



RONDCOM NEX series

Measuring instruments for high-precision
form measurements

The RONDCOM NEX series

Form measuring instruments with high level of modularity and efficiency

Form, diameter and roughness measurements in a single system

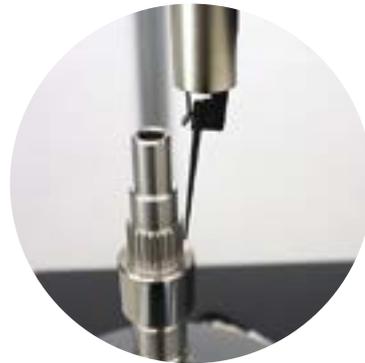


→ 3-In-1 approach: one instrument for different applications for measuring roundness, diameter and roughness

With its diverse range of functions, the series fulfils a wide range of customer requirements and, in doing so, it does more than simply measure form.

→ Effectiveness-enhancing feature: detector for automatic measurement force adjustment

The automatic switching allows roundness and roughness to be measured in a single sequence. Workpieces no longer need to be clamped and measured in two separate machines.



→ Large part batches can be measured simultaneously thanks to CNC-controlled measuring sequences in conjunction with an XY positioning table

The optional CNC positioning table minimises the operating effort and shortens the cycle time for the measurements. All RONDCOM NEX instruments can be retrofitted with this feature.



MODULAR PRODUCT SERIES

Choice of numerous features and variants for individual requirements

RONDCOM NEX 200 DX2-12



RONDCOM NEX Rs 200 DX2-12



RONDCOM NEX standard model

- Max. workpiece weight: 30 kg
- Max. measuring height: 300 / 500 mm
- Alignment: manual / CNC
- Probing direction of the detector: manual / CNC
- SD2: standard version without table
- DX2: with integrated anti-vibration table
- System can be upgraded from manual to CNC-controlled system

Model with additional surface roughness measurement RONDCOM NEX Rs

- Max. workpiece weight: 30 kg
- Max. measuring height: 300 / 500 mm
- Alignment: CNC
- Probing direction of the detector: manual / CNC
- SD2: standard version without table
- DX2: with integrated anti-vibration table
- Enables measurement of the surface parameters

Optional column height 900 mm
RONDCOM NEX α 300 SD2-23



Optional column height 500 mm
RONDCOM NEX Rs α 200 SD2-22



Model for heavy workpieces RONDCOM NEX α

- Max. workpiece weight: 60 kg
- Max. measuring height: 300 / 500 / 900* mm
- Alignment: manual / CNC
- Probing direction of the detector: manual / CNC
- SD2: standard version without table
- DX2: with integrated anti-vibration table

Model for measuring surface quality and for heavy workpieces RONDCOM NEX Rs α

- Max. workpiece weight: 60 kg
- Max. measuring height: 300 / 500 / 900* mm
- Alignment: CNC
- Probing direction of the detector: manual / CNC
- SD2: standard version without table
- DX2: with integrated anti-vibration table
- Enables measurement of the surface parameters

*Only valid for SD variant

VERSATILITY

Wide range of models and accessories for measuring different types of workpieces

NEX | NEXRs | NEX α | NEX Rs α



Offset detector holder enables measurements below the R-axis

The patented detector holder prevents possible collisions between the R-axis arm and large workpieces, as the probe measures 80 mm below the R-axis.

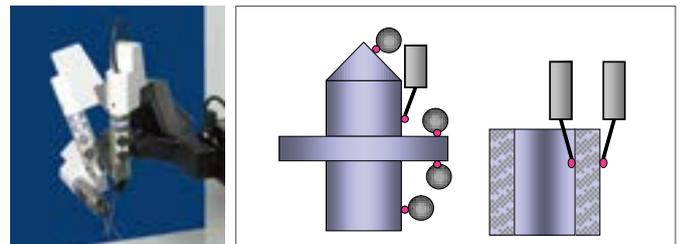
RONDCOM NEX 100/200
manual detector holder

Patented

RONDCOM NEX 300 CNC detector holder



If the offset detector holder is flipped, the detector automatically changes its alignment by 90 degrees.



The CNC program can automatically change position of the CNC detector holder in order to measure inner/outer diameter or upper/lower or conical surface.

For measuring heavy workpieces Maximum workpiece weight: 60 kg

NEX α | NEX Rs α

The “ α ” series is equipped with a low-vibration air bearing table, which allows a maximum load of up to 60 kg while maintaining measurement accuracy.



For measuring long workpieces Maximum measuring height: 900 mm

NEX α | NEX Rs α

In the “ α ” series, the customer can choose between a 300, 500 and 900 mm* Z-column depending on their requirements.

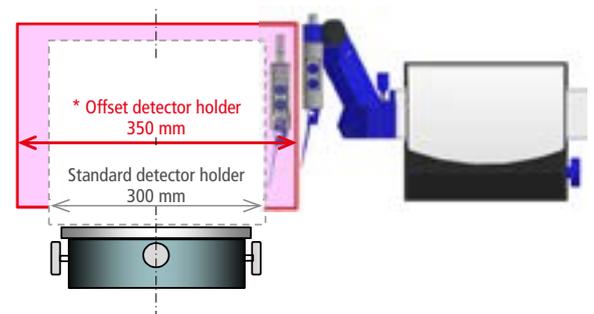
*Only valid for SD2. Optional anti-vibration table E-VS-R86B/87B required.



