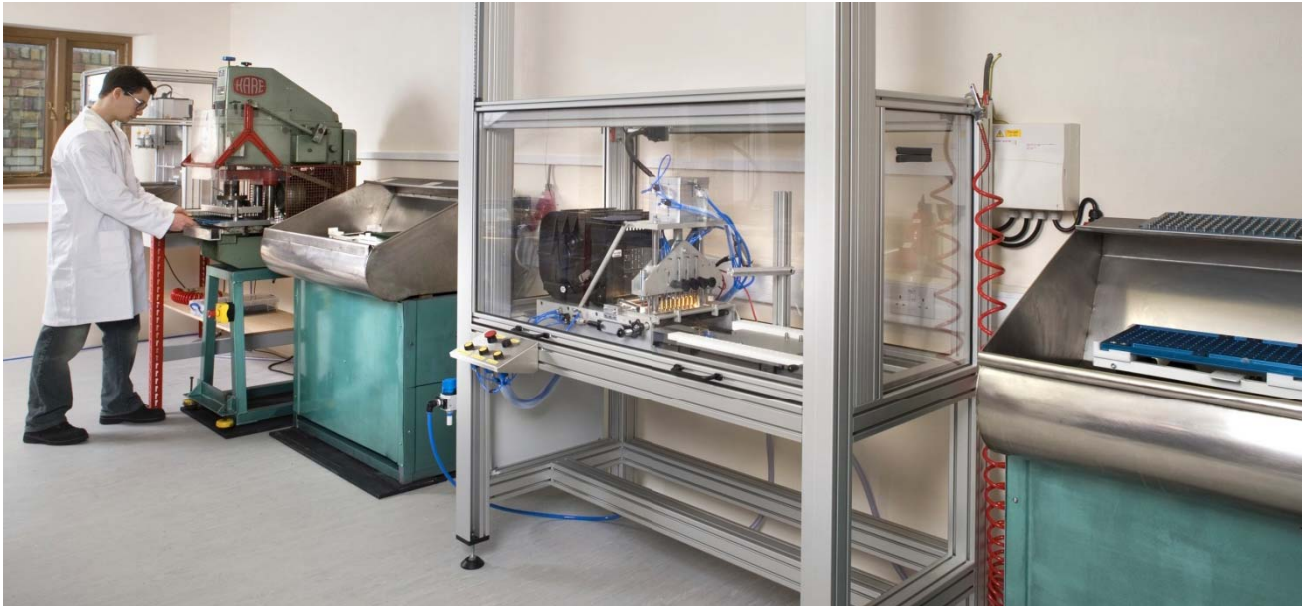


Research · Industrial Design · Engineering Science · Medical · Technology Development · Electronics · Software · Innovation



## Design and Start-Up Production - Holographic Moisture Sensor

Which came first the chicken or the egg? Do you build a fully automated production system at financial risk depending on successful product trials or accept a technical risk at product trials with hand built samples?

CDP offered the capability to develop concurrently a sensor housing and an automated assembly/packaging line for Cambridge technology company Smart Holograms as a one stop shop for new product production trials against aggressive timescales.

The Smart Holograms sensor responds to minute quantities of moisture by changing colour to highlight the presence of water in aviation fuel. This is a common but potentially fatal problem.

### *Skills deployed*

- Detail product development
- Production engineering
- Scientific product testing
- Quality Assurance procedure

### *Technical Highlights*

- Humidity controlled packaging
- High precision tooling
- Production line management
- Shaker table design

Smart Holograms now own a proven product and packaging line capable of 2000 sensors per hour. The system and sensor housing were designed, manufactured, assembled and tested within 6 months.

**'CDP are a great team to work with. They combine enthusiasm, innovative ideas, a broad depth of knowledge and significant engineering resources to provide timely and cost effective solutions.'**

**Further to this, their work ethic & customer focus makes it very enjoyable to create new products or processes with them.'**

*Engineering Group Leader, Smart Holograms*

