

FEATURES

- The X, Y, and Z are all of precision grade granite air-floating guides, the three axis have the same temperature effect, ensure the accuracy of the measuring machine
- X guide rail adopts precision "L" beam, light weight, low center of gravity, strong bidirectional rigidity and small dynamic error, ensure the stability of the measuring machine
- High-quality aluminum alloy frame, key components are made of aviation aluminum alloy
- Equipped with precision air source filter
- Using precision grating system
- Equipped with a probe system, meet various measurement needs



SPECIFICATION

Code	ISC-575	ISC-7107	ISC-10128	ISC-10158	ISC-10208
Measuring range	500×700×500mm	700×1000×700mm	1000×1200×800mm	1000×1500×800mm	1000×2000×800mm
Resolution	0.1μm				
Accuracy	$\pm(1.7+L/300)\mu\text{m}^*$	$\pm(1.9+L/300)\mu\text{m}^*$	$\pm(2.3+L/300)\mu\text{m}^*$		
Probe error	$\pm 1.7\mu\text{m}$	$\pm 1.9\mu\text{m}$	$\pm 2.3\mu\text{m}$		
Temperature	20±2°C				
Humidity	40%~60%				
Power	220V±10%, 50Hz ***				
Air supply pressure	6~10bar				
Max. load	800kg	1000kg	1500kg	2000kg	2500kg
Dimension (L×W×H)	1330×1820×2640mm	1530×2120×3000mm	1960×2660×3370mm	1960×2960×3370mm	1960×3460×3140mm

Code	ISC-121510	ISC-122010	ISC-152012	ISC-152512	ISC-153012
Measuring range	1200×1500×1000mm	1200×2000×1000mm	1500×2000×1200mm	1500×2500×1200mm	1500×3000×1200mm
Resolution	0.1μm				
Accuracy	$\pm(2.7+L/300)\mu\text{m}^*$		$\pm(3.4+L/300)\mu\text{m}^*$		
Probe error	$\pm 2.7\mu\text{m}$		$\pm 3.4\mu\text{m}$		
Temperature	20±2°C				
Humidity	40%~60%				
Power	220V±10%, 50Hz ***				
Air supply pressure	6~10bar				
Max. load	2000kg	3000kg	3000kg	3000kg	5000kg
Dimension (L×W×H)	2160×2960×3740mm	2160×3460×3740mm	2460×3460×3940mm	2460×3960×3940mm	2460×4460×3940mm

*** Add "-U" on code No. when power supply is 110V, 50/60Hz

* "L" is the measuring length

CONTROL SYSTEM

- Double computer control systems
- Three working modes: trigger measurement, digitization, and scanning measurement modes including SP25M, SP80, and SP600
- 21 hardware compensation functions for mechanical errors
- With three-axis linkage stem and multi-function keyboard control box

AC-DMIS SOFTWARE

- Can measure straightness, flatness, circularity, cylindricity, profile, perpendicularity, parallelism, angularity, coaxiality, concentricity, symmetry, position, runout error, circular runout and total runout
- Can convert the measured elements
- Can realize seamless switching between manual measurement and parameterized feature measurement
- Can import and convert CAD model (SAT, IGES, STEP)
- Can select multi language, metric and inch, polar and straight coordinate system
- Have multiple export ways: word、excel (microsoft office or open office)、bmp、pdf、iges、step、dat、text file

PROBE (included) SPECIFICATION

Probe head	Angular movement with horizontal axis	0°~105° in 7.5 steps
	Angular movement with vertical axis	±180° in 7.5 steps
	Number of positions	720
	Probe mounting	M8
	Max. output torque	0.45N.m
	Max. extension length	300mm
	Weight	645g
Probe	Detect direction	±X, ±Y, +Z
	Styli mounting	M2
	Rating life	>1000,000 times
	Weight	22g

STANDARD DELIVERY

Main unit		1 pc
Probe system	Probe head *	1 pc
	Probe *	1 pc
	Styli **	1 set
Calibration system	Datum sphere (Ø25mm)	1 pc
	Pivot pillar	1 pc
Computer system	Computer	1 pc
	Printer	1 pc
Software		1 pc

* The probe head and probe are Renishaw brand

** The styli system includes styli, extension and center base

STYLI (included) SPECIFICATION

Code	Material	Ball diameter	Length	Stem diameter	Effective working length	Quantity
PS48R	ruby ball / tungsten carbide stem	SØ1mm	20mm	Ø0.8mm	12.5mm	1 pc
PS2R		SØ2mm		Ø1.4mm	14mm	1 pc
PS16R		SØ3mm		Ø1.5mm	17.5mm	1 pc
PS17R		SØ4mm		Ø1.5mm	20mm	1 pc
PS8R		SØ2mm	10mm	Ø1.0mm	6mm	4 pc
PS1R		SØ3mm		Ø1.5mm	7.5mm	1 pc

EXTENSION (included) SPECIFICATION

Code	Material	Stem diameter	Length	Quantity
SE7	stainless steel stem	Ø3mm	5mm	1 pc
SE4			10mm	1 pc
SE5			20mm	1 pc
SE6			30mm	1 pc

CENTER BASE(included) SPECIFICATION

Code	Material	Dimension	Length	Quantity
SC2	stainless steel stem	7mm	7.5mm	1 pc