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Cranfield Precision UK



Cranfield Precision
DELTA TURN 40
High Precision Lathe
Hard Turning Machine

→ High Precision Lathe



Production Submicron Turning for Conventional and Hard Materials

The Cranfield Precision DeltaTurn40 machine is not just a lathe, it is a fully automated high precision Manufacturing cell complete with auto loading, 100% Part inspection and process feedback for tool wear compensation. The high accuracy and performance are obtained from the advanced machine tool technology used in the design.

Specification:

- ▶ Max. Workpiece Size: $\text{\O}70 \times 50$ mm long
- ▶ Size Tolerance: Within $0.5\mu\text{m}$
- ▶ Roundness: Within $0.15\mu\text{m}$
- ▶ Flatness: Within $0.25\mu\text{m}$
- ▶ Cylindricity: Within $1\mu\text{m}$
- ▶ High precision workspindles
<math> < 0.1\mu\text{m}</math> axial & radial error motions
- ▶ Max. Spindle Speed: 10,000 rpm
- ▶ Spindle (C axis) position control
capability to better than 1arcminute
between 50 - 200rpm
- ▶ 8 Multi-tool indexing system
tools on rotary plate actively
Compensated



High Precision Turning Machine



Hard Turning on the DeltaTurn 40

