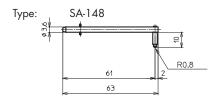
# **ROUNDNESS TESTER CV-EC1800 ™**

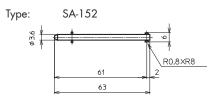
PC controlled roundness measuring system

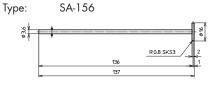
- Motorized auto centering and tilting support function
- Large stage size of 230mm
- Geometrical features:
- Roundness, straightness, cylindricity, spiral cylindricity, co-axiality, concentricity, parallelism, flatness, squareness, circular runout, thickness deviation, radius deviation, knife-edge analysis
- 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): 545mm for outer diameter
- Max. probing height (ID): 320mm for inner diameter
- 12 interchangeable styli available for all kinds of special applications

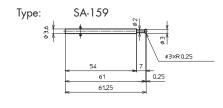


#### Styli for roundness testers

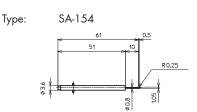


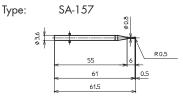


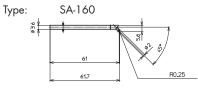


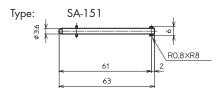


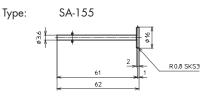


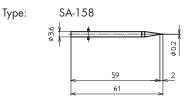


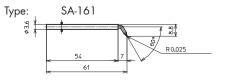












# **ROUNDNESS TESTER CV-EC1800 ™**

PC controlled roundness measuring system

#### **Technical specifications**

<b>Stage</b> Rotating method Rotating accuracy Rotating speed Stage size Centering adjustment range Leveling adjustment range Max. workpiece load Max. workpiece diameter	Porus static air bearing / stage rotation (0.04+0.0006H)µm H: Height from stage (mm) 1 to 6rpm 230mm dia ±5mm (Motorized) ±1° (Motorized) 25kg 368mm
<b>Column unit</b> Straightness Parallelism Vertical travel Travelling speed Max. measuring height Radial arm unit	0.4µm/100mm (1µm/300mm) 0.7µm/100mm (1.5µm/200mm) 300mm 0.5, 1 and 2mm/s at measuring, 5mm/sec at positioning 545mm for outer, 320mm for inner Radial travel: 160mm
<b>Pick up unit</b> Measuring force Measuring range Stylus	100mN or less (adjustable) 1800µm Radius 0.8mm, Tungsten carbide
Analysis unit Measuring magnification Digital filter Roundness 2CR Gaussian Straightness 2CR Gaussian Determination method Analysis items	100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K N15, N50, N150, N500, N15-500, non-filter D15, D50, D150, D500, D15-500, non-filter fh0.025, 0.08, 0.25, 0.8, 2.5, 8mm, non-filter fh0.025, 0.08, 0.25, 0.8, 2.5, 8mm, non-filter MZC, LSC, MCC, MIC Roundness, flatness, cylindericity, co-axiality, concentricity, run-out, squareness, straightness, parallelism, thickness deviation
<b>Utilities</b> Power Supply Air pressure at bearing Air Supply	AC100V, ±10%, 50/60Hz, 1KVA 4 to 5kgf/cm²G (390 to 490KPa), 30NI/min 4.5 to 9.9kgf/cm²G (440 to 970KPa), Dry air
<b>Dimensions</b> Measuring unit Amplifier PC and printer	600mm x 400mm x 910mm (WxDxH), 150kg 406mm x 342mm x 270mm (WxDxH), 20kg Local supply
Operating environment	10°C to 30°C, RH 80% or less

### Standard delivery

- Measuring unit
- Standard probe
- Controller
- Programm software

### **Optional accessories**

- PC with monitor
- Interchangeable styli for different applications: Ask for separate overview
- Chucks Ø 0.8 ~ 56mm used for clamping small diameter workpieces
- Reference hemisphere for checking
- accuracy
- Printer