

Machine Name : profilometer

Brand : Mitutoyo

Machine Model : ROUNDTTEST RA-2100

Stock No. : 70376

Ex-factory Date :



Main Technical Parameters:

Brand: Mitutoyo ROUNDTTEST RA-2100

Worktable:

Repetition accuracy (radial): $(0.02 + 3.8H/10000)$ μm

Repetition accuracy (axial): $(0.02 + 3.8R/10000)$ μm

Maximum leveling amplitude: $\pm 1^\circ$

Maximum measured diameter: $\phi 300\text{mm}$

Maximum workpiece diameter: $\phi 580\text{mm}$

Worktable load: 30Kg

Z-axis:

Maximum positioning speed: 35mm/s

Maximum detection depth: 100mm

X axis:

Horizontal movement: 175mm

Straightness (2.5): 0.7 μm /150mm

Horizontal movement: 1.0 μm /150mm

Maximum positioning speed: 20mm/s

Measuring needle and probe:

Measuring range: $\pm 400\mu\text{m}$ ($\pm 5\text{mm}$: tracking range)

Force measurement: 7-10mN (level 5)

Measuring direction: two-way

Probe angle adjustment: $\pm 45^\circ$ (with scale)