Offset detector holder for extending the maximum measuring diameter by \varnothing 50 mm

NEX | NEX Rs | NEX α | NEX Rs α

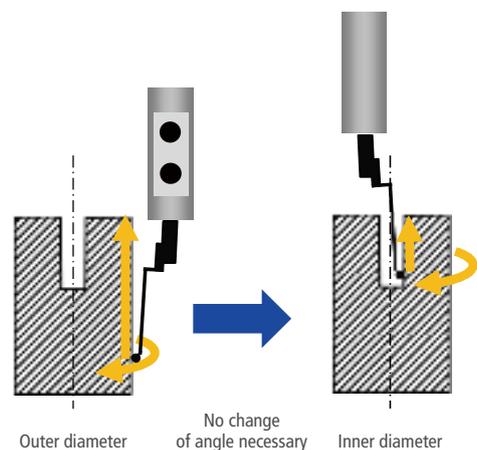
The detector holder is available as a special optional accessory. (Outer diameter \varnothing 350 mm, inner diameter \varnothing 410 mm)



Versatile probe range Patented

NEX | NEX Rs | NEX α | NEX Rs α

Thanks to the specially designed probe arm concept, the inner diameter of a hole can also be measured after an outer diameter measurement without the need to change the probe arm angle.



MULTIFUNCTIONAL

Various measuring functions that go beyond those of a conventional form measuring instrument

NEX | NEXRs | NEX α | NEX Rs α

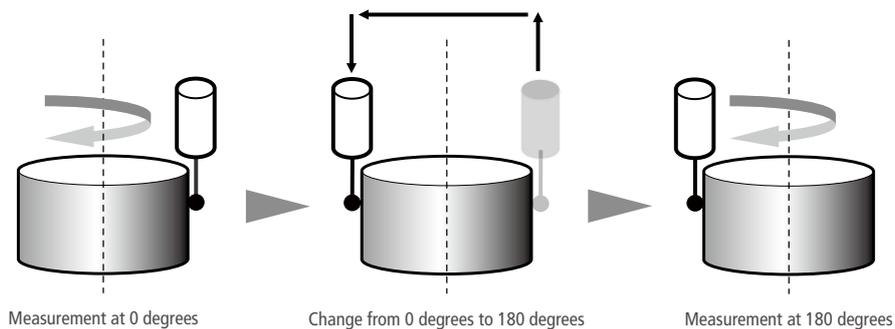


Measurement of inner and outer diameters with high level of repeatability
Function for measuring opposing diameters **Patented**

The standard integrated evaluation algorithm for correcting errors and measuring the opposite diameter means that measurement deviations due to temperature fluctuation are eliminated.

Measurable diameter

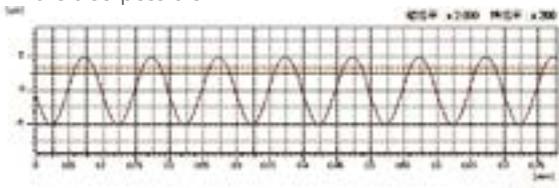
With standard holder: max. \varnothing 30 mm. With holder for measuring the opposite diameter (optional): max. \varnothing 100 mm



Roughness measurement as per ISO standard

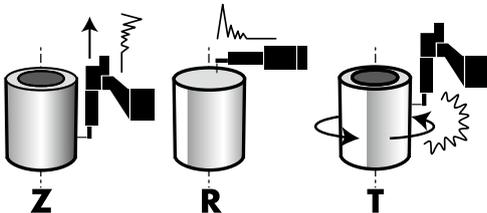
NEXRs | NEX Rs α

The RONDCOM NEX RS series enables highly accurate roughness measurements through the use of special roughness detectors. In addition to the linear roughness measurements in the Z and R directions, it is also possible to measure the roughness parameters on the circumference of the workpiece. A rotary table with an air bearing is used, providing an extremely low noise floor. With the RS variant, roughness measurements in the high Z-measuring range, e.g. 500 mm, as well as twist measurements are also possible.



Measurement example: linear roughness measurement along the R-axis (roughness standard sample)

Roughness measurement towards Z-, R- and T-axis

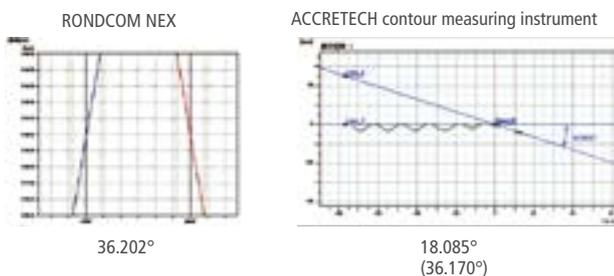


Angle measurement by moving the R-axis

NEX | NEXRs | NEX α | NEX Rs α

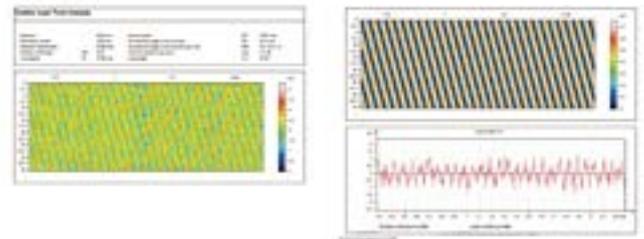
This function is used for cone angle measurement with a high measuring range. R- and Z-axes move simultaneously and follow the surface, which allows the cone angle to be determined with precision.

