

**KMF**GROUP

[kmf.co.uk](http://kmf.co.uk)

# AEROSPACE PRODUCTS

Market Leading Precision Sheet Metal  
and Precision Engineering



# SHEET METAL MANUFACTURING

Established in 1971, KMF Group is the leading provider of precision sheet metal manufacturing and precision engineering to companies within the aerospace sector. We have been delivering innovative and comprehensive manufacturing solutions to our customers for over 45 years.

Our agile manufacturing processes offer the flexibility your products require, while meeting or exceeding all technological, quality and regulatory requirements demanded by the aerospace industry. When you engage with KMF, you gain a reliable, single-source manufacturing partner, committed to exceptional customer service, operation excellence and high quality.



## Expert Precision Sheet Metal Fabrication

Our comprehensive conventional and CNC fabrication and machining facilities extend to 225,000 Square Ft and run 24 hours a day, 7 days a week, located in Staffordshire in the UK and Trencin, Slovakia.

We deliver a wide range of custom manufactured components, including complete turn-key solutions to key supply chains in the UK and Europe.

Within our modern fabrication and assembly facilities, we offer standard fabrication processes such as CNC punching, bending and welding, as well as value-added services such as product design, electro-mechanical integration and specialist marking.

We also house dedicated manufacturing units for stainless steel fabrications, specialist integration and manufacture for quality stringent sectors such as Aerospace, Medical and Military.

Additionally, our manufacturing facilities are supported by comprehensive in-house testing and quality assurance, to ensure your components are fabricated, machined, coated, integrated or painted exactly how you have specified.

State of the art technology, four ISO accreditations and high capacity allows us to consistently meet the mid-to-low volume, high complexity demands of our aerospace customers within exceptional lead times and to the highest quality.

### Services at a glance:

- CNC Punching
- Laser Cutting
- Bending
- Welding
- 5-Axis Machining
- CNC Milling
- CNC Turning
- Deburring / Graining
- Inserting
- Powder Painting / Silk Screening
- Part Identification Marking
- Laser Etching
- Full Traceability
- Passivation
- 3D Design & Development
- Electro-Mechanical Integration
- Assembly
- Custom Despatch

# MACHINED COMPONENTS & TECHNOLOGICAL INNOVATION



## High Precision Components

Leading aircraft manufacturers face challenges including continuous product innovations, which increase complexity, miniaturization and demand for high precision. KMF's advanced technology, expertise and extensive machining capacity secures our ability to provide the level of manufacture required for aircraft components.

Our impressive array of equipment—including simultaneous and fixed 5-axis technology, sliding head machining centres, multi-axial milling and turning machines, precision tapping centres and metrology equipment—serves a single purpose: ensuring the highest precision and quality of the production of machined components.

In addition, our automated Mazak Pallettech systems are designed with the flexibility required for creating shorter cycle times, reducing in-process inventory and simultaneously producing multiple parts over a single shift.

The latest CNC machines, innovative design technologies, experienced industry professionals and an expedited delivery schedule make KMF the perfect manufacturing partner for ambitious aerospace manufacturers.

## Small batches to large-scale product transfers

Although KMF has the capacity to fulfil both small and large batches depending on customer requirements, we also have extensive experience of dealing with large scale product transfers.

KMF Group can offer shared expertise and manufacturing resources within the engineering sector, allowing us to act as a single source manufacturing solution for supply chains requiring complex, multi-part assemblies.

We can work on complex production processes and cut investment and tooling costs, allowing clients to focus on core competencies and receive a greater return on their outsourcing investment.

There is no need to use several suppliers as KMF can assist with design, prototype, fabricate, engineer, integrate and assemble complete turnkey solutions, on time and within budget.







# INNOVATIVE, RELIABLE MANUFACTURING SOLUTIONS FOR YOUR CRITICAL PRODUCTS

**KMF Group supplies machined components and precision engineered metal fabrications to major players in the aerospace industry, supporting a variety of aircraft programs including aircraft seating and power management.**

Aerospace products depend on innovative solutions to support highly complex, sensitive products from design to delivery. KMF work to understand the unique market needs of the aerospace sector, to provide solutions that help you reach your objectives. We work as your partner, to improve competitiveness and quality, reduce time to market and simplify your supply chain.

The KMF Group's offering of advanced precision engineering and high-tech metal fabrication can provide a single source solution for aerospace companies, from the trouble-free manufacture of one-off prototypes to complex component assembly and large-scale batch production.

