

COORDINATE MEASURING MACHINES (LARGE RANGE)

FEATURES

- Classic bridge structure, integrated workbench
- High precision air bearing
- Special non-linear spring system to minimize guideway 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 styli

VISUAL 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
- Optional specialized modules, such as gear module, worm module, pipeline module, blade module, SPC data analysis module, etc



CMM-PM10128A

STANDARD ACCURACY (PM SERIES)

Part no.	Range(X×Y×Z)	Probe system		Accuracy		Max. load	Overall dimension	Weight
		Head	Body	MPEE	MPEP			
CMM-PM686A-U	23.62×31.50×23.62"	PH10T	TP20	±(2.1+L/300)μm	2.4μm	1764lb	58.46×70.87×107.5"	3638lb
CMM-PM686B-U	(600×800×600mm)	PH10M	SP25M	±(1.5+L/300)μm	1.5μm	(800kg)	(1485×1800×2730mm)	(1650kg)
CMM-PM8127A-U	31.50×47.24×27.56"	PH10T	TP20	±(2.3+L/300)μm	2.6μm	2205lb	66.34×86.61×114.2"	5732lb
CMM-PM8127B-U	(800×1200×700mm)	PH10M	SP25M	±(1.7+L/300)μm	1.7μm	(1000kg)	(1685×2200×2900mm)	(2600kg)
CMM-PM8157A-U	31.50×59.06×27.56"	PH10T	TP20	±(2.3+L/300)μm	2.6μm	2205lb	66.34×98.43×115.4"	6614lb
CMM-PM8157B-U	(800×1500×700mm)	PH10M	SP25M	±(1.7+L/300)μm	1.7μm	(1000kg)	(1685×2500×2930mm)	(3000kg)
CMM-PM10128A-U	39.37×47.24×31.50"	PH10T	TP20	±(2.7+L/300)μm	3.0μm	3307lb	74.21×86.61×123.2"	6393lb
CMM-PM10128B-U	(1000×1200×800mm)	PH10M	SP25M	±(2.1+L/300)μm	2.1μm	(1500kg)	(1885×2200×3130mm)	(2900kg)
CMM-PM10158A-U	39.37×59.06×31.50"	PH10T	TP20	±(2.7+L/300)μm	3.0μm	3307lb	74.21×98.43×123.2"	7275lb
CMM-PM10158B-U	(1000×1500×800mm)	PH10M	SP25M	±(2.1+L/300)μm	2.1μm	(1500kg)	(1885×2500×3130mm)	(3300kg)
CMM-PM10228A-U	39.37×86.61×31.50"	PH10T	TP20	±(2.7+L/300)μm	3.0μm	3968lb	74.21×137.8×123.2"	9259lb
CMM-PM10228B-U	(1000×2200×800mm)	PH10M	SP25M	±(2.1+L/300)μm	2.1μm	(1800kg)	(1885×3580×3130mm)	(4200kg)
CMM-PM10258A-U	39.37×98.43×31.50"	PH10T	TP20	±(2.7+L/300)μm	3.0μm	3968lb	74.21×152.8×120.9"	11464lb
CMM-PM10258B-U	(1000×2500×800mm)	PH10M	SP25M	±(2.1+L/300)μm	2.1μm	(1800kg)	(1885×3880×3070mm)	(5200kg)
CMM-PM10308A-U	39.37×118.1×31.50"	PH10T	TP20	±(2.7+L/300)μm	3.0μm	3968lb	74.21×172.4×120.9"	13007lb
CMM-PM10308B-U	(1000×3000×800mm)	PH10M	SP25M	±(2.1+L/300)μm	2.1μm	(1800kg)	(1885×4380×3070mm)	(5900kg)
CMM-PM121510A-U	47.24×59.06×39.37"	PH10T	TP20	±(3.1+L/300)μm	3.4μm	4409lb	82.09×98.43×139.0"	7937lb
CMM-PM121510B-U	(1200×1500×1000mm)	PH10M	SP25M	±(2.5+L/300)μm	2.5μm	(2000kg)	(2085×2500×3530mm)	(3600kg)

