



# Manufacturing Services

Design, Machining and Supply



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## Who are Torus?

Who are Torus Group? 17-18



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## Why choose Torus Manufacturing?

Our experienced and dedicated team provide design and precision machining services to a variety of industries throughout the UK and internationally.

We understand the demands of fast paced engineering and manufacturing environments. Focused on delivering high quality, cost effective manufacturing products and services, we strive to work with our customers to meet their production needs.

Our state of the art Toolroom provides a range of engineering solutions. With more than 25 years experience in toolmaking, whether you require a turnkey, 1-off or high volume manufacturing solution, you can be assured that Torus Manufacturing has the answer.

Connect with us...



[www.torus-group.com](http://www.torus-group.com)



ON TIME DELIVERY



ON POINT QUALITY



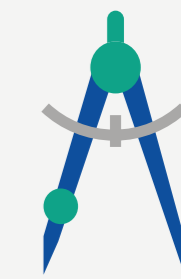
ON BUDGET COSTS

DESIGN

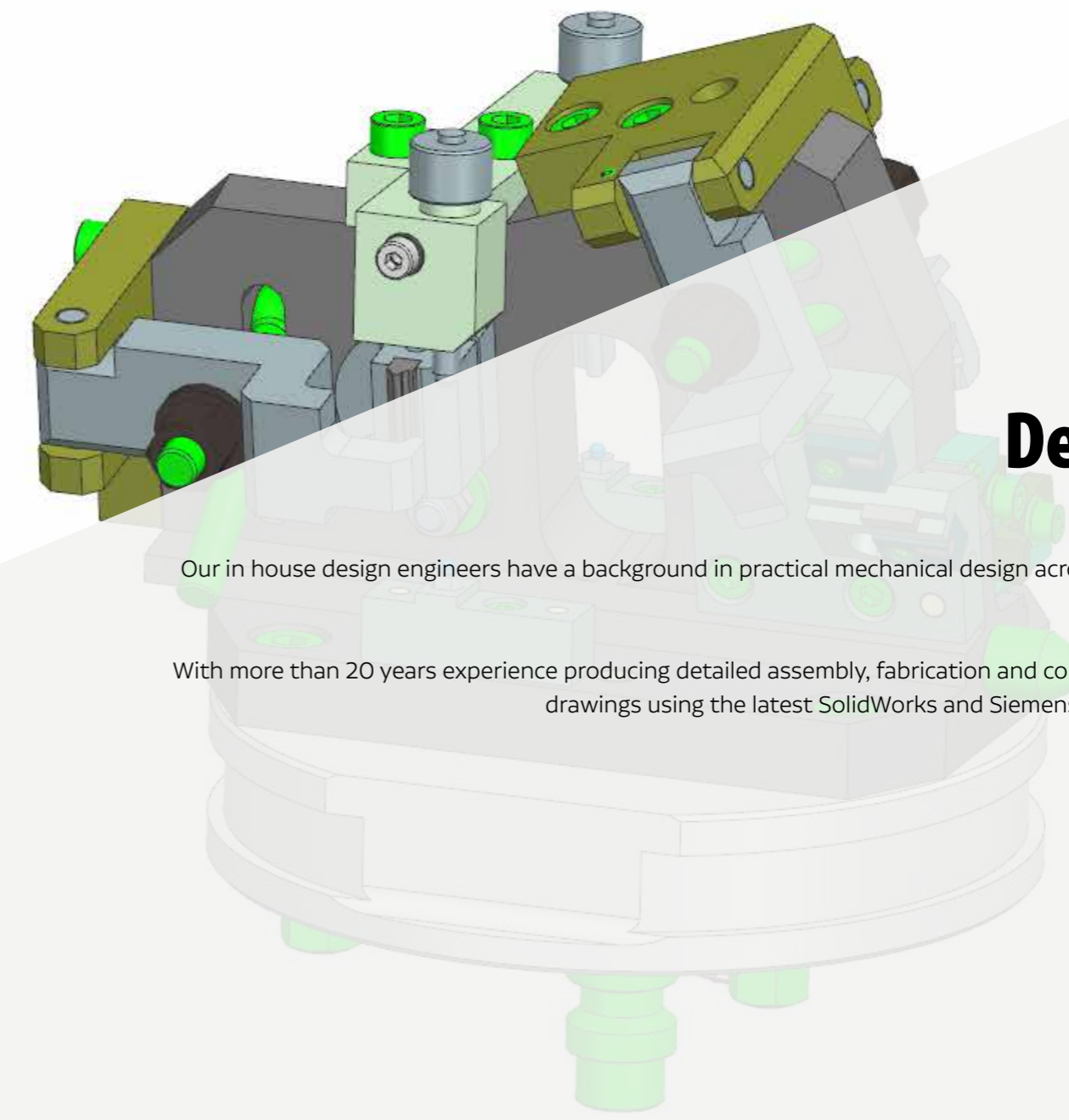
MACHINING

SERVICES

# Design



## Design Services

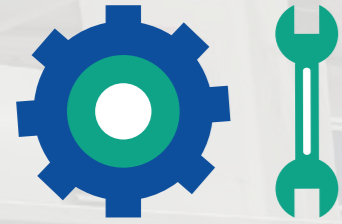


Our in house design engineers have a background in practical mechanical design across an array of engineering sectors and industries.