Our engineers are fully versed in working with advanced aerospace metals such as titanium, aluminium and specialist steels/alloys, and our skilled workforce has years of experience in the machining of large and small, standard and complex components to the very highest specifications.

## Product Experience

KMF have over 45 years experience in the manufacture of aerospace parts. Extensive expertise in the design and manufacture of specialised aircraft assemblies ensure any part you order conforms to your exacting requirements.

- ◆ Avionics and avionics components
- ◆ Interiors such as seat trays, seat shell parts, storage cabinets, air purification units, lighting, panels and frameworks
- ◆ Cabinets and frames for electronic and AV units.
- ◆ Pre-flight airline products such as self-checkout kiosks and security scanning equipment



# DEDICATED AEROSPACE FACILITIES

KMF Group has future-proofed the global growth potential of the aerospace sector through the construction of a multi-million-pound 'Advanced Solutions' facility — a purpose-built aerospace engineering unit that operates under fully documented quality control procedures.

The 11,000 Square Ft Advanced Solutions facility allows KMF to excel in supplying the aerospace market and complements the effective working methods,

processes, measurements and control systems already in place, which make KMF a leading UK supplier of precision sheet metal solutions.

The unit offers the latest technology in sheet metal manufacturing equipment along with the enhanced features of a computer-controlled tower inventory and an electrostatic discharge (ESD) compliant integration suite.

## Full Product Traceability & Specialised Electrical Integration

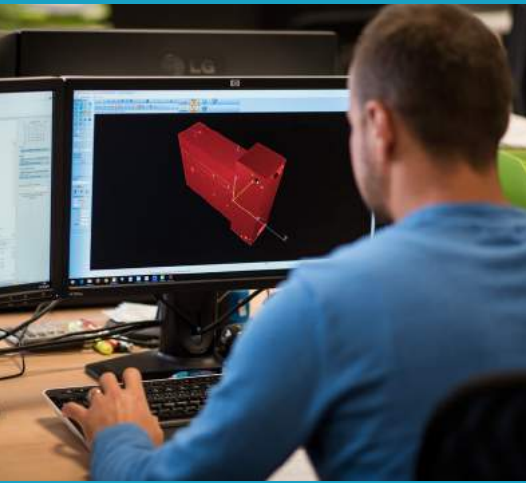
Sharing the state-of-the-art cutting and profiling equipment with the main metal fabrication site, the Advanced Solutions facility adds tight process control and full product traceability to meet the needs of this demanding sector and those requiring specialised electrical integration.

Staff work hard to maintain both product and process integrity, maintaining a BSI AS9100 accreditation by employing visual controls and error proofing systems wherever practical. This ensures order reliability and repeatability.

When required, manufactured subpart traceability can be provided by the use of efficient part marking systems and advanced ERP software, to link component level to customer contracts.



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## PRODUCT DESIGN ASSISTANCE

**Innovative solutions to add value and improve competitiveness**

- Expert project management with a focus on quality, cost efficiency, shorter lead times and product suitability
- Design for Manufacture and a value engineering methodology
- The ability to offer comprehensive, integrated solutions



## NEW PRODUCT INTRODUCTION

**Transforming designs into competitive, manufacturable products**

- Rapid prototyping and robust testing for manufacturability and high quality
- The latest technology and software to provide product development and cost improvements in both production concepts and new product solutions
- Proven systems to move seamlessly from NPI to repeat order



## MANUFACTURE

**Industry leading technology and process verification to consistently deliver quality**

- Deliver full turn-key manufacturing solutions on-time and defect-free
- Proactively seek solutions to problems with a focus on improving affordability and efficiency
- Unrivalled technology and capacity to comfortably meet growth ambitions with speed and high quality

## ISO AS9100

KMF is one of few UK machining and fabrication manufacturers to hold four ISO Accreditations: ISO 9001:2015 Quality Management, ISO 14001 Environmental Standard, ISO 9100 Aerospace and OSHAS 18001 Health and Safety Standard.

AS9100 is a widely adopted and standardised quality management system for the aerospace industry where quality and reliability are essential for safety and performance.

Our continued registration to AS9100 underpins the company's quality management principles while the group's statistical approach to process improvement allows us to test our performance standards with the utmost rigour, whilst recognising standardisation and customer satisfaction.

To meet the requirements of AS9100 KMF operates fully documented quality control procedures and adheres to a quality management system.



# TURING OVERVIEW PROCESS FLOW

KMF aim to build valuable integrated relationships with customers in order to consistently meet high standards for business practices, environmental responsibility and operational excellence. All customers benefit from our integrated processes and management tools, as KMF utilise common procedures throughout all of our manufacturing facilities.

