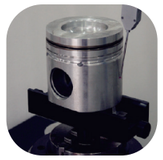
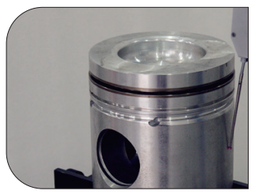
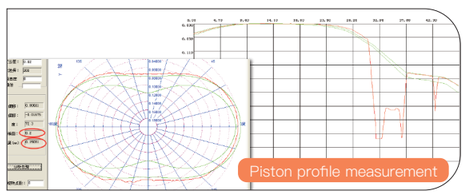
CV

CV SERIES

PISTON PROFILE MEASURING INSTRUMENT







FUNCTION

- Piston outer circle: ovality of cross section, profile of longitudinal section
- Piston pin hole: roundness, cylindricity, eccentricity and ring groove angle of unilateral pin hole
- Piston profile curve and ovality
- Waviness analysis, spectrum analysis, automatic notch/burr removal, waveform analysis, harmonic analysis
- Workpiece roundness, cylindricity, coaxiality, concentrici–ty, runout, parallelism, flatness, perpendicularity, etc

DATA ANALYSIS AND PROCESSING

Spectrum analysis: analyze the amplitude of different frequency components

Removal of abnormal data: remove abnormal data manually or automatically, such as burrs, holes and bulges

File management: measurement data is automatically saved and can be deleted

Result printing: it can be used for regular printing or exported to PDF file

TECHNICAL PARAMETER

Item		Model	
		CV400	CV500
Measuring range	Maximum workpiece rotation diameter	ϕ380mm	ϕ500mm
	Maximum measuring height	400mm	
	Maximum measuring depth	Use standard probe: 100mm (when the aperture is less than 36mm); The maximum measurable diameter of non–standard support is 300mm (optional if the aperture is greater than 36mm)	
	Maximum bearing capacity	50kg	100kg
Air floating spindle	Axial error of spindle	± (0.025+0.0005H) μm ※	± (0.0125+0.0003H) μm
	Radial error of spindle	± (0.025+0.0006X) μm ※	± (0.02+0.0004X) μm
Workbench	Table diameter	ϕ200mm	
	Adjustment range	Centering ± 2mm; Leveling ± 1 °	
Z–axis straightness		0.5μm/100mm	
Parallelism of rotation axis and Z–axis guide rail		2μm/400mm (Bus reference)	
Horizontal arm	Moving accuracy	2μm/150mm	
	Horizontal stroke	200mm	270mm
Sensor	Range	500μm (Radius difference)	
	Probe shape	ϕ 2mm gem ball probe (optionally available ϕ 1mm、 ϕ 0.5mm measuring probe)	

The parameters in the table above are default configurations.
If other configurations are required, they can be selected according to the order number

※ H: Measuring height from the table、X: Measuring radius