



RONDCOM 65B

ENGLISH

NEW

Roundness and Cylindrical Profile  
Measuring Instruments

**RONDCOM 65B**



High-end roundness measuring machine

# RONDCOM 65B

## Features

### ■ High accuracy

Highest rotation accuracy in this class : 0.01  $\mu\text{m}$

### ■ High throughput

Centering and tilting within 60 second. It realize high efficiency and save total measuring time.

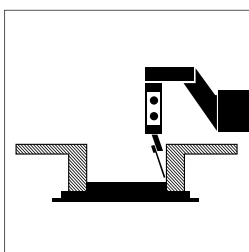
### ■ High reliability

Gabbro with minimal susceptibility to age-related deterioration is used in the column, base and arm which guarantee top-class high accuracy over time.

### Offset type detector holder (Optional) **PATENTED**

Various workpieces can be measured easily without interference from the R-axis arm. You can switch between outside diameter

measurement and top flatness measurement just by tilting the detector holder.

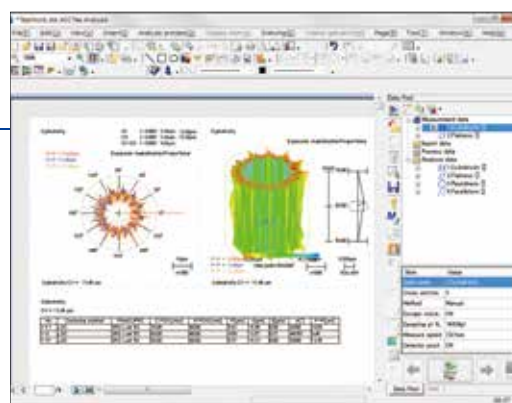
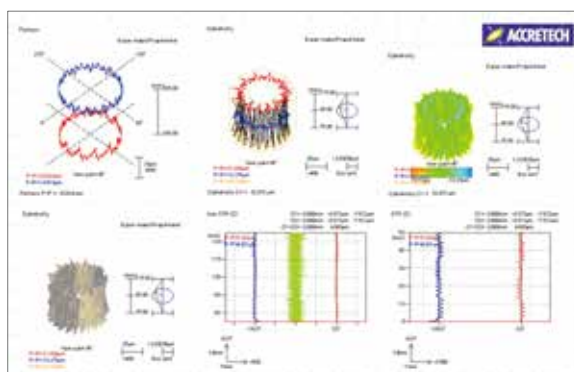


## Software



### Integrated Analysis Software ACCTee

New Measurement Style with New Concept

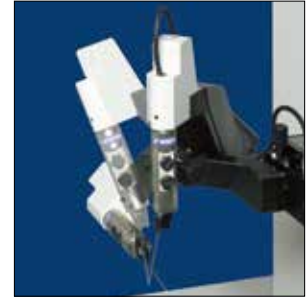


### Easy-to-Use Interface for Leading-Edge Operability

ACCTee is equipped with a Windows style user interface that is easy for anyone to understand and use. User-friendly and intuitive icons guide you through a series of operations from measurement to the printing of analysis results.

## Offset type CNC detector holder (Optional) **PATENTED**

Detector positioning for ID/OD measurements, top/under/ tapered surfaces measurements, and so on can be controlled automatically. The same detector is used with all standard type instruments and is also available after upgrades. Once you have both a standard model and the CNC holder model, maintenance costs are reduced.



## High accuracy

Ultra high precision air bearing in  $\Theta$ axis realize highest rotation accuracy in this class : 0.01  $\mu$ m



CNC detector holder (Optional)



Non contact sensor (Optional)

## Specifications

Model		RONDCOM 65B	
		High column	
Measuring system		CNC and manual	
Measuring range	Max. measuring diameter	$\Phi$ 420 mm	
	Up/down feed range (Z-axis)	500 mm	800 mm
	Radial feed range (R-axis)	220 mm	
	Max. loading diameter	$\Phi$ 680 mm	
	Max. measuring height	500 mm	800 mm
	Max. load capacity	600 N	
Rotation accuracy	Radial direction H: Measuring height (mm)	( 0.01 + 4H/10,000 ) $\mu$ m (Gaussian 15 UPR)	
	Axis direction R: Measuring radius (mm)	( 0.03 + 4R/10,000 ) $\mu$ m (Gaussian 15 UPR)	
Straightness accuracy	Up/down direction (Z-axis)	0.05 $\mu$ m/100 mm 0.2 $\mu$ m/500 mm	0.1 $\mu$ m/100 mm 0.5 $\mu$ m/800 mm
	Radial direction (R-axis)	0.5 $\mu$ m/200 mm	
Parallelism accuracy	Up/down direction (Z-axis)	1.5 $\mu$ m/500 mm	
Perpendicularity accuracy	Radial direction (R-axis)	0.5 $\mu$ m/200 $\mu$ m	
Move speed	Rotation speed (T-axis)	Max: 20/min 2 to 10/min (Rotational measurement)	
	Up/down direction speed (Z-axis)	Max: 30 mm/s 0.6 to 6 mm/s (Rectilinear measurement)	
	Radial direction speed (R-axis)	Max: 20 mm/s 0.6 to 6 mm/s (Rectilinear measurement)	
Rotary table	Table outside diameter	$\Phi$ 290 mm	
	Adjustment range of centering/tilting	$\pm$ 5 mm/ $\pm$ 1°	
Measuring range		$\pm$ 3200 $\mu$ m to $\pm$ 12.8 $\mu$ m ( x50 to x100 k)	
Special function		Offset type detector holder (Optional) Offset type CNC detector holder (Optional)	
Other	Power supply (Voltage to be specified)	AC 100 V to 240 V, 50/60 Hz (Grounding required)	
	Air consumption volume	49 NL/min	
	Installation dimensions (W x D x H) mm	1660 (W) x 950 (D) x 1800 (H)	1660 (W) x 950 (D) x 2100 (H)
	Weight (except options)	790 kg	910 kg

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