Comparison with a contour measuring instrument



Twist measurement option

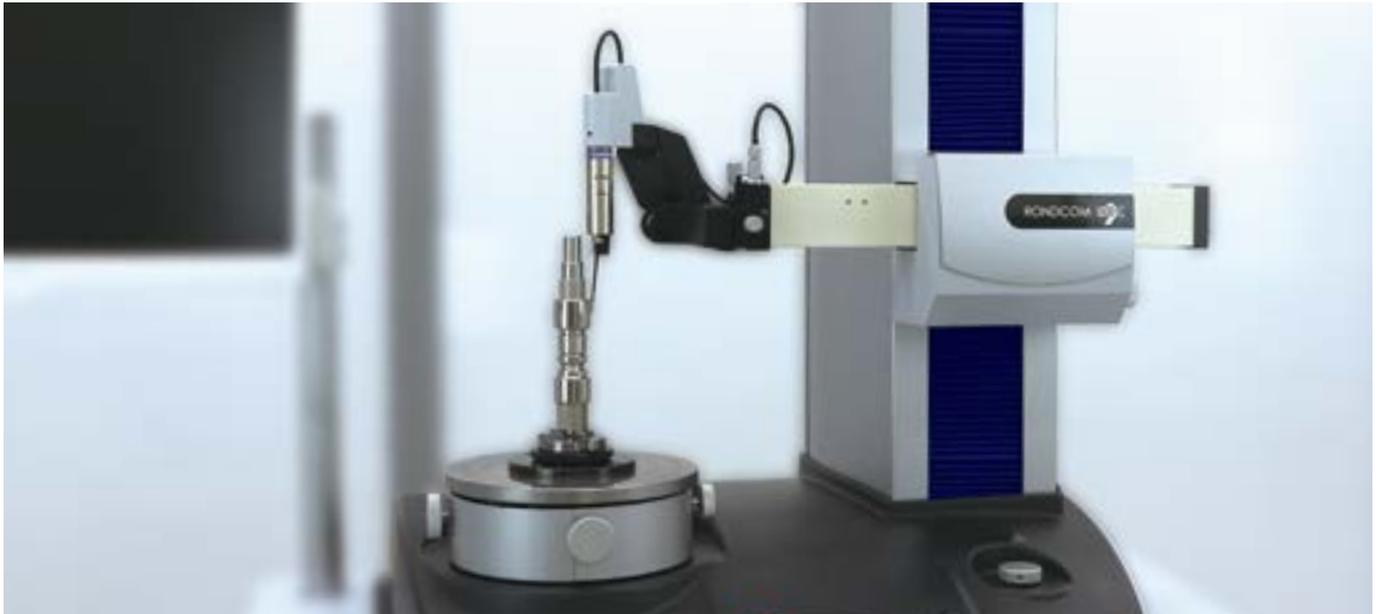
Measurement of periodic and fine twist structures



Accessories for automating the measuring sequences

Automatic force detector (AFD)*¹

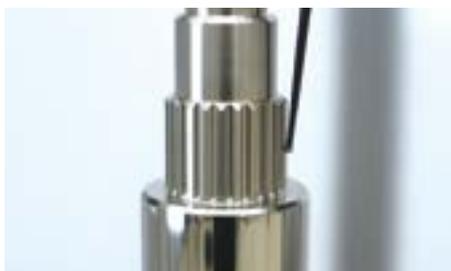
NEX | NEX Rs | NEX α | NEX Rs α



Automatic setting of the measuring range

Measurement of roundness and roughness*²

Automatic change between roundness and diameter measurement



The movement range can be adjusted via the software in such a way that allows measurements to be conducted via holes or grooves, for example.

The automatic force adjustment enables the measurement of form and roughness in a single measuring sequence without the need to change detectors.

With the AFD, the adjustment that is normally made manually is made via the automatic function of the software.

*¹ Optional accessory for ROND COM NEX 200/300

*² Only ROND COM NEX Rs/ NEX Rs α

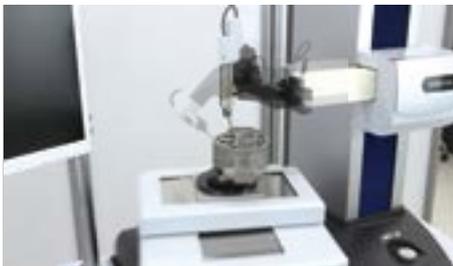
Automatic XY-axis positioning table Patented

NEX | NEXRs | NEXα | NEX Rsα

CNC-controlled positioning table for pallet measurements involving several workpieces or for off-centred measuring axes, e.g. on crankshafts



Repeated measurements involving several workpieces or positions in one clamping operation



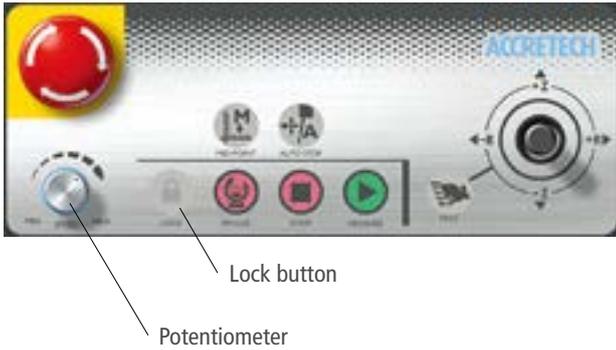
Video about measuring operation available.

