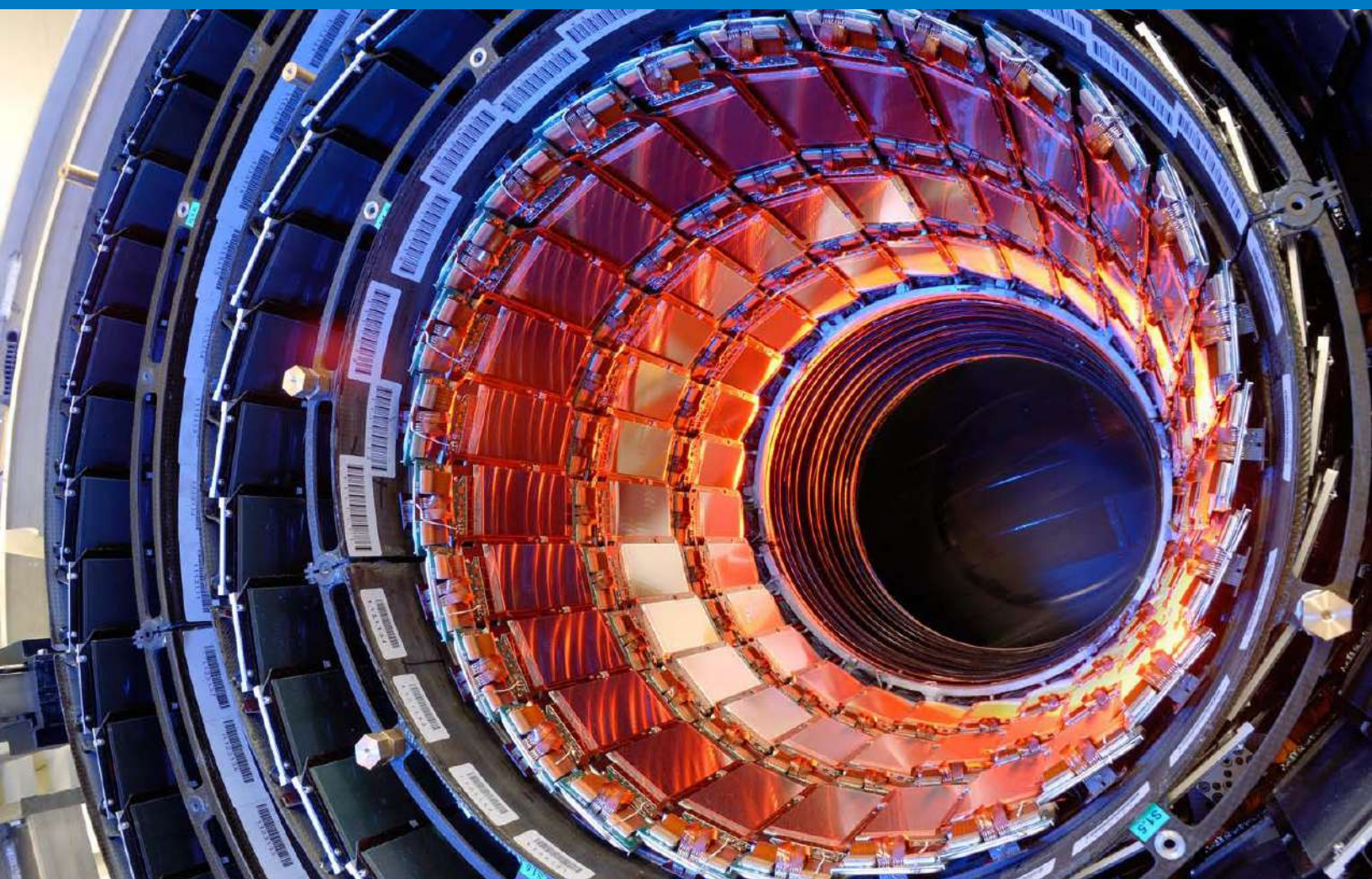


TM

SPECIALIST  
ENGINEERS

# CREATING A **BIG BANG** IN ENGINEERING



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# TM Specialist Engineers Passionate about Engineering Excellence

TM Engineers Ltd is very proud to present our expertise in the field of Large Part Precision Machining, Heavy Steel Fabrication and Special Purpose Machine Building.

