



# DYNAMIC

## AEROSPACE FABRICATIONS

Dynamic Aerospace Fabrications Ltd - Proprietary



# Core Values



## Our Vision

Deliver, Solutions, Together

## Our Mission

To be the supplier and employer of choice, safely delivering outstanding performance in Quality, Delivery & Responsiveness.

## Our Values

Safely, Together with Commitment, Trust and Respect.





# Dynamic Aerospace Fabrications



Located centrally in the UK near Derby, Dynamic Aerospace Fabrications Ltd is a specialist manufacturer of complex precision sheet metal fabrications and machined assemblies, founded in 1937.



# Nadcap Accreditation

## Working to the Highest Standards

Dynamic Aerospace Fabrications is proud to hold Nadcap accreditations for 5 special processes conducted on site:

- Nonconventional Machining (Laser Cutting & Drilling)
- Welding (GTAW, Spot & Resistance)
- Chemical Processing (Painting & Chemical Cleaning)
- Heat Treating (Titanium, SS, Nickel based Alloys)
- Non-Destructive Testing (FPI & X-Ray)

 **Nadcap**<sup>™</sup>  
Administered by PRI



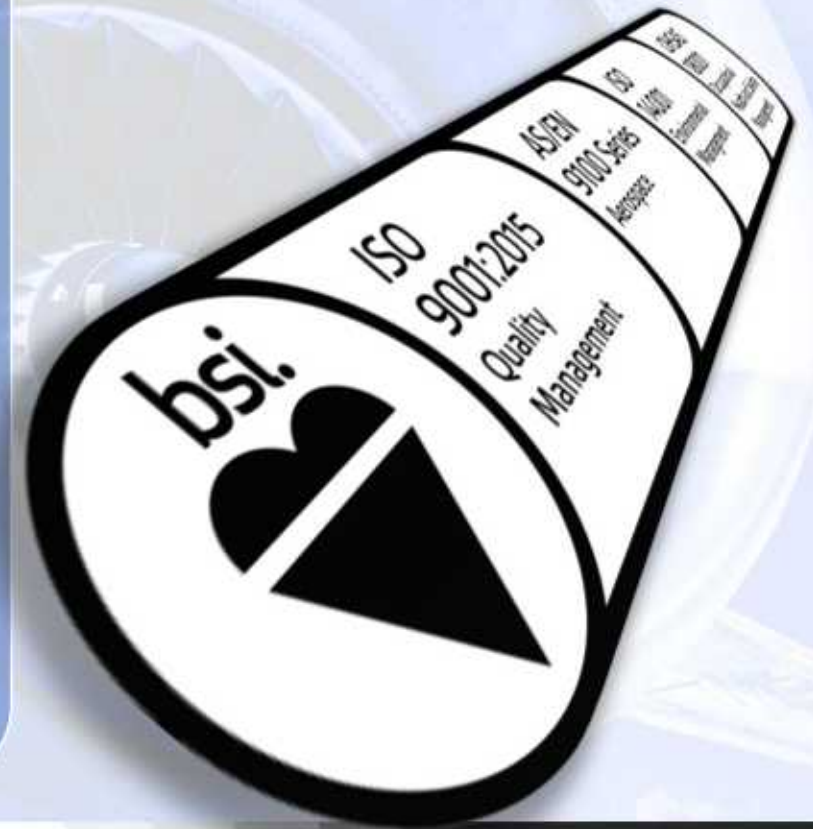


# BSI Accreditation

## Working to the Highest Standards

Dynamic Aerospace Fabrications is certified to the EN 9100 Rev D:2018 and ISO 9001:2015 Quality Standards, putting quality at the heart of all its business activities.

Dynamic also operates to the latest Occupational Health, Safety and Environmental standards, holding both BSI OHSAS 45001:20018 and ISO 14001:2015 certificates.



# New Product Development

**DYNAMIC**  
AEROSPACE  
SOLUTIONS

## Dynamic Aerospace Fabrications offers full New Product Introduction

- PPAP
- APQP
- DFM / DFX
- Fixture Design and Manufacture
- NPI Project and Risk Management





# Cyber Security

## Working to the Highest Standards

Dynamic Aerospace Fabrications is committed to protecting our business and our customers' intellectual property.

In 2021 we were Cyber Essentials accredited.



# Formed and Lasered Assemblies





# Complex Sheet Metal Fabrications

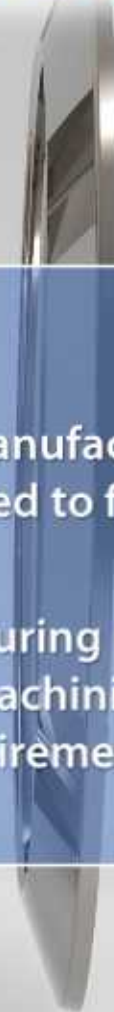


# Complex Sheet Metal Fabrications





# Formed, Welded and Machined Assemblies



## Precision Machined Fabrications

Dynamic Aerospace Fabrications specialises in the manufacture of fabrications utilising multi-axis machined parts welded to formed sheet metal sub components.

This technique improves on the traditional manufacturing method (full machining from solid), by saving considerable machining time and material, without compromising the design requirements.

