English

Form
Measuring Instrument

RONDCOM NEX Series

R-NEX α | Rs | Rs α

ACCRETECH | EUROPE

RONDCOM NEX

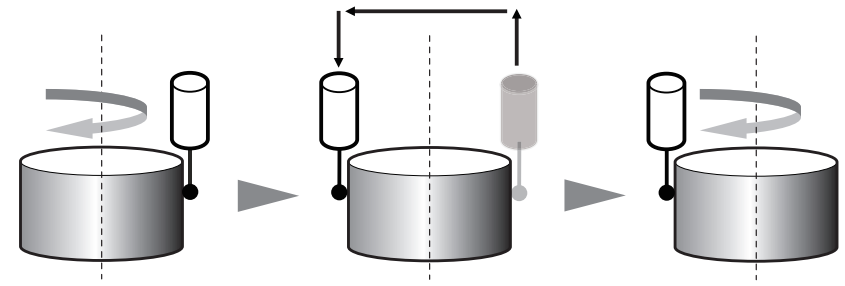
Functional Beauty

Its rotation accuracy of (0.02 + 3.2 H/10000) μm, the highest accuracy in this class, satisfies demand for highly accurate measurement of machined parts. It provides enhanced measurement functions for different types of workpieces, excellent maintainability, and an ergonomic design that combines beauty and usability.

The RONDCOM NEX series, the perfect combination of function and design, is advancing toward a new global standard.

Diameter measurement function (Opposite Pair Method) PATENTED

Superior feature to measure inner/outer diameter with high repeatability.
Measure a workpiece at angles of 0 and 180 degrees on the table.
The evaluation algorithm implemented as the standard to correct the errors by temperature change and generatrix line shifting, performs highly precise diameter measurements.



Measure at an angle of 0 degrees

Move from 0 degrees to 180 degrees

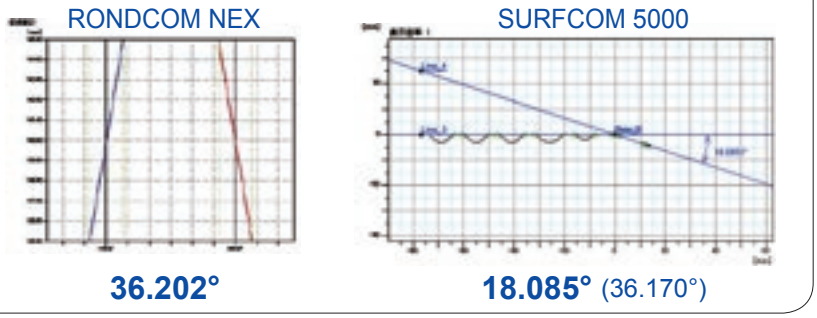
Measure at an angle of 180 degrees

Example of the measurement

R-axis taper following function*

The straightness of the tapered surface can be measured by this function.
Taper angle and straightness can be measured even if it exceeds the range of the detector.

Comparison of the measurement results, by the high accuracy contour measuring instrument (SURFCOM 5000) and by RONDCOM NEX.

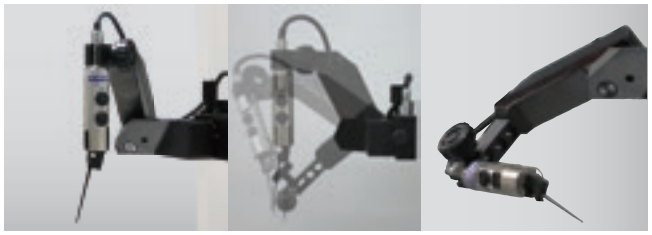


* Taper angle may have an impact on the accuracy of the straightness measurement. Contact us for details.

Example of the measurement

Offset detector holder PATENTED

※ RONDCOM NEX
100/200 system – manual detection



The offset-type detector holder is our unique mechanism that places the stylus at 80 mm from the center of the R-axis to prevent interference between the R-axis arm and the workpiece. This holder also has another advantage. Even when the conventional holder is pushed down, the direction of the detector does not change. Therefore, the detector has to be manually rotated 90 degrees when measurement switches between outer/inner diameters and upper/lower surfaces. But when this offset holder is pushed down, the detector simultaneously changes its direction 90 degrees without requiring manual rotation.

※ RONDCOM NEX
300 system – CNC detection (see page 5)

Upgradeable from Manual to CNC

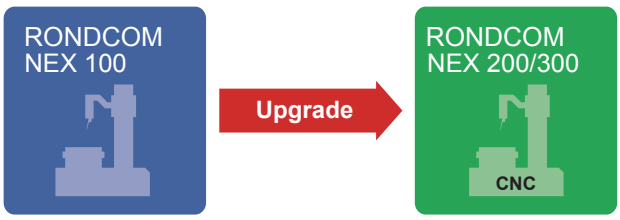
The original footprint remains unchanged so there is no disruption to your workspace. So even when a manual machine has been installed because only a small number of workpieces need to be measured, you can upgrade it at any time as needed.

