



Torishima Service Solutions

Mechanical Services



Mechanical Services



From our dedicated facility in Glasgow, Torishima are available to carry out any in-situ repairs, as well as **inspections, overhauls and installations** on a host of equipment, both rotating and static, across various industries.

We routinely perform inspections and comprehensive overhauls on a wide variety of rotating equipment, spanning numerous original equipment manufacturers (OEMs), pumps, motors, compressors, gearboxes, steam/hydro turbines, heat exchangers, fans, mechanical seals and valves. Our expertise includes root cause diagnostics to pinpoint issues and recommend technical remedie.

High Performance

A poorly performing machine will cost considerably more to run than one that is properly designed, selected for the application and maintained. In the current climate, the cost of energy saved alone is likely to provide a significant return on any investment. For example, a repaired pump will be partly self-financing due to one or more of the following factors;

- **Increased efficiency.**
- **Greater wear resistance of parts.**
- **Increased MTBF.**
- **Fewer maintenance visits.**
- **Improved asset longevity.**
- **Guaranteed lower than OEM spares pricing.**
- **Reduced Carbon Footprint.**



Re-Engineered Design Upgrade (REDU)



We have developed an engineering philosophy known as REDU. This process has been developed in consultation with plant operators who are experiencing issues related to poor performance, equipment obsolescence, or a general difficulty in obtaining spare or replacement components in good time and at reasonable cost.

By taking a worn or broken component, using 3D measuring equipment and in-house design capability Torishima can re-engineer the part to the original design or, in most cases, improve upon it.

REDU, as part of an Asset Management Plan, can extend the design life of existing assets by years, if not decades, this allows for the targeting of financial resources to other critical areas, while maintaining robustness in operational capacity.

Why REDU makes a difference?

THE PROCESS

INITIAL DESIGN REVIEW

Collaboration with customer to define the scope.



UPGRADES

Improved design or re-specified material selection.



RETURN TO SITE

Install & commission with new processes & documentation as required.

THE BENEFITS

NO NEED FOR NEW EQUIPMENT

- Reduced Capex Cost
- Lower Carbon Footprint

IMPROVED PERFORMANCE

- Improved Efficiency
- Reduced Opex Cost
- Improved Lifespan

DESIGN OUT OBSOLESCENCE

- Spare Parts Availability
- Shorter Lead Times
- Warranty Availability





Bringing our expertise to the aftermarket

The knowledge and experience required to provide affordable, long-term solutions can only be found in the manufacturing industry itself. Offering:

- Extensive and growing database of case studies and RCAs of the global pump market. All makes and types of machinery.
- Global aftermarket engineering teams networked with access to CFD and FEA analysis software.

Encompass the Entire Asset Life Cycle with REDU

Throughout an asset's life cycle, it may encounter a range of obstacles, such as increased or decreased demand and environmental regulations. REDU can aid in solving these problems. To ensure a thorough comprehension by future operators, we provide a large set of materials, including drawings, parts lists, revised performance data and revised operating and O&M Instructions

Safety, Resilience & Regulatory Compliance

In terms of Personal & Operational Safety REDU is a “do it once, do it right” approach intended to reduce the number of interventions required in future and therefore the risks associated with such interventions. REDU can ensure regulatory compliance on issues such as;

- Materials of Construction, Energy Efficiency Targets, Carbon Footprint Reduction, Environmental Protection.

Expert Coatings Division



Surface preparation and coating services for industrial equipment play a crucial role in the protection and maintenance of industrial assets. As a leading provider of integrated surface preparation and coating services, our expertise allows us to precisely define the customised solution that best suits the customer's needs.

Condition Monitoring & Dynamic Balancing



By regularly recording and analysing operational data, we can assess the health of your machine and plan a maintenance timeline accordingly. Enhance Reliability through KPIs and regular assessment of plant and service supplier performance.

