

Roundtest RA-120 / 120P

SERIES 211 — Roundness Measuring Instruments

The Roundtest RA-120 / 120P are a compact, affordable, and simple-to-use device for measuring part geometry on the shop floor. It also provides such superb data analysis capabilities as required with laboratory roundness measuring instruments and has a $\pm 1000\mu\text{m}$ wide range detector and precision turn table with excellent rotation accuracy.



Z-axis scale unit



Optional X-axis stop



RA-120

Order No.: 211-621* (with mechanical table)

Order No.: 211-622* (with DAT function, mm)

Order No.: 211-623* (with DAT function, inch/mm)

* To denote your AC line voltage add the following suffixes to the order No. (e.g.: 211-621A: A for UJ/CSA, D for CEE, E for BS, DC for China, K for EK, No suffix is required for JIS/100V)

Functions

- Notched workpiece measurement
- Recalculation of datum/measured data
- Limaçon function compensates for eccentricity
- Rotation of 3D display**
- Real-time display**
- Simplified layout (divided layout)**
- Hair line, auxiliary line, hidden line, fill line**
- Color setting of measured data**
- Offsetting of recorded profile generation**
- Zooming of recorded profile**
- Data deletion**
- Graph analysis (displacement/angle between measured points)**
- Power spectrum analysis**
- Gear tooth analysis**
- Harmonic analysis**
- Text data output (via CSV format)**
- **Function of ROUNDPAK software

Air supply

- Air pressure: 390kPa
- Air consumption: 30L/min.
- Power supply: 100V AC – 240V AC, 50/60Hz
- Dimensions (W x D x H): 450 x 360 x 636mm
- Mass: 32kg (main unit), 2kg (air regulator)

Optional Accessory

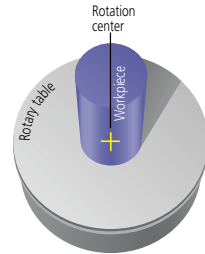
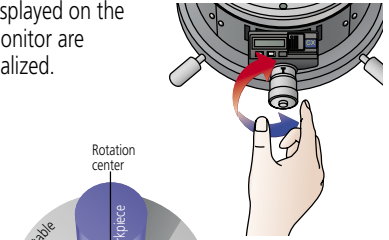
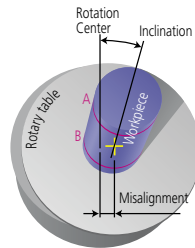
- 211-032:** Quick chuck (OD: 1 - 79mm, ID: 16 - 69mm)
- 211-014:** Three-jaw chuck (OD: 2 - 78mm, ID: 25 - 68mm)
- 211-031:** Micro-chuck (OD: 1.5mm max.)
- 211-061:** Collet chuck (OD: 0.5 - 10mm)
- Individual collets (See page 429.)
- 356038:** Auxiliary stage for a low-height workpiece
- 211-016:** Reference hemisphere
- 211-045:** Magnification checking gage
- 997090:** Gauge block set for calibration
- 12AAH320:** X-axis stop
- 211-013:** Vibration damping stand
- 12AAJ166:** ROUNDPAK software (inch/mm)
- 12AAJ167:** ROUNDPAK software (mm)
- Interchangeable styli (See page 440.)



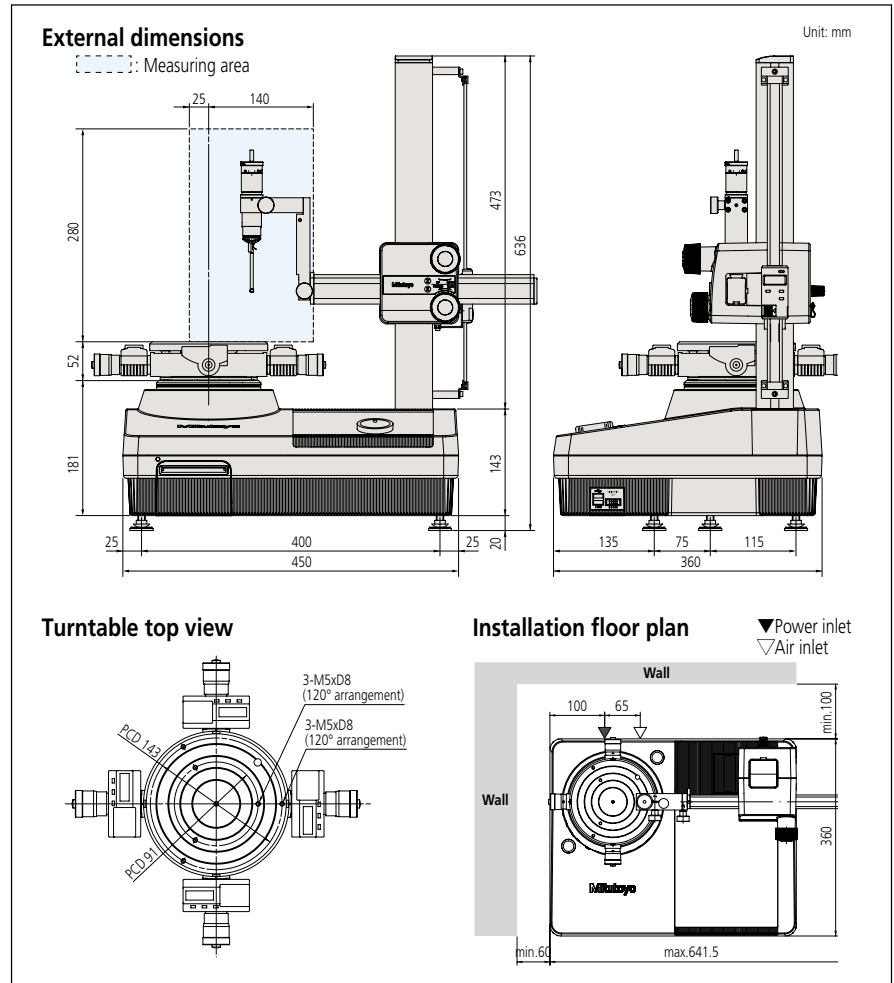
DAT (Digital Adjustment Table) function

The turntable digitally displays the centering and leveling adjustments, turning what used to be a difficult and finicky task into one that is simple enough for even untrained operator to perform.

1. Preliminary measurement of two cross sections "A" and "B".
2. Following preliminary measurement, the centering and leveling adjustment values are displayed on the monitor.
3. Manipulate the digital micrometer heads of the rotary table so that the adjustment values displayed on the monitor are realized.
4. Centering and leveling are complete. Centering range: $\pm 3\text{mm}$
Leveling (inclination) range: $\pm 1^\circ$



DIMENSION



CONSUMABLE PARTS

- 12AAH181:** Printer paper 10 rolls/set
- 358592:** Element for air filter 1 pc./set
- 358593:** Element for air regulator 10 pcs./set