



# RONDCOM 73A

Dedicated catalog is available.

## World standard instrument of highest-in-class accuracy applicable to downsized parts

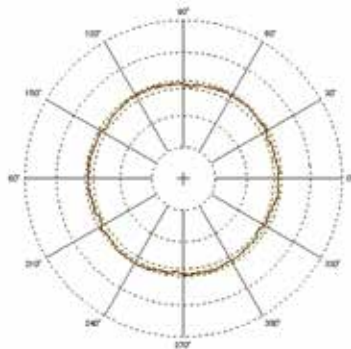
- Highest accuracy in its class
- Small footprint, but wider measuring range
- Energy-saving design (Less air consumption)

RONDCOM 73A  
\*Printer and System racks are optional.



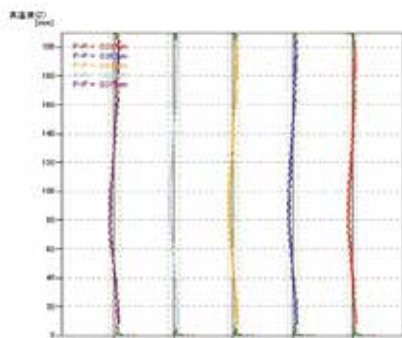
## Assures rotation accuracy of 0.06µm at rotation speed of 4/min

With a rotation speed of 4/min (twice as fast as existing instruments) and rotation accuracy guaranteed at 0.06 µm (a long shaft measuring tool: 0.6 µm) which is the highest in its class, the RONDCOM 73A dramatically increases measuring throughput.



## High Straightness/Parallel Accuracy (Actual Values)

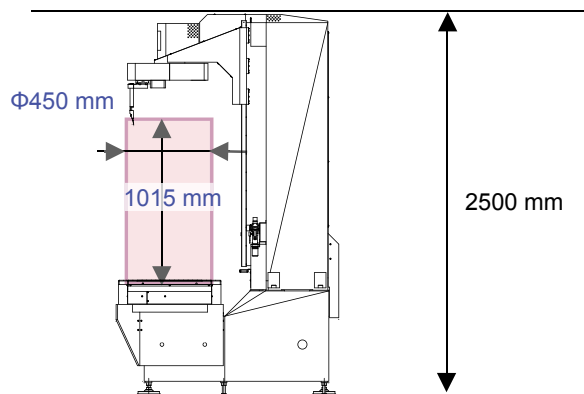
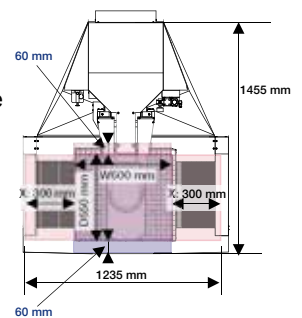
RONDCOM 73A guarantees Z-axis straightness accuracy of 0.9 µm/200 mm or less which is the highest in its class. Z-axis parallelism is 0.9 µm/100 mm or less which is also the highest in its class.



Data shows an example when measuring with H: 0 to 200 mm

## Smaller Footprint

RONDCOM 73A achieved a 27% reduction of width and a 24% reduction of footprint X-axis stroke of 600 mm has been ensured while significantly downsizing the instrument body. In addition, Y-axis stroke has been extended to 120 mm. Z-axis stroke of 1015 mm has been ensured although the instrument body is only 2500 mm high.



## Safety Device and Auto Balancing Mechanism on R-axis

Provided as standard, the detector holder safety device identifies a collision between a workpiece and a detector. An auto balancing mechanism is also provided on the R-axis, so there is no need to adjust a counterweight to accommodate different measuring diameters.

### R-axis Feed Range: 265 mm

At 265 mm, the R-axis feed range is the widest in its class (equivalent to our existing instruments). This eliminates the need to change detector positions to accommodate different measuring diameters.

