ROUNDNESS TESTER CV-EC1550 ™

PC controlled roundness measuring instrument

- Manual centering and tilting support function
- Geometrical features: Roundness, straightness, cylindricity, spiral cylindricity, co-axiality, concentricity, parallelism, flatness, squareness, circular runout, thickness deviation, radius deviation, knife-edge analysis
- Powerfull data processing software
- Static air bearing
- Very high rotating accuracy of (0.04+0.0006H)µm
- Max. workpiece diameter 368mm
- Max. probing height (OD): 420mm for outer diameter
- Max. probing height (ID): 270mm for inner diameter
- 12 interchangeable styli available for all kinds of special applications



ROUNDNESS TESTER CV-EC1600W ™

PC controlled roundness measuring instrument

- Manual centering and tilting support function
- Geometrical features:
- Roundness, straightness, cylindricity, spiral cylindricity, co-axiality, concentricity, parallelism, flatness, squareness, circular runout, thickness deviation, radius deviation, knife-edge analysis
- Powerfull data processing software
- Static air bearing
- Very high rotating accuracy of (0.04+0.0005H)µm
- Max. workpiece diameter 368mm
- Max. probing height (OD): 545mm for outer diameter
- Max. probing height (ID): 320mm for inner diameter
- 12 interchangeable styli available for all kinds of special applications



ROUNDNESS TESTER CV-EC1550/CV-EC1600W [™]

PC controlled roundness measuring instrument

Technical specifications

	Turntable	
	Rotating method	Static air bearing
	Rotating accuracy	(0.04+0.0006H)µm H: Probing height (mm) (CV-EC1550)
	Deteting an end	(0.04+0.0005H)µm H: Probing height (mm) (CV-EC1600W)
	Rotating speed	1 to 10rpm (adjustable)
	Table size	160mm (CV-EC1550), 180mm (CV-EC1600W)
	Contaring adjustment range	±2mm
	Centering adjustment range Leveling adjustment range	± 2 mm $\pm 1.0^{\circ}$
	Min. angle indication	0.1
	Max. workpiece load	20kg
	Max. workpiece diameter	368mm
	Column unit	
	Straightness	0.6µm/100mm (1.2µm/250mm) (CV-EC1550)
		0.4µm/100mm (0.8µm/300mm) (CV-EC1600W)
	Parallelism	0.75µm/100mm (1.5µm/200mm) (CV-EC1550)
		0.5µm/100mm (1.0µm/200mm) (CV-EC1600W)
	Vertical travel	250mm (CV-EC1550), 300mm (CV-EC1600W)
	Travelling speed	0.5, 1, 2, 5mm/s at measuring
	Max. probing height (OD)	420mm (CV-EC1550) for outer diameter,
	May probing beight (D)	545mm (CV-EC1600W) for outer diameter
	Max. probing height (ID)	270mm (CV-EC1550) for inner diameter, 320mm (CV-EC1600W) for inner diameter
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	Radial arm unit	
	Radial travel	130mm (CV-EC1550),
		160mm (CV-EC1600W)
	Pick up unit	
	Pick up unit Measuring force	100mN or less (adjustable)
	Measuring range	1800µm
	Stylus	Radius 0.8mm, Tungsten carbide
_	019100	
	Analysis unit	
	Measuring magnification Digital filter	100, 200, 500, 1.000, 2.000, 5.000, 10.000, 20.000, 50.000X
	Roundness 2CR	N15, N50, N150, N500, N15-500, non-filter
	Gaussian	D15, D50, D150, D500, D15-500, non-filter
	Straightness 2CR	fh0.025, 0.08, 0.25, 0.8, 2.5, 8mm, non-filter
	Gaussian	fh0.025, 0.08, 0.25, 0.8, 2.5, 8mm, non-filter
	Determination method	MZC, LSC, MCC, MIC
	Geometrical features	Roundness, flatness, cylindricity, co-axiality, concentricity, runout,
		squareness, straightness, parallelism, thickness deviation
	Utilities	
		AC100V-220V, ±10%, 50/60Hz
	Power supply	ACTU07-2207, ±10%, 30/00HZ
	Analysis unit	
	Air supply	4.5 to 9.9kgf/cm² (440 to 970KPa), dry air
	Air pressure	4 to 5kgf/cm² (390 to 490KPa), 30Nl/min
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	Analysis unit	
	Measuring unit	590mm x 332mm x 918mm, 130kg (WxDxH)
	Amplifier PC and ariston	406mm x 342mm x 270mm, 20kg (WxDxH)
	PC and printer	Local supply
_	Operating environment	10°C to 30°C, RH 80% or less
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Standard delivery

- Measuring unit
- tandard probe
- Controller
- rogramm software

tional accessories

- C with monitor
- nterchangeable styli for different pplications: sk for separate overview
- Chucks ø 0.8 ~ 56mm used for lamping small diameter workpieces eference hemisphere for checking
- iccuracy
- rinter