



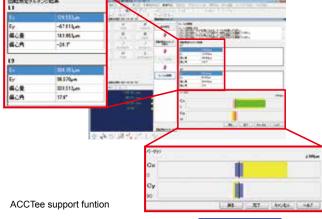
RONDCOM 43C/43C-5/41C/31C



Centering/Tilting/Leveling Support Functions

RONDCOM 41C Printer is optional.

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

RONDCOM 31C * Printer is optional.

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

R41C Supports High Column: Z = 500 mm

All Orientation Detector (optional) May Be Provided

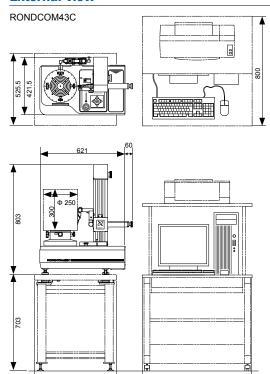
The detector expands the measuring range to ±1000µm and enables measuring force and front travel (stylus drop) adjustment.

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



RONDCOM41C

RONDCOM31C

* Unspecified dimensions are

Options the same as R43C Desktop anti-vibration table: E-VS-S57B Bench for desktop anti-vibration table: E-VS-S13A System rack: E-DK-S24A

Specifications

-			RONDCOM series			
1	Model		RONDCOM 43C-S	RONDCOM 43C		RONDCOM 31C
Measuring system				Manual		
	Max. measuring diameter		Ф 200 mm			
Measuring range	Right/left fee (R-axis)	d range	100 mm 125 mm			
	Up/down feed range (Z-axis)	Standard	300 mm 2		200 mm	
		High column	-	500 mm		_
	Max. loading diameter		Φ 400 mm			T
	Max. measuring height (OD/ID* measurement)	Standard High column	300 mm 500 mm		200 mm —	
Potation accuracy	Radial direct	ion	(0.02+6H/10,000) μm (0.04+6H/10,000) μ		10,000) µm	
Rotation accuracy	JIS B 7451-1	1997	(H: Height from table top to measuring point mm)			point mm)
Straightness accuracy	Up/down direction (Z-axis)	Standard	0.25 μm/100 mm, 0.8 μm/300 mm 0.5 μm/300 mm 0.5 μm/100 mm		_	
		High column	_		0.5 μm/100 mm, 2.5 μm/490 mm	_
	Radial direction (R-axis)		0.2 µm/10 mm			
Parallelism accuracy	Up/down	Standard	1.5 µm/	300 mm	3 µm/300 mm	_
	direction (Z-axis)	High column	-	_	1 µm/100 mm	_
	Radial direct	ion (R-axis)	(0.3+0.1L/10)		_	
Rotational speed (θ-axis)			μm 6/min			
Up/down speed (Z-axis)				8 6 mm/s (May 15 mm/s)		5 mm/s
Radial direction speed (R-axis)		0.6, 1.5, 3, 6 mm/s		5 mm/s		
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			
Detector	Detection range, 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	I	Gaussian/2RC/Spline/Robust (Spline)			
Cutoff value	Rotational direction (θ-axis)	Low pass Band pass	15, 50, 150, 500 peaks/rotation, settable any value in range 15 to 500 peaks/rotation 1 to 500 peaks/rotation			
	Rectilinear direction	Low pass	0.025, 0.08, 0.25, 0.8, 2.5, 8 mm			
(Z-axis)			(any value in 0.0001 mm units)			
Measurement magnification Roundness evaluation of form error			50 to 100 k 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, parallelism, concentricity, coaxiality, squareness, thickness variation, run-out			
			Cylindricity, diameter deviation — Straightness (7) taper ratio cylindricity			
	Rectilinear direction		Straightness (Z), taper ratio, cylindricity, squareness, parallelism			_
Analysis processing functions Display (color monitor)			Centering/tilting support function, 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), semiautomatic measuring function 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			
Other	Power supply (Voltage to be specified), frequency Power consumption		AC100 to 120 V ±10%, AC220 to 240 V ±10%, 50/60 Hz (grounding required) 600 VA (except printer)			
	Air supply		Supplypressure: 0.35 to 0.7 MPa, Working pressure: 0.3 MPa			
	Air consumption volume		30 NL/min			
	Installation dimensions (W x D x H) mm Weight	Standard	1800 x 10	000 x 1800	1800 x 1000 x 1700	1800 x 1000 x 1700
		High column	-		1800 x 1000 x 1900	
		Standard	130) kg	120) kg
	(except options)	High column	-	_	140 kg	_