

COORDINATE MEASURING MACHINES (SMALL RANGE)



CMM-LM8106C

FEATURES

- Classic bridge structure, integrated workbench
- High precision air bearing
- Unique Z-axis anti torque design to reduce rotation error

RENISHAW SYSTEMS

- Precision grating system, including grating and data acquisition device
- UCC control system, including control box and manual operator
- Probe system, including probe head, probe body and stylus

INSIZE DMIS CNC CAD+ SOFTWARE

- The software is designed and developed based on the DMIS standard, with excellent compatibility and versatility
- Geometric element measurement, evaluation of shape and position
- Bidirectional data transfer with mainstream CAD systems, complete graphical display

STANDARD ACCURACY (LM SERIES)

Code	Range(X×Y×Z)	Probe system		Accuracy		Max. load	Overall dimension	Weight
		Head	Body	MPEE	MPEP			
CMM-LM564A	500×600×400mm	MH20i	TP20	±(2.3+L/250)μm	2.4μm	500kg	1135×1420×2350mm	900kg
CMM-LM564B		PH10T						
CMM-LM686A	600×800×600mm	MH20i	TP20	±(2.6+L/250)μm	2.7μm	800kg	1420×1740×2760mm	1300kg
CMM-LM686B		PH10T						
CMM-LM686C		PH10M	SP25M	±(2.1+L/250)μm	2.1μm			
CMM-LM8106A	800×1000×600mm	MH20i	TP20	±(2.7+L/250)μm	2.8μm	1000kg	1620×1940×2760mm	1700kg
CMM-LM8106B		PH10T						
CMM-LM8106C		PH10M	SP25M	±(2.2+L/250)μm	2.2μm			
CMM-LM8126A	800×1200×600mm	MH20i	TP20	±(2.7+L/250)μm	2.8μm	1000kg	1620×2140×2760mm	1900kg
CMM-LM8126B		PH10T						
CMM-LM8126C		PH10M	SP25M	±(2.2+L/250)μm	2.2μm			
CMM-LM8156A	800×1500×600mm	MH20i	TP20	±(2.7+L/250)μm	2.8μm	1000kg	1620×2440×2760mm	2200kg
CMM-LM8156B		PH10T						
CMM-LM8156C		PH10M	SP25M	±(2.2+L/250)μm	2.2μm			

HIGH ACCURACY (LE SERIES)

Code	Range(X×Y×Z)	Probe system		Accuracy		Max. load	Overall dimension	Weight
		Head	Body	MPEE	MPEP			
CMM-LE564A	500×600×400mm	MH20i	TP20	±(1.9+L/330)μm	2.1μm	500kg	1135×1420×2350mm	900kg
CMM-LE564B		PH10T						
CMM-LE686A	600×800×600mm	MH20i	TP20	±(2.0+L/330)μm	2.2μm	800kg	1420×1740×2760mm	1300kg
CMM-LE686B		PH10T						
CMM-LE686C		PH10M	SP25M	±(1.6+L/330)μm	1.6μm			
CMM-LE8106A	800×1000×600mm	MH20i	TP20	±(2.1+L/330)μm	2.3μm	1000kg	1620×1940×2760mm	1700kg
CMM-LE8106B		PH10T						
CMM-LE8106C		PH10M	SP25M	±(1.7+L/330)μm	1.7μm			
CMM-LE8126A	800×1200×600mm	MH20i	TP20	±(2.1+L/330)μm	2.3μm	1000kg	1620×2140×2760mm	1900kg
CMM-LE8126B		PH10T						
CMM-LE8126C		PH10M	SP25M	±(1.7+L/330)μm	1.7μm			
CMM-LE8156A	800×1500×600mm	MH20i	TP20	±(2.1+L/330)μm	2.3μm	1000kg	1620×2440×2760mm	2200kg
CMM-LE8156B		PH10T						
CMM-LE8156C		PH10M	SP25M	±(1.7+L/330)μm	1.7μm			

STANDARD DELIVERY

Main unit		1 pc
Probe system	Probe head	1 pc
	Probe body	1 pc
	styli	1 set
Control system		1 set
Calibration sphere		1 pc
Universal sphere seat		1 pc
Computer		1 pc
Printer		1 pc
Software		1 set
Table and chair		1 set

OPERATION ENVIRONMENT

Air pressure	0.6-0.8MPa
Air supply	200L/min
Temperature	20℃±2℃; <0.5℃/h, < 1℃/24h
Humidity	30%~70%
Max. power	1000W
Power supply	220V±5%, 50Hz

MH20i SPECIFICATION

Angular movement with horizontal axis	0°~90° in 15 steps
Angular movement with vertical axis	±180° in 15 steps
Number of positions	168
Steering mode	manual
Max. extension length	75mm
Weight	210g

PH10T AND PH10M SPECIFICATION

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
Steering mode	motorized
Max. output torque	0.45N.m
Max. extension length	300mm
Weight	649g

OPTIONAL SOFTWARE MODULE

Offline module	CMM-WM-OEM
Gear module	CMM-WM-GEM
Worm module	CMM-WM-WMM
Pipeline module	CMM-WM-PEM
Blade module	CMM-WM-BEM
SPC statistical analysis	CMM-WM-SPC
Network statistical analysis	CMM-WM-NPM
Gear and worm kit module	CMM-WM-GSM
Automation module	CMM-WM-CNC

STYLI SET INCLUDED IN TP20

Type	Material	Ball diameter	Length	Stem diameter	Effective working length	Quantity
Styli	ruby ball / stainless steel stem	SØ2.5mm	20mm	Ø1.4mm	14mm	4 pcs
		SØ4mm		Ø1.5mm	20mm	1 pc
		SØ3mm	10mm	Ø1.5mm	7.5mm	1 pc

Type	Material	Diameter	Length	Quantity
Extension	stainless steel	Ø3mm	20mm	1 pc
		Ø3mm	30mm	1 pc

Type	Material	Diameter	Length	Quantity
Center base	stainless steel	7mm	7.5mm	1pc

STYLI SET INCLUDED IN SP25M

Type	Material	Ball diameter	Length	Stem diameter	Effective working length	Quantity
Styli	ruby ball / stainless steel stem	SØ1.5mm	21mm	Ø1mm	14mm	1 pc
		SØ2mm		Ø1.4mm	8mm	1 pc
		SØ3mm	31mm	Ø1.5mm	12mm	4 pcs
		SØ4mm		Ø2.5mm	27mm	1 pc
	ruby ball / carbon fiber stem	SØ5mm	50mm	Ø3mm	42.5mm	1 pc
		SØ6mm	75mm	Ø4mm	75mm	1 pc

Type	Material	Diameter	Length	Quantity
Extension	stainless steel	Ø5mm	10mm	1 pc
		Ø4mm	20mm	1 pc

Type	Material	Diameter	Length	Quantity
Center base	stainless steel	10mm	13mm	1 pc