In House Pump Testing



Our in-house testing facility and hydraulic expertise ensure optimal performance for Torishima and third-party pumps. Meeting ISO 9906 & Hydraulic Institute standards, we optimize efficiency, enhance performance, and reduce emissions and costs.

Field Service



Torishima's skilled personnel travel globally for installations, inspections, overhauls, condition monitoring, and spare parts replacement. Their field service covers various rotating equipment, not limited to Torishima pumps, with expertise in multiple OEMs' machinery.





Innovative systems solutions coupled with expertise in pumping technology.

Maximise efficiency, reduce maintenance costs and conserve energy in all applications through innovative products and solutions.

Contact us - UK

Glasgow - European Head Offices and Workshop

30 Colliery Road Clyde Gateway, Business Park London Road, Glasgow G32 8SL
Tel: 01236 442390

Glasgow - Cooling Water Division - Offices and Workshop

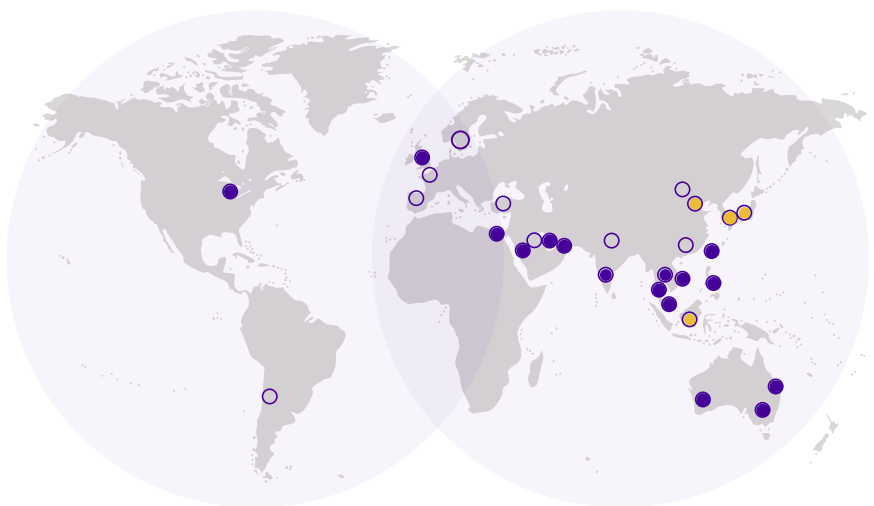
11 Russell Colt Street, Coatbridge, ML52BN
Tel: 01236 442390

Royal Leamington Spa - Fluid Power Division - Offices and Workshop

Unit 5 Berrington Road Sydenham Industrial Estate Royal Leamington Spa Warwickshire, CV31 1NB
Tel: 01926 420847

Grangemouth - Cryo Pump Repairs - Offices and Workshop

Unit 1 Barons Court Earls Gate Park, Roseland Hall, Grangemouth FK3 8BH.
Tel: 01324 485 850



torishima.co.uk

Mechanical Services



From our dedicated facilities in Glasgow, Torishima are available to carry out any in-situ repairs, as well as **inspections, overhauls and installations** on a host of equipment, both rotating and static, across various industries.

We routinely perform inspections and comprehensive overhauls on a wide variety of rotating equipment, spanning numerous original equipment manufacturers (OEMs), pumps, motors, compressors, gearboxes, steam/hydro turbines, heat exchangers, fans, mechanical seals and valves. Our expertise includes root cause diagnostics to pinpoint issues and recommend technical remedie.

High Performance

A poorly performing machine will cost considerably more to run than one that is properly designed, selected for the application and maintained. In the current climate, the cost of energy saved alone is likely to provide a significant return on any investment. For example, a repaired pump will be partly self-financing due to one or more of the following factors;

- **Increased efficiency.**
- **Greater wear resistance of parts.**
- **Increased MTBF.**
- **Fewer maintenance visits.**
- **Improved asset longevity.**
- **Guaranteed lower than OEM spares pricing.**
- **Reduced Carbon Footprint.**

