

TAYLOR HOBSON – TALYROND 250



Product Specification

Manufacturer : TAYLOR HOBSON

Model : TalyRond 250

Category : Lab Equipment And Accessories

Details : Straightness tester

Measurement capacity:

Maximum diameter: 300mm (11.8inch)

Maximum weight: 20Kg (44.1 lb)

Maximum height: 300mm (11.8 inch)

Worktable & spindle:

Workable diameter: 190mm

Speed of rotation: 6 rpm nominal, clockwise

Range of centering: $\pm 0.75\text{mm}$ (± 0.03)

Range of leveling: $\pm 2.6\text{m rad}$ (± 8.6 arc minutes)

Roundness limit of error (departure from least squares circle at 6 rpm with 0-50 u.p.r filter): Concentric load within $0.04\ \mu\text{m} + 0.0003\ \mu$

m/mm height above worktable ($1.5\ \mu\text{in} + 0.8\ \mu$ in/inch)*

Axial error: $0.1\ \mu\text{m}$ ($3.9\ \mu\text{in}$) maximum axial movement of worktable during one revolution

Vertical straightness module:

measurement length: 300mm (11.8inch)

Straightness limit of error (minimum zone straightness at 5mm.sec (0.2inch/sec) with 8.0mm (0.3inch)

cut-off low pass filter: $1.0\ \mu\text{m}$ over 300 mm ($39\ \mu\text{inch}$ over 11.8 inch) and $0.25\ \mu\text{m}$ over any 100 mm

traverse length ($10\ \mu\text{inch}$ over 3.9inch)

Positional control uncertainty: $100\ \mu\text{m} \pm 0.004$ inch) for one single move

Motorized radial arm:

Traverse length: 150mm (5.9inch) This may be set for up to 50 mm (1.97inch) of travel past the spindle axis ± 100 (± 0.004 inch) for one single move

Gauge:

Standard stylus arm length: 100mm (3.92inch)

Range of gauge movement with 100mm stylus arm: 2.0mm (0.079inch) nominal.

**ALL MACHINES COME WITH A 12 MONTH WARRANTY
FOR MORE INFORMATION, CALL TONY ON: 07774 624 977**