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Part no.	Range(X×Y×Z)	Probe system		Accuracy		Max. load	Overall dimension	Weight
		Head	Body	MPEE	MPEP			
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CMM-PM12210B-U	(1200×2200×1000mm)	PH10M	SP25M	±(2.5+L/300)μm	2.5μm	(2000kg)	(2085×3580×3530mm)	(4600kg)
CMM-PM122510A-U	47.24×98.42×39.37"	PH10T	TP20	±(3.1+L/300)μm	3.4μm	4409lb	82.09×152.8×136.6"	12125lb
CMM-PM122510B-U	(1200×2500×1000mm)	PH10M	SP25M	±(2.5+L/300)μm	2.5μm	(2000kg)	(2085×3880×3470mm)	(5500kg)
CMM-PM123010A-U	47.24×118.1×39.37"	PH10T	TP20	±(3.1+L/300)μm	3.4μm	4409lb	82.09×172.4×136.6"	14330lb
CMM-PM123010B-U	(1200×3000×1000mm)	PH10M	SP25M	±(2.5+L/300)μm	2.5μm	(2000kg)	(2085×4380×3470mm)	6500kg
CMM-PM152210A-U	59.06×86.61×39.37"	PH10T	TP20	±(3.5+L/300)μm	3.8μm	4850lb	93.90×140.9×136.6"	13007lb
CMM-PM152210B-U	(1500×2200×1000mm)	PH10M	SP25M	±(2.9+L/300)μm	2.9μm	(2200kg)	(2385×3580×3470mm)	(5900kg)
CMM-PM152510A-U	59.06×98.42×39.37"	PH10T	TP20	±(3.5+L/300)μm	3.8μm	4850lb	93.90×152.8×136.6"	14330lb
CMM-PM152510B-U	(1500×2500×1000mm)	PH10M	SP25M	±(2.9+L/300)μm	2.9μm	(2200kg)	(2385×3880×3470mm)	(6500kg)
CMM-PM153010A-U	59.06×118.1×39.37"	PH10T	TP20	±(3.5+L/300)μm	3.8μm	4850lb	93.90×172.4×136.6"	16535lb
CMM-PM153010B-U	(1500×3000×1000mm)	PH10M	SP25M	±(2.9+L/300)μm	2.9μm	(2200kg)	(2385×4380×3470mm)	(7500kg)
CMM-PM182510A-U	70.87×98.42×39.37"	PH10T	TP20	±(3.9+L/300)μm	4.2μm	5512lb	105.7×152.8×136.6"	16094lb
CMM-PM182510B-U	(1800×2500×1000mm)	PH10M	SP25M	±(3.3+L/300)μm	3.3μm	(2500kg)	(2685×3880×3470mm)	(7300kg)
CMM-PM183010A-U	70.87×118.1×39.37"	PH10T	TP20	±(3.9+L/300)μm	4.2μm	5512lb	105.7×172.4×136.6"	18739lb
CMM-PM183010B-U	(1800×3000×1000mm)	PH10M	SP25M	±(3.3+L/300)μm	3.3μm	(2500kg)	(2685×4380×3470mm)	(8500kg)
CMM-PM183510A-U	70.87×137.8×39.37"	PH10T	TP20	±(3.9+L/300)μm	4.2μm	5512lb	105.7×192.1×136.6"	21385lb
CMM-PM183510B-U	(1800×3500×1000mm)	PH10M	SP25M	±(3.3+L/300)μm	3.3μm	(2500kg)	(2685×4880×3470mm)	(9700kg)
CMM-PM184010A-U	70.87×157.5×39.37"	PH10T	TP20	±(3.9+L/300)μm	4.2μm	5512lb	105.7×211.8×136.6"	23810lb
CMM-PM184010B-U	(1800×4000×1000mm)	PH10M	SP25M	±(3.3+L/300)μm	3.3μm	(2500kg)	(2685×5380×3470mm)	(10800kg)

HIGH ACCURACY (PE SERIES)