# Formed, Welded and Machined Assemblies



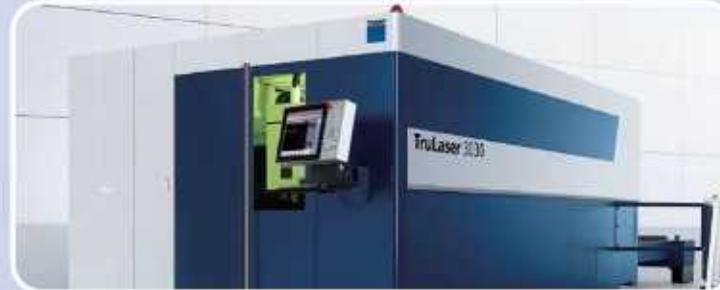


# Laser Cutting



## 6-Axis Laserdyne 795XL Fibre Laser with Weld Capability

1.5kW Fibre Laser Power  
15kW Drilling Peak Pulse Power  
Working envelope: 2m x 1m x 1m



## Trumpf TruLaser 3030 Fibre Laser

6kW Fibre Laser Power  
Working envelope: 3m x 1.5m  
Flatbed



## Trumpf Lasercell 1005

Flatbed and Multi-axis  
3kW CO2 Laser Power  
Working envelope:  
3m x 1.5m x 0.5m  
Rotary table for supporting multi-  
axis cutting

Materials processed: Titanium, Nimonic, Jethete, Mild Steel



# CNC Machining

HIGHLIGHTS



## Mazak Variaxis i-800T

5-axis milling and turning

Max workpiece diameter: 800mm

Max workpiece height: 500mm

Tool storage capacity: 80

Max spindle speed: 10,000 rpm

Max table speed: 800 rpm



## Doosan PUMA 4100M

This CNC lathe has a large working envelope of up to 560mm diameter along a maximum 1,010mm length.

Y-axis driven tooling.



## Doosan PUMA VT900

Two PUMA VT900 vertical turning centres, manufacturing flange rings up to 900mm in diameter.

Max diameter: 900mm

Max height: 850mm

Max spindle speed: 1,800rpm

Dynamic employs numerous CNC machining centres for precision finishing, fabricated and machined components, and employs CNC, NC and manual surface and cylindrical grinding techniques for extra high-tolerance work.



# Welding, Forming and Fabrication



## Welding Capabilities

- TIG Welding
- Auto Circumferential Welding
- Spot Welding
- Stitch and Seam Welding
- Projection Welding

## Forming Capabilities

- Hot & Cold Press Forming
- Press brakes
- Stretch/ Shrinking machines
- Rolling
- Linishing / Riveting / Drilling



# Treatments, Inspection & Verification



## Surface Treatment

- Acid etch cleaning
- Sand and aqua blasting
- Degreasing
- Polishing
- Painting



## Heat Treatment

Three large capacity ovens capable of heat treating parts up to 1,100°C



## Part Marking

- Vibro marking
- Dot-peen marking
- Chemical marking
- Bag & Label



## Non-Destructive Testing

- Visual Weld Inspection
- X-ray Weld Inspection
- Fluorescent Penetrant Inspection

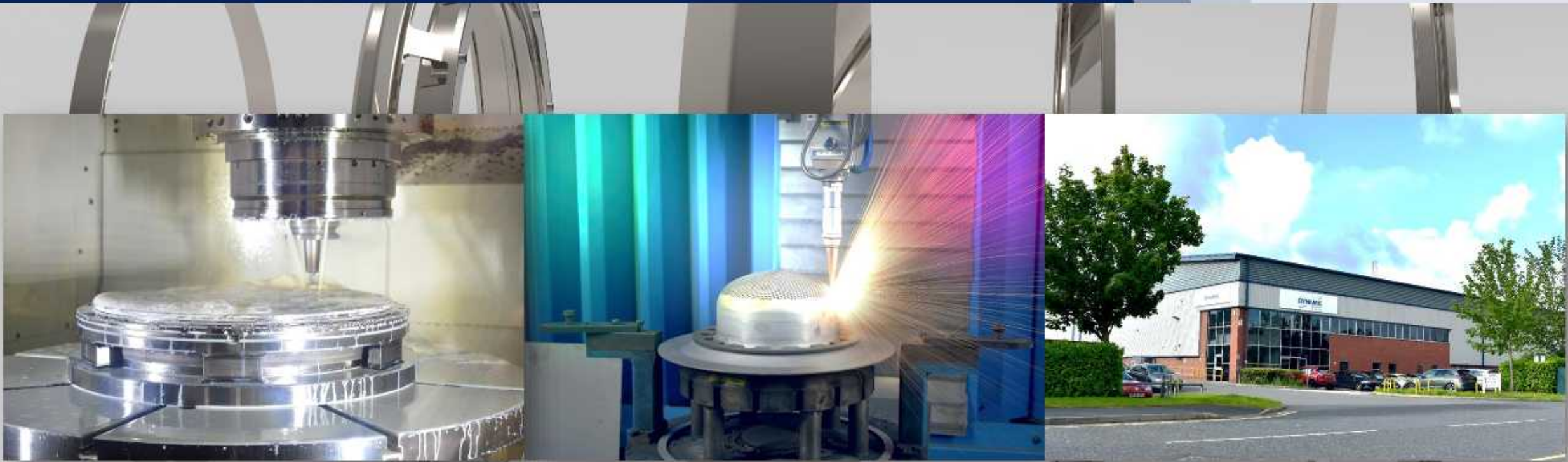


## Precision Measurement

- CMM scanning head
- Keyence digital optical non-contact
- Romer Arm
- Manual Inspection



# Questions





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