	±0.5% of indica	iting value				
Resolution of displacement	0.2µm	0.2µm				
Range of crossbeam speed	0.001~1000mm	n/min				
Accuracy of crossbeam speed	±0.5% of indica	iting value				
Range of force control speed	0.05%~10%FS	/s				
Accuracy of force control speed	±0.5% of indica	iting value				
Effective tensile travel *	550mm	550mm				
Effective compression travel *	700mm	700mm				
Dimension (W×D×H)	500×380×1150	500×380×1150mm				
Power supply	AC 220V, 50Hz	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

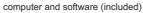
OPTIONAL ACCESSORY	
Fixture *	
Extensometer *	customized
Large deformation extensometer*	Customized
Security cover *	

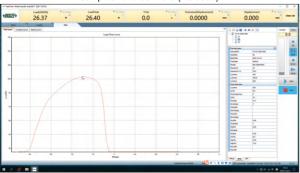
^{*}Can be customized according to test requirements



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				
Accuracy of test force	±0.5% of indica	ted value			
Range of test force	0.2%~100%FS				
Resolution of test force	1/500000FS				
Crossbeam displacement accuracy	±0.5% of indica	ted value			
Crossbeam displacement resolution	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, 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

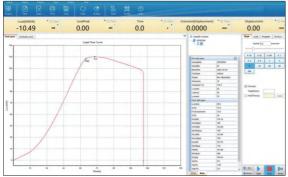
PECIFICATION						
Code		UTM-H300B	UTM-H600B	UTM-H1000B	UTM-H2000B	UTM-H3000B
Max. test force		300kN	600kN	1000kN	2000kN	3000kN
Accuracy		±1%				
Test force measuren	nent range	2%~100%FS				
Resolution of test fo	rce measurement	1/300000 of Max	1/300000 of Max. test force (same resolution all the way)			
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	tion	0.01mm				
Displacement travel		200mm				
Max tensile space (in	ncluding piston stroke)	600mm 600mm 680mm 600mm 900mm				
Max compression space (including piston stroke)		500mm	500mm	560mm	500mm	800mm
Transmission mode		chain drive				
Safety protection de	vice	software protecti	on and mechanica	I limit protection		
Control function		special software	, closed-loop of str	ess, strain and vel	ocity	
Clamping range of re	ound sample	Ø10~32mm	Ø13~40mm	Ø13~60mm	Ø20~70mm	Ø25~80mm
Clamping range of fl	at sample	0~15mm	0~15mm*	0~20mm**	0~40mm	0~80mm
Upper and lower pre	ssure plate size	Ø188mm	Ø188mm	Ø208mm	Ø208mm	Ø208mm
Bending branch roll		140mm				
Total power		2.5kW	3.0kW	3.0kW	3.75kW	5.5kW
Power supply		380V, 50Hz				
	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

^{**}Customizable 0~40mm



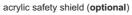
computer and software (included)



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

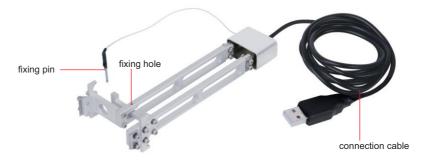
Acrylic safety shield	UTM-H-COVER1
Steel wire safety shield	UTM-H-COVER2

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





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

IMPACT TESTING MACHINES



low-temperature chamber (optional)



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	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					
Power	400W 1.5kW					



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					±2°C
Evenness	≤1.0°C					≤2.0°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 1.3°C/min, -20°C~-60°C about 1.0°C/min, -60°C~-80°C about 0.8°C/min -80°C~-100°C about 0.8°C/min		1°C~-3°C	
Heating speed	3°C/min					
Timekeeping device	1min~9999min, resolution: 1min					
Volume of refrigeration room (W×D×H)	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			710×600 ×740mm		
Material of the case	Iron shell spraying moulding stainless steels spraying moulding			stainless steels		
Power supply	AC220V, 3Ø, 50Hz, 1.8kW			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

