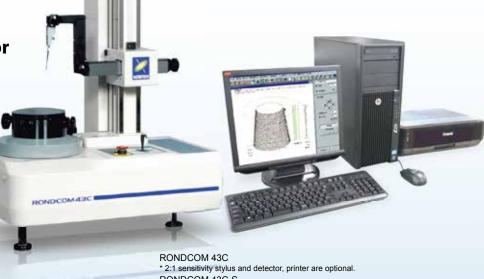




RONDCOM 43C/43C-5/41C/31C





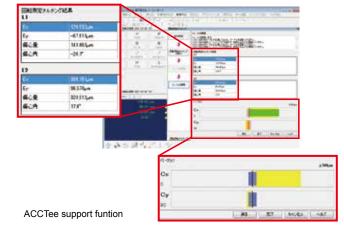
- **RONDCOM 43C-S**
- Printer is optional.





Centering/Tilting/Leveling Support Functions patented

Easily adjust eccentricity and tilt between the center of rotation and the center of the workpiece simply by adjusting the displacement to zero as indicated on the bar graph in the alignment display.



Semi-Automatic Measuring Function with Specification of Measuring Height

R-axis Scale for Small, High-Accuracy Workpieces (R43C-S)

R41C Supports High Column: Z = 500 mm (option)

All Orientation Detector (optional) May Be Provided

RONDCOM 31C

Printer is optional.

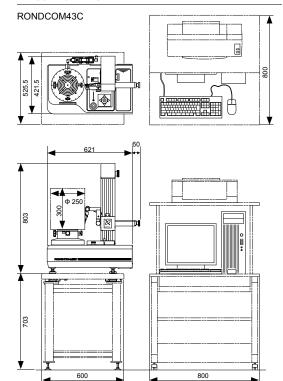
The detector expands the measuring range to ±1000µm and enables measuring force and front travel (stylus drop) adjustment.

RONDCOM 43C/43C-5/41C/31C

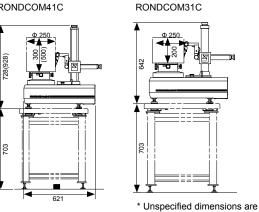
Why RONDCOM 31C can measure coaxially and concentricity without cylindrical and roundness measuring functions

RONDCOM 31C is not equipped with a Z-axis column that supports measurement of roundness and parallelism. Though this means that it is not equipped with cylindricity and straightness measuring functions, coaxiality and concentricity evaluation data is only the circle center data (center point) calculated from the roundness profile of each section. Since circle center data does not fluctuate in accordance with the size of or variations in the circumference, this means that the R31C also is capable of coaxiality and concentricity measurements of center point deviation.

External view







the same as R43C

Options Desktop anti-vibration table: E-VS-S57B Bench for desktop anti-vibration table: E-VS-S13A

System rack: E-DK-S24A

Specifications

Specifications							
Model			RONDCOM series				
iviodei			RONDCOM 43C-S RONDCOM 43C RONDCOM 41C RONDCOM 31C				
Measuring system			Manual				
Measuring range	Max. measuring diameter		Ф 200 mm		Ф 250 mm		
	Right/left fee (R-axis)	d range	100 mm		125 mm		
	Up/down feed range (Z-axis)	Standard		300 mm		200 mm	
		High column	500 mm		_		
	Max. loading	_	Ф 400 mm				
	Max. measuring	Standard	300 mm		•	200 mm	
	height (OD/ID*		300 111111		500 mm	200 111111	
	measurement)	ı	(0.00+611/4	- 10 000)			
Rotation accuracy	Radial directi		(0.02+6H/10,000) µm (0.04+6H/10,000) µm (H: Height from table top to measuring point mm)				
Straightness accuracy	Up/down direction (Z-axis)		0.25 µm/100 mm,		0.5µm/100 mm,	point mm)	
		Standard	0.8 µm/300 mm		1.5 µm/300 mm	_	
		High column	_		0.5 µm/100 mm, 2.5 µm/490 mm	_	
			0.2 µm/10 mm		2.5 µ11/490 111111		
Parallelism accuracy	Up/down	Standard	1.5 μm/300 mm 3 μm/300 mm		_		
	direction (Z-axis)	High column			1 μm/100 mm		
			(0.3+0.1L/10)		ι μιιν ισσ ιιιιι	_	
	Radial direct	ion (R-axis)	μm				
Rotational speed (θ-axis)			6/min				
Up/down speed (Z-axis)			0.6, 1.5, 3, 6 mm/s (Max 15 mm/s) (At moving: 15 mm/s max.) 5 mm/s				
			0.6, 1.5, 3, 6	Jving. 15 min/s			
Radial direction spee	ed (R-axis)		mm/s		5 mm/s		
Auto stop accuracy	Auto stop accuracy Z-axis/R-axis		±5		μm		
Rotary table	Table outside diameter		Φ 148 mm				
	Adjustment range of centering/tilting		±2 mm/±1°				
	Load		15 kg 25 kg			kn	
	Detection range,					9	
Detector	Measuring force		±400 μm/70 mN				
	Stylus shape		Φ 1.6 mm carbide ball				
	Stylus length		L54.5 mm L15.5 mm				
Type of filter	Digital filter		Gaussian/2RC/Spline/Robust (Spline)				
Cutoff value	Rotational direction	Low pass	15, 50, 150, 500 peaks/rotation, settable any value in range 15 to 500 peaks/rotation				
	(θ-axis) Band pass		1 to 500 peaks/rotation				
	Rectilinear		·				
	direction Low pass (Z-axis)		0.025, 0.08, 0.25, 0.8, 2.5, 8 mm (any value in 0.0001 mm units)				
Measurement magnification			50 to 100 k				
Roundness evaluation of form error			MZC (min. zone circle method),				
			LSC (least square circle method), MIC (max. inscribed circle method),				
Troundings evaluation of form end		MCC (min. circumscribed circle method),					
			N.C. (no compensation), MULTI (multiple setting) Roundness, flatness, parallelism, concentricity,				
Measuring items	Rotational direction		coaxiality, squareness, thickness variation, run-out				
			Cylindricity, diameter deviation —				
			Straightness (Z), taper ratio, cylindricity,				
		teetiiinear aireetieri		squareness, parallelism Centering/tilting support function, notch function (level,			
			angle, cursor), combination of roundness evaluation				
Analysis processing	functions		methods, nominal value collation, cylinder 3D profile display (line drawing, shading, contour line),				
, maryore processing	14110410110		real-time display, profile characteristic graph display				
			(bearing area curve, amplitude distribution function, power spectrum), semiautomatic measuring function				
Display (color monitor)			17" LCD				
			Measuring conditions, measuring parameters,				
Display items			comments, printer output conditions, profile graphics (expansion plan, 3D plan), error messages, etc.				
Recording system			Color or laser printer can be selected				
Power supply (Voltage to			AC100 to 120 V ±10%, AC220 to 240 V ±10%, 50/60 Hz				
Other	be specified), frequency		(grounding required)				
	Power consumption		600 VA (except printer)				
	Air supply	Supplypressure	0.35 to 0.7 MPa				
		Working pressure	0.3 MPa				
		Air consumption	30 NL/min				
		volume Air supply connecting					
		nipple to main unit	One-touch pipe joint for outer diameter Φ 8 mm hose		8 mm hose		
	Installation	Standard	1800 x 10	00 x 1800	1800 x 1000 x 1700	1800 x 1000 x 1700	
	dimensions (W x D x H) mm	High column			1800 x 1000 x 1900		
	Weight	Standard	130) kg	120) kg	
	(except options)	High column	-	-	140 kg	_	