Since our formation in 1948 it has become our single focus on our customers' engineering needs. As one of the front runners in providing engineering solutions, TM Engineers has excelled in large part precision machining, large steel fabrications and special purpose machine building.

## **TM Engineers offers one of the UK's largest fabrication and machining facilities.**

The company employs 55 full time personnel based in the heart of the West Midlands, which is conveniently based for all major motorway networks.

Over the years we have invested heavily in machining technology, project management, quality procedures ISO 9001:2015 and experienced personnel enabling us to undertake work in strict compliance with customers' demands for quality, completion and budgets.

Markets we operate in are as follows:

- |           |                       |             |              |
|-----------|-----------------------|-------------|--------------|
| • Nuclear | • Automotive          | • Aerospace | • Scientific |
| • Mining  | • Ministry of Defence | • Glass     | • Marine     |
| • Sub Sea | • Power Generation    |             |              |

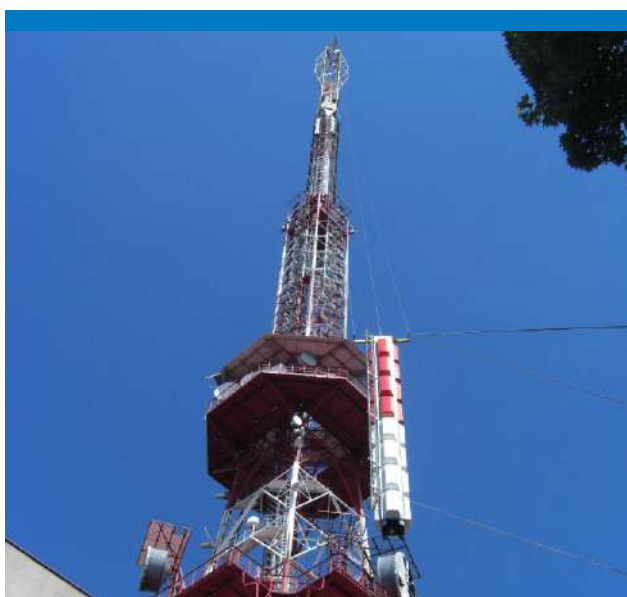
We have many clients who rely on TM specialist engineers to undertake many and varied engineering tasks and we are proud to have partnerships with the following companies.

- |             |                       |               |               |
|-------------|-----------------------|---------------|---------------|
| • Babcock's | • Ministry of Defence | • US Military | • Rolls Royce |
| • Centrax   | • Modulift            | • Allen Gears | • STFC        |
| • CERN      | • Rimor               | • Cullum      |               |



# HEAVY STEEL FABRICATION

**TM Engineers' service is derived from our extensive knowledge of every aspect of heavy steel fabrication with an outstanding track record of completing countless complex and technically demanding large structures.**



Our engineers are highly experienced and qualified to work with all grades of Steel, Carbon Steel and Stainless Steel.

Welding operatives' are fully coded for MMA, MIG and TIG welding with considerable experience of NDT tested welds inspected by Dye Pen, MPI and ultrasonic process.

## STANDARDS

Fabricating large heavy steel structures requires high levels of knowledge and experience, competence and qualification.

## BENEFITS

- Project management service as standard
- Full material traceability
- Customer focused attitude.
- Professional highly customer focused service
- On time delivery
- Provide material certification in accordance with EN 10204 : 3.1 or 3.2
- Working relationships with Lloyds Register of Shipping, American Bureau of Shipping Det Norske Veritas and Bureau Veritas
- Excellent quality
- Coded welders - Up to class 1 nuclear.
- Complementary large part precision machining
- Undertake stress relieving and painting processess



## FABRICATION SHOP EQUIPMENT

### Welding

CO2 up to 460 Amp 1.6 wire Electric Arc up to 600 Amp.  
Approval to Lloyds Register through E N 287, ASME 1X & A.W.S. D1.1.90

For parent metals, we work with many off shore metals as well as Carbon Steels, Stainless Steels, Aluminium and alloys.