* Except RONDCOM NEX Rs α series

● Conventional measuring instrument

Manual machine → Repurchase → CNC machine

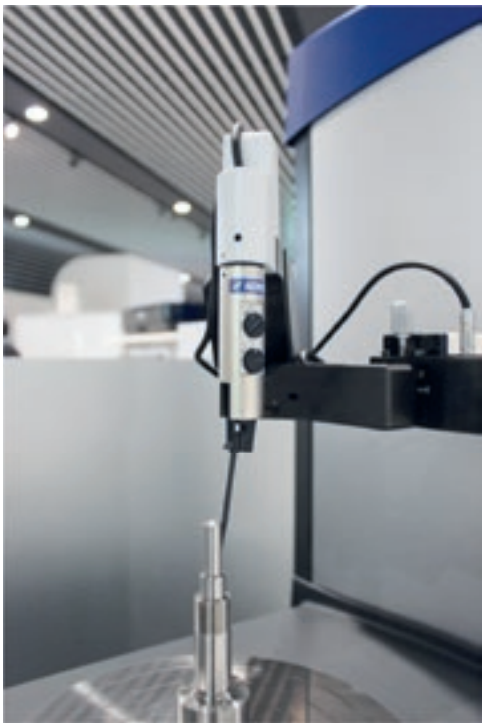
● RONDCOM NEX 100 and NEX 200/300 series



RONDCOM NEX Rs

Plays a dual role in roundness and surface texture measurements

RONDCOM NEX Rs is capable of performing cylindrical/roundness and surface texture measurements, eliminating the need for two separate machines.
It provides the highest rotation accuracy of (0.02 + 3.2H/10000) μm in this class, which is critical to roundness and cylindrical form measurements. By simply changing to the surface texture measurement detector, it can perform surface texture measurement in the axis, radial and rotational directions along the applicable axis at high accuracy in accordance with ISO/JIS requirements.
The RONDCOM NEX Rs series is a next-generation measuring machine capable of performing very precise roundness/cylindrical form and surface texture measurements.



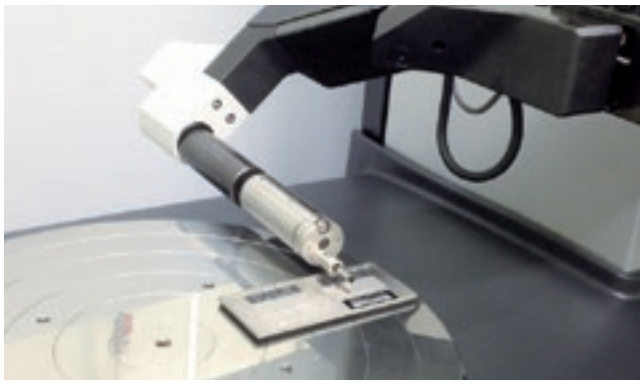
○ ⌭ ◎ ▱ ...

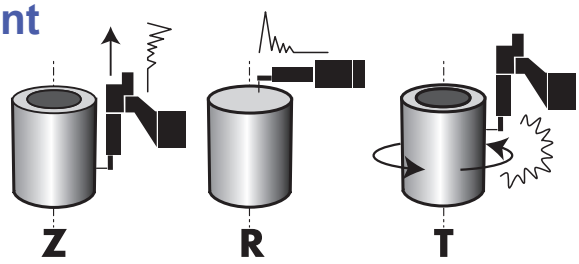
Ra, Rz, Rp, Rv ...

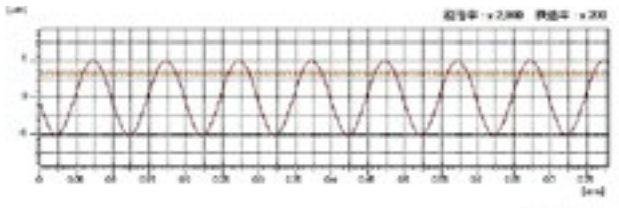
*This image is an example of usage of the detector E-DT-R290A (optional item) designated for surface roughness measurement.

High accuracy roughness measurement

Achieve high accuracy roughness measurement in R-axis, T-axis and Z-axis. Ra ≥ 2.0 nm



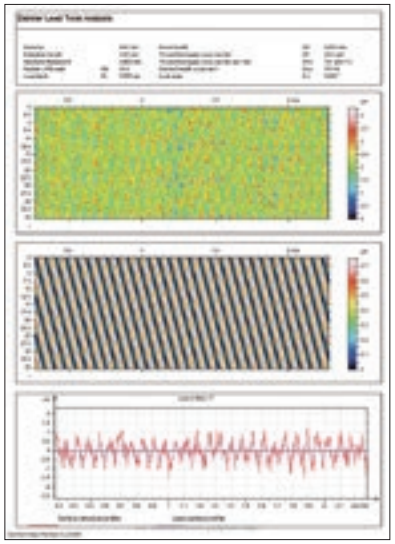


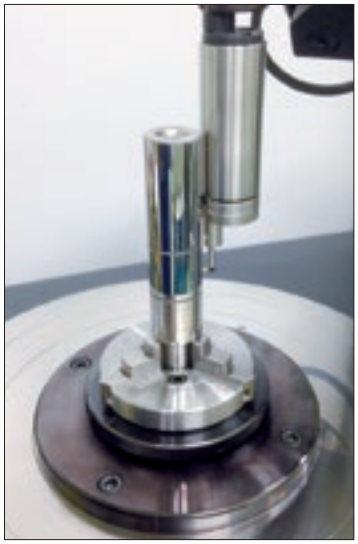


(Measurement example)
R-axis direct operated roughness measurement (roughness example)

Lead twist measurement (Optional), following MBN 31007-7

Measure the periodic and fine twist structure of cylindrical shafts. An analysis is available by visualizing the twist structure.





*3D profile analysis software SURFCOM MAP (Expert mode) will be attached.

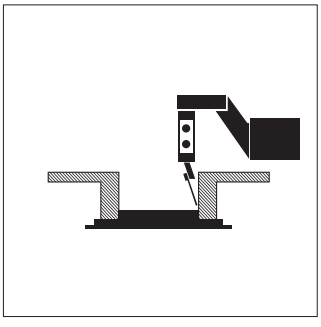
Offset CNC detector holder PATENTED

***RONDCOM NEX series common function**
Comes as standard with the 300 series

The offset-type detector holder, ACCRETECH unique mechanism, places the stylus at 80 mm from the center of the R-axis to prevent interference between the R-axis arm and the workpiece.