Part no.	Range(X×Y×Z)	Probe system		Accuracy		Max. load	Overall dimension	Weight
		Head	Body	MPEE	MPEP			
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CMM-PE686B-U	(600×800×600mm)	PH10M	SP25M	±(1.2+L/350)μm	1.2μm	(800kg)	(1485×1800×2730mm)	(1650kg)
CMM-PE8127A-U	31.50×47.24×27.56"	PH10T	TP20	±(2.0+L/350)μm	2.2μm	2205lb	66.34×86.61×114.2"	5732lb
CMM-PE8127B-U	(800×1200×700mm)	PH10M	SP25M	±(1.4+L/350)μm	1.4μm	(1000kg)	(1685×2200×2900mm)	(2600kg)
CMM-PE8157A-U	31.50×59.06×27.56"	PH10T	TP20	±(2.0+L/350)μm	2.2μm	2205lb	66.34×98.43×115.4"	6614lb
CMM-PE8157B-U	(800×1500×700mm)	PH10M	SP25M	±(1.4+L/350)μm	1.4μm	(1000kg)	(1685×2500×2930mm)	(3000kg)
CMM-PE10128A-U	39.37×47.24×31.50"	PH10T	TP20	±(2.3+L/350)μm	2.5μm	3307lb	74.21×86.61×123.2"	6393lb
CMM-PE10128B-U	(1000×1200×800mm)	PH10M	SP25M	±(1.7+L/350)μm	1.7μm	(1500kg)	(1885×2200×3130mm)	(2900kg)
CMM-PE10158A-U	39.37×59.06×31.50"	PH10T	TP20	±(2.3+L/350)μm	2.5μm	3307lb	74.21×98.43×123.2"	7275lb
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CMM-PE10308B-U	(1000×3000×800mm)	PH10M	SP25M	±(1.7+L/350)μm	1.7μm	(1800kg)	(1885×4380×3070mm)	(5900kg)
CMM-PE121510A-U	47.24×59.06×39.37"	PH10T	TP20	±(2.7+L/350)μm	2.9μm	4409lb	82.09×98.43×139.0"	7937lb
CMM-PE121510B-U	(1200×1500×1000mm)	PH10M	SP25M	±(2.1+L/350)μm	2.1μm	(2000kg)	(2085×2500×3530mm)	(3600kg)

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CMM-PE152210A-U	59.06×86.61×39.37"	PH10T	TP20	±(3.1+L/350)μm	3.3μm	4850lb	93.90×140.9×136.6"	13007lb
CMM-PE152210B-U	(1500×2200×1000mm)	PH10M	SP25M	±(2.5+L/350)μm	2.5μm	(2200kg)	(2385×3580×3470mm)	(5900kg)
CMM-PE152510A-U	59.06×98.42×39.37"	PH10T	TP20	±(3.1+L/350)μm	3.3μm	4850lb	93.90×152.8×136.6"	14330lb
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CMM-PE153010B-U	(1500×3000×1000mm)	PH10M	SP25M	±(2.5+L/350)μm	2.5μm	(2200kg)	(2385×4380×3470mm)	(7500kg)
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CMM-PE184010B-U	(1800×4000×1000mm)	PH10M	SP25M	±(2.9+L/350)μm	2.9μm	(2500kg)	(2685×5380×3470mm)	(10800kg)

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

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	11.81"
Weight	1.431lb

STYLI SET INCLUDED IN TP20

Type	Material	Ball diameter	Length	Stem diameter	Effective working length	Quantity
Styli	ruby ball / stainless steel stem	SØ0.098"	0.787"	Ø0.055"	0.551"	4 pcs
		SØ0.157"		Ø0.055"	0.787"	1 pc
		SØ0.118"	0.394"	Ø0.055"	0.295"	1 pc

Type	Material	Diameter	Length	Quantity
Extension	stainless steel	Ø0.118"	0.787"	1 pc
		Ø0.118"	1.181"	1 pc

Type	Material	Diameter	Length	Quantity
Center base	stainless steel	0.276"	0.295"	1pc

STYLI SET INCLUDED IN SP25M

Type	Material	Ball diameter	Length	Stem diameter	Effective working length	Quantity
Styli	ruby ball / stainless steel stem	SØ0.059"	0.827"	Ø0.039"	0.551"	1 pc
		SØ0.079"		Ø0.055"	0.315"	1 pc
		SØ0.118"		Ø0.059"	0.472"	4 pcs
		SØ0.157"	1.220"	Ø0.098"	1.063"	1 pc
	ruby ball / carbon fiber stem	SØ0.197"	1.967"	Ø0.118"	1.673"	1 pc
		SØ0.236"	2.953"	Ø0.157"	2.953"	1 pc

Type	Material	Diameter	Length	Quantity
Extension	stainless steel	Ø0.197"	0.394"	1 pc
		Ø0.157"	0.787"	1 pc

Type	Material	Diameter	Length	Quantity
Center base	stainless steel	0.394"	0.512"	1 pc