

FEATURES

- ◆ X&Z axis beam are made of aviation aluminum
- ◆ RENISHAW steel scale
- ◆ High precision, rigid, pre-loaded air bearings on all axis

RENISHAW UCC CONTROL SYSTEM

- ◆ High speed measurement & servo control system

RATIONAL-DMIS SOFTWARE

- ◆ Unique operation interface, complete drag-and-drop operation
- ◆ Instructional programming allows users to replace text
- ◆ Intelligent recognition of the construction, calculation and output of relevant geometric elements

- ◆ Seamless link with CAD data

RENISHAW PROBE BODY

- ◆ The TP20 is a touch trigger probe
- ◆ The TP200 is a touch triggered probe of electronic strain sensing technology, with high measurement accuracy and operate life
- ◆ The SP25M is high performance scanning and touch trigger probe


HIGH ACCURACY

Code	Range	Probe system		Accuracy			Weight	Maximum load capacity
		Head	Body	Mpee	Mpep	Mpethp		
CMM-H564A	500x600x400mm	PH10T	TP200	$\pm(1.5+3L/1000)\mu\text{m}$	1.7 μm	/	790kg	500kg
CMM-H686A	600x800x600mm	PH10T	TP200			/	1560kg	700kg
CMM-H686B		PH10M	SP25M	$\pm(1.7+3L/1000)\mu\text{m}$	1.7 μm	2.7 $\mu\text{m}/45\text{s}$	1980kg	1000kg
CMM-H8106A	800x1000x600mm	PH10T	TP200			/	2250kg	
CMM-H8106B		PH10M	SP25M			2.7 $\mu\text{m}/45\text{s}$	2550kg	
CMM-H8126A	800x1200x600mm	PH10T	TP200			/		
CMM-H8126B		PH10M	SP25M			2.7 $\mu\text{m}/45\text{s}$		
CMM-H8156A	800x1500x600mm	PH10T	TP200			/		
CMM-H8156B		PH10M	SP25M			2.7 $\mu\text{m}/45\text{s}$		

Code	Measuring range (X axis)	Measuring range (Y axis)	Measuring range (Z axis)	Resolution of measuring rulers	Speed of movement	Acceleration	Diameter of the calibration sphere
CMM-H564A	500mm	600mm	400mm	0.1μm	750mm/s	1800mm/s2	19mm
CMM-H686A	600mm	800mm	600mm		800mm/s	1900mm/s2	
CMM-H686B							
CMM-H8106A	800mm	1000mm					
CMM-H8106B							
CMM-H8126A		1200mm					
CMM-H8126B							
CMM-H8156A		1500mm					
CMM-H8156B							

SERISE CMM

COORDINATE MEASURING MACHINES

STANDARD ACCURACY

Code	Range	Probe system		Accuracy			Weight	Maximum load capacity
		Head	Body	Mpee	Mpep	Mpethp		
CMM-S564A	500x600x400mm	MH20i	TP20	$\pm(2.1+3.3L/1000)\mu\text{m}$	2.2 μm	/	790kg	500kg
CMM-S564B		PH10T						
CMM-S686A	600x800x600mm	MH20i	TP20	$\pm(2.2+3.3L/1000)\mu\text{m}$	2.3 μm		960kg	700kg
CMM-S686B		PH10T						
CMM-S686C		PH10M				SP25M	$\pm(1.9+3.3L/1000)\mu\text{m}$	
CMM-S8106A	800x1000x600mm	MH20i	TP20	$\pm(2.2+3.3L/1000)\mu\text{m}$	2.3 μm	/	1270kg	1000kg
CMM-S8106B		PH10T						
CMM-S8106C		PH10M						
CMM-S8126A	800x1200x600mm	MH20i	TP20	$\pm(2.3+3.3L/1000)\mu\text{m}$	2.4 μm	/	1400kg	
CMM-S8126B		PH10T						
CMM-S8126C		PH10M						
CMM-S8156A	800x1500x600mm	MH20i	TP20	$\pm(2.3+3.3L/1000)\mu\text{m}$	2.4 μm	/	1600kg	
CMM-S8156B		PH10T						
CMM-S8156C		PH10M						

Code	Measuring range (X axis)	Measuring range (Y axis)	Measuring range (Z axis)	Resolution of measuring rulers	Speed of movement	Acceleration	Diameter of the calibration sphere
CMM-S564A	500mm	600mm	400mm	0.5μm	750mm/s	1800mm/s2	19mm
CMM-S564B							
CMM-S686A	600mm	800mm					
CMM-S686B							
CMM-S686C							
CMM-S8106A	800mm	1000mm					
CMM-S8106B							
CMM-S8106C							
CMM-S8126A		1200mm					
CMM-S8126B							
CMM-S8126C							
CMM-S8156A		1500mm					
CMM-S8156B							
CMM-S8156C							

STYLI INCLUDED IN TP20 AND TP200

Material	Ball diameter	Length	Quantity
Materialruby ball / stainless steel stem	SØ1mm	10mm	1pc
	SØ2mm	20mm	
	SØ3mm	20mm	
		30mm	
	SØ4mm	10mm	
		30mm	
		40mm	
		20mm	
	SØ5mm	50mm	
		10mm	
Stainless steel stem	/	20mm	
		30mm	

STYLI INCLUDED IN SP25M

Material	Ball diameter	Length	Quantity
Materialruby ball / stainless steel stem	SØ2mm	21mm	2pc
	SØ3mm	21mm	
	SØ4mm	21mm	
	SØ2mm	30mm	
	SØ3mm	40mm	
	SØ4mm	50mm	
	SØ6mm	75mm	
	/	20mm	
Stainless steel stem	/	20mm	1pc

OPERATION ENVIRONMENT

Air pressure	0.5~1.0MPa
Air supply	0.3~0.45m ³ /min
Temperature	20±2°C
Humidity	55%~65%
Power	220V±10%, 50/60Hz

STANDARD DELIVERY

Main unit		1 pc
Probe system	Probe head (Renishaw)	1 pc
	Probe body (Renishaw)	1 pc
	Styli (Renishaw)	1 set
Calibration sphere	Ø19mm	1 pc
Computer		1 pc
Printer		1 pc
Software		1 pc

PROBE HEAD SPECIFICATION

Probe head(PH10T)	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
Probe body	Weight	645g
	Detect direction	±X, ±Y, ±Z
	Styli mounting	M2
	Rating life	>1000,000 times