



Maximum load capacity: 250 kg Maximum measurement diameter: Φ 580 mm Maximum measurement height 900 mm (standard specification) Optimum for measurement of large spindles and other applications requiring ultrahigh precision measurement

RONDCOM 65A-LH is a reference machine for instruments of this size, boasting the world's highest level accuracy.

It is a large roundness measuring instrument based on the design concept of R65A having the world's highest class accuracy equipped with a platform redesigned from scratch.

RUDCOMESIA

World best precision (Large-size table rotating type)

Rotation accuracy Straightness accuracy 0.08 + 6H/10,000 μm Z = 1.0 μm/900 mm Z = 0.2 μm/100 mm

Newly Developed Air Bearing Used for θ-axis

Mobile Operation Panel for Easy Operability

The operation panel, which is independent of the instrument body, can be arranged in a variety of layouts, making it especially convenient for measurement of large workpieces.

Built-In Vibration Isolation Stand

Gabbro is used for the base, column and R-axis.

As its secular change is very little, it can maintain the capability for a long period of time.

Offset CNC Detector Holder patented

The offset CNC detector holder can change the detector direction automatically, which results in complete CNC measurement, enabling continuous automatic measurement of inner and outer diameters and top and bottom surfaces. The holder is an offset type and detector is long stylus specification, it does not have the interference to R-axis arm, and it becomes easy to measure even in frange or a thickness work.



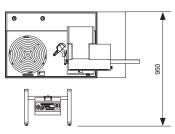


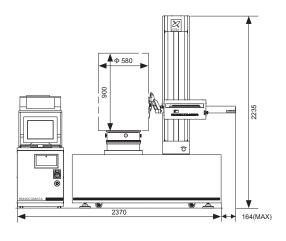
RONDCOM 65A-LH



External view







Model			RONDCOM 65A-LH
Measuring system			CNC and manual
	Max. measuring diameter		Φ 580 mm
Measuring range	Right/left feed range (R-axis)		343 mm
	Up/down feed range (Z-axis)		900 mm
	Max. loading diameter		Φ 900 mm
	Max. measuring height		900 mm
	Max. measuring depth (Throat height)		190 mm
			(Limited by size of measuring diameter and combination of detector and stylus
Rotation accuracy	Radial direction JIS B 7451-1997		(0.08 + 6H/10,000) μm
			(H: Height from table top to measuring point mm)
Straightness accuracy	Up/down	Narrow range	0.2 μm/100 mm
	(Z-axis) direction	Wide range	1.0 μm/900 mm
	Radial direct	ion (R-axis)	1.0 μm/200 mm
Parallelism	Up/down direction (Z-axis)		3.6 µm/900 mm
accuracy	Radial direction (R-axis)		2 µm/200 mm
Scale indication	Radial direction (R-axis)		(2 + L/220) μm L: Moving length mm
accuracy	Rotational speed		0.6 to 6/min
Measuring speed	(θ-axis)		(At moving: Max 6/min)
	In automatic centering/tilting		2, 4, 6/min
	Up/down speed (Z-axis)		0.6 to 6 mm/s (At moving: Max 30 mm/s)
	Radial direction speed (R-axis)		0.6 to 6 mm/s (At moving: Max 20 mm/s)
Auto stop accuracy	Z-axis/R-axis		±5 µm
Rotary table	Table outside diameter		Φ 400 mm
	Adjustment range of centering/tilting		±5 mm/±1°
	Load		250 kg
Detector	Measuring force		30 to 100 mN (steplessly variable)
Detector	Stylus shape		Φ 1.6 mm carbide ball, Length 90.5 mm
Number of sampling			14,400 points/rotation
Type of filter Digital filter			Gaussian/2RC/Spline/Robust (Spline)
Measurement magnification			50 to 100 k
Cutoff value	Rotational Low pass		15, 50, 150, 500, 1500 peaks/rotation,
	direction (θ-axis)		settable any value in range 15 to 1500 peaks/rotation
		Band pass	1 to 1500 peaks/rotation
	Rectilinear direction (Z-axis)	Low pass	0.025, 0.08, 0.25, 0.8, 2.5, 8 mm (any value in 0.0001 mm units)
Roundness evaluation of form error			MZC (min. zone circle method), LSC (least square circle method), MIC (max. inscribed circle method), MCC (min. circumscribed circle method), N.C. (no compensation), MULTI (multiple setting)
Measuring items	Rotational direction		Roundness, flatness, flatness (compound), parallelism, concentricity, coaxiality, cylindricity, diameter deviation, squareness, thickness variation, run-out, radius measurement, partial circle
	Rectilinear direction		Straightness (Z), straightness (R), taper ratio, cylindricity, squareness, parallelism, diameter deviation, axis straightness
Analysis processing functions			Notch function (level, angle, cursor), combination of roundness evaluation methods, nominal value collation, cylinder 3D profile display (line drawing, shading, contour line), real-time display, profile characteristic graph display (bearing area curve, amplitude distribution function, power spectrum), CNC automatic measuring function, automatic centering/tilling adjustment function
Special function			Offset type CNC detector holder
Display (color monitor)			17" LCD
Display items			Measuring conditions, measuring parameters, comments, printer output conditions, profile graphics (expansion plan, 3D plan), error messages, etc.
Recording system			Color or laser printer can be selected
Other	Power supply (Voltage to		AC100 to 240 V ±10%, 50/60 Hz (grounding required)
	be specified), frequency Power consumption		Approx. 800 VA (except printer)
	i ower const	Supply pressure	0.6 to 0.8 MPa
	Air supply	Working	
		pressure	0.5 MPa
		Air consumption volume	49 NL/min
		Air supply connecting nipple to main unit	One-touch pipe joint for outer diameter Φ 8 mm hose
	Installation dimensions (W x D x H) mm		2300 x 950 x 2235
	mataliation unichai		
	Weight (exce	. ,	1480 kg

We have experience in special customization in terms of expanding strokes for each axis, load capacity, etc. Contact the sales personnel for details.