The CNC holder on the NEX series 300 system automatically controls detector attitude for inner/outer diameters, upper/lower and tapered surface measurements, significantly increasing measurement efficiency.

The detector is also compatible with the manual holder on the 100/200 system, meaning that customers with both the 100/200 and 300 series do not need an extra holder thus reducing maintenance costs.



RONDCOM NEX α/NEX Rs α

Similar but different

While the RONDCOM NEX series maintains its beautiful design and functions and the highest accuracy of its class, this newly developed series also achieves a maximum loading mass of 60 kg as a result of a complete review of the platform design. It has expanded the range of workpieces that can be measured with the same accuracy and usability.
RONDCOM NEX and RONDCOM NEX Rs look similar but there are differences. The latter is specifically designed to measure heavy workpieces with high accuracy.

Maximum loading mass 60 kg

The highest NEX series model for eccentric and heavy workpieces

An example of measuring a crankshaft using an exclusive jig tool

Perfect balance of heavy workpiece measurement and high accuracy

The platform, including the base and air spindle structure, was thoroughly reviewed to achieve a maximum loading mass of 60 kg while guaranteeing the high accuracy of the NEX series. It provides the world highest accuracy in this class. By combining the high column specification for long workpieces, the range of workpieces that can be measured has been significantly expanded. RONDCOM NEX and RONDCOM NEX Rs α look similar but are actually different. This new model provides both heavy item measurement and high accuracy perfectly.

Equipped with a newly developed small highly rigid low-vibration spindle

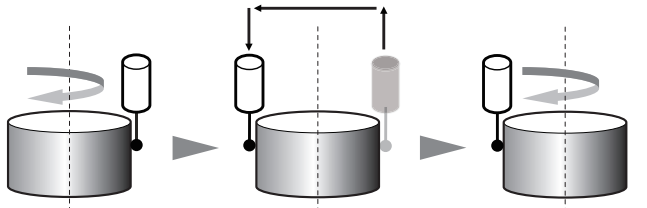
This α series is equipped with a newly developed small highly rigid low-vibration air spindle. The conventional NEX series uses an air pressure of 0.3 MPa, while this α series uses 0.4 MPa. An increase in working pressure usually increases the vibration of the table, which may affect accuracy. But the application of the unique low-vibration air bearing technology we have developed for the NEX Rs air spindle has enabled this average-sized roundness measuring machine to be loaded with heavy workpieces.

RONDCOM NEX series common functions

Diagonal diameter measuring function PATENTED

Superior feature to measure inner/outer diameter with high repeatability. Measure a workpiece at angles of 0 and 180 degrees on the table. The evaluation algorithm implemented as standard to correct the errors by temperature change and generatrix line shifting, performs highly precise diameter measurements.

Example of the measurement



Measure at an angle of 0 degree

Move from 0 degrees to 180 degrees

Measure at an angle of 180 degrees

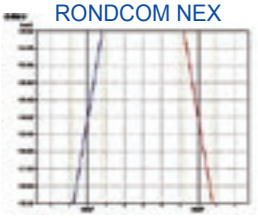
R-axis tracking roundness/taper angle measurement function*

The tapered surface can be measured by this function. Taper angle and straightness can be measured even if it exceeds the range of the detector.

* Taper angle may have an impact on the accuracy of the straightness measurement. Contact us for details.

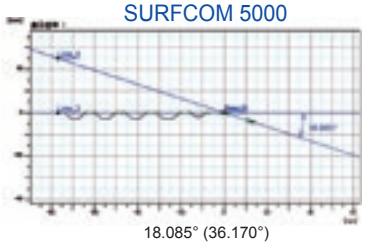
Example of the measurement

RONDCOM NEX



36.202°

SURFCOM 5000



18.085° (36.170°)

Automatic lubrication system mounted on Z-axis column

Almost maintenance-free due to automatic lubrication of the column.

Weight-saving and high rigidity due to ceramic R-axis arm

The linear expansion coefficient of ceramic is smaller and weighs half as much as iron but the material is harder. Its weight is reduced but the rigidity is higher and additionally, it is hardly affected by changes in environmental temperature.

Fully covered main body and column

Minimizes effect of disturbance from air-conditioner and other factors due to functional design.

ACCTee Integrated Analysis Software

Innovative approach to measurement with new concept. All-in-one software for measurement and analysis based on electronic form system.

Equipped with optical linear scale in Z-axis column

When measuring using the tilt adjusting function, it is not necessary to set up the measuring height.

Rustproof SUS table

Using SUS for the table ensures that it is rust resistant.
Oil coating is not needed, Maintenance-free.

Storage area for PC

Extension of centering stroke

Extend the centering stroke to ±5 mm by extending the table diameter to Φ235 mm.

Printer

with drawer mechanism.