With more than 20 years experience producing detailed assembly, fabrication and component designs, we manufacture drawings using the latest SolidWorks and Siemens NX 3D design software packages.

# Machining





# Machining

We provide both CNC and conventional machining services. From precision machined components to general machining requirements; we can supply to your specification.

Our experienced toolroom engineers are able to provide advice on the most suitable materials and manufacturing processes when required, working with you to reduce costs by optimising production.

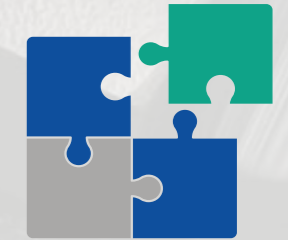
### We offer a range of machining services including (but not limited to):

#### CNC Machining

- CNC Turning
- CNC Milling (3, 4 & 5 Axis)
- CNC Boring
- Spark Eroding
- Wire Eroding

#### Conventional Machining

- Horizontal Jig Boring
- Vertical Jig Boring
- Horizontal Milling
- Vertical Milling
- Surface Grinding
- Turning
- Cylindrical Grinding
- Universal Grinding
- Laser Engraving



# Machined Assemblies

We specialise in the design, manufacture and assembly of precision engineered jigs, fixtures and gauges. Be it to a design which we have developed with you or from your own design we can provide a solution.

To maximise the life and performance of Tooling we offer maintenance plans and work closely with our customers to recall jigs fixtures and gauges at regular intervals to optimise uptime and lifespan (see our Tooling Care section for more information)

