



fives cinetic

# 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