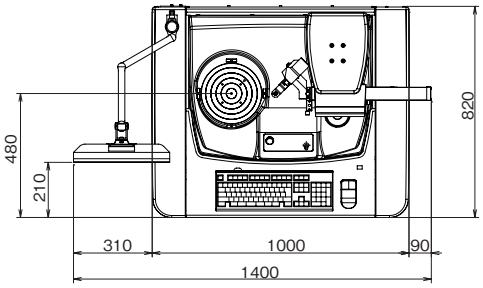
Spiral cylindricity measuring function

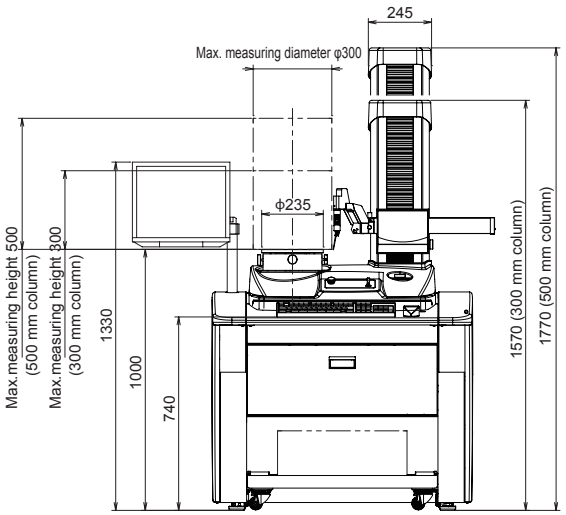
Spiral cylindricity measurement by combining table rotation with rectilinear movement. Z positioning is not needed, which saves 30% of cylindricity measurement time compared to conventional measuring instruments.

RONDCOM NEX DX model

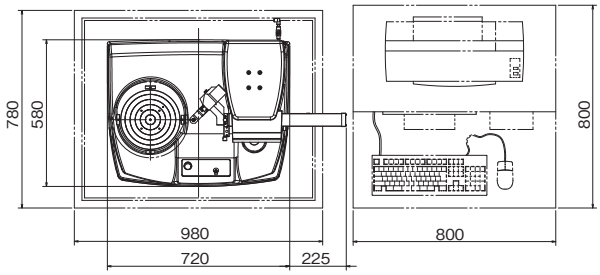
External view (RONDCOM NEX series)