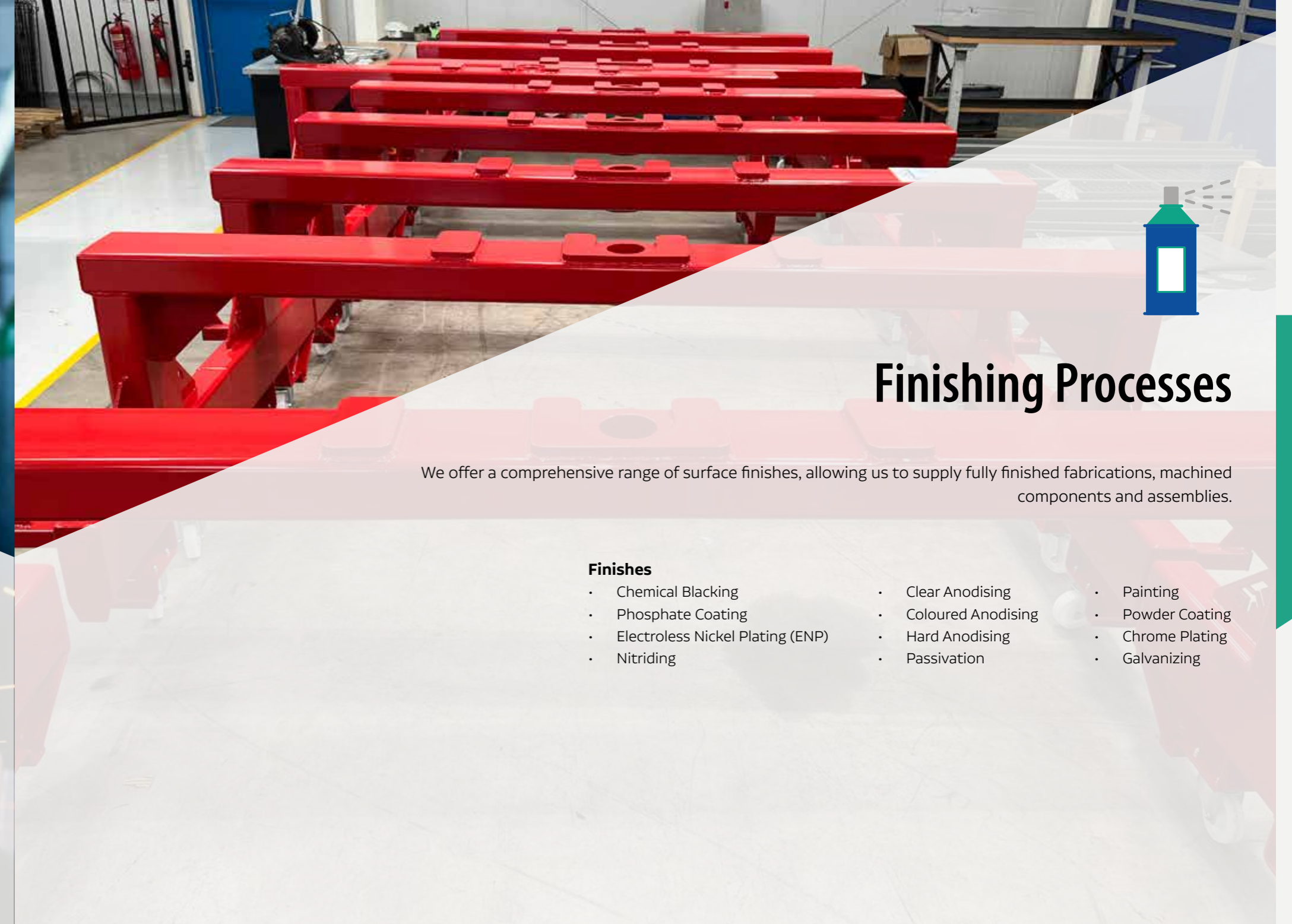


## Fabrication

We offer a comprehensive fabrication service.

Through our long standing and fully approved supply chain, we work with our clients on fabrication projects from initial idea and concept through to completion, ensuring the highest standards of quality and service from start to finish.

No matter the size or quantity of fabrication, we are able to support with design, manufacture, assembly, test and perfect finish; giving you piece of mind that every stage of your project is handled with the utmost quality and care.



## Finishing Processes

We offer a comprehensive range of surface finishes, allowing us to supply fully finished fabrications, machined components and assemblies.

### Finishes

- Chemical Blacking
- Phosphate Coating
- Electroless Nickel Plating (ENP)
- Nitriding
- Clear Anodising
- Coloured Anodising
- Hard Anodising
- Passivation
- Painting
- Powder Coating
- Chrome Plating
- Galvanizing

# Services

## Quality and Inspection Services

We employ in-process audit and inspection programs to guarantee the quality of manufacture. Our quality engineers inspect all parts prior to shipping and as standard we provide a certificate of conformity which accompanies all goods supplied.

Our expertise and technical knowledge can assist you with your inspection requirements. From 'one off' first off samples (ISIR), to large-scale volume production; our team of highly experienced engineers have an in depth knowledge across a variety of industry sectors including automotive, presswork, aerospace, plastics and the medical sector.

We provide a range of additional inspection options which can be tailored to your specific requirements, additional inspection is carried out in a UKAS accredited laboratory. When creating a quotation we will work with you to determine what inspection method best suits your needs.



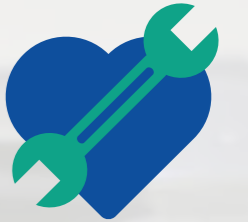
## Stock Holding Services

We provide stock management services for our customers. We can manage stock via call-off agreements or replenish stock on site at our customers premises through the implementation of Kanban systems which are monitored and maintained by our logistics team.

Regular reports provide complete visibility of stock usage and recommend amendments to the levels of stock being held.

### Our stock holding services:

1. Reduce inventory value (stock is only paid for when called off or used)
2. Spread stock holding costs whilst still achieving economy of scale savings.
3. Optimise inventory levels.
4. Minimise warehouse space used.
5. Increase inventory control through regular review.
6. Increase efficiency and productivity by limiting component shortage risk.



## Tooling Care Services

To maximise the life and performance of Jigs, Fixtures and Gauges we offer regular maintenance programs. We work closely with our customers to implement tooling recall schedules. When tooling is recalled, Inspection is carried out at our site to pre-defined criteria at regular intervals and if refurbishment or repair requirements are identified, we consult with our customers to implement or replace as required.

We also offer logistics services as part of our maintenance programs, collecting from and returning tooling to customers sites to a schedule that aligns with production plans.

All tooling is returned with a conformance and inspection certificate.

Maintenance programs allow meaningful data to be collected, extending or reducing recall frequency and producing failure analysis information which can be used to improve future tooling designs.

### Our maintenance programs:

- |   |  |
|---|--|
| 1. Reduce tooling failure and unplanned downtime. | 4. Improve production efficiency.                                |
| 2. Extend tooling life                            | 5. Provide traceable inspection to prove conformance of tooling. |
| 3. Help keep unplanned costs under control.       |  |





## Shipping and Freight Services

We can ship to anywhere in the world.

