

ENC Series CNC Coordinate Measuring Machine

- ♦ Single-side driven movable bridge structure, kinetic performance is significantly improved, and ensure measuring accuracy and stability.
- ♦ Guideways are made of high-precision natural granite, which have the same temperature characteristics and rigidity.
- ♦ High-precision self-cleaning air bearing is used for the permanently wear-resistant guideways of all the three axes for more steady operation.
- ♦ Open metallic optical scale with coefficient of thermal expansion closer to granite matrix improves the stability of the machine.
- ♦ Integral dovetail guideways is used in Axis Y, eliminating motional swings effectively, ensuring measuring accuracy and stability.
- ♦ UCC high-speed, high-precision automatic control system from RENISHAW of Britain is used, which embedded with 32-bit microprocessor that enables truly real-time control.
- ♦ High-power drive and motor, and a two-stage speed reducer are used for all axes to ensure rapid and accuracy driving.

The machine & software can work with many kinds probe and changer

5 axis probe: PH20, Revo

Non contact: CCD, OTP6M, LD50-Laser, LD60-Laser....

Scanning probe: SP80, SP600M, SP25 ...

3 axis automatic probe: PH9, PH10T, PH10M...

Trigger: MCP, MH8, MH20i, RTP20, TP20, TP200...

Changer: MCR20, SCR200, FCR25-L3, FCR25-L6...

Other: MCG calibration gauge, rotary table, temperature sensor





Model		ENC-564	ENC-585	ENC-8106	ENC-8156	ENC-10128	ENC-10158
X,Y,Z travel (mm)		500x600x400	500x800x500	800x1000x600	800x1500x600	1000x1200x800	1000x1500x800
Useable table size (mm)		1100×800	1300×800	1710×1030	2210×1030	2000×1250	2300×1250
Weight (kg)		1200	1400	1800	2260	2800	3500
Worktable max load (kg)		500	500	1000	1000	1500	1500
Scale resolution		0.5 μm (0.1 μm for option)					
Probe uncertainty (MPEE) μm	TP20	2.6		2.8		3.2	
	TP200	2.2		2.4		2.8	
Space uncertainty (MPEP) μm	TP20	2.4+L/300		2.6+L/300		3.0+L/300	
	TP200	2.2+L/300		2.4+L/300		2.8+L/300	
Joystick mode Vmax		0-20 mm/s (slow speed mode), 0-100 mm/s (normal mode)					
CNC mode Vmax		Single axis 300 mm/s, space 520 mm/s					
CNC mode Amax		Single axis 900 mm/s2, space 150 mm/s2					

Working temperature	15-30°C
Air supply	Pressure 4-10 bar, 160NI/min

Model		ENC-10208	ENC-121510	ENC-122010	ENC-122510	ENC-123010
X,Y,Z travel (mm)		1000x2000x800	1200x1500x1000	1200x2000x1000	1200x2500x1000	1200x3000x1000
Useable table size (mm)		2800×1250	2350×1500	2850×1500	3350×1500	3850×1500
Weight (kg)		4200	4500	5000	6000	7000
Worktable max load (kg)		1800	2000	2000	2500	2500
Scale resolution		0.5 μm (0.1 μm for option)				
Probe uncertainty (MPEE) μm	TP20	3.2	3.6			
	TP200	2.8	3.2			
Space uncertainty (MPEP) μm	TP20	3.0+L/300	3.4+L/300			
	TP200	2.8+L/300	3.2+L/300			
Joystick mode Vmax		0-20 mm/s (slow speed mode), 0-100 mm/s (normal mode)				
CNC mode Vmax		Single axis 300 mm/s, space 520 mm/s				
CNC mode Amax		Single axis 900 mm/s ² , space 150 mm/s ²				
Working temperature		15-30°C				
Air supply		Pressure 4-10 bar, 160NI/min				