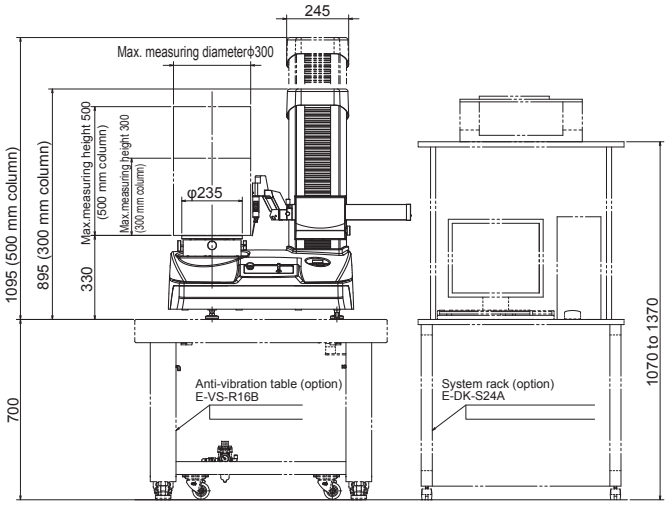
DX model

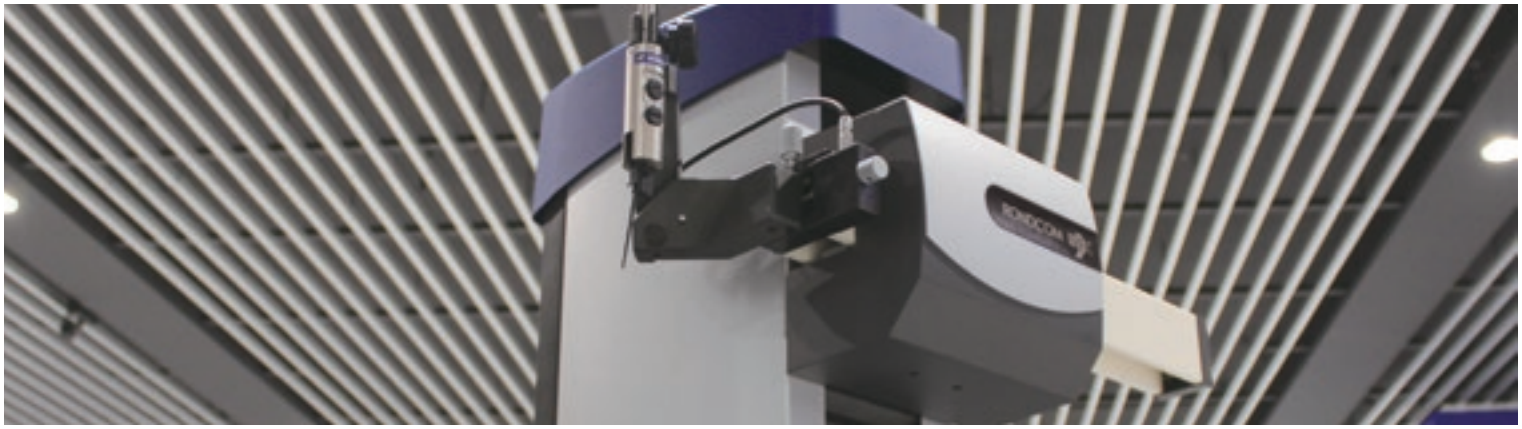




SD model







RONDCOM NEX/RONDCOM NEX α Specifications

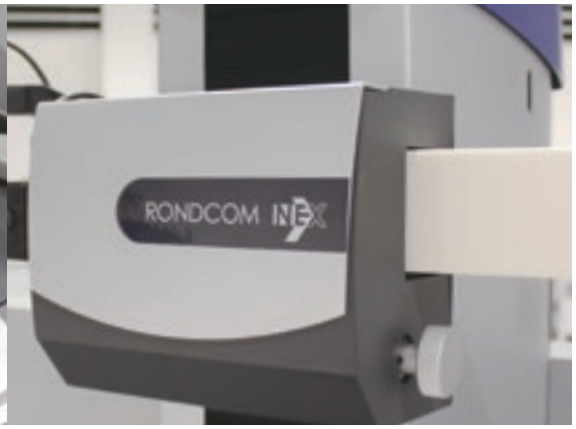
■ Hardware

Item \ Model				RONDCOM NEX (-11, -12) RONDCOM NEX α (-21, -22)													
				100				200				300					
				SD		DX		SD		DX		SD		DX			
Model*1				11	12	11	12	11	12	11	12	11	12	11	12		
				21	22	21	22	21	22	21	22	21	22	21	22		
Alignment				Manual				CNC									
Offset detector holder				Manual								CNC					
Measuring range		Max. measuring diameter	(mm)	Φ 300 (outer diameter) Φ 360 (inner diameter)													
		Radial feed range (R-axis)	(mm)	180													
		Up/down feed range (Z-axis)	(mm)	300	500	300	500	300	500	300	500	300	500	300	500		
		Max. loading diameter	(mm)	Φ 580													
		Max. measuring height	(mm)	300	500	300	500	300	500	300	500	300	500	300	500		
		Depth of measurement	(mm)	150 *2													
Accuracy	Rotation accuracy*3	Radial direction	(μm)	(0.02 + 3.2H/10000)													
		Axis direction	(μm)	(0.02 + 3.2R/10000)													
	Straightness accuracy	Up/down direction (Z-axis)	(μm/mm)	0.10/100													
				0.15 /300	0.23 /500	0.15 /300	0.23 /500	0.15 /300	0.23 /500	0.15 /300	0.23 /500	0.15 /300	0.23 /500	0.15 /300	0.23 /500		
		Radial direction (R-axis)	(μm/mm)	0.7/180													
	Parallelism accuracy	Z-axis/T-axis	(μm/mm)	0.7 /300	1.0 /500	0.7 /300	1.0 /500	0.7 /300	1.0 /500	0.7 /300	1.0 /500	0.7 /300	1.0 /500	0.7 /300	1.0 /500		
	Squareness accuracy	R-axis/T-axis	(μm/mm)	1.0/150													
	Scale indication accuracy	R-axis	(μm)	(0.5 + L/180 + 2L ⊿ T/100) L: travel distance (mm) ⊿ T: temperature difference between standard condition (20°C) and environmental temperature (°C).													
Speed	Measurement speed	Rotational speed (θ-axis)	(/min)	1~10													
		Up/down speed (Z-axis)	(mm/s)	0.5~10													
		Radial direction speed (R-axis)	(mm/s)	0.5~10													
	Movement speed	Rotational speed (θ-axis)	(/min)	max. 20													
		Up/down speed (Z-axis)	(mm/s)	5~60													
		Radial direction speed (R-axis)	(mm/s)	5~30													
Table		Table diameter	(mm)	Φ 235													
		Centering range	(mm)	±5													
		Tilting range	(°)	±1													
	Max. loading mass	NEX	(kg)	30													
		NEX α	(kg)	60													
Detector/ Stylus	Detector E-DT-R120A (equipped as standard)	Measuring force	(mN)	30~100													
		Linear range	(μm)	±1000													
		Functions		Switching outer or inner diameter, Front/over travel adjustment function, Emergency stop function													
	Stylus EM46000-S302 (equipped as standard)	Stylus ball diameter	(mm)	Φ 1.6													
		Stylus length	(mm)	53													
		Stylus ball material		Carbide													

*1 NEX-11 (Max loading mass 30 kg, 300 mm column), NEX-12 (Max loading mass 30 kg, 500 mm column)
NEX α-21 (Max loading mass 60 kg, 300 mm column), NEX α-22 (Max loading mass 60 kg, 500 mm column)

*2 Please contact our sales personnel as there may be limitations due to the measurement diameter, and the combination of detector and stylus.

*3 JIS B 7451-1997 compliant. H is the height of the measurement point from the upper surface of the table in mm, and R is the distance from the rotational center of the table in mm.



■ Software

Item \ Model			RONDCOM NEX (-11, -12) RONDCOM NEX α (-21, -22)											
			100				200				300			
			SD		DX		SD		DX		SD		DX	
Model*1			11	12	11	12	11	12	11	12	11	12	11	12
			21	22	21	22	21	22	21	22	21	22	21	22
Number of sampling			14400											
Type of filter		Digital filter	Gaussian/2RC/spline/robust (spline)											
Cut-off value	Rotational direction (θ-axis)	Low pass	can set any value in range of 15, 50, 150, 500, 1500 peaks/rotation, 15~1500 peaks/rotation											
		Band pass	1~1500 peaks/rotation											
	Rectilinear direction (Z-axis)	Low pass	0.025, 0.08, 0.25, 0.8, 2.5, 8 mm (any value in 0.0001 mm units)											
Roundness evaluation of form error			MZCII (min. zone circle method), LSCII (least square circle method), MICII (max. inscribed circle method), MCCII (min. circumscribed circle method), N.C. (no compensation)											
Measuring items	Rotational direction		Roundness, flatness, flatness (compound), parallelism, concentricity, coaxiality, cylindricity, diameter deviation, squareness, thickness variation, partial circle											
	Rectilinear direction		Straightness (Z), straightness (R), cylindricity, squareness, parallelism, diameter deviation, axis straightness											
Analysis processing functions			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), CNC automatic measuring function, automatic centering/tilting adjustment function (except for NEX 100, NEX α 100)											
Display item			Measuring settings, measuring parameters, comments, printer output settings, profile graphics (expansion plan, 3D plan), error messages, etc.											

