ROUNDNESS/CYLINDRICITY TESTER
CODE RCT-500

- Automatic centering and leveling
- Capable of measuring heavy, large components such as spindle bushings, shaft cores, gear shafts, crankshafts, and other long shaft components
- Evaluation items
  -Cylindricity module: cylindricity, radial full run, coaxiality, taper, radius
  -Roundness module: roundness, concentricity, radial single jump, wall thickness difference
  -Straightness module: straightness, parallelism, squareness
  -Single section flatness module: single section flatness, axial single hop, perpendicularity, parallelism
  -Multi-section flatness module: multi-section flatness, parallelism, axial full runout, perpendicularity
  -Commutator module: monolithic bounce, immediate bounce, interval difference
- Analytical ability
  -Cylindricity function: 2-10 sections, 3 evaluation methods
  -Reference benchmarks for cylindricity evaluation: LSCY, MZCY, MICY, MCCY, OSCY
  -Reference circle for roundness evaluation: LSC, MZC, MIC, MCC
  -Measurement band: 1-15upr, 1-50upr, 1-150upr, 1-250upr, 1-500upr, 15-100upr, 15-500upr, 2-15upr, 1-1500upr, custom
  -Notched measurement



SPECIFICATION

Probe	measuring range	±500μm
	resolution	0.001μm
Ruby stylus	size	Ø2x10mm
	direction	two directions
	adjustable angle	±45°
X axis	travel	225mm
	excess range	25mm
	drive mode	motor
	moving speed	(0.1~20)mm/s
Z axis	measuring range	800mm
	straightness	0.3μm/100mm
	movement speed	(0.1~30)mm/s
	movement mode	motor
Detector	acquisition device	circular grating
	circumferential sampling points	14400
Rotary stage	rotation accuracy	(0.05+6H/10000)μm for H≤20mm, H is the measuring height in mm
	rotation speed	6rpm
	max. measuring diameter	320mm
	max. workpiece diameter (rotation diameter)	500mm
Automatic adjustment stage	workbench diameter	300mm
	adjustment range of center	±3mm
	adjustment range of level	±1°
	weight capacity	80kg
Precision chuck	external grip diameter	Ø1~Ø81mm
	internal grip diameter	Ø31~Ø70mm
Air filter	pressure range	0~0.8MPa
	oil mist removal accuracy	0.01μm
	export oil mist concentration	0.5mg/m³
Dimension (L×W×H)		1450×765×2200mm
Power supply		220V±10%, 50Hz
Power		500W
Net weight		1350kg



air filter (included)



standard block (included)



column adjusting rod (included)



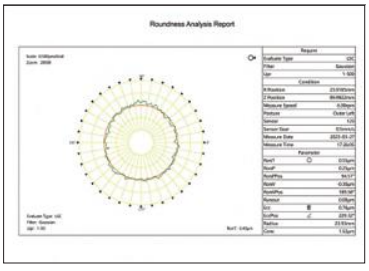
precision chuck (included)

STANDARD DELIVERY

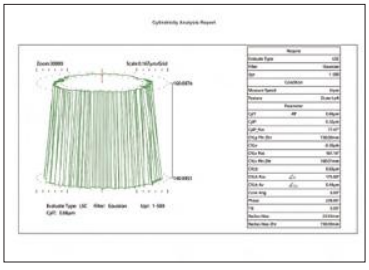
Main unit	1 pc
Probe (with ruby stylus)	1 pc each
Standard block	1 pc
Column adjusting rod	1 set
Precision chuck	1 pc
Automatic adjustment stage	1 pc
Roundness cylindricity acquisition and analysis system	1 set
Air filter	1 set
Dryer	1 pc
Computer	1 pc
Printer	1 set
Installation tools	1 set

OPTIONAL ACCESSORY

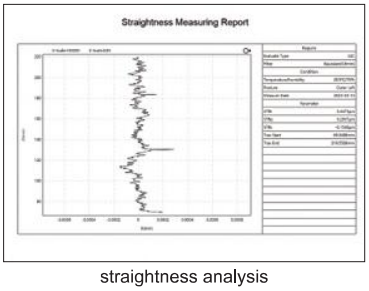
Probes	see below details
Precision chucks	see below details



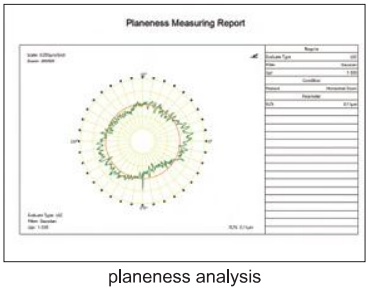
roundness analysis



cylindricity analysis

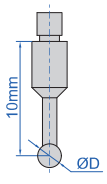


straightness analysis



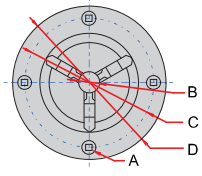
planeness analysis

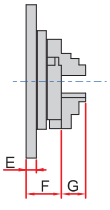
SPECIFICATION OF PROBES



Code	Diameter (ØD)	Remark
RCT-RA260-T1	2mm	included
RCT-RA260-T2	0.5mm	optional
RCT-RA260-T3	1mm	optional
RCT-RA260-T4	4mm	optional
RCT-RA260-T5	8mm	optional

SPECIFICATION OF PRECISION CHUCKS





(mm)

Code	A	B	C	D	E	F	G	Clamping range		Remark
								external grip dia.	internal grip dia.	
RCT-RA260-C1	M5x0.8	16	100	118	8	28	13	Ø0.8~63	Ø23~58	optional
RCT-RA260-C2	M6x1.0	20	116	143	10.5	37	15	Ø1~81	Ø31~70	included
RCT-RA260-C3	M6x1.0	26	140	168	10	39	19	Ø1~100	Ø36~90	optional