### Adaptive to Higher Accuracy Requirements (Optional)

### Pneumatic Vibration Isolation Stand Available (Optional)

### Adaptive to 400 kg Loading (Optional)

### All Orientation Detector May be Provided (Optional)

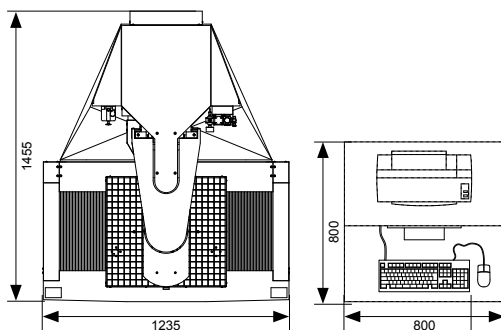
### Manual Feed Mechanism Available for Each Axis (Optional)

## Specifications

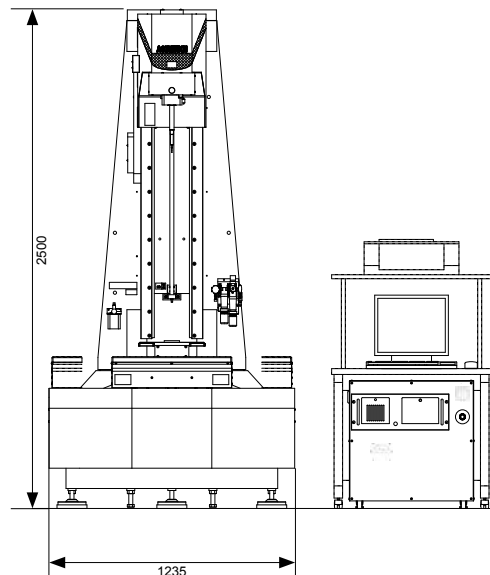
Model		RONDCOM 73A
Measurement range	Max. measuring diameter	Φ 450 mm
	Maximum measurement height	1015 mm (with standard detector) 630 mm (with 620 mm long shaft measuring tool)
	Maximum load diameter	Φ 900 mm
	Right/left feed range (X-axis)	600 mm (±300 mm)
	Forward/backward feed range (Y-axis)	120 mm (±60 mm)
	Up/down feed range (Z-axis)	1000 mm
	R-axis feed range	265 mm
Table dimensions		600 mm (W) x 550 mm (D)
Max. permissible loading weight		200 kg (optional: 400 kg)
Position of center gravity of workpiece		Within the range of Φ 200 mm of table
Tilting adjustment range		2° (±1°)
X-axis driving speed		Max 30 mm/s
Y-axis driving speed		Max 30 mm/s
Radial rotation accuracy		0.06 μm (with standard detector) 0.6 μm (with 620 mm long shaft measuring tool)
Axial rotation accuracy (Measuring radius: 50 mm)		0.2 μm (with standard detector) 0.4 μm (with 620 mm long shaft measuring tool)
θ-axis rotational speed		1 to 6/min (at measuring) Max 10/min
Z-axis straightness accuracy		0.9 μm/200 mm (with standard detector)
Parallelism (Up/down direction: Z-axis)		0.9 μm/100 mm
Z-axis driving speed		0.6 to 6 mm/s (at measuring) Max 30 mm/s
R-axis driving speed		Max 30 mm/s
Software		ACCTee
Measuring unit dimensions		1235 mm (W) x 1455 mm (D) x 2500 mm (H)
Control unit dimensions		800 mm (W) x 800 mm (D) x 1400 mm (H)
Table surface height		760 mm
Measuring unit weight		1500 kg
Control unit weight		100 kg
Voltage		AC100 to 240 V ±10% 50/60Hz
Power consumption		1000 VA (except printer)
Air supply	supply pressure	0.35 to 0.7 MPa
	Working pressure	0.3 MPa
	Air consumption	30 NL/min
	Air supply connecting nipple to main unit	One-touch pipe joint for outer diameter Φ 8 mm hose

## External view

Standard layout (Top view)



Front view



Side view

