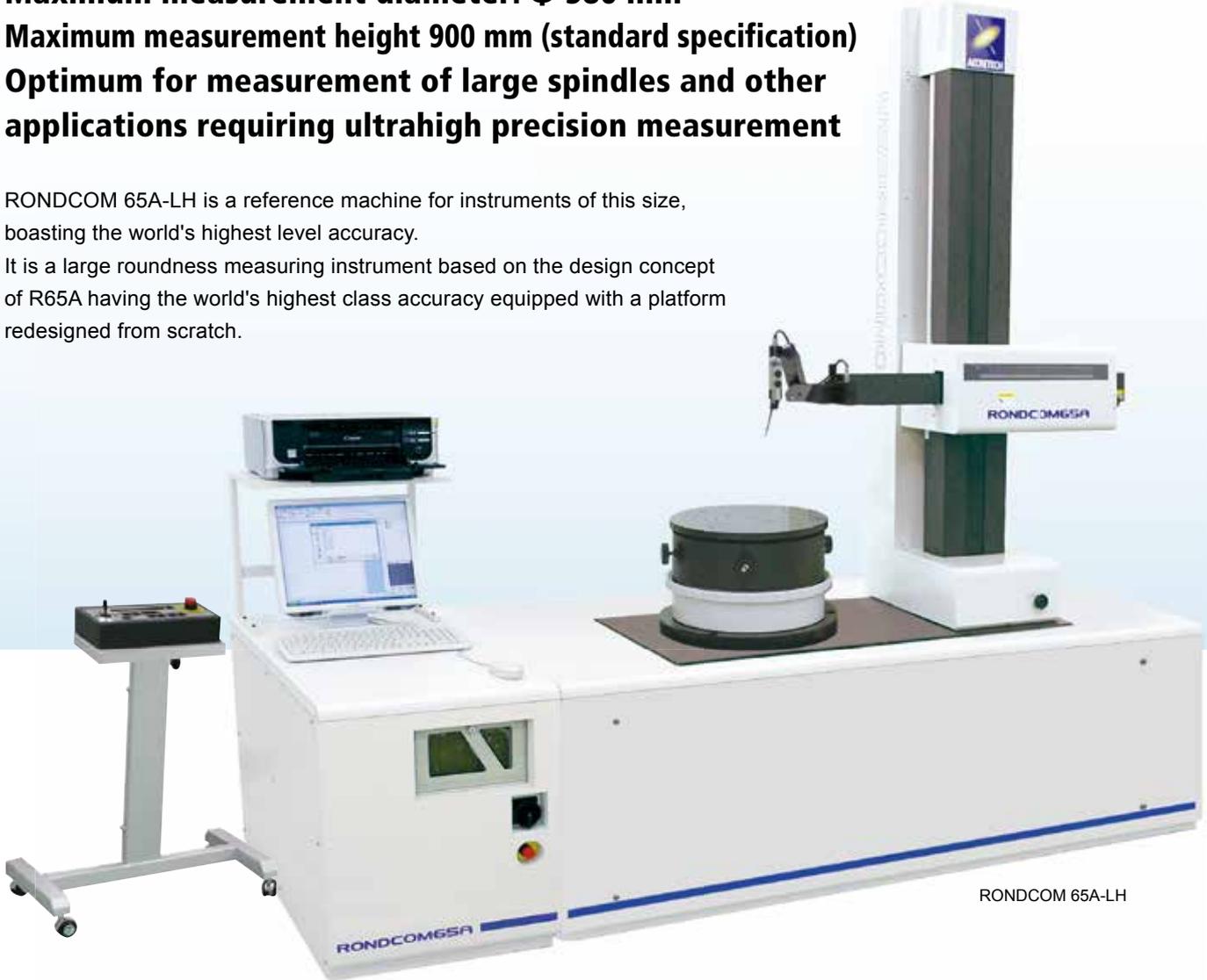




RONDCOM 65A-LH

- Maximum load capacity: 250kg**
- 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.



RONDCOM 65A-LH

World best precision (Large-size table rotating type)

Rotation accuracy	0.08 + 6H/10,000 μ m
Straightness accuracy	Z = 1.0 μ m/900 mm
	Z = 0.2 μ m/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.

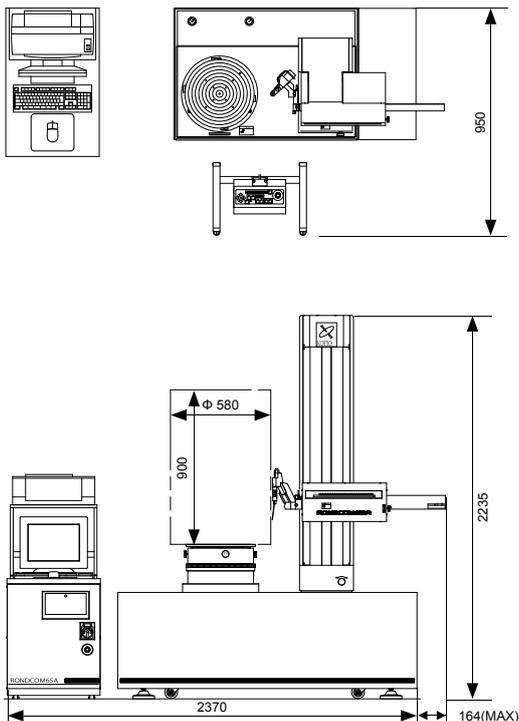




Specifications

Model		RONDCOM 65A-LH		
Measuring system		CNC and manual		
Measuring range	Max. measuring diameter	Φ 580 mm		
	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		
Rotation accuracy	Max. measuring depth (Throat height)	190 mm (Limited by size of measuring diameter and combination of detector and stylus)		
	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 (Z-axis) direction	Narrow range	0.2 μm/100 mm	
		Wide range	1.0 μm/900 mm	
	Radial direction (R-axis)	1.0 μm/200 mm		
Parallelism accuracy	Up/down direction (Z-axis)	3.6 μm/900 mm		
	Radial direction (R-axis)	2 μm/200 mm		
Scale indication accuracy	Radial direction (R-axis)	(2 + L/220) μm L: Moving length mm		
Measuring speed	Rotational speed (θ-axis)	0.6 to 6/min (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)		
	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 direction (θ-axis)	Low pass	15, 50, 150, 500, 1500 peaks/rotation, 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/tilting adjustment function		
Special function		Offset type CNC detector holder (option)		
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 be specified), frequency	AC100 to 240 V ±10%, 50/60 Hz (grounding required)		
	Power consumption	Approx. 800 VA (except printer)		
	Air supply	Supply pressure	0.6 to 0.8 MPa	
		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		
Weight (except options)	1480 kg			

External view



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