



The Complete Engineering Solution

## Bespoke Manufacturing & Toolmaking Solutions

We are a dynamic precision engineering and toolmaking company specialising in the design and manufacture of mould tools, mould tools for composites, jigs, fixtures, and low-volume production machining.

Utilising our range of state-of-the-art CNC machine tools, we produce high-quality, high-precision parts in an efficient, streamlined manner.

Our skilled and experienced engineers are able to complete your tooling requirements to the highest standards.

### DESIGN

**DFM Consultation** – ‘Design for manufacture’ advice and guidance offered to our clients prior to commencing their tool designs.

**Project management** – Providing the ‘Complete engineered solution’ from design through to manufacture including all project specific requirements.

**3D modelling & surfacing** – In house designers create 3D components from 2D drawings and supply 3D cad models in various formats.

**Mould tool design** – From customer supplied component data we create 3D CAD tool designs and supply 2D G.A’s for client approval prior to manufacture.

**Component design** – Liaising with our clients we ensure that the designs meet their exacting requirements and are also fit for purpose.

**CAM programming** – Utilising multiple seats of the ‘best in class’ CAM software ensures toolpaths run smoothly and efficiently at optimum speeds and feeds.

**Reverse Engineering** – Probing components on our ceramic guided CNC CMM allows for precise measurement with the option of a laser scanner attachment.

### TOOLING

**Rubber mould tools** – Prototype and full production tooling. Compression, Injection, Transfer injection & LSR – all tooling variants are catered for.

**Extrusion blow moulds** – pilot moulds, single cavity, 2x2 moulds and 2x4 moulds are manufactured in various grades of aluminium and stainless steel.

**Aluminium composite moulds** – Lightweight, quick turnaround tooling with highly polished surface finishes and scribed lines (where required).

**Mould tool modifications** – Form alterations, replacement inserts and date stamps etc. are changed with ease by our highly skilled toolmakers.

**Mould tool refurbishment** – Laser welding alongside cavity and split face machining operations are all undertaken with in-house mould polishing.

**Jigs, fixtures & gauges** – Assembly, inspection, checking, alignment and drilling jigs & fixture are designed and manufactured to exacting geometric tolerances.

**Consumables & ancillaries** – Interchangeable wear parts and consumables are supplied to ensure continuing production of our clients mould tools and machines.

### MANUFACTURING

**3 axis machining** – With an x axis traverse of over 2000mm, a 46KW spindle and the latest Heidenhain control with Renishaw probing – quality is guaranteed.

**5 axis machining** – Four DMG Mori machines deliver exceptional performance and accuracy as expected of this world leading brand.

**CNC Turn mill** – Providing turned parts with milling operations all on the same machine equates to faster and more accurate components.

**EDM machining** – Electric discharge machining (spark eroding) enables the machining of intricate details that milling and turning operations can’t produce.

**Surface grinding** – Finishing parts within microns (0.0025mm) ensures the precise finish and fit required for various clients.

**Finishing & treatments** – In-house polishing accompanied with external heat treatment, surface treatments and testing create the perfect finished article.

**Inspection & quality** – Our ISO 9001:2015 QMS is the key focus within the business and also the industry standard expected by our clients.

*The Complete engineering & manufacturing service*

Our Sectors include:-

2026

AUTOMOTIVE ■ FOOD & BEVERAGE ■ AEROSPACE ■ DEFENCE ■ RUBBER & INJECTION MOULDING