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	

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
Impact specimen notch broaching machine (double broaches)	ITM-S-80S ITM-S-100 ITM-S-196 ITM-U32

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SALT SPRAY TEST CHAMBERS

CUSTOMIZABLE CHAMBER SIZE

COMPLY WITH ISO STANDARD SALT SPRAY TEST REQUIREMENT





7" LCD colour touch display water level display 50.0 63.0 test temperature curved line

- 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 valve to ensure uniform salt spray deposition

 Adopt manual water filling 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			
Basic type	test condition	NSS (Neutral), AASS (A	NSS (Neutral), AASS (Acid) test only					
Chamber dimension (W×H×D)		900×600×500mm	1200×850×500mm	1600×850×550mm	2000×950×600mm			
Chamber volum	ne	270L	480L	740L	1440L			
Saline tank volu	ıme	25L	90L	90L	120L			
Chamber temperature		(NSS, AASS) test temp	(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+CH₃COOH (pH 3.0~3.3) CASS: pure water+NaCl+CuCl₂ (pH 3.0~3.3)						
Compressed ai	r 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 type)		108kg	485kg	585kg	760kg			
Weight (advanced type)		105kg	385kg	480kg	580kg			

STANDARD DELIVERY

O I A A D D D D D D D D D D D D D D D D D	
Main unit	1 pc
Sample holder	1 group
Sodium chloride NaCl	2 bottles
10L salt water preparation cup	1 pc
80cm² collection cup	2 pcs
50cm glass measure cylinder	2 ncs

OPTIONAL ACCESSORY

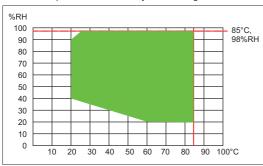
Nozzle	SFT-S210R-NOZZLE
Brine filter	SFT-S210R-FILTER





DESKTOP TEMPERATURE AND HUMIDITY CHAMBER CODE THT-Z158





- 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

SPECIFICATION	V			
Chamber dime	ension (W×H×D)	300×350×300mm		
Chamber volume		30L		
Temperature r	ange	-40~120°C		
Humidity rang	je	20%RH~98%RH		
Temperature of	deviation	±2.0°C		
Temperature f	luctuation	±0.5°C		
Temperature u	ıniformity	≤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 syste	m	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

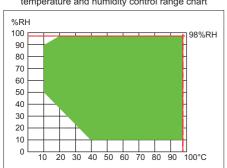




TEMPERATURE AND HUMIDITY CHAMBERS









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 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

SPECIFIC	ATION						
Code		THT-A101T	THT-A102T	THT-A103T	THT-A104T	THT-A105T	
Chambei	r dimension (W×H×D)	500×600×500mm	500×500×400mm	500×750×600mm	700×850×700mm	1000×1000×1000mm	
Chambei	r volume	150L	100L	225L	416L	1000L	
Tempera	ture range	-40~150°C					
Humidity	range	10~98%RH					
Tempera	ture/humidity fluctuation	±0.5°C, ±2.5%RH					
Tempera	ture/humidity uniformity	<2°C, 5%RH					
Tempera	ture/humidity stability	0.2°C, 2%RH					
Tempera	ture/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 provential overload protection, dry burning protection, water shortage protection, etc.			re protection,				
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

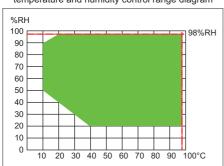
Main unit	1 pc
Test hole	1 pc
Shelf	2 pcs





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







- 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 di	mension (W×H×D)	500×600×500mm
Chamber vo	olume	150L
Temperatur	e range	-40~150°C
Humidity ra	nge	20~98%RH
Temperatur	e/humidity deviation	±2.0°C, ±2.5%RH
Temperatur	e/humidity fluctuation	±0.5°C, ±2.0%RH
Temperatur	e/humidity uniformity	±2.0°C, ±3.0%RH
Warm up tir	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