



**Your Innovative Partner for  
Machining & Fixturing Solutions**

[www.Vertex-Eng.co.uk](http://www.Vertex-Eng.co.uk)

# The Company



Vertex Engineering Solutions is a provider of low volume specialist components, fixture design and manufacture, prototype components, mould and die manufacture, spark erosion (EDM) and CAD/CAM engineering solutions.

We provide a complete project management solution, from design through to manufacture, assembly, testing and inspection.

Located in Hockley in the heart of Birmingham, in a high-skill area of the West Midlands, we are close to companies that complement our capability enabling us to work closely and efficiently with foundries, forges, paint finishers, heat treatment and other specialist process providers.

Our staff are highly skilled and experienced engineers who love a challenge and take great pride and care in their work. Over 50% of our workforce have been with the company for over 25 years enabling Vertex to offer

its customers a very experienced service from a proven team.

Vertex was acquired in 2015 and is part of the Autocraft Solutions Group, one of Europe's leading OEM partners for the manufacture of outsourced engines, EV battery assembly and remanufacture, component machining and future propulsion solutions to a global market.

We service and support many customers in the following industries:

- » Aerospace
- » Automotive
- » Medical
- » Marine
- » Food
- » Nuclear
- » Oil & Gas

# What We Do



- » Low Volume 3-, 4- & 5-Axis Machining
- » 2 & 3-axis CNC Turning
- » Prototype Machining from a Variety of Materials
- » Fixture Design & Manufacture
- » Mould & Die Manufacture
- » Lost Wax Tooling
- » Full CMM Quality Assurance

## Traditional Toolroom Capability in Birmingham





## Low Volume & Prototype Machining



Vertex Engineering Solutions is a specialist in low volume and prototype components from castings and solid billet.

We have a range of machine tools at our factory in Birmingham, capable of 3-axis up to simultaneous 5-axis machining. Alongside our huge DMGMori DMF travelling column machining centre, MAZAK Variaxis i600 5-axis and Nexus 510C-II vertical machining centres, we have a range of universal machining centres, turning centres, jig borers, surface grinders and bed mills that provides a flexible and competitive machining capability.

We can machine in most materials, from aluminium to hard steels, and specialist metals such as NiAlBronze and gunmetals.

We offer Spark Erosion on our Agie Charmilles EDM machine and other processes such as jig boring on our Genevoise Sip 8 Jig Borer.

### Full CAD/CAM “Design & Make” Capability

Our highly skilled CAD/CAM engineers can turn your ideas into reality. We offer a full ‘Design & Make’ service, using efficient programming techniques and machining strategies.

Our Mitutoyo Crysta C9106 CMM machine with full Renishaw probing and quality assurance checks ensure you have quality product, every time. We are also BSI ISO 9001 approved and with the support of our sister companies Autocraft Drivetrain Solutions and Autocraft Machining Solutions, we provide full Tier 1 project management and quality approach to IATF 16949 standards.

- » 3, 4 & 5-axis Prismatic Components
- » 2 & 3-axis Turned Components
- » Machining from Solid & Castings

## Mould & Die Manufacture



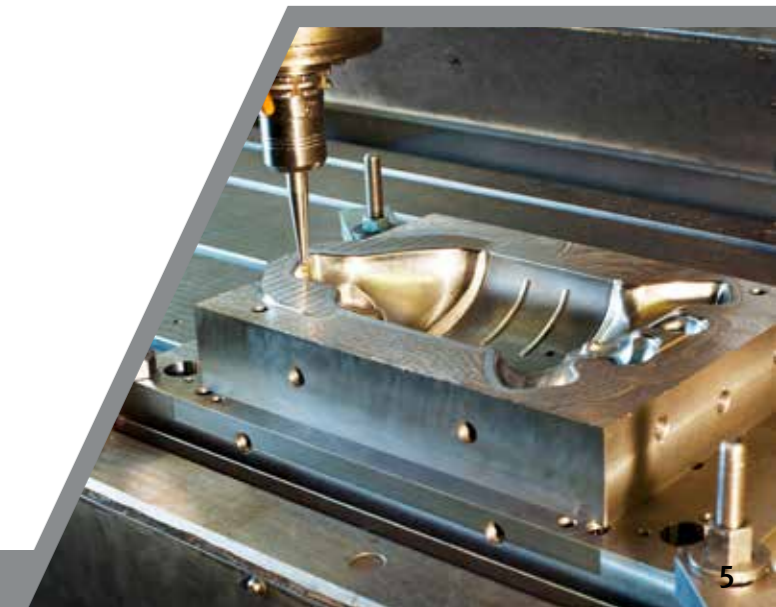
Vertex has over 35 years of mould and die toolmaking experience in extrusion, foil, lamination and medium progression tools.

