

COORDINATE MEASURING MACHINES (GANTRY TYPE)

FEATURES

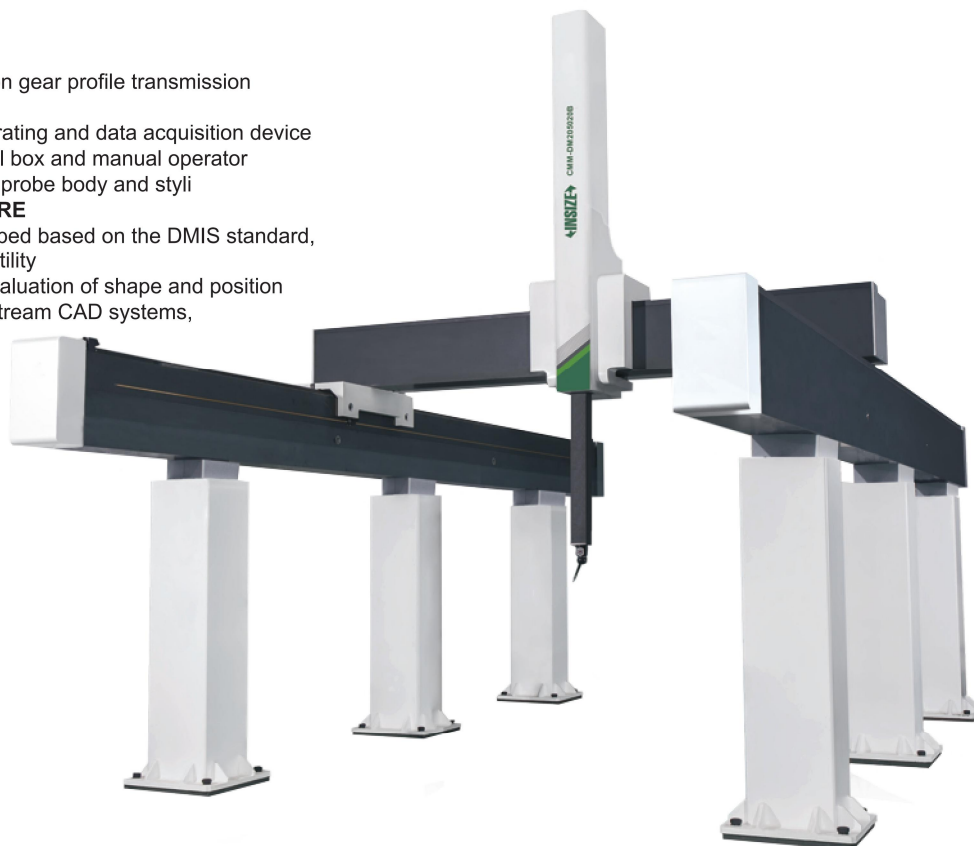
- Open gantry floor-standing structure
- High precision air bearing
- The longest axis adopts high-precision gear profile transmission

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

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



CMM-DM205020B

STANDARD ACCURACY (DM SERIES)

Code	Range(X×Y×Z)	Probe system		Accuracy		Overall dimension	Net weight
		Head	Body	MPEE	MPEP		
CMM-DM205012A	2000×5000×1200mm	PH10T	TP20	±(5.0+5.0L/1000)μm	5.0μm	6940×3575×3640mm	9600kg
CMM-DM205012B		PH10M	SP25M	±(4.5+4.5L/1000)μm	4.5μm		
CMM-DM206012A	2000×6000×1200mm	PH10T	TP20	±(5.0+5.0L/1000)μm	5.0μm	7940×3575×3640mm	10500kg
CMM-DM206012B		PH10M	SP25M	±(4.5+4.5L/1000)μm	4.5μm		
CMM-DM208012A	2000×8000×1200mm	PH10T	TP20	±(5.0+5.0L/1000)μm	5.0μm	9940×3575×3640mm	13000kg
CMM-DM208012B		PH10M	SP25M	±(4.5+4.5L/1000)μm	4.5μm		
CMM-DM205015A	2000×5000×1500mm	PH10T	TP20	±(5.0+5.0L/1000)μm	5.0μm	6940×3575×4240mm	10000kg
CMM-DM205015B		PH10M	SP25M	±(4.5+4.5L/1000)μm	4.5μm		
CMM-DM206015A	2000×6000×1500mm	PH10T	TP20	±(5.0+5.0L/1000)μm	5.0μm	7940×3575×4240mm	11000kg
CMM-DM206015B		PH10M	SP25M	±(4.5+4.5L/1000)μm	4.5μm		
CMM-DM208015A	2000×8000×1500mm	PH10T	TP20	±(5.0+5.0L/1000)μm	5.0μm	9940×3575×4240mm	12700kg
CMM-DM208015B		PH10M	SP25M	±(4.5+4.5L/1000)μm	4.5μm		
CMM-DM254015A	2500×4000×1500mm	PH10T	TP20	±(6.0+6.0L/1000)μm	6.0μm	5940×4075×4240mm	9300kg
CMM-DM254015B		PH10M	SP25M	±(5.0+5.0L/1000)μm	5.0μm		
CMM-DM255015A	2500×5000×1500mm	PH10T	TP20	±(6.0+6.0L/1000)μm	6.0μm	6940×4075×4240mm	10200kg
CMM-DM255015B		PH10M	SP25M	±(5.0+5.0L/1000)μm	5.0μm		
CMM-DM256015A	2500×6000×1500mm	PH10T	TP20	±(6.0+6.0L/1000)μm	6.0μm	7940×4075×4240mm	11000kg
CMM-DM256015B		PH10M	SP25M	±(5.0+5.0L/1000)μm	5.0μm		
CMM-DM258015A	2500×8000×1500mm	PH10T	TP20	±(6.0+6.0L/1000)μm	6.0μm	9940×4075×4240mm	12800kg
CMM-DM258015B		PH10M	SP25M	±(5.0+5.0L/1000)μm	5.0μm		