We offer a range of shipping and freight services. Our logistics department will oversee shipping from start to finish and are fully conversant with international import / export procedures and documentation requirements.

When creating a quotation we will work with you to determine the shipping method that best suits your needs and provide a competitive shipping quote accordingly.

# Accreditation

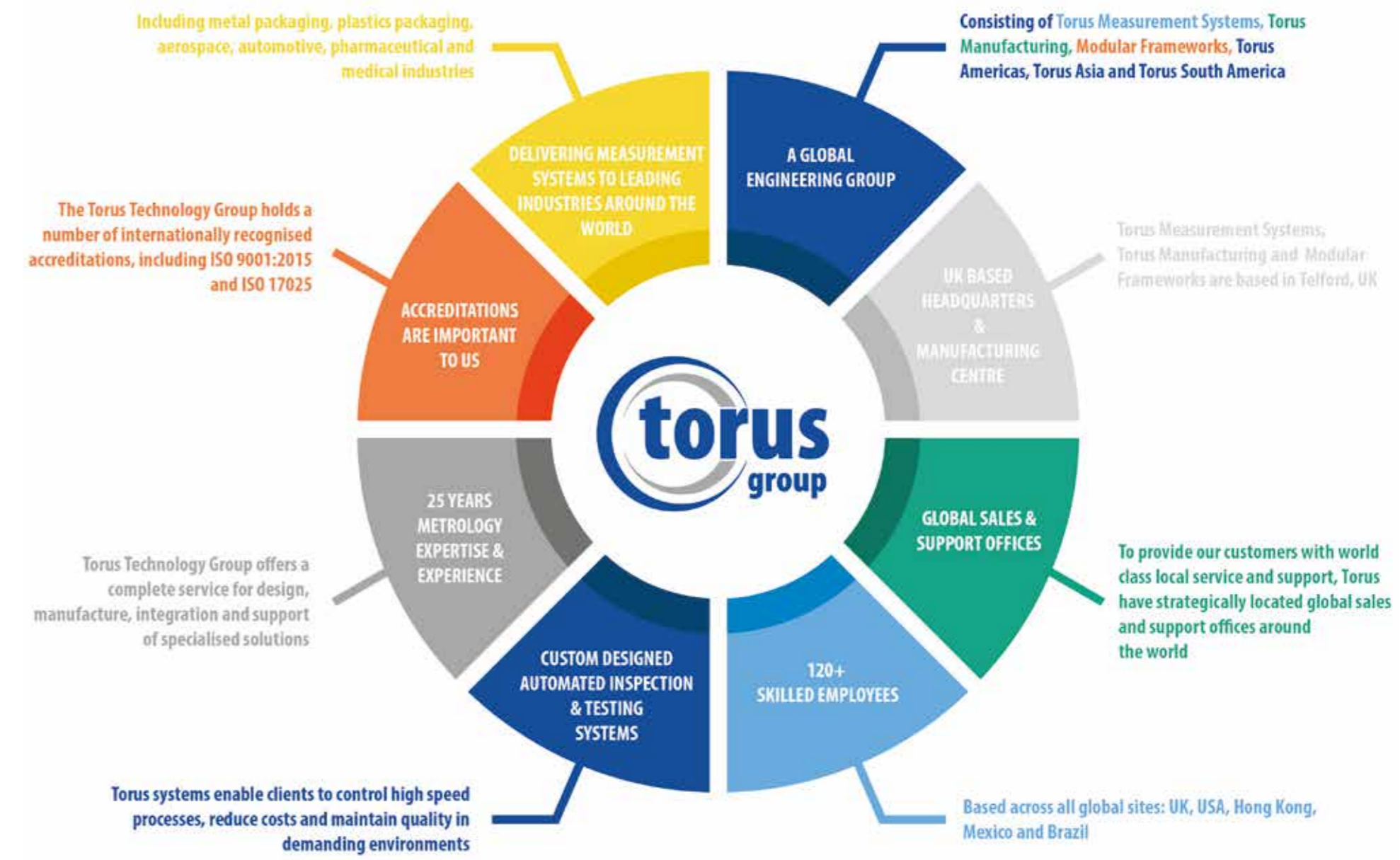
We are accredited to the ISO: 9001:2015 quality standard.

Torus Measurement Systems' UKAS laboratory is accredited to ISO: 17025.

We pride ourselves in working closely with our clients, suppliers and accreditation bodies to ensure that the highest levels of quality are achieved and maintained; not only in our production processes but in our documentation and communication. This attention to quality in all areas ensures that we supply to the highest standards at all times.



# Who are Torus Group?



Torus Technology Group are:





[www.torus-group.com](http://www.torus-group.com)