

Tailored to Machine Tool and Automobile Part Production Floors

RONDCOM 72A/71C



RONDCOM 72A

Features

- Highest in class rotation accuracy of 0.06 μm.
- Auto centering/tilting functions.
- Incorporates fully automatic 7-axis control function.
- Fully automated, from auto centering to measurement.
- Achieves high-speed processing of cylindrical profile data.
- Load curve, amplitude distribution curve, power graph, Fourier analysis and other functions facilitate powerful surface analysis.
- Roundness evaluation methods can be combined for analysis.



Crankshaft measurement

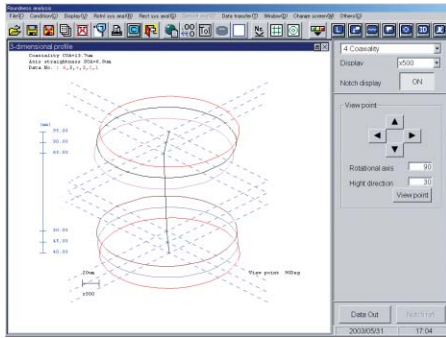
Features

- Ideal for cylindrical analysis of different medium-sized workpieces.
- TIMS next-generation integrated program simplifies connection to LAN.
- Standard auto centering function.
- Semi-automatic measurement possible by specifying height.

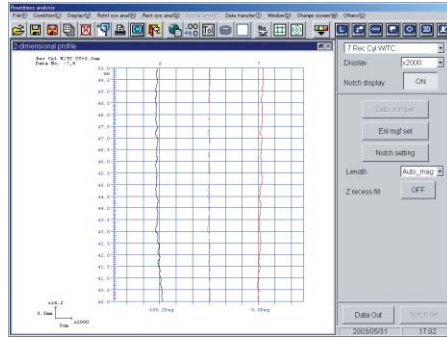


RONDCOM 71C-70

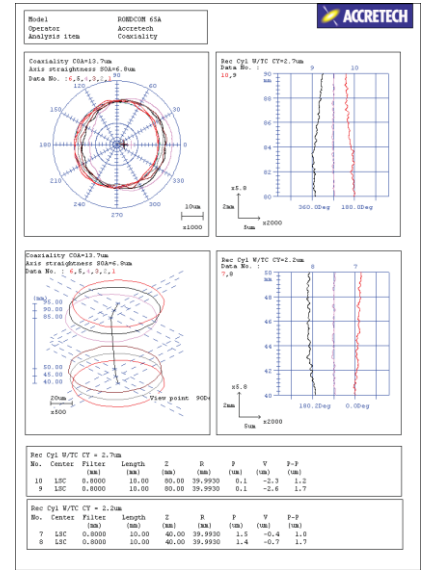




Coaxiality display



Cylindricity display



Data sheet

Specifications

Model		RONDCOM 72A	RONDCOM 71C-70	RONDCOM 71C-10
Measuring range	Max. measuring diameter	φ450 mm		φ380 mm
	Min. measuring ID	Filler diameter +2mm or more		
	Left/down feed range (X axis)	600 mm		20 mm
	Front/rear feed range (Y axis)	50 mm	20 mm	
	Up/down feed range (Z axis)	1000 mm	700 mm	460 mm
	Max. load diameter	φ900 mm	φ520 mm	φ400 mm
Rotation accuracy (JIS B7451)		0.06 μm	0.08 μm (During arm operation)	
Straightness accuracy		2μm/200mm, 5μm/600mm		2μm/200mm (During arm operation)
Parallellness accuracy	Up/down direction (Z axis)	2μm/100mm		3μm/100mm
Drive speed	Rotation direction	2/min (measuring), 10/min (auto centering)		4/min (measuring), 10/min (auto centering)
	Up/down direction	0.6, 1.5, 6 mm/s (measuring), Max. 30mm/s		0.6, 6 mm/s
Table load conditions	Table dimensions	600 (W) × 550 (D) mm	600 (W) × 540 (D) mm	460 (W) × 400 (D) mm
	Load weight	200 kg		80 kg
Detector	Measuring force	70 mN	Arm a: 170 mN, Arm b: 85 mN	
	Stylus profile	φ1.6mm carbide ball		
Roundness evaluation of profile error MZC (min. range center line method), LSC (min. square center line method), MIC (max. inscribed circle center line method), MCC (min. circumscribed circle center line method), N.C. (no correction)				
Measuring items	Rotation direction	Roundness, flatness, parallelness, concentricity, coaxiality, cylindricity, diameter deviation, non-uniformity, squareness, run-out		
	Up/ down direction	Straightness, taper, cylindricity, squareness, parallelness		
Functions		CNC measuring function, auto tilting function	Semi-automatic measurement	
Auto centering function, notch processing function (level, angle, cursor), parameter design value collation function, real-time display function, centering support function				
Types of filters Digital filters (2RC, phase compensation)				
Cut-off value	Rotation direction	15, 50, 150, 500, 15 – 150, 15 – 500 peaks/rotation		
	Rectilinear direction	0.025, 0.08, 0.25, 0.8, 2.5 or 8mm		
Display unit	Monitor	Color monitor (15 inch)		
	Content	Measuring conditions, measuring parameters, profile drawing (expansion plan, 3D plan, shading) Printer output conditions, comments, error message, etc.		
Recording unit	Method	Select color printer or laser printer		
	Magnification	10 – 200 K, Auto, measuring magnification		
Power source		AC 100V, 50/60 Hz		
Power consumption		3 kVA	1 kVA	
Air source		0.5 – 0.7 MPa, 30 ℓ /min		0.5 – 0.7 MPa, 90 ℓ /min
Installation dimensions (W × D × H)		2850 × 3300 × 3000	3100 × 2500 × 2500	2200 × 2400 × 2100
Weight		3100kg	1700kg	1300kg