## FABRICATION SHOP

### BAY 1

Floor area 16m wide x 62m long x 8.1m to bottom of crane rail. Max Lift 15 Tonne.

### BAY 3

Floor area 16m wide x 62m long x 8.1m to bottom of crane rail. Max Lift 52 Tonne (Combined Lift – Two Cranes 20 Tonne & 32 Tonnes).



# LARGE PART PRECISION MACHINING

TM Specialist Engineers offers an exceptional Large Part Precision Machining service which is promoted on the strength of our machining expertise with the latest CNC machining technology.

We excel in providing cost effective solutions for today's engineering challenges.

This entails achieving close drawing tolerances and surface finishes on Carbon Steels, Stainless Steel, Aluminium and Titanium.

## PRECISE SOLUTIONS



### STANDARDS

Machining is performed incorporating a full off-line programming capability using a modern operating platform capable of turning, milling and boring operations; in compliance with ISO 9001:2015.

### BENEFITS

We can augment our machining service with several options. These include:

- Large capacity machining
- Professional highly customer focused service
- Excellent quality
- Operative platform Del Cam, Power shape & Feature Cam
- Files Accepted: DWG, DXF, IGES, STEP, Parasolid (.X\_T)
- All machines are independently calibrated at regular intervals to ensure accuracy and repeatability
- Fully equipped tool room and inspection department.
- Variable shift patterns
- Material Sourcing
- Undertake finishing processes i.e. Painting, Anodising, Electro-Plating and Galvanizing
- Assembly



# LARGE PART MACHINING CAPACITY

Our superbly equipped machining facility is utilised by an equally impressive, and highly experienced work force, trained in traditional craftsmanship and engineering skills and fully conversant with conventional operation and the latest CNC technology.

Our extensive knowledge and experience ensures we meet customers' large part precision machining requirements; precisely.

The TM Machining Department is fully integrated with TM Fabrication and Machine Building, facilitating a start to finish resource when required. Tolerances are maintained throughout the work cycle, and subjected to In-Process Inspection and Final Inspection on projects varying from clevis pins to 50 tonne base plates. All work complies with appropriate quality standards BS tolerances and customers own stringent specifications.

## MACHINE SHOP PROFILE COMPRISING TWO BAYS

### BAY 1

12m wide x 30m long x 5.8m to bottom of crane rails Max. Lift 15 Tonne

### BAY 2

15.2m wide x 30m long x 8.2m to bottom of crane rails Max. Lift 15 Tonne

### CNC MILLING

	X axis	Y axis	Z axis	Bay	Weight
WADKIN	7.3m	4.3m	1.6m	3	50 Tons
ANAYAK	4.2m	1.2m	1.8m	2	10 Tons
CORREA	3.0m	1.2m	1.0m	2	10 Tons
ELGAMILL	8.0m	2.0m	1.0m	1	10 Tons
MANDELLI	1.8m	1.5m	1.0m	3	10 Tons

### CNC HORIZONTAL BORING WITH FULL 360 ROTARY MACHINING AXIS

	X axis	Y axis	Z axis	Bay	Weight
UNION	2.4m	2.4m	2.0m	2	10 Tons
MITSUBISHI	5.7m	2.44m	2.2m	2	10 Tons