■ Specifications

Installation dimension	Width		(mm)	720		1400		720		1400		720		1400	
	Depth		(mm)	580		820		580		820		580		820	
	Height	NEX	(mm)	895	1095	1570	1770	895	1095	1570	1770	895	1095	1570	1770
		NEX α	(mm)	900	1100	1570	1770	900	1100	1570	1770	900	1100	1570	1770
Weight	NEX	Machine	(kg)	Approx. 170	Approx. 180	Approx. 330	Approx. 340	Approx. 170	Approx. 180	Approx. 330	Approx. 340	Approx. 170	Approx. 180	Approx. 330	Approx. 340
		Computer	(kg)	Approx.10				Approx.10				Approx.10			
	NEX α	Machine	(kg)	Approx. 190	Approx. 200	Approx. 350	Approx. 360	Approx. 190	Approx. 200	Approx. 350	Approx. 360	Approx. 190	Approx. 200	Approx. 350	Approx. 360
		Computer	(kg)	Approx.10				Approx.10				Approx. 10			
Power supply		Voltage, frequency	(V, Hz)	AC100 ~ 240, 50/60 (grounding required)											
		Power consumption	(VA)	Approx. 530											
Air supply	Supply air pressure	NEX	(MPa)	0.35~0.7											
		NEX α	(MPa)	0.45~0.7											
	Working air pressure	NEX	(MPa)	0.3											
		NEX α	(MPa)	0.4											
	Air consumption volume	NEX	(NL/min)	30											
		NEX α	(NL/min)	40											
	Air supply connecting nipple (main unit)			One-touch pipe joint for outer diameter φ 8 mm hose											
Operating environment		Operating temperature	(°C)	10~30											
		Guaranteed accuracy temperature range	(°C)	20±2											

RONDCOM NEX Rs/RONDCOM NEX Rs α Specifications

■ Hardware

Item \ Model					RONDCOM NEX Rs (-11, -12) RONDCOM NEX Rs α (-21, -22)							
					200				300			
					SD		DX		SD		DX	
Model*1					11	12	11	12	11	12	11	12
					21	22	21	22	21	22	21	22
Alignment					CNC							
Offset detector holder					Manual				CNC			
Measuring range			Max. measuring range	(mm)	Φ 300 (outer diameter) Φ 360 (inner diameter)							
			Radial feed range (R-axis)	(mm)	180							
			Up/down feed range (Z-axis)	(mm)	300	500	300	500	300	500	300	500
			Max. loading diameter	(mm)	Φ 580							
			Max. measuring height	(mm)	300	500	300	500	300	500	300	500
			Max. measuring depth	(mm)	150 *2							
Accuracy	Rotation accuracy *3		Radial direction	(μm)	(0.02 + 3.2H/10000)							
			Axis direction	(μm)	(0.02 + 3.2R/10000)							
	Straightness accuracy		Up/down direction (Z-axis)	(μm/mm)	0.10/100							
					0.15 /300	0.23 /500	0.15 /300	0.23 /500	0.15 /300	0.23 /500	0.15 /300	0.23 /500
			Radial direction (R-axis)	(μm/mm)	0.7/180							
	Parallelism accuracy		Z-axis/T-axis	(μm/mm)	0.7 /300	1.0 /500	0.7 /300	1.0 /500	0.7 /300	1.0 /500	0.7 /300	1.0 /500
	Squareness accuracy		R-axis/T-axis	(μm/mm)	1.0/150							
	Scale indication accuracy		R-axis	(μm)	(0.5 + L/180 + 2L ⊿ T/100) L: travel distance (mm) ⊿ T: temperature difference between standard condition (20°C) and environmental temperature (°C).							
Speed	Measuring speed		Rotation speed (θ-axis)	(/min)	1~10 (rotation measurement), 0.01~1 (roughness measurement)							
			Up/down speed (Z-axis)	(mm/s)	0.5~10 (linear motion measurement), 0.1~1.5 (roughness measurement)							
			Radial direction speed (R-axis)	(mm/s)	0.5~10 (linear motion measurement), 0.1~1.5 (roughness measurement)							
	Movement speed		Rotation speed (θ-axis)	(/min)	max. 20							
			Up/down speed (Z-axis)	(mm/s)	5~60							
			Radial direction speed (R-axis)	(mm/s)	5~30							
Table			Table diameter	(mm)	Φ 235							
			Centering range	(mm)	±5							
			Tilting range	(°)	±1							
	Max. loading mass		NEX Rs	(kg)	30							
			NEX Rs α	(kg)	60							
Detector/Stylus	Roundness measurement	Detector E-DT-R120A (equipped as standard)	Measuring force	(mN)	30~100							
			Linear range	(μm)	±1000							
			Functions		Switching outer or inner diameter, Front/over travel adjustment function, Emergency stop function							
		Stylus EM46000-S302 (equipped as standard)	Stylus ball diameter	(mm)	Φ 1.6							
			Length	(mm)	53							
			Stylus ball material		Carbide							
	Roundness and Surface roughness measurement	low measuring force detector E-DT-R168B (equipped as standard)	Measuring force	(mN)	4							
			Linear range	(μm)	±400							
		Stylus (Roundness measurement) 010 2505 (equipped as standard)	Stylus ball diameter	(mm)	Φ 1.6							
			Length	(mm)	26.5							
			Stylus ball material		Ruby							
		Stylus (Roughness measurement) 010 2501 (equipped as standard)	Stylus shape	(μm)	SR5 (90° cone)							
			Length	(mm)	26.5							
			Stylus material		Diamond							

*1 NEX Rs-11 (Max loading mass 30 kg, 300 mm column), NEX Rs-12 (Max loading mass 30 kg, 500 mm column)
NEX Rs α-21 (Max loading mass 60 kg, 300 mm column), NEX Rs α-22 (Max loading mass 60 kg, 500 mm column)
*2 Please contact our sales personnel as there may be limitations due to the measurement diameter, and the combination of detector and stylus.
*3 JIS B 7451-1997 compliant. H is the height of the measurement point from the upper surface of the table in mm, and R is the distance from the rotational center of the table in mm.