Flexible retrofitting



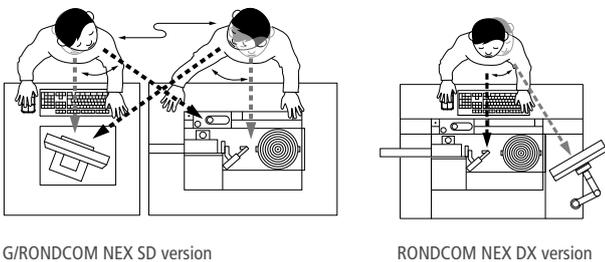
The XY-axis positioning table can be mounted and removed again depending on the application and workpiece.

USER FRIENDLY



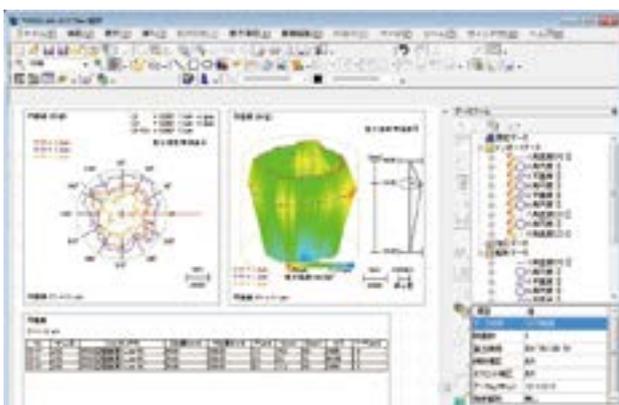
Control panel with intuitive symbols and safety functions

- Potentiometer
- Prevents any collisions during the first execution of the CNC programme; ensures safe measuring sequences, e.g. when conducting measurements in confined spaces.
- Lock button prevents accidents by locking the joystick function.



Ergonomic DX table

Anti-vibration table with system housing and integrated screen, improved operability with minimal floor space.



Integrated ACCTee measurement analysis software

Intuitive user guidance for calibration and alignment, measurement and analysis of measurement results. Simple creation of CNC programmes thanks to teach-in programming. Arbitrary arrangement of measurement values and 3D colour tables on the measurement report; storage of all data in the all-in-one document.

LOW MAINTENANCE

Automatic system oiling

The software-controlled oiling of the Z-axis column keeps the maintenance effort to a minimum.



Corrosion-free stainless steel rotary table



Ceramic R-axis arm

Low coefficient of thermal expansion with fluctuating room temperature.



Specifications

Hardware

			Model		RONDCOM NEX (-11, -12) RONDCOM NEX α (-21,-22, -23)															
					RONDCOM NEX Rs (-11, -12) RONDCOM NEX Rs α (-21,-22, -23)															
			Position			100		200				300								
Model*1			SD2		DX2		SD2		DX2		SD2		DX2							
Alignment			Handbook						CNC											
Change of detector position			Handbook						Handbook				CNC							
Measuring range			Max. measuring diameter	(mm)		AD: φ 300 (φ 350)*4 ID: φ 360 (φ 410)*4						AD: φ 300 ID: φ 360								
			Radial measuring range (R-axis)	(mm)		180						180								
			Vertical measuring range (Z-axis)	(mm)		300	500	900	300	500	300	500	900	300	500	300	500	900	300	500
			Max. loading diameter	(mm)		φ 580						φ 580								
			Max. measuring height	(mm)		300	500	900	300	500	300	500	900	300	500	300	500	900	300	500
Accuracy			Rotational accuracy*3		Radial direction	(μm)		(0.02+3.2H/10000)												
					Axis direction	(μm)		(0.02+3.2R/10000)												
			Straightness accuracy		Vertical direction (Z-axis)		(μm/mm)		0.10/100		0.20 /100		0.10/100		0.10/100		0.20 /100		0.10/100	
									0.15 /300	0.23 /500	0.90 /900	0.15 /300	0.23 /500	0.15 /300	0.23 /500	0.90 /900	0.15 /300	0.23 /500	0.15 /300	0.23 /500
			Parallelism accuracy		Z axis / T axis		(μm/mm)		0.7/180											
									0.7 /300	1.0 /500	2.0 /900	0.7 /300	1.0 /500	0.7 /300	1.0 /500	2.0 /900	0.7 /300	1.0 /500	0.7 /300	1.0 /500
Perpendicularity accuracy		R axis / T axis		(μm/mm)		1.0/150														
						Accuracy of the scale reading		R axis		(μm)		(0.5+L/180+2L ΔT/100) L: Travel length (mm) ΔT: Temperature difference between 20 °C and current temperature (°C)								
Speed			Measuring speed		Rotational speed (θ-axis)							1 ~ 10		0.01 bis 1 (for roughness measurement, only with NEX Rs/NEX Rs α) 1 to 10 0.5 to 10						
					Vertical speed (Z-axis)		0.5 ~ 10		0.1 to 1.5 (for roughness measurement, only with NEX Rs/NEX Rs α)											
					Radial speed (R-axis)		0.5 ~ 10		0.5 to 10 0.1 to 1.5 (for roughness measurement, only with NEX Rs/NEX Rs α)											
			Traversing speed		Rotational speed (θ-axis)		(/min)		Max. 20											
					Vertical speed (Z-axis)		(mm/s)		5 to 60											
					Radial speed (R-axis)		(mm/s)		5 to 30											
Table			Table diameter		(mm)		φ 235													
			Centring range		(mm)		±5													
			Tilting range		(°)		±1													
Max. loading mass			NEX/NEX Rs		(kg)		30													
			NEX α/NEX Rs α		(kg)		60													
Detector/ probe			For roundness measurement (standard accessory)		Detector E-DT-R120B		Measurement force (mN)		30 to 100											
					Probe EM46000- S302		Linear range (μm)		±1000											
					For roundness and roughness measurement (standard accessory for NEX Rs / NEX Rs α)		Low measurement force detector E-DT-R168D		Measurement force (mN)		4									
							Probe (for 010 2505)		Linear range (μm)		±400									
							Probe (for 010 2501)		Pointed (mm)		φ1.6									
							Pointed material		26.5 Ruby											
			Pointed material		R-tip 5 μm (90° cone) 26.5 Diamond															
			For high-precision roughness measurement (optional for NEX Rs/NEX Rs α)		Detector E-DT-R290B		Measurement force (mN)		0.75											
			Probe DM43801		Linear range (μm)		±500													
			Pointed (mm)		R-tip 2 μm (60° cone)															
			Pointed material		Diamond															