We can produce many types of tools including injection and pressure dies, prototype and vacuum forming moulds and tools, as well as lost wax tooling, to give you a flawless finish.

Our enormous new DMGMori DMF 2600|11 travelling column 5-axis machining centre gives us the flexibility and accuracy to produce mould and die sections up to 3200mm long by 1100mm in size.

- » Aluminium Pressure Dies
- » Plastic Injection Moulding Tools
- » Prototype Component Manufacture
- » Lost Wax Tooling

### Huge Capacity, Highly Accurate Mould & Die Machining







We have a long history of high quality, high accuracy fixture design and manufacture. We can produce pallets and tombstones for all your machining needs; our Sip 8 Jig Borer and DMGMori machines allow us to make fixture components and extremely large tombstone fixtures up to 1100mm wide and over 3m long.

Our customer base is diverse so we're very experienced in accepting CAD data from a variety of different software packages. We use Vero Visicam CAD/CAM and Solidworks as our main platforms to provide machining fixture design and manufacture for the automotive and aerospace sectors.

Vertex Engineering Solutions is part of the AUTOCRAFT SOLUTIONS GROUP, one of Europe's leading OEM partners for the manufacture of outsourced engines, EV battery assembly and remanufacture, and future propulsion solutions to a global market. Combining the expertise at three sites across the UK, Autocraft Solutions Group provides an array of engineering services to the global OEMs and their supply chains.

### AUTOCRAFT SOLUTIONS GROUP AT A GLANCE

**200+**  
EMPLOYEES

**3**  
LOCATIONS

**40+**  
YEARS AT  
GRANTHAM SITE

**£25M**  
REVENUE  
PER ANNUM

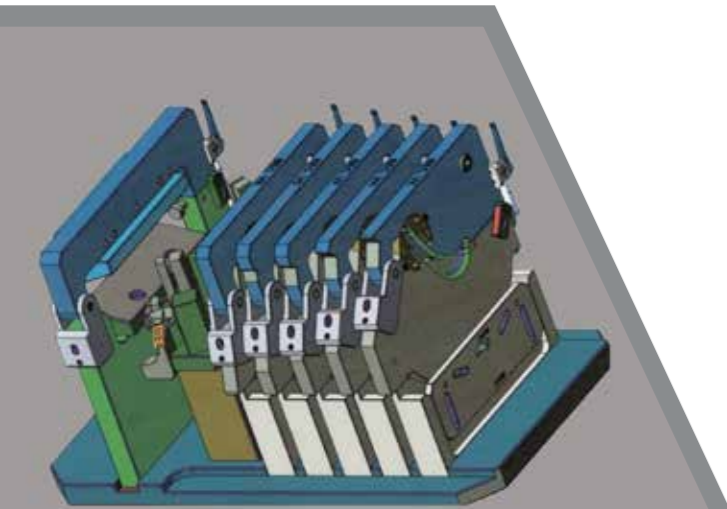
### Vertex can supply:

- » Gauging and Inspection Fixtures
- » Assembly & Welding Fixtures
- » Machining Fixtures
- » Tombstone Fixtures

Our ethos is to 'provide innovative manufacturing solutions to help our customers stay ahead'. To do this, (in addition to Vertex's capabilities), our main service solutions include:

- » New engine assembly, modification and conversion
- » Engine remanufacturing, testing and auditing
- » Hybrid vehicle systems, power electronics, EV battery assembly and remanufacture
- » Cylinder head and block machining
- » 5-axis medium to high volume machining

For more information, please call: +44 (0)1476 581300 or visit: [www.AutocraftSG.com](http://www.AutocraftSG.com)





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