■ Software

Item \ Model			RONDCOM NEX Rs (-11, -12) RONDCOM NEX Rs α (-21,-22)							
			200				300			
			SD		DX		SD		DX	
Model*1			11	12	11	12	11	12	11	12
			21	22	21	22	21	22	21	22
Number of sampling			14400							
Type of filter		Digital filter	Gaussian/2RC/spline/robust(spline)							
Cut-off value	Rotational direction (θ-axis)	Low pass	can set any value in range of 15, 50, 150, 500, 1500 peaks/rotation, 15~1500 peaks/rotation							
		Band pass	1~1500 peaks/rotation							
	Rectilinear direction (Z-axis)	Low pass	0.025, 0.08, 0.25, 0.8, 2.5, 8 mm (any value in 0.0001 mm units)							
Roundness evaluation of form error			MZCII (min. zone circle method), LSCII (least square circle method), MICII (max. inscribed circle method), MCCII (min. circumscribed circle method), N.C. (no compensation)							
Measuring items	Rotational direction		Roundness, flatness, flatness (compound), parallelism, concentricity, coaxiality, cylindricity, diameter deviation, squareness, thickness variation, run-out, partial circle							
	Rectilinear direction		Straightness (Z), straightness (R), cylindricity, squareness, parallelism, diameter deviation, axis straightness							
Roughness analysis item	Standard		Complied with JIS-2013, JIS-2001, JIS-1994, JIS-1982, ISO-2009, ISO-1997, ISO-1984, DIN-1990, ASME-2002, ASME-1995							
	Parameter		Ra, Rq, Ry, Rp, Rv, Rc, Rz, Rmax, Rt, Rz.J, R3z, Sm, S, R Δ a, R Δ q, R λ a, R λ q, TILT A, Ir, Pt, Pc, Rsk, Rku, Rk, Rpk, Rvk, Mr1, Mr2, VO, K, tp, Rmr, tp2, Rmr2, R δ c, AVH, Hmax, Hmin, AREA, NCRX, R, Rx, AR, NR, CPM, SR, SAR							
	Evaluation curve		Profile curve, roughness curve, filtered waiveness curve, rolling circle waiveness curve, rolling circle center line waiveness curve, ISO13565-1 profile curve, ISO13565-1 roughness curve, roughness motif curve, waiveness motif curve, envelope waviness curve							
	Characteristic graph		Bearing area curve, amplitude distribution graph, power spectrum curve							
	Tilting adjustment methods		Least square straight line correction, n-dimension polynomial correction, both ends correction, least square circle correction, least square oval correction, spline correction, robust (spline) correction, spline curve correction							
Analysis processing funtions			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), CNC automatic measuring function, automatic centering/tilting adjustment function							
Display item			Measuring settings, measuring parameters, comments, printer output settings, profile graphics (expansion plan, 3D plan), error messages, etc.							

■ Specifications

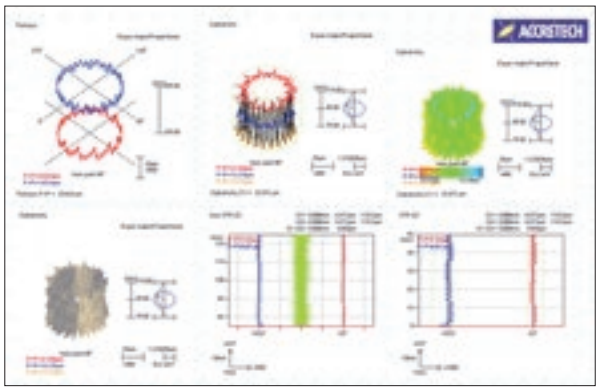
Installation dimension	Width		(mm)	720		1400		720		1400	
	Depth		(mm)	580		820		580		820	
	Height	NEX Rs	(mm)	920	1120	1595	1795	920	1120	1570	1570
		NEX Rs α	(mm)	925	1125	1595	1795	925	1125	1595	1795
Weight	NEX Rs	Machine	(kg)	Approx. 170	Approx. 180	Approx. 330	Approx. 340	Approx. 170	Approx. 180	Approx. 330	Approx. 340
		Computer	(kg)	Approx.10				Approx.10			
	NEX Rs α	Machine	(kg)	Approx. 190	Approx. 200	Approx. 350	Approx. 360	Approx. 190	Approx. 200	Approx. 350	Approx. 360
		Computer	(kg)	Approx.10				Approx.10			
Power supply		Voltage, frequency	(V, Hz)	AC100 ~ 240, 50/60 (grounding required)							
		Power consumption	(VA)	Approx. 630							
Air supply	Supply air pressure	NEX Rs	(MPa)	0.35~0.7							
		NEX Rs α	(MPa)	0.45~0.7							
	Working air pressure	NEX Rs	(MPa)	0.3							
		NEX Rs α	(MPa)	0.4							
	Air consumption volume	NEX Rs	(NL/min)	30							
		NEX Rs α	(NL/min)	40							
	Air supply connecting nipple (main unit)			One-touch pipe joint for outer diameter Φ 8 mm hose							
Operating environment		Operating temperature	(°C)	10~30							
		Guarranteed accuracy temperature range	(°C)	20±2							