*1 NEX-11/NEX Rs-11 (max. loading mass 30 kg, 300 mm column), NEX-12/NEX Rs-12 (max. loading mass 30 kg, 500 mm column)
 NEX α-21/NEX Rs α-21 (max. loading mass 60 kg, 300 mm column), NEX α-22/NEX Rs α-22 (max. loading mass 60 kg, 500 mm column),
 NEX α-23/NEX Rs α-23 (max. loading mass 60 kg, 900 mm column)

*2 Please consult our sales team as there may be restrictions due to the measuring diameter and the combination of detector and probe.

*3 H is the height of the measuring point from the top of the table in mm, and R is the distance from the centre of rotation of the table in mm.

*4 When using the offset detector holder to extend the maximum measuring diameter E-DH-RB86A (optional)

Software

Model		RONDCOM NEX (-11, -12) RONDCOM NEX α (-21,-22, -23)														
		RONDCOM NEX (-11, -12)						RONDCOM NEX Rs (-11, -12) RONDCOM NEX Rs α (-21,-22, -23)								
		100			200			300								
Position		SD2		DX2		SD2		DX2		SD2		DX2				
Model*1		11	12	11	12	11	12	11	12	11	12	11	12	11	12	
		21	22	23	21	22	21	22	23	21	22	21	22	23	21	22
Number of measuring points (Point)		14400						14400 / 72000 (Rs)								
Filter type		Gauss/2RC/Spline/Robust (Spline)														
Cut-off value	Rotational direction (θ-axis)	Low-pass 15, 50, 150, 500, 1500 UPR, 15 to 1500 UPR (shaft movements per revolution)														
		Band-pass 1 to 1500 UPR														
	Linear direction (Z-axis)	Low-pass 0.025, 0.08, 0.25, 0.8, 2.5, 8 mm (each value in 0.0001 mm)														
Roundness evaluation centring method		Least square reference circle (Gauss circle – LSCI), Minimum circle (MZCI), minimum circumscribed circle (MCCI) , minimum circumscribed circle (MICI), N.C														
Measuring positions		Rotational direction Roundness, flatness, overall flatness, parallelism, concentricity, coaxiality, cylindricity, diameter deviation, squareness, wall thickness uniformity, pitch circle														
		Linear direction Straightness (Z), straightness (R), cylindricity, perpendicularity, parallelism, diameter deviation, axis straightness														
Roughness analysis position (only RONDCOM NEX Rs/NEX Rs α)		Standard JIS-2013, JIS-2001, JIS-1994, JIS-1982, ISO-2009, ISO-1997 , ISO-1984, DIN-1990, ASME-2002, ASME-1995, ISO-21920														
		Parameter Ra, Rq, Ry, Rp, Rv, Rc, Rz, Rmax, Rt, Rz, 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 waviness curve, pitch circle waviness curve, pitch circle centreline waviness curve, ISO13565-1 profile curve, ISO13565-1 roughness curve, roughness motif curve, waviness motif curve, envelope curve with waviness														
		Characteristic curve Load-carrying curve, graph of amplitude distribution, power spectrum														
		Inclination correction methods Least squares straight line, n-dimensional polynomial, both ends, least squares circle, least squares ellipse, spline, robust (spline), spline curve														
Analysis processing functions		Notch function (plane, angle, cursor), combination of methods for roundness evaluation, setpoint adjustment, cylinder 3D display (line drawing, shading, contour line), real-time display, graphical display of profile characteristics (load-carrying curve, graph of amplitude distribution, power spectrum), function for automatic CNC measurement						Notch function (plane, angle, cursor), combination of methods for roundness evaluation, setpoint adjustment, cylinder 3D display (line drawing, shading, contour line), real-time display, graphic display of profile characteristics (load-carrying curve, graph of amplitude distribution, power spectrum), function for automatic CNC measurement, automatic centring/tilt adjustment								
The following are displayed		Measurement conditions, measurement parameters, comments, output conditions for the printer, profile graphics (layout plan, 3D plan), error messages, etc.														

