

# Roundtest RA-2200CNC

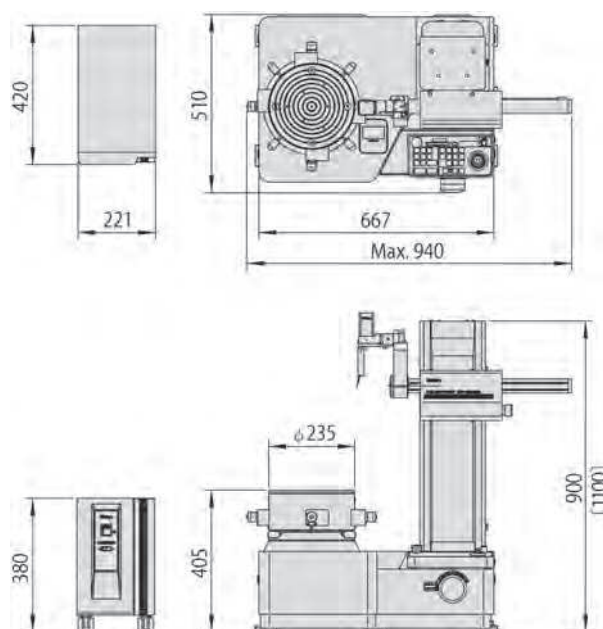
## Series 211 - High-precision Form Measuring Instrument

- A CNC system that combines high accuracy with automatic CNC measurements to greatly improve productivity and efficiency.
- The turntable provides high rotational accuracy (radial  $0.02+3.5H/10000 \mu\text{m}$  ; axial  $0.02+3.5X/10000 \mu\text{m}$ ), enabling the system to measure flatness and other characteristics, in addition to roundness/cylindricity, at a level that suits any application.



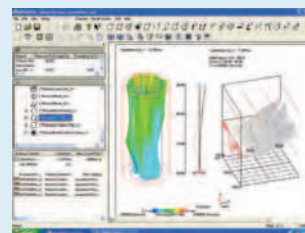
RA-2200 CNC + vibration isolator with side table

| No.      | Order No. UK only | Column travel            |
|----------|-------------------|--------------------------|
| 211-517D | 211-517E          | 300 mm (standard column) |
| 211-518D | 211-518E          | 500 mm (high column)     |



## Specifications

|                                         |                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------|
| Rotational accuracy radial              | $(0.02+3.5H/10000) \mu\text{m}$<br>H : Probing height (mm)                |
| Rotational accuracy axial               | $(0.02+3.5X/10000) \mu\text{m}$<br>X : Distance from rotation center (mm) |
| Rotational speed                        | 2, 4, 6, 10 rpm                                                           |
| Effective turntable diameter            | 235 mm                                                                    |
| Centering range                         | $\pm 3 \text{ mm}$ (with AAT function)                                    |
| Leveling range                          | $\pm 1^\circ$ (with AAT function)                                         |
| Max. probing diameter                   | 256 mm                                                                    |
| Max. workpiece diameter                 | 580 mm                                                                    |
| Max. turntable loading                  | 30 kg                                                                     |
| Traverse speed                          | Max. 50 mm/s (Measurement : 0,5/1,0/2,0/5,0 mm/s)                         |
| Max. probing depth with standard stylus | 26 mm for $\phi 12,7$ or more, 104 mm for $\phi 32$ or more               |
| Straightness                            | 0,7 $\mu\text{m}/150 \text{ mm}$                                          |
| Horizontal to rotation center           | 1,0 $\mu\text{m}/150 \text{ mm}$                                          |
| Travel speed                            | Max. 30 mm/s (Measurement 0,5, 1,0, 2,0, 5,0 mm/s)                        |
| Measuring range (standard)              | $\pm 400 \mu\text{m}$ , $\pm 40 \mu\text{m}$ , $\pm 4 \mu\text{m}$        |
| Traverse range                          | 175 mm (-25 mm to 150 mm)                                                 |
| Stylus                                  | $\phi 1,6 \text{ mm}$ tungsten carbide                                    |
| Air pressure                            | 0.39 MPa                                                                  |
| Air consumption                         | 30L/min. (standard state)                                                 |
| Measuring range                         | $\pm 5 \text{ mm}$                                                        |
| Power supply                            | 100-240 VAC, 50/60 Hz                                                     |
| Mass                                    | 180 kg (standard column)<br>200 kg (high column)                          |



## Roundpak

The roundness/cylindrical form analysis program