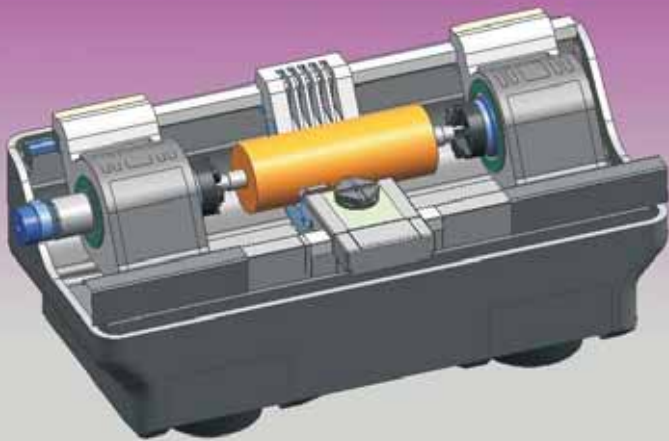




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# Cranfield Precision UK



Cranfield Precision  
**COMPANY PROFILE**  
High Precision Machine Tools  
Special Purpose Machines

→ [Company Profile](#)



**Cranfield Precision's strength lies in its ability to combine the inter-disciplinary skills of mechanical, electronic and software engineering to solve advanced manufacturing problems. Since its formation in 1968 Cranfield Precision has built up expertise in:**

- ▶ Design, build and manufacture of state-of the art ultra-precision machine tools to our customer's own specification(s).
- ▶ The design of highly stiff, well damped machine structures employing kinematic principles.
- ▶ Advanced control system design using the latest open architecture PC based hardware platforms. Multitasking, event driven interpolators interface laser and grating based encoding systems into high performance hybrid control loops.
- ▶ Electronic gearbox (EGB) techniques enable the precise position and velocity synchronisation of any combination of linear and rotary axes.
- ▶ Highly precise servo control positioning at nanometre or sub-arcsecond level with velocity control to 1/40 of earth rate.
- ▶ Profilometry for high-resolution topographical analysis of large optical quality workpieces.
- ▶ Machining processes, particularly diamond turning, conventional grinding, super abrasive finishing, hard turning, and damage free grinding of brittle materials, e.g. silicon, BK7 glass.
- ▶ Finite element analysis of complex nonlinear Solid modelled designs.



Complex Machining Problems Solved



Special Purpose Machine Design and Build



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