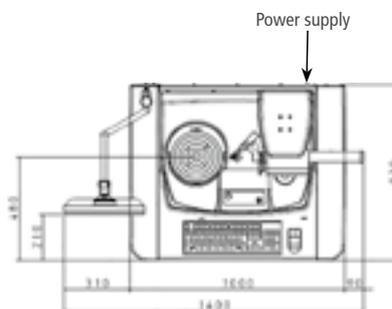
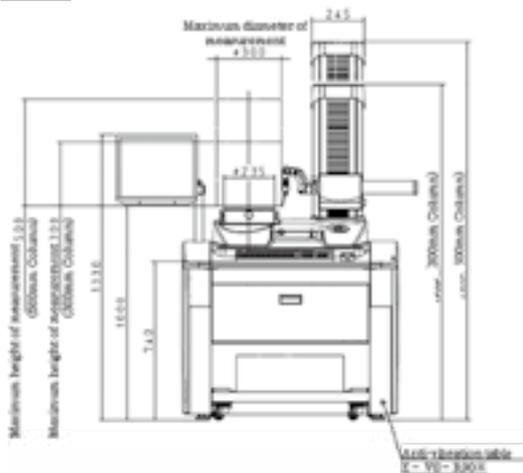
Dimensions and other positions

Installation dimensions*5	Width		(mm)	720	1074	1400	720	1074	1400	720	1074	1400								
	Depth		(mm)	580	824	820	580	824	820	580	824	820								
	Height	NEX	(mm)	925	1125	1595	1795	925	1125	1595	1795	925	1125	1595	1795					
		NEX Rs	(mm)							925	1125	1595	1795	925	1125	1595	1795			
NEX α		(mm)	925	1125	2125	1595	1795	925	1125	2125	1595	1795	925	1125	2125	1595	1795			
NEX Rs α		(mm)							925	1125	2125	1595	1795	925	1125	2125	1595	1795		
Weight*5	NEX/NEX Rs		Measurement unit	(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				
			Data processing unit	(kg)	Approx. 10				Approx. 10		Approx. 330		Approx. 340		Approx. 10		Approx. 330		Approx. 340	
	NEXα/NEX Rs α		Measurement unit	(kg)	Approx. 190	Approx. 200	Approx. 560	Approx. 350	Approx. 360	Approx. 190	Approx. 200	Approx. 560	Approx. 350	Approx. 360	Approx. 190	Approx. 200	Approx. 560	Approx. 350	Approx. 360	
			Data processing unit	(kg)	Approx. 10				Approx. 10		Approx. 350		Approx. 360		Approx. 10		Approx. 350		Approx. 360	
Power supply		Voltage, frequency		(V, Hz)	AC100 to 240, 50/60 (earthing required)															
		Power consumption		(VA)	Approx. 630															
Air supply	Supply air pressure		NEX	(MPa)	0.35 ~ 0.7	0.35 ~ 0.7	0.35 ~ 0.7	0.35 ~ 0.7	0.35 ~ 0.7	0.35 ~ 0.7	0.35 ~ 0.7	0.35 ~ 0.7	0.35 ~ 0.7	0.35 ~ 0.7	0.35 ~ 0.7	0.35 ~ 0.7	0.35 ~ 0.7			
			NEX α/ NEX Rs/NEX Rs α	(MPa)	0.45 ~ 0.7															
	Compressed air pressure		NEX	(MPa)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3			
			NEX α/ NEX Rs/NEX Rs α	(MPa)	0.4															
	Air consumption rate		NEX	(NL/min)	30	30	30	30	30	30	30	30	30	30	30	30	30			
NEX Rs/NEX Rs α			(NL/min)	40																
		Connection for the air supply (main unit)		One-touch hose connector for outer diameter Φ 8 mm hose																
Operating environment		Operating temperature		(°C)	10 to 30															
		Guaranteed accuracy Temperature range		(°C)	20±2															

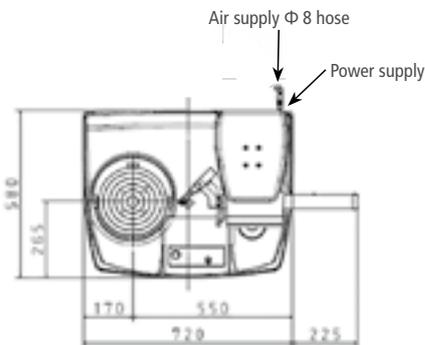
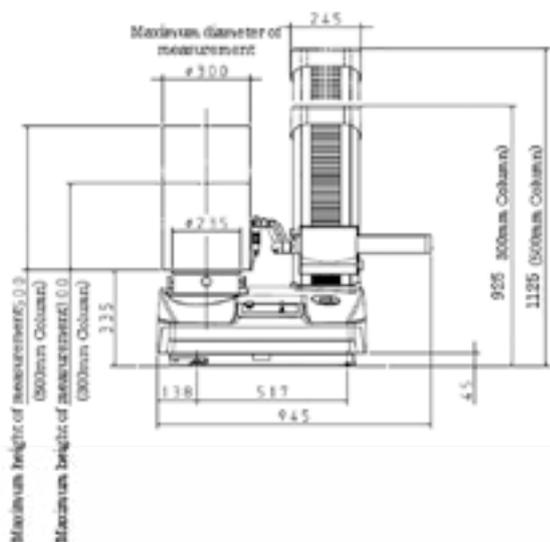
*5 Installation dimensions and weight of a NEX α-23/NEX Rs α (max. loading mass 60 kg, 900 mm column) are the values when using an anti-vibration table E-VS-R86B (optional).

