NEW PRODUCT INFORMATION

Bulletin No. 1943

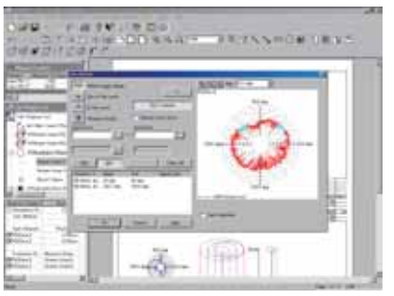
Compact Roundness Measurement
Roundtest RA-120P

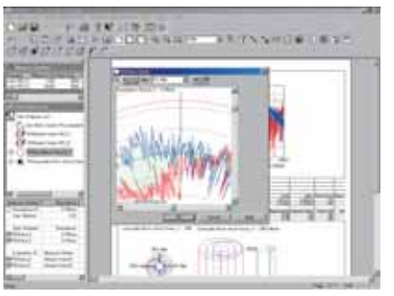
- **Fine adjustment on both X- and Z-axes**
- **Multiple analyses through simple operation**
- **DAT function** *except for 211-625
- **Scaled Z-axis**
- **Continuous ID and OD measurement**
- **Display function for diverse graphs**
- **High-precision air bearing**
- **Wide-range detector**



Multi-analysis function

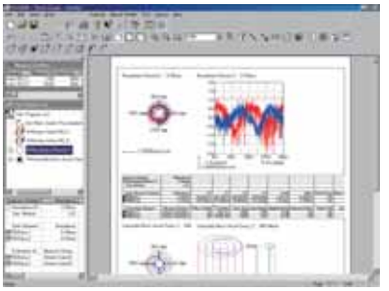
Complete with a wide range of functions including partial enlargement, auxiliary line setup, color-change, displacement/angular difference of data between two points, and so on. Also equipped with notch processing and graph reading functions, which make the machine useful in research departments.
Recalculation can also be performed when the filter and evaluation method is changed.



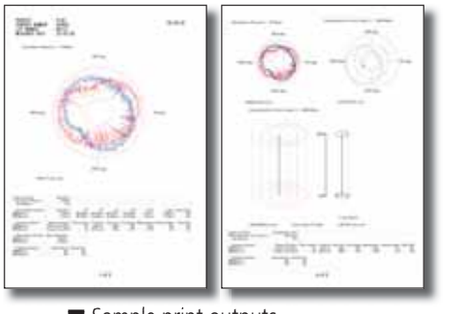


Simplified layout function

Computation results for multiple items can be laid out in multiple forms on a single sheet and printed.
This function also supports output to a color printer (optional).
Printer cable (optional, 2 m):



■ Layout setting screen



■ Sample print outputs

Specifications

Model			RA-120P	
Order No.*			**211-625A**	**211-627A**
Turntable	Rotational accuracy	Radial	(0.04+6H/10000)µm H: Probing height (mm) JISB7451-1997	
		Axial	(0.04+6X/10000)µm X: Probing radius (mm)	
	Rotation speed		6rpm	
	Effective table diameter		ø6" (ø150mm)	
	Centering range adjustment		±.12" (±3mm)	
	Leveling range adjustment		±1°	
	Centering/leveling device (micrometer head)		Mechanical head	Digital head (inch/mm)
	Maximum probing diameter		ø11" (ø280mm) (ø15" (ø380mm) in a reverse and vertical detector position)	
	Maximum workpiece diameter		ø17" (ø440mm)	
	Maximum turntable loading		55 lbs. (25kg)	
Vertical column (Z-axis)	Vertical travel		11" (280mm) from the turntable top	
	Maximum probing height		11" (280mm) from the turntable top (18.9" (480mm) in the reverse and vertical detector configuration)	
	Maximum probing depth		3.9" (100mm) (minimum ID: 1.18" (30mm))	
Horizontal arm (X-axis)	Horizontal travel		6.5" (165mm) (Including a protrusion of 1" (25mm) from the turntable rotation center)	
Detector	Measuring direction		Two directional (IN/OUT switchable)	
	Measuring range		±1000µm	
	Measuring force		70 to 100mN (±30%)	
	Standard stylus (**12AAB681**)		Carbide ball, ø1.6mm (.06")	
Electronic unit	Measuring range		±1000 ±500 ±200 ±100 ±50 ±20 ±10 ±5µm (8 steps)	
	Magnification		X1 to X500,000	
	Filter type		Phase corrected: Gaussian, 2CRPC75, 2CRPC50 Not phase corrected: 2CR75, 2CR50 Filter OFF	
	Cutoff value		15upr, 50upr, 150upr, 500upr, Manual 15-150upr, 15-500upr, 50-500upr, Manual	
	Number of measuring sections		Maximum 100	
	Evaluation type		Roundness, coaxality, concentricity, flatness, circular run-out (radial/axial), squareness (relative to axis/plane), thickness deviation, parallelism	
	Reference circle for evaluation		LSC, MZC, MIC, MCC	
	Adjusting centering/leveling		DAT function (circular/multi-point switchable)	
	Functions		Notched measurement, re-calculation, limaçon error correction, remarkable point analysis (gear), harmonic analysis, continous ID and OD measurement	
	Printer		Windows compatible ink-jet printer	
	Data output	USB stick memory	Calculation result, measurement data	
		RS-232C	Calculation result, measurement data	
		SPC	Calculation result	
Others	Power supply		AC 100 – 240V	
	Power consumption		30W (excluding PC system)	
	Air pressure		390kPa	
	Air consumption		30L/min (minimum)	
	Mass		Main unit: 70 lbs. (32kg) Air filter: 4.4 lbs. (2kg)	

Optional replacement elements for the air filter: **358592** (for filter), **358593** (filter regulator)

Coordinate Measuring Machines
Vision Measuring Systems
Form Measurement
Optical Measuring
Sensor Systems
Test Equipment and Seismometers
Digital Scale and DRO Systems
Small Tool Instruments and Data Management

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