STANDARD ACCURACY (DM SERIES)

Code	Range(X×Y×Z)	Probe system		Accuracy		Overall dimension	Net weight
		Head	Body	MPEE	MPEP		
CMM-DM304015A	3000×4000×1500mm	PH10T	TP20	±(6.0+6.0L/1000)μm	6.0μm	5940×4575×4240mm	9500kg
CMM-DM304015B		PH10M	SP25M	±(5.0+5.0L/1000)μm	5.0μm		
CMM-DM305015A	3000×5000×1500mm	PH10T	TP20	±(6.0+6.0L/1000)μm	6.0μm	6940×4575×4240mm	10300kg
CMM-DM305015B		PH10M	SP25M	±(5.0+5.0L/1000)μm	5.0μm		
CMM-DM306015A	3000×6000×1500mm	PH10T	TP20	±(6.0+6.0L/1000)μm	6.0μm	7940×4575×4240mm	11200kg
CMM-DM306015B		PH10M	SP25M	±(5.0+5.0L/1000)μm	5.0μm		
CMM-DM308015A	3000×8000×1500mm	PH10T	TP20	±(6.0+6.0L/1000)μm	6.0μm	9940×4575×4240mm	12900kg
CMM-DM308015B		PH10M	SP25M	±(5.0+5.0L/1000)μm	5.0μm		
CMM-DM254020A	2500×4000×2000mm	PH10T	TP20	±(7.0+7.0L/1000)μm	7.0μm	5940×4200×5350mm	10100kg
CMM-DM254020B		PH10M	SP25M	±(6.0+6.0L/1000)μm	6.0μm		
CMM-DM255020A	2500×5000×2000mm	PH10T	TP20	±(7.0+7.0L/1000)μm	7.0μm	6940×4200×5350mm	11000kg
CMM-DM255020B		PH10M	SP25M	±(6.0+6.0L/1000)μm	6.0μm		
CMM-DM256020A	2500×6000×2000mm	PH10T	TP20	±(7.0+7.0L/1000)μm	7.0μm	7940×4200×5350mm	11800kg
CMM-DM256020B		PH10M	SP25M	±(6.0+6.0L/1000)μm	6.0μm		
CMM-DM258020A	2500×8000×2000mm	PH10T	TP20	±(7.0+7.0L/1000)μm	7.0μm	9940×4200×5350mm	13600kg
CMM-DM258020B		PH10M	SP25M	±(6.0+6.0L/1000)μm	6.0μm		
CMM-DM2510020A	2500×10000×2000mm	PH10T	TP20	±(7.0+7.0L/1000)μm	7.0μm	11940×4200×5350mm	15300kg
CMM-DM2510020B		PH10M	SP25M	±(6.0+6.0L/1000)μm	6.0μm		
CMM-DM304020A	3000×4000×2000mm	PH10T	TP20	±(7.0+7.0L/1000)μm	7.0μm	5940×4700×5350mm	10300kg
CMM-DM304020B		PH10M	SP25M	±(6.0+6.0L/1000)μm	6.0μm		
CMM-DM305020A	3000×5000×2000mm	PH10T	TP20	±(7.0+7.0L/1000)μm	7.0μm	6940×4700×5350mm	11100kg
CMM-DM305020B		PH10M	SP25M	±(6.0+6.0L/1000)μm	6.0μm		
CMM-DM306020A	3000×6000×2000mm	PH10T	TP20	±(7.0+7.0L/1000)μm	7.0μm	7940×4700×5350mm	12000kg
CMM-DM306020B		PH10M	SP25M	±(6.0+6.0L/1000)μm	6.0μm		
CMM-DM308020A	3000×8000×2000mm	PH10T	TP20	±(7.0+7.0L/1000)μm	7.0μm	9940×4700×5350mm	13700kg
CMM-DM308020B		PH10M	SP25M	±(6.0+6.0L/1000)μm	6.0μm		
CMM-DM3010020A	3000×10000×2000mm	PH10T	TP20	±(7.0+7.0L/1000)μm	7.0μm	11940×4700×5350mm	15400kg
CMM-DM3010020B		PH10M	SP25M	±(6.0+6.0L/1000)μm	6.0μm		
CMM-DM405020A	4000×5000×2000mm	PH10T	TP20	±(8.0+8.0L/1000)μm	8.0μm	6940×5700×5350mm	11400kg
CMM-DM405020B		PH10M	SP25M	±(7.0+7.0L/1000)μm	7.0μm		
CMM-DM406020A	4000×6000×2000mm	PH10T	TP20	±(8.0+8.0L/1000)μm	8.0μm	7940×5700×5350mm	12200kg