Exterior view – RONDCOM NEX / NEX α

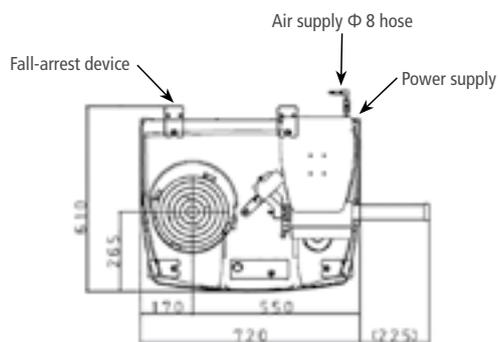
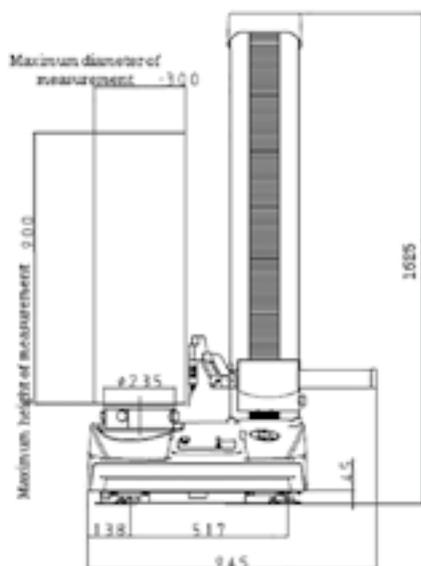
DX2



SD2 Z = 300 / 500

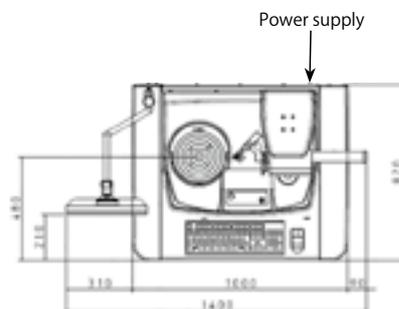
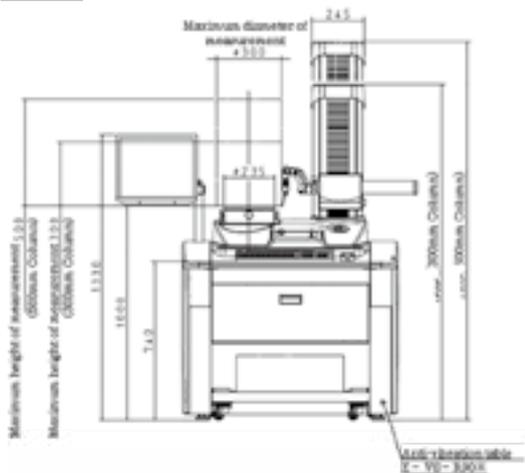


SD2 Z = 900

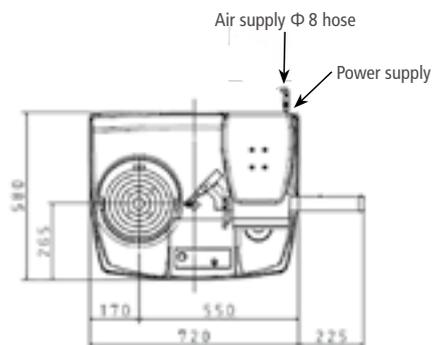
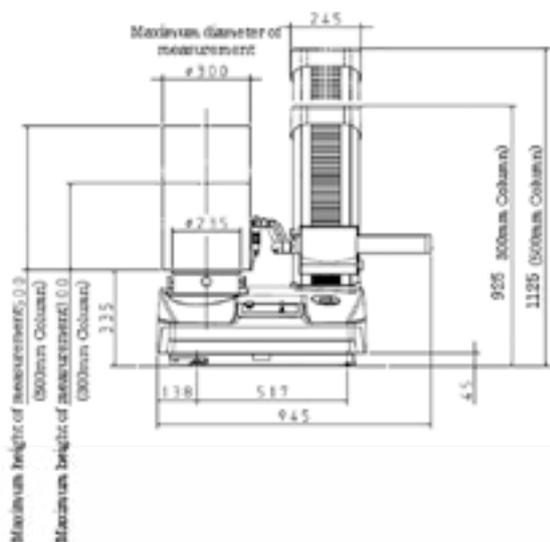


Exterior view – RONDCOM NEX Rs / NEX Rs α

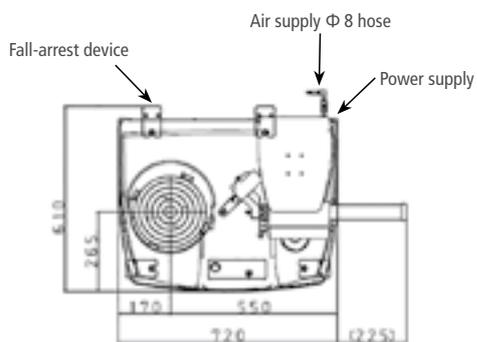
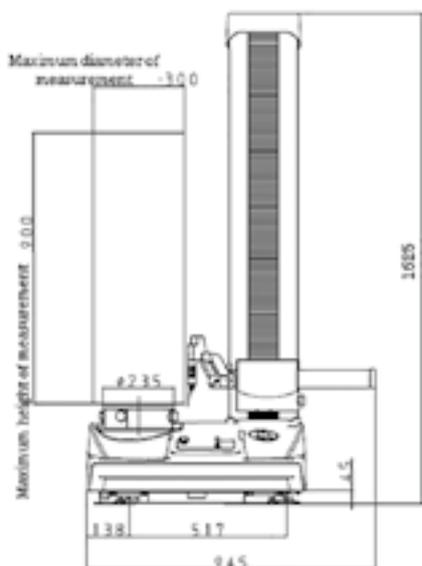
DX2