Integrated Analysis Software ACCTee

Easy-to-Use Interface for Leading-Edge Operability

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

Example of measurement/analysis window



Example of printing

Naming convention based on the system configuration and selection

Product name **RONDCOM NEX / NEX Rs**
RONDCOM NEX α / NEX Rs α

∗ ∗ ∗	SD/DX	–	○○
1 System	2 Type		3 Column

1 System selection

RONDCOM NEX ∗ ∗ ∗ SD/DX– ○○

∗ ∗ ∗	Alignment	Detector holder
100	Manual	Manual detector holder
200	Automatic	Manual detector holder
300	Automatic	CNC detector holder

2 Type selection

RONDCOM NEX ∗ ∗ ∗ **SD/DX**– ○○

Type	
SD	**DX**
	

3 Column selection

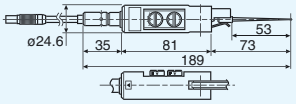
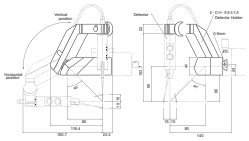
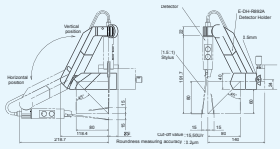
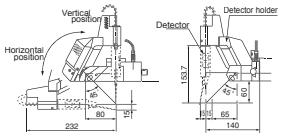
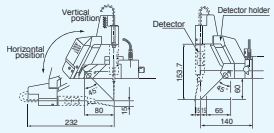
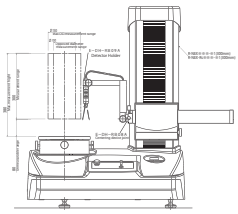
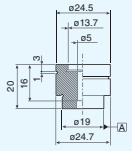
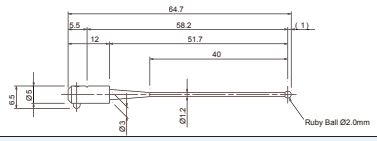
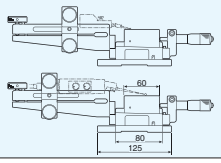
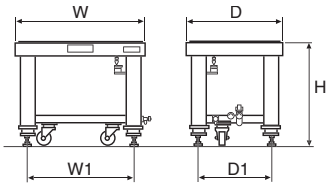
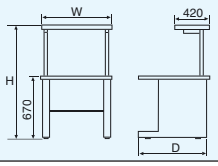
RONDCOM NEX / NEX Rs ∗ ∗ ∗ SD/DX– ○○

○○	Type of column
11	300 mm column
12	500 mm column

RONDCOM NEX α / NEX Rs α ∗ ∗ ∗ SD/DX– ○○

○○	Type of column
21	300 mm column
22	500 mm column

Specialized option for RONDCOM NEX series

Name	Model	External view	Specifications
All position detector	E-DT-R120A		Measuring range: ±1000 µm Measuring force: 30 to 100 mN Front adjustment mechanism ID/OD switch function
Offset detector holder	E-DH-R845A		Standard equipment for RONDCOM NEX 100/200 System Throat height H: 153 mm Throat depth D: 65 mm
Offset detector holder 1.5:1 model	E-DH-R892A		For RONDCOM NEX 100/200 System Throat height H: 191 mm Throat depth D: 65 mm Stylus sensitivity 1.5: 1
Offset CNC detector holder	E-DH-RB28B		Standard equipment for RONDCOM NEX 300 Throat height H: 153 mm Throat depth D: 65 mm
Offset CNC detector holder 1.5:1 model	E-DH-RB30B		For RONDCOM NEX 300 System Throat height H: 191 mm Throat depth D: 65 mm Stylus sensitivity 1.5: 1
Horizontal feed coupling	E-DH-RB08A		Shared use for RONDCOM NEX/NEX Rs
Holder for facing diameter measurement	E-DH-RB09A		Shared use for RONDCOM NEX/NEX Rs For max. outer diameter: Φ100mm and under *Need horizontal feed coupling (E-DH-RB08A), when using this holder
Diameter master	E-MG-R88A		Outer diameter Φ 24.5 mm Inner diameter Φ 13.7 mm Actual measured value data attached *Master workpieces with the identical diameter to measured work-pieces are available. Please ask the sales department about the production of custom-ordered master workpieces.
Stylus	EM46000-S864		Facing diameter measurement recommended
Magnification calibration set	E-MC-R33A		Max. calibration range: 400 µm Min. scale interval: 0.2 µm Weight: 1.7 kg
Anti-vibration table (RONDCOM NEX/NEX Rs)	E-VS-R16B		Anti-vibration system: Diaphragm air spring Natural frequency: V = 2 Hz, H = 2.2 Hz Load weight: 250 kg Air Source: 350 kPa to 700 kPa Dimension: 980W x 780D x 700H mm, 760W1 x 560D1 mm Weight: 190 kg
Anti-vibration table (RONDCOM NEX α/NEX Rs α)	E-VS-R21B		Anti-vibration system: Diaphragm air spring Natural frequency: V = 1.6 Hz, H = 2 Hz Load weight: 550 kg Air Source: 350 kPa to 700 kPa Dimension: 1074W x 820D x 700H mm, 850W1 x 560D1 mm Weight: 340 kg
System rack	E-DK-S24A		Dimensions: 800 mm x 800 mm x (1070 to 1370) mm Weight: 44.5 kg

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