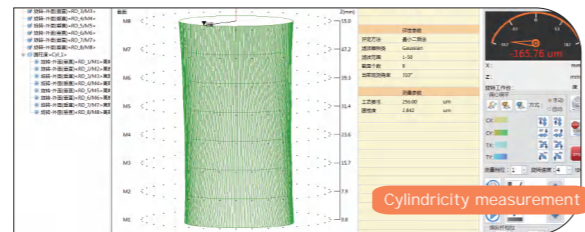
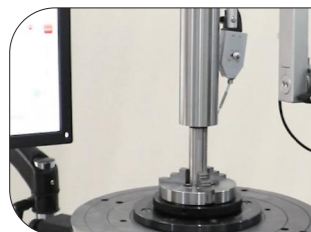
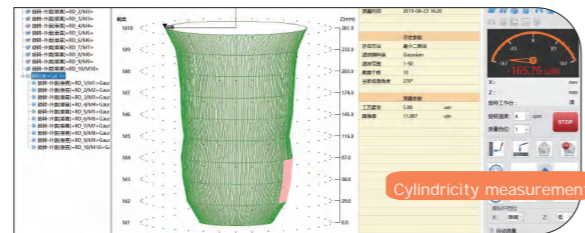
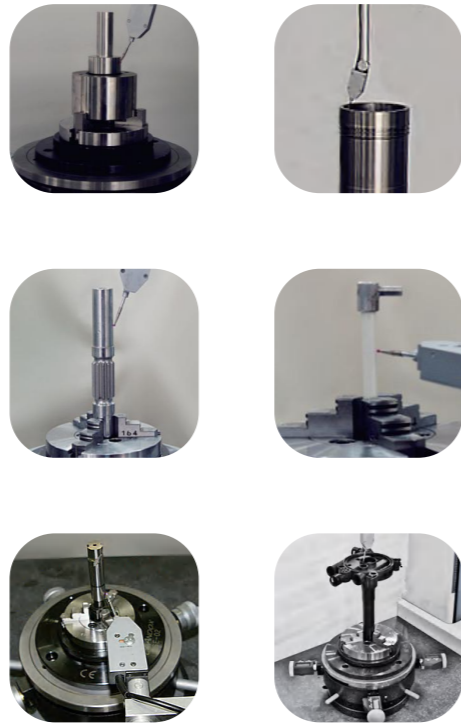


CA Series Roundness&Cylindricity Measurement Machine

- Accuracy $\pm 0.0125\mu\text{m}$
- Imported circular grating
- Light measuring force and high precision
- Air float column
- High precision without wear out
- Each circle collect 14400points



Measurement Functions

It can measure the roundness (column), straightness, runout, full runout, taper, diameter, concentricity, coaxiality, flatness, parallelism, perpendicularity, eccentricity, etc. of various regular and irregular ring-shaped workpieces

Surface waviness ($W_c, W_p, W_v, W_t, W_a, W_q$), spectrum analysis, and wave height analysis can be done.

Roundness Filter

1-500、1-150
1-50、1-15、15-500

Waviness Filter

3-16、17-100

Data Analysis and Processing

Spectrum analysis: analyze the amplitude of different frequency components

Abnormal data rejection: manual or automatic rejection of abnormal data, such as burrs, holes and bumps, etc. File management: automatic database saving of measurement data

Result printing: can be printed routinely or exported as PDF file

Roundness Eva

Minimum area method, least squares method
Minimum external circle method, maximum internal tangent circle method

Technical Parameters

Item	Product Model			
	CA30	CA65	CA95	
Measure range	Parts max turn diameter	$\phi 320\text{mm}$	$\phi 420\text{mm}$	$\phi 420\text{mm}$
	Max measure height	300mm	400mm	500mm
	Max measure depth	Standard probe: 100mm(aperture < 36mm); Non-standard bracket can measure up to 300mm		
	Max load	25Kg	50Kg	100Kg
Air float main axis	Axial error	$\pm (0.025+0.0005H) \mu\text{m} \times$	$\pm (0.015+0.0003H) \mu\text{m}$	$\pm (0.0125+0.0003H) \mu\text{m}$
	Radial error	$\pm (0.025+0.0006X) \mu\text{m} \times$	$\pm (0.0125+0.0004X) \mu\text{m}$	$\pm (0.02+0.0004X) \mu\text{m}$
Worktable	Table diameter	$\phi 150\text{mm}$	$\phi 200\text{mm}$	$\phi 200\text{mm}$
	Adjust range	Adjust the eccentricity $\pm 3\text{mm}$; adjust the level $\pm 1^\circ$		
Parallelism between rotation axis and Z-axis guide	Straightness	$0.5\mu\text{m}/100\text{mm}$	$0.4\mu\text{m}/100\text{mm}$	
	Horizontal travel	$1.5\mu\text{m}/300\text{mm}$	$2\mu\text{m}/400\text{mm}$	$2.5\mu\text{m}/500\text{mm}$
Sensor	Measuring range	500 μm (radius differential)		
	Stylus form	2mm ruby probe (1mm, 0.5mm stylus available)		

The above table parameters are the default configuration, if you need other configurations can be optional according to the order.

\times H: measuring height from table.
 \times X: measuring radius.