

# MINI CNC CMM(SHOP FLOOR TYPE) CODE CMM-MN432

ATTENTION: ROTATION OF  
PORBE HEAD IS MANUAL

Can be used in shop floor, with the following features:

- Suitable for wide temperature range
- Water and oil resistance
- Compact design, small size
- Three sides open, easy to load and unload
- Without compress air
- Easy installation



CMM-MN432

## FEATURES

- Integrated control system, safe, reliable and easy to operate
- High precision linear guide rail and ball screw for three axes

## CONTROL SYSTEM(MADE IN GERMANY)

- Duplexing computers control system
- Driven by DC servo motor, moves at T-curve or S-curve speed
- Adapt continuous motion trajectory interpolation control technology to optimize the integration of measurement trajectories, and automatically generate reasonable measurement trajectories
- Provide multiple security methods, fault self-diagnosis and error correction function
- The control system supports communication with CNC, and can use G code and M code
- The control system has 12 buttons for customize

## NET-DMIS SOFTWARE

- Can measure straightness, flatness, circularity, cylindricity, profile of a line, profile of a surface, perpendicularity, parallelism, angularity, coaxiality, concentricity, symmetry, position, composite position, circular runout, total runout
- Modular software structure, can support: temperature compensation, turntable, I/O interface
- Can program in offline mode and do virtual measurement based on CAD model, can extract the element features of CAD for programming
- Support dynamic point measurement and import DMO theoretical point coordinates for vector point measurement
- Can import and convert CAD model(SAT, IGES, STEP, STL)
- Can select multi language, metric and imperial, polar and straight coordinate system
- Have multiple export ways: export measured data (SAT, IGES, STEP), report windows (PDF, HTML, MHT, RTF, EXCEL, CSV, txt, images, WORD, etc.), custom EXCEL template
- Support uploading the measuring result to server

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### SPECIFICATION

Code	CMM-MN432
Measuring range	400×300×200mm
Resolution	0.4μm
Indication error (L is measuring range in mm)	±(4.5+L/200)μm(15°C~30°C) ±(5.5+L/200)μm(10°C~40°C)
Probe error	±5μm
Temperature	10°C~40°C
Humidity	40~60%
Power	220V±10%, 50Hz
Max load	50kg
Dimension(L×W×H)	1270×1110×1630mm
Weight	280kg

### STANDARD DELIVERY

Main unit		1pc
Probe system *	Probe Head	1pc
	Probe	1pc
	Styli **	1kit
Calibration system	Datum sphere(Ø25mm)	1pc
	Pivot pillar	1pc
Computer system	Computer	1pc
	Printer	1pc
Software		1pc

### PROBE(included) SPECIFICATION

Probe head	Angular movement with horizontal axis	0°~90° in 15 steps
	Angular movement with vertical axis	±180° in 15 steps
	Control mode	Manual
	Number of positions	168
	Probe mounting	M8
Probe	Weight	210g
	Detect direction	±X, ±Y, +Z
	Styli mounting	M2
	Rating life	>1000,000 times
	Weight	22g

### EXTENSIONS(included) SPECIFICATION

Code	Material	Stem diameter	Length	Quantity
SE7	stainless steel	Ø3mm	5mm	1pc
SE4			10mm	1pc
SE5			20mm	1pc
SE6			30mm	1pc

### STYLUS CENTER(included) SPECIFICATION

Code	Material	Center size	Effective working length	Quantity
SC2	stainless steel	7mm	7.5mm	1pc

### STYLUS(included) SPECIFICATION

Code	Material	Ball diameter	Length	Stem diameter	Effective working length	Quantity
PS23R	ruby ball / titanium	SØ1mm	20mm	Ø0.7mm	7mm	1pc
PS2R		SØ2mm		Ø1.4mm	14mm	1pc
PS16R		SØ3mm		Ø1.5mm	17.5mm	1pc
PS17R		ruby ball / stainless steel	SØ4mm	Ø1.5mm	20mm	1pc
PS8R			SØ2mm	Ø1mm	6mm	4pcs
PS1R		SØ3mm	10mm	Ø1.5mm	7.5mm	1pc

\*The probe system is Renishaw brand

\*\*The styli system include stylus, stylus center, extensions