

Technical Specifications Roundtest semi-automatic

| Measuring instrument | | RA 1500 | RA 2100 DS | RA 2100 DH | RA 2100 AS | RA 2100 AH | RA H5100 AS | RA H5100 AH |
|---------------------------------------|----------------------|-------------------|-------------------|---------------|-------------------|---------------|---------------------------|----------------|
| Rotary table | | | | | | | | |
| Rotational accuracy | Radial | (0,02+6H/10000)µm | (0,02+5H/10000)µm | | (0,02+5H/10000)µm | | (0,02+4H/10000) µm | |
| | Axial | (0,02+6R/10000)µm | (0,02+6R/10000)µm | | (0,02+6R/10000)µm | | (0,02+6R/10000) µm | |
| Rotation speed | | 4, 6, 10 U/min | 2, 4, 6, 10 U/min | | 2, 4, 6, 10 U/min | | 2, 4, 6, 10 U/min | |
| Table diameter | | 150mm | 200mm | | 235mm | | 300mm | |
| Centering / leveling | | DAT | DAT | | AAT | | AAT | |
| Centering range | | ± 3mm | ± 5mm | | ± 3mm | | ± 5mm | |
| Leveling range | | ± 1° | ± 1° | | ± 1° | | ± 1° | |
| Max. workpiece mass | | 10 Kg | 30 Kg | | 30 Kg | | 65Kg / (80Kg without AAT) | |
| Max. measurable diameter | | 100mm | 300mm | | 300mm | | 400mm | |
| Max. workpiece diameter | | 400mm | 580mm | | 580mm | | 680mm | |
| Vertical axis (Z column) | | | | | | | | |
| Column moving range | | 150mm | 300mm | 500mm | 300mm | 500mm | 350mm | 550mm |
| Straightness | | 0,15µm / 50mm | 0,15µm / 100mm | | 0,15µm / 100mm | | 0,05µm / 100mm | |
| | | 0,3µm / 150mm | 0,25µm / 300mm | 0,4µm / 500mm | 0,25µm / 300mm | 0,4µm / 500mm | 0,14µm / 350mm | 0,2µm / 550mm |
| Parallelism | | 0,3µm / 150mm | 1,0µm / 300mm | 1,7µm / 500mm | 1,0µm / 300mm | 1,7µm / 500mm | 0,2µm / 350mm | 0,32µm / 550mm |
| Speed | positioning | 15mm/s | up to 35mm/s | | up to 35mm/s | | up to 60mm/s | |
| | measurment | 0,5, 1, 2, 5mm/s | 0,5, 1, 2, 5mm/s | | 0,5, 1, 2, 5mm/s | | 0,5, 1, 2, 5mm/s | |
| Max. measuring height | outside / inside | 150mm | 300mm | 500mm | 300mm | 500mm | 350mm | 550mm |
| | Max. measuring depth | 90mm | 100mm | | 100mm | | 100mm | |
| Horizontal axis (X axis) | | | | | | | | |
| Straightness | | - | 1,0µm / 150mm | | 1,0µm / 150mm | | 0,4µm / 200 mm | |
| Rectangularity | | - | 1,0µm / 150mm | | 1,0µm / 150mm | | 0,5µm / 200 mm | |
| Drive range | | 100mm | 200mm | | 200mm | | 225mm | |
| Speed | positioning | 8mm/s | up to 20mm/s | | up to 20mm/s | | up to 50mm/s | |
| | measurment | - | 0,5, 1, 2, 5 mm/s | | 0,5, 1, 2, 5 mm/s | | 0,5, 1, 2, 5 mm/s | |
| Detector for form deviation | | | | | | | | |
| Measuring force | | 7 to 10mN | 7 to 10mN | | 7 to 10mN | | 7 to 10mN | |
| Stylus tip carbide | | ball Ø 1,6mm | ball Ø 1,6mm | | ball Ø 1,6mm | | ball Ø 1,6mm | |
| Measuring range | Standard | ± 400µm | ± 400µm | | ± 400µm | | ± 400µm | |
| | Tracing | - | ± 5mm | | ± 5mm | | ± 5mm | |
| Measuring direction | | Inside / Outside | Inside / Outside | | Inside / Outside | | Inside / Outside | |
| Detector for surface roughness | | - | Option | | Option | | Option | |
| Measuring range | | - | ± 400µm | | ± 400µm | | ± 400µm | |

Mitutoyo: Specificationen Roundtest semi-automatic

| | | | | | | | |
|-----------------|---------|---------|---------|---------|---------|-------|-------|
| Air pressure | 0,39MPa | 0,39MPa | 0,39MPa | 0,39MPa | 0,39MPa | | |
| Air consumption | 30L/min | 30L/min | 30L/min | 30L/min | 45L/min | | |
| Main unit mass | 95Kg | 180Kg | 200Kg | 180Kg | 200Kg | 650Kg | 670Kg |