



PDI Indi-Ron® Roundness Measurement Systems

Indi-Ron® GT Radial Measurement System

IndiRon® GT System

Components of the system are a portable bench top unit, including precision spindle, yoke, and TRO, on a 42" height stand, with a high quality granite surface plate provides an accurate datum around an 8" diameter.

The system's versatile 42" height stand permits easy measurement of part features, and a high quality granite surface plate provides an accurate datum around an 8" diameter.



Accuracy

Ball spindle accuracy of +/- 50 micro inches (0.0: 5 microns) both radially and axially with a coning effect of 4 micro inch per inch (0.072 microns per inch)

Powered by PDI's Roundness software the instrument will measure out-of-roundness by four different methods as described by ASME B89 National Standard.

- ✓ Minimum Radial Separation (MRS)
- ✓ Least Squares Center (LSC)
- ✓ Minimum Circumscribed Circle (MCC)
- ✓ Maximum Inscribed Circle (MIC)

Specifications

- Surface Plate: Granite, inspection grade, 20" (508mm) by 16" (406mm) deep x 2" (51mm) thick.
Weight: 120 lb (54.4 kg)
Weight Capacity: 50 lb (22.75 kg) balanced load.
Part Size Capacity: To 20" (508mm) diameter. Length limited only by weight and balance.
Height Stand: 20" (508mm) freestanding gage stand (standard)
Supply Voltage: 115vac (+/- 10%) 60 Hz (+/-0.1%)
Ball Spindle Accuracy (standard): ± 3.0 micro inches (± 0.083 microns) at worktable level, radially and axially, plus coning error not exceeding 2 micro inch/inch (0.050 micron/cm) above the table.
Air Spindle Systems Only (optional): Require clean dry, instrument quality air: oil content not to exceed 25 parts per million, water content less than 10°F (-12°C) dew point at atmospheric pressure, foreign particle size less than one micrometer. Air consumption 0.15 scfm to 1.5 scfm depending upon spindle.
Drive System: Gear driven
Rotation Speed: 4 RPM (60Hz)
Work Table: Centering Table, 8" (230mm) diameter, with 2-axis mechanical centering adjustment. Spherical Seat Tilt Base, 8" (203mm) diameter, with 2-axis mechanical tilt adjustment.
Input Transducer: T-425 Gage Head, lever type, with 1/16" (1.6mm) diameter carbide ball tip, built-in fine adjustment. Gaging force reversible, adjustable up to 3.0 grams per 0.010" (.025mm) travel. Gaging range ± 0.020 " (± 0.5 mm).