SD2 Z = 300 / 500



SD2 Z = 900



Model designation based on system configuration and selection

Product name

RONDCOM NEX / NEX Rs
RONDCOM NEX α / NEX Rs α

① Version ② Type ③ Column

① Selection of workpiece alignment and detector holder, manual or CNC-controlled

Position	Manual / CNC	100*	200	300
Workpiece alignment	Manual	•		
	CNC		•	•
Detector holder	Manual	•	•	
	CNC			•

*Only RONDCOM NEX / NEX α

② Type selection

Type	DX2	SD2
Exterior view		

③ Column selection

RONDCOM NEX / NEX Rs

Column	11	12
Z measuring range	300 mm	500 mm

RONDCOM NEX α / NEX Rs α

Column	21	22	23
Z measuring range	300 mm	500 mm	900 mm (SD only)

On-site retrofitting to CNC unit after delivery*

The manual model RONDCOM NEX 100 can be retrofitted to a CNC model RONDCOM NEX 200 or 300 after delivery. Customers who have introduced a manual model can retrofit this to a CNC model on site via our service team if required.

Conventional measuring instruments

RONDCOM NEX 100 and RONDCOM NEX 200/300 Series

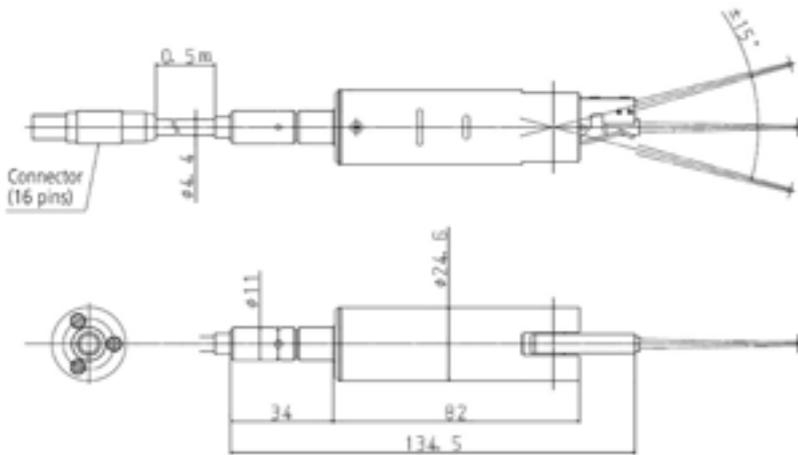


*RONDCOM NEX α excluded

Detector for automatic force adjustment

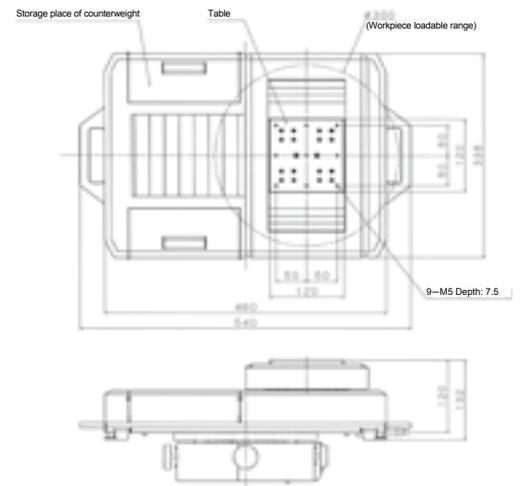
Position		Detector for automatic force adjustment
Linear measuring range	(μm)	± 1000
Measurement force*	(mN)	4 ~ 30 (controlled by ACCTee software)
Function		AD/ID switching function (controlled by ACCTee software), movement range setting function (controlled by ACCTee software), emergency stop function
Remark		Optional for the 200/300 system

*Measurement force range is limited by the mass and angle of the probe.



Automatic XY-axis positioning table

Position			Specifications for the RONDCOM NEX series with automatic XY-axis positioning table
Traverse path	Cx-axis	(mm)	200(± 100)
	Cy-axis	(mm)	100(± 50)
Workpiece	Loadable area	(mm)	$\Phi 300$ from the centre of the XY-axis positioning table
	Max. loading mass	(kg)	5
Traversing speed		(mm/s)	Max. 20
Rotational accuracy*	Radial direction	(μm)	$(0.08 + 6H / 10000)$
	Axis direction	(μm)	$(0.08 + 6R / 10000)$
Guaranteed accuracy range*		(mm)	$120 \leq H \leq 300$
Z-axis parallelism		($\mu\text{m}/\text{mm}$)	0.5 / 150
Installation dimensions and weight	Width x depth x height	(mm)	540 x 356 x 132
	Height from the top of the unit table to the top of the XY positioning table (mm)	(mm)	120
	Weight	(kg)	Approx. 20 (not including counterweights)
Correct model			RONDCOM NEX / NEX α 200 • 300 RONDCOM NEX Rs / NEX Rs α 200 • 300



* Complies with standard JIS B 7451-1997. H is the height of the measuring point from the top of the unit table in mm, and R is the distance from the centre of rotation of the unit table in mm. The other specification items correspond to the specifications for the RONDCOM NEX series



Together with our partners, we are able to offer you a Europe-wide sales and service network. Through the regional proximity, a service technician can reach your premises without any prolonged wait and travel times. If you have any questions, please contact us directly from all European countries through our centralized metrology phone number or email address:



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