



Features & Benefits

- Large capacity modular circular form measurement system.
- Natural granite base mounted on a fabricated steel frame with machine isolation leveling mounts.
- The 10.62" (270mm) \varnothing air bearing spindle with $\pm 2.5\mu$ " ($\pm 0.063\mu\text{m}$) accuracy and single speed AC synchronous motor drive with encoder connect to the industrial packaged computer interface module or PC.
- Easy to use integral touch screen control featuring metrology software which enables exact measurement of out-of-roundness, flatness, eccentricity, FIM, perpendicularity, etc.
- Harmonic analysis and DR/D \varnothing software allows in depth workpiece analysis for improving the manufacturing process and predicting part performance.
- Part measurements can be downloaded onto a 3.5" floppy, printed or uploaded.
- Optional swing out overhead bridge assembly to facilitate I.D./O.D. measurements.
- Movable gagestands are available for single or dual gage head measurements.
- Workpieces up to 1000lbs.(454Kg.) (balanced)
- Overhead bridge and granite base size can be specified to accommodate workpieces to 36"(900mm) \varnothing and 48"(1200mm) tall.
- Comes equipped with printer and operators instruction manual.

Specifications

Measurement (max)	Diameter	Height	Capacity
Basic System	36"(914mm)	48"(1219mm)	1000lbs.(453Kg)

Range/Resolution	Minimum	Maximum
Ranges	$\pm 50\mu$ " ($\pm 1.25\mu\text{m}$)	± 0.010 " ($\pm 0.25\text{mm}$)
Chart Scale	5μ " (0.1 μm)	0.001" (0.025mm)
Filter Response	0-15 CPR, 0-50 CPR, 0-150 CPR, 0-500 CPR	
Reference Circles	LSC, MRS, MIC, MCC (ANSI B89.3.1 -'72-'98) or none (manual)	

Rotary Table (Spindle)	Diameter	Rotation	Speed
Hardened SS Air Bearing Accuracies	10.62" (270mm)	Clockwise	1RPM/2RPM
	$\pm 2.5\mu$ " ($\pm 0.063\mu\text{m}$)	axial and radial	
	1 μ "/in. (0.025 μm /25mm)	angular (coning)	

Tilt & Center Table.	Opt. 15", 18" or 24"	(380mm, 455mm or 605mm)
Load Capacity:	1000 lbs. (453Kg)	
Center of Tilt	15" (455mm), 18" (500mm) & 24" (605mm)	
Tilt Range	$\pm 1^\circ$	
Centering Range	± 0.100 " ($\pm 2.5\text{mm}$)	

Gage Head, Adjustable Pivot Lever-Type	
Gaging Range	± 0.010 " ($\pm 0.25\text{mm}$)
Gaging Force	0.18oz. (5g), bi-directional
Fine Adjust Range	0.250" (6.35mm)
Contact Point	0.062" (1.6mm), dia. ruby ball

Base Module	Dimensions	Weight
Base w/spindle	Natural granite w/ fabricated steel frame and isolation leveling mounts.	
Overhead Bridge (opt.)	Mech. Vert./Hor. travel is rack & pinion driven. Hor. bridge rail rotates for easy part load/unload.	

CIM available in PC version	Dimensions	Weight
Color Touchscreen	10.4" (265mm) Active Matrix	
Computer Module	12.5"X10.5"X10.25"	15 lbs. (7Kg)
	80486 processor/80487 co-processor	
	Printer port/1.4MB floppy disk drive	

Utilities	
Operating Pressure	30-70PSIG (2-5Kgf/cm ²)
Air	1.5SCFM (0.040m ³ /m) @60PSIG (5Kgf/cm ²)
Filter/Regulator	5 micron built on base module
Power	110VAC, 60Hz(std.) or 220VAC, 50Hz(opt.)