CMM-DM406020B		PH10M	SP25M	±(7.0+7.0L/1000)μm	7.0μm		
CMM-DM408020A	4000×8000×2000mm	PH10T	TP20	±(8.0+8.0L/1000)μm	8.0μm	9940×5700×5350mm	14000kg
CMM-DM408020B		PH10M	SP25M	±(7.0+7.0L/1000)μm	7.0μm		
CMM-DM4010020A	4000×10000×2000mm	PH10T	TP20	±(8.0+8.0L/1000)μm	8.0μm	11940×5700×5350mm	15700kg
CMM-DM4010020B		PH10M	SP25M	±(7.0+7.0L/1000)μm	7.0μm		
CMM-DM506020A	5000×6000×2000mm	PH10T	TP20	±(10.0+10.0L/1000)μm	10.0μm	7940×6700×5350mm	12500kg
CMM-DM506020B		PH10M	SP25M	±(9.0+9.0L/1000)μm	9.0μm		
CMM-DM508020A	5000×8000×2000mm	PH10T	TP20	±(10.0+10.0L/1000)μm	10.0μm	9940×6700×5350mm	14300kg
CMM-DM508020B		PH10M	SP25M	±(9.0+9.0L/1000)μm	9.0μm		
CMM-DM5010020A	5000×10000×2000mm	PH10T	TP20	±(10.0+10.0L/1000)μm	10.0μm	11940×6700×5350mm	16000kg
CMM-DM5010020B		PH10M	SP25M	±(9.0+9.0L/1000)μm	9.0μm		
CMM-DM405030A	4000×5000×3000mm	PH10T	TP20	±(10.0+10.0L/1000)μm	10.0μm	6940×5700×7350mm	13000kg
CMM-DM405030B		PH10M	SP25M	±(9.0+9.0L/1000)μm	9.0μm		
CMM-DM406030A	4000×6000×3000mm	PH10T	TP20	±(10.0+10.0L/1000)μm	10.0μm	7940×5700×7350mm	13900kg
CMM-DM406030B		PH10M	SP25M	±(9.0+9.0L/1000)μm	9.0μm		
CMM-DM408030A	4000×8000×3000mm	PH10T	TP20	±(10.0+10.0L/1000)μm	10.0μm	9940×5700×7350mm	15600kg
CMM-DM408030B		PH10M	SP25M	±(9.0+9.0L/1000)μm	9.0μm		
CMM-DM4010030A	4000×10000×3000mm	PH10T	TP20	±(10.0+10.0L/1000)μm	10.0μm	11940×5700×7350mm	17300kg
CMM-DM4010030B		PH10M	SP25M	±(9.0+9.0L/1000)μm	9.0μm		
CMM-DM506030A	5000×6000×3000mm	PH10T	TP20	±(12.0+12.0L/1000)μm	12.0μm	7940×6700×7350mm	14100kg
CMM-DM506030B		PH10M	SP25M	±(11.0+11.0L/1000)μm	11.0μm		
CMM-DM508030A	5000×8000×3000mm	PH10T	TP20	±(12.0+12.0L/1000)μm	12.0μm	9940×6700×7350mm	15800kg
CMM-DM508030B		PH10M	SP25M	±(11.0+11.0L/1000)μm	11.0μm		
CMM-DM5010030A	5000×10000×3000mm	PH10T	TP20	±(12.0+12.0L/1000)μm	12.0μm	11940×6700×7350mm	17500kg
CMM-DM5010030B		PH10M	SP25M	±(11.0+11.0L/1000)μm	11.0μm		

STANDARD DELIVERY

Main unit	1 pc	
	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	2200W
Power supply	220V±5%, 50Hz

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 programming module	CMM-WM-NPM
Gear and worm kit module	CMM-WM-GSM
Automation module	CMM-WM-CNC

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
Net weight	649g

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
Center base		Ø7mm	7.5mm	1 pc

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		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
Center base		Ø10mm	13mm	1 pc