An understanding of your market needs, alongside extensive experience with highly complex, sensitive products from design to delivery, allows KMF to provide solutions that help you reach your business objectives.



## SUPPLY CHAIN MANAGEMENT

**Value-adding sourcing and a cost competitive culture**

- A strong supplier network which is committed to working towards innovations to drive cost, reliability and capacity
- Aim to strengthen your supply chain by building integral relationships, offering expertise on new materials and processes
- A best in class Enterprise Resource Planning (ERP) system, using a system of integrated applications, to simultaneously manage complex sourcing and production processes

## INTEGRATION

**Full turnkey electro-mechanical integration capabilities**

- An electrostatic discharge assembly area for dedicated assembly of static sensitive components and individual integration business units for each customer and their products, in order to provide the most cost-effective manufacturing solutions
- Ability to build looms, manage printed circuit boards and design bespoke functional test fixtures
- Allows KMF to act as a single source manufacturing solution for high-level, value-added assembly work

## QUALITY

**Rigorous quality standards and regulatory requirements**

- Product testing, formal systematic methods and interim control points for quality assurance
- Engagement in Continuous Improvement programmes that increase organisational efficiency, reduce product costs, improve product and process performance, reduce cycle times and eliminate waste
- Four ISO Accreditations, representing strong commitment to quality, the environment and health and safety

# UNRIVALLED CAPACITY AND TECHNOLOGY

KMF understand that Aerospace manufacturers are challenged with constant innovation, product development and competitive pressure. For this reason, technological investment is always a focus of our business strategies.



Over the last 3 years, we have invested over **9 Million pounds** into new machinery and technological advancements. We anticipate the future market needs of our customers and ensure the machines our customers require next week, are available today.

Our unrivalled technology, automation, forecast reaction to our customers' needs and the skills and stability of our staff allows us to deliver quality components with maximum speed, efficiency and reliability.







#### One-Stop-Shop

Flexible and reliable production, from design to delivery



#### Exceptional Turnaround

An average lead time of 10-15 days



#### Excellent Design and NPI Departments

Over 500 new products a month



#### Capacity

Impressive facilities, allowing both small and large batches



#### Accreditation

Allowing quality and dedicated medical, aerospace and stainless steel units



#### Competitive

Industry leading technology and material nesting

## A World Leader in Aerospace Equipment

*“During the several years since we embarked on our journey with KMF Precision Sheet Metal and more recently KMF Precision Engineering, the account has grown considerably in activity and volume as such it now encompasses thousands of unique parts ranging from the simplest of components, right through to the most integrated assemblies.*

*This growth has been supported by the use of several cost models to enable quick, clear and concise pricing to take place.*

*KMF as a group not only supply sheet metal and machined components direct into various manufacturing sites throughout the UK but also directly into our third party supply chain across the globe.*

*KMF are a fully integrated technical partner, providing full DFM activities ranging from simple advice through to complete re design of products and training sessions for our own personal, to ensure that maximum value is achieved*

*Our past and continued growth is very much linked to its Supply Chain Partnership with KMF Group.”*



## Global Provider of Digital Printing Solutions

*“KMF is a fantastic steel manufacturer who always provide us with great performance and support. Their ‘100% On Time’ delivery record with us, ensures we can always rely on them to sustain our busy distribution schedule.*

*Their response times and willingness to help when facing complications is amongst the best in the industry and remains one of the main reasons we will always consider them for new business”.*

# KMF GROUP

We are a trusted manufacturing partner to successful aerospace manufacturers and to producers of high value parts in fast growing market segments.

If you are looking to add value to your business, get in touch.

[Sales@kmf.co.uk](mailto:Sales@kmf.co.uk) | [kmf.co.uk](http://kmf.co.uk)

UK

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## KMF

PRECISION SHEET METAL

Millennium Way  
High Carr Business Park  
Newcastle-under-Lyme  
Staffordshire. ST5 7UF

01782 569060  
[info@kmf.co.uk](mailto:info@kmf.co.uk)

## KMF

PRECISION ENGINEERING

Unit 5, Rosevale Business Park  
Rosevale Road  
Newcastle-under-Lyme  
Staffordshire. ST5 7UB

01782 563020  
[info@kmfprecision.co.uk](mailto:info@kmfprecision.co.uk)

## KMF

SLOVAKIA  
PRECISION SHEET METAL

Johanna Vaillanta 3043/2  
913 11 Trenčianske Stankovce  
Slovakia

+421 (0)32 6401210  
[info@kmf.sk](mailto:info@kmf.sk)

