



# Torishima Service Solutions

## Fluid Power



# Fluid Power



Torishima has a specialised **Fluid Power division** with many years of experience in the design, manufacture, commissioning and maintenance of hydraulic and lubrication systems for critical applications.

**We provide on-site technical support, diagnostics and commissioning services with the aim of providing our customers with the right and most cost-effective solution.**

In addition, our extensive experience in the fluid power related products and services industry translates into the ability to provide an **exceptional quality maintenance service**. Quickly and accurately, minimising downtime and providing our customers with the peace of mind that their systems will be in optimum condition and in good working order.

At Torishima we not only offer fluid power systems that are highly efficient in terms of performance, they also contribute significantly to **reducing CO2 emissions, lowering energy consumption and complying with environmental standards.**

- **HYDRAULIC SYSTEMS**
- **LUBRICATION SYSTEMS**
- **FLUSHING SYSTEMS**
- **WATER HYDRAULICS**
- **SEALING SYSTEMS**
- **ELECTRICAL/PLC SYSTEMS**



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## Hydraulic systems



**Torishima has extensive experience in creating hydraulic power units to suit our customers' specific requirements, interpreting specifications to design the perfect power unit for every need.**

We offer a full range of engineering services to meet your hydraulic and control system needs, from consultancy and project management to design, manufacture and commissioning. Our speciality is the creation of complex hydraulic and control systems, including:

- **Hydraulic Power Units (HPU)**
- **Flushing & Testing Rigs**
- **Control Panels**

## Lubrication systems



Lubrication systems play a vital role in the smooth operation of any machinery with moving parts. Torishima has a wealth of knowledge and experience that enables us to **design, manufacture and install highly efficient oil forced lubrication systems in a wide range of industries in accordance with API 614.**

We offer systems for a variety of applications revolving around rotating equipment such as centrifugal pumps, gearboxes and turbines. Our focus on quality is evident throughout our design and delivery process, including performance testing to ensure your system is robust and reliable. In addition, each system follows an **Inspection & Test Plan (ITP)** developed for quality assurance.

We also offer **after-sales support** in the form of spare parts, service support and refurbishment of existing systems.





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## Flushing Systems



Hydraulic control circuits require a thorough understanding of the origin of contaminants and procedures that must be followed to ensure acceptable levels of ingress and avoid costly failures.

- Torishima **offers filtration and flushing services to help maintain your equipment, improve efficiency, reduce repairs, and increase asset lifespan.** Additionally, we manufacture custom Flushing Rigs tailored to our customer specific needs.

Our Flushing Rigs are designed to create fluid turbulence, resulting in more efficient oil cleaning.

## Water Hydraulics



We are a leading UK supplier of water hydraulic valves for a large variety of applications.

- We have supplied new and retrofit valves for new applications, or fully interchangeable **replacements for existing products such as Hunt, Seco or Elwood.**
- Alternatively we have the capability to **design and manufacture completely new systems from basic principles.**

We are supported by BOC Inc. who supply a range of hard wearing and reliable valves from the USA, featuring a removable seat for the valve cartridges which can be reversed to extend service life. The cartridges are designed to be easily removed from the valve housing, making routine maintenance quicker and easier.

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## Sealing Systems



**Pumps with mechanical seals that seal rotating shafts are utilised in many industries. Sufficient lubrication is critical for ensuring the integrity and operation of mechanical seals.**

As a result, seal plans are used in the majority of industrial pumping applications which deliver a pressurised barrier or unpressurised buffer fluid from an external source to the space between the pumping unit inboard and outboard seals, to ensure minimal seal face wear by maintaining the optimal seal chamber environment.

**Torishima can design and builds seal piping plans according to the American Petroleum Institute (API) standards API 682**

## Electrical/PLC Systems



**Fluid Power systems involve a fully integrated approach to hydraulics and electronic.** They are dependant on electronic control systems to manage a variety of sensor signals and feedback loops to function correctly.

An electrical control panel is an enclosure which contains the important electrical components that control and distribute power to the various system control functions.

**Torishima can design, build and programme hydraulic system control panels, from simple push button to programmable logic control (PLC) or Human Machine Interface (HMI) technologies.**





# 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

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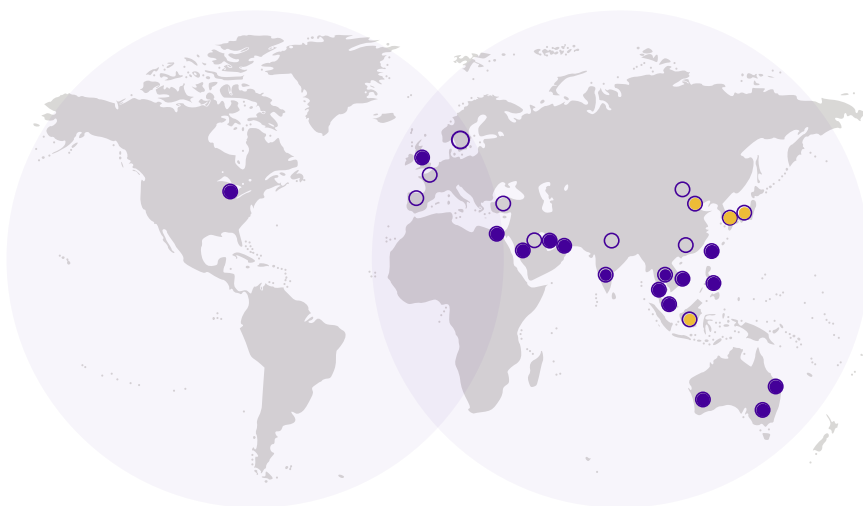
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