

# Mechanical



Design and Manufacture Services



## Design | Manufacture | Inspect

### Services

- Design of Mechanical Solutions
- Legacy Systems
- Prototyping & Production
- Inspection of Mechanical Assemblies and Third Party Components
- Improving Existing Designs

# Mechanical



## Design and Manufacture Services

Finding a single source provider of complete solutions for electronic and mechanical design and production is challenging. Having directly experienced this problem, HGL has brought together at its Lincoln site the technologies, facilities and skillsets required to fulfil this market need.

### Design

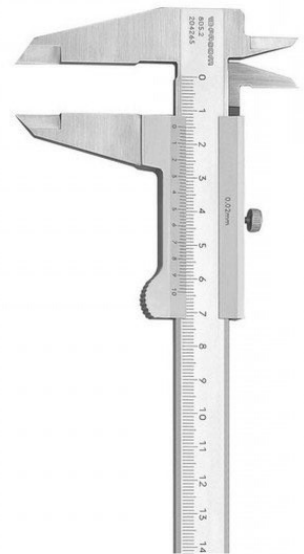
HGL Dynamic's team of Mechanical Design Engineers is highly skilled in high end electronic enclosures. Team members have a wide range of experience in fields varying from power generation to motor sports.

This wealth of knowledge allows HGL Dynamics to undertake an expansive spectrum of mechanical design tasks. Using cross compatible industry standard software, your visions can be quickly turned into reality.

### Reverse Engineering

Using a CMM system linked to our CAD tools, HGL Dynamics can rapidly produce solid models of obsolete or bespoke components.

Where required, we can then advise where improvements can be made or manufacturing can be simplified. The CAM software allows us to generate 3-axis tool paths quickly and transfer the information to our high speed milling machine. Our integrated processes allow us to respond very quickly to your requests.



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## Prototype and Production

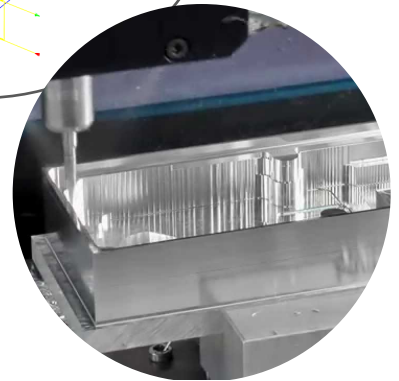
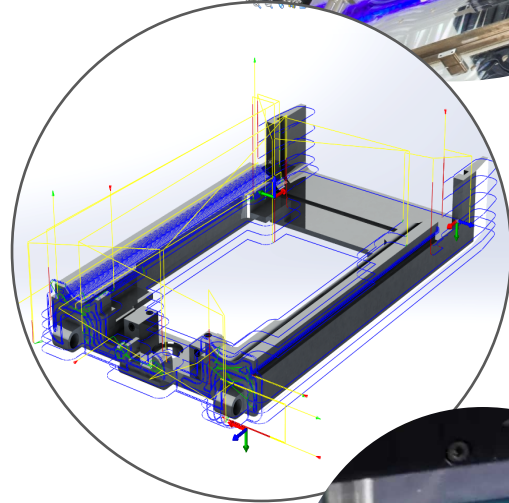
HGL Dynamics' investment in state of the art machines, tooling and software allows us to produce your prototype parts and low volume production runs in a timely and cost effective manner.

Our Datron M8 Cube VMC is suited to the production of precision components for many market sectors, including:

- Electronics Industry
- Motorsport Components  
*Parts for classic, vintage or customised cars and motorcycles*
- Automotive Industry
- Oil and Gas Industry
- Aerospace
- Renewable Energy Sector

The M8 Cube is capable of manufacturing parts for many applications, examples include:

- Front Panels
- Electronic Enclosures
- Technical Components



## Quality

Our CMM measurement facility enables us to ensure that all components produced meet the drawing limits and tolerances.

We also work closely with one of the largest metal plating specialists in the East of England to provide a wide range of metal finishing solutions.

HGL Dynamics holds BSI accreditation to ISO 9001 to cover its design and manufacture processes. In addition we have passed audits by several aero engine manufacturers allowing us to supply them with equipment and engineering services.

