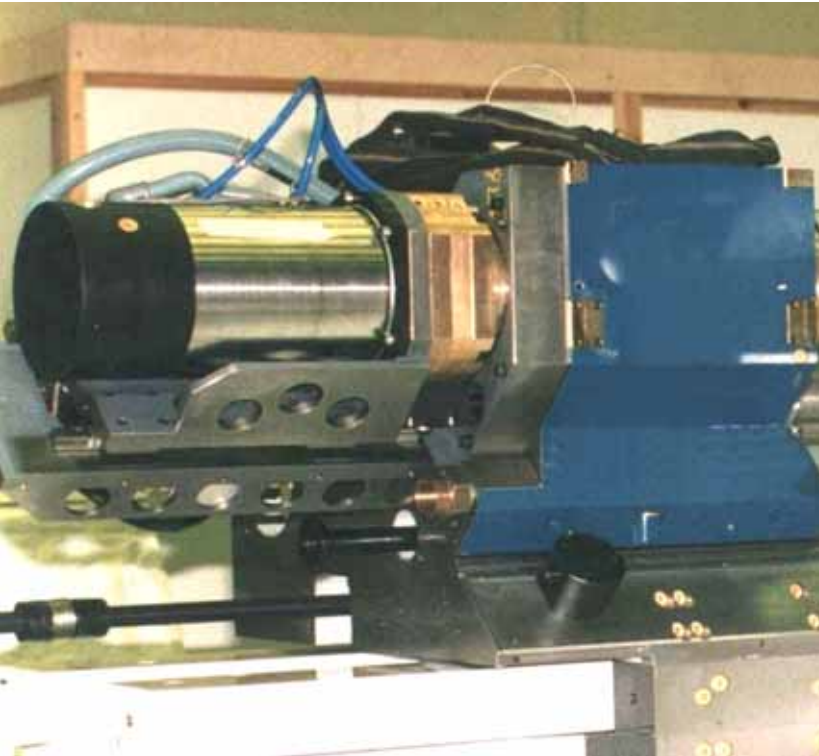




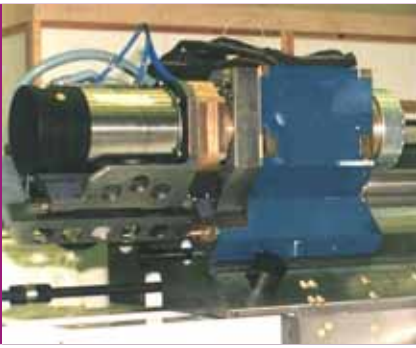
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Cranfield Precision UK



Cranfield Precision
ULTRA PRECISION SPINDLE

→ Ultra Precision Spindle



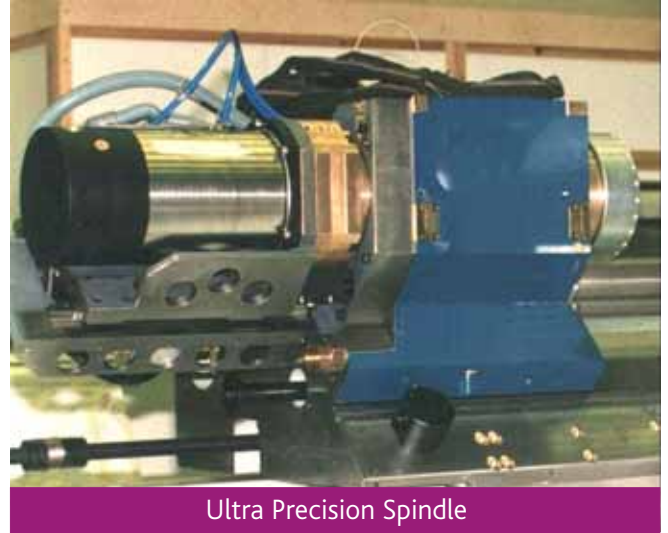
The Cranfield Precision Five Pocket Spindle is an ultra high precision hydrostatic spindle.

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/ μ m
 - Axial 800 N/ μ 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



CERT. NO. 920237