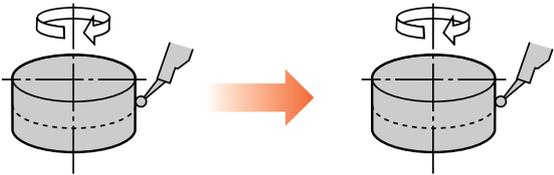


Compact Easy to Operate Roundness Measuring Instrument

Setting Procedure



Menus to set measuring, analysis, display and recording conditions



Viewing the eccentricity graph display during centering simplifies the procedure.

Measurement



Parameter values and measuring profile for roundness, coaxiality, cylindricality and squareness, etc.

Specifications

Model		RONDCOM 40C	RONDCOM 30C	
Measuring range	Max. measuring diameter	φ250mm		
	Left/right feed (R-axis)	125mm		
	Up/down feed (Z-axis)	300mm	200mm	
	Max. load diameter	φ400mm		
Max. measuring height	(Outer diameter)	520mm	420mm	
	(Inner diameter)	300mm	200mm	
Rotation accuracy	ISO 4291/JIS B7451 Max. deviation from min. square circle	(0.050+6H/10000)μm H: Height from table surface to measuring point [mm] (0.025+3H/10000)μm		
Straightness accuracy		0.5μm/100mm 1.5μm/300mm	-----	
Parallelism accuracy		3μm/300mm	-----	
Rotation speed (θaxis)		6/min		
Up/down speed (Z-axis)		0.6, 1.5, 3, 6 mm/s Rapid feed: Approx. 15 mm/s	5mm/s	
Radius speed (R-axis)		5mm/s		
Auto stop accuracy	Z-axis/R-axis	±1μm		
Rotating table	Table outer diameter	φ148mm		
	Centering adjustment range	±2mm		
	Tilting adjustment range	±1°		
	Load	25kg		
Detector	Linearity range	±400μm		
	Measuring force	70mN		
	Stylus shape	φ1.6mm carbide ball		
Roundness evaluation of profile error		MZC (min. range centerline method), LSC (least square centerline method), MIC (max. inscribed circle centerline method), MCC (min. circumscribed circle centerline method), N.C. (no correction)		
Measuring items	Circumferential direction (θaxis)	Roundness, flatness, parallelism, concentricity, coaxiality, cylindricality, diameter deviation, squareness, non-uniformity, run-out	Roundness, flatness, parallelism, concentricity, coaxiality, squareness, non-uniformity, run-out	
	Axial direction (Z-axis)	Straightness, cylindricality, squareness	-----	
Processing functions		Centering/tilting support function, All measurement function, notch processing function (level, angle), automatic eccentricity correction/tilt correction function, combination of roundness evaluation methods, pass/fail judgment function, automatic measurement		
Types of filters		2RC, phase compensation		
Cutoff values		15, 50, 150, 500, peaks/rotation		
Display		LCD panel		
Display items		Measuring conditions, measuring parameters, profile drawing, printer output conditions, comments, error messages		
Recording system		Thermal dot array (Recording width: 104 mm)		
Measuring magnification		50, 100, 200, 500, 1K, 2K, 10K, 20K, 50K		
Other	Power source	AC100V±10%, 50Hz/60Hz (must specify)		
	Power consumption	250VA		
	Air supply	0.3 - 0.7MPa		
	Air consumption	30Nℓ /min		
	Installation dimensions	1400 (W) × 900 (D) × 850 (H) mm	1400 (W) × 900 (D) × 750 (H) mm	
	Weight	120kg		
Standard accessories	Magnification calibration block gage, printing paper (E-CH-R06A), instruction manual			