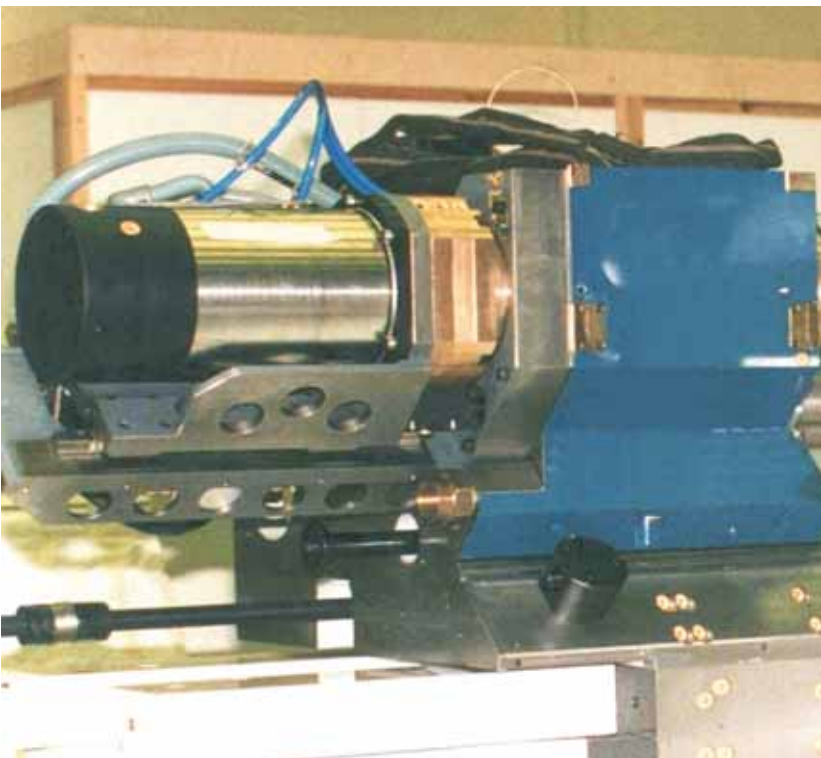




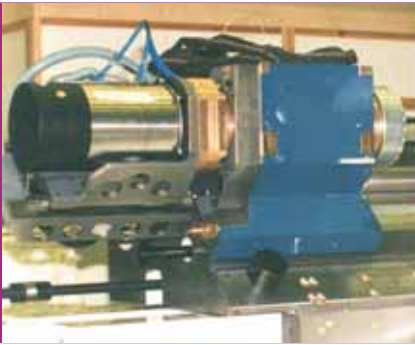
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# Cranfield Precision UK



Cranfield Precision  
**ULTRA PRECISION SPINDLE**

→ Ultra Precision Spindle



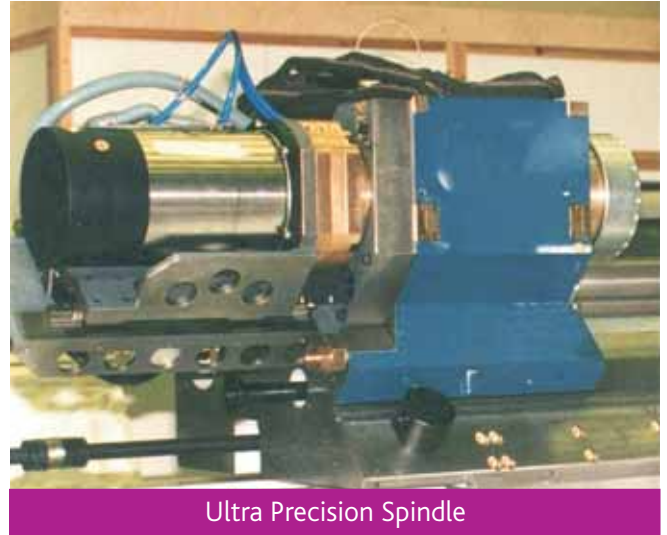
The Cranfield Precision Five Pocket Spindle is an ultra high precision hydrostatic spindle.

**Specification:**

- ▶ Speed range 0-900 rpm
- ▶ Peak torque 110 Nm
- ▶ Continuous torque 35 Nm
- ▶ Load capacity at spindle nose:
  - Radial 1000 kg
  - Axial 1200 kg
- ▶ Stiffness:
  - Radial 1000 N/ $\mu$ m
  - Axial 800 N/ $\mu$ m
- ▶ Error motion:
  - Synchronous < 100nm.
  - Asynchronous < 75nm (system dep)
- ▶ Integral brushless DC motor
- ▶ 400 Nm emergency brake
- ▶ 15 Nm metrology clamp
- ▶ Hydrostatic supply pressure 70 bar
- ▶ Integral motor cooling jacket

**Options:**

- ▶ Optical encoder for C-axis capability
- ▶  $\pm 0.01^{\circ}\text{C}$  70 bar hydraulic power pack
- ▶ Custom mounting interface



Ultra Precision Spindle