### CNC HORIZONTAL TURNING

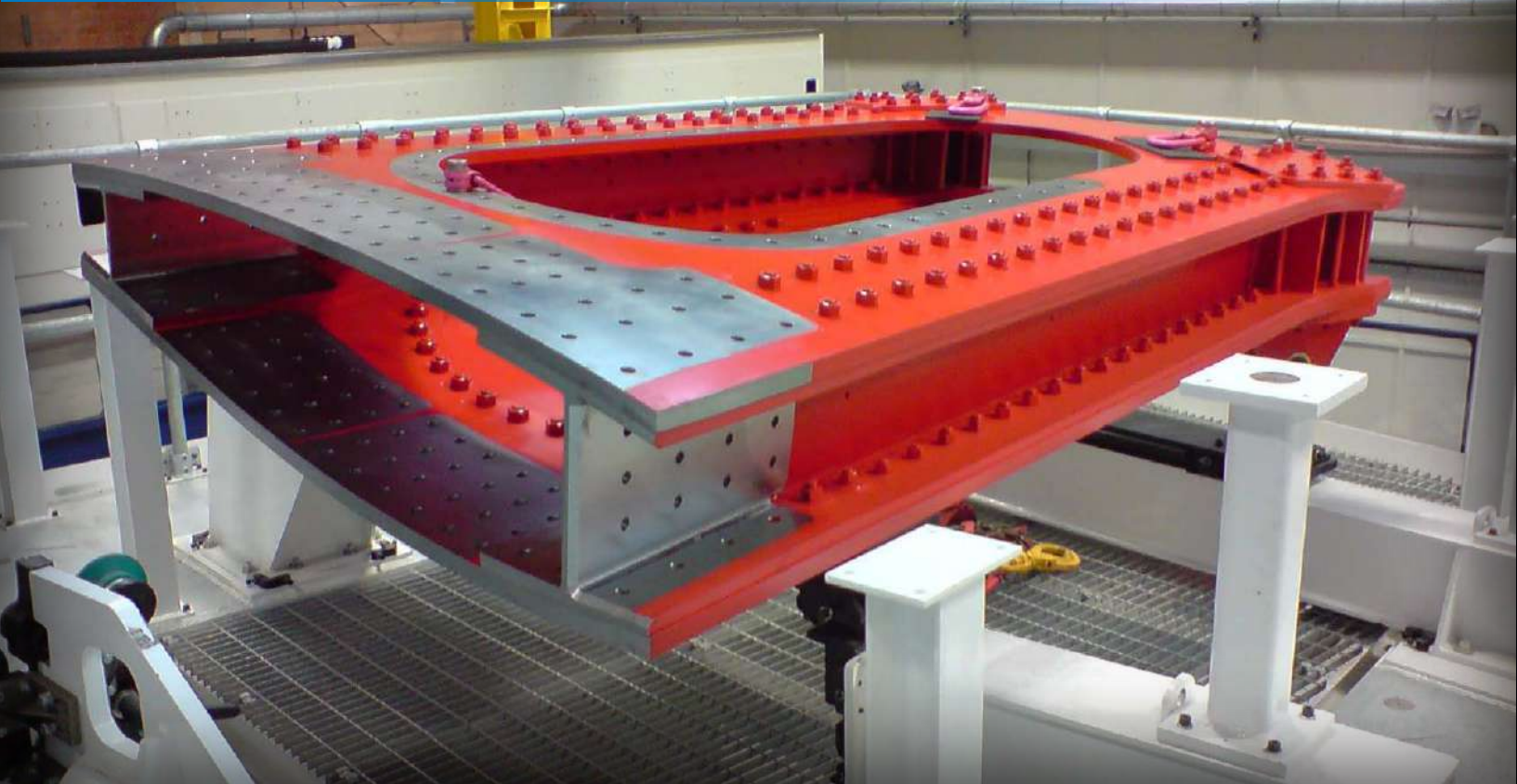
	Diameter	Length	-	Bay	Weight
BINNS & BERRY	0.9m	4.0m	-	3	5 Tons
COLCHESTER	0.6m	2.0m	-	3	5 Tons

### CNC VERTICAL BORING/TURNING

	Diameter	Z axis	-	Bay	Weight
MASSA MV2000	2.5m	2.0m	-	1	10 Tons



# CUSTOM MACHINE BUILDING



TM SpecialistEngineers have been manufacturing special purpose machinery, prototypes and test rigs for over 60 years.

We provide a comprehensive machine building service from fabrication machining to assemble.

## MACHINE BUILDING SHOP

Our services encompass a wide array of offerings, ranging from full mechanical assembly to hydraulics, pneumatics, and electrics. Additionally, meticulous testing procedures ensure compliance with both British standards and CE marking requirements, wherever necessary. We offer comprehensive services including dismantling, packing, delivery services to any destination and full installation to ensure your equipment operates optimally from setup.

## STANDARDS

We undertake a diverse range of assignments, spanning from Test Rig equipment to Special Purpose Handling and Machinery, weighing up to 100 Tonnes. Moreover, all our projects adhere strictly to ISO 9001:2015 Quality Accreditation standards.



SPECIALIST  
ENGINEERS



UK  
CA | CE

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