





## High-Tech Pumps

### Seawater Desalination

TORISHIMA has nearly 50 years experience supplying engineered pumping equipment for desalination. Our pumps are installed throughout The Middle East, North Africa, South East Asia and Australia.

Our products are designed for all methods of desalination including MSF, RO and MED.

#### Applications

- Seawater Intake Pumps
- Brine Recirculation Pumps
- Brine Blowdown Pumps
- Distillate Extraction Pumps
- High Pressure RO Pumps
- Booster Pumps
- Process Pumps

High pressure seawater supply pump (RO)



Seawater intake pump (MED)



Potable water pump (MSF)



High pressure seawater supply pump (RO)



Brine recirculation pump (MSF)

### Power Industry

TORISHIMA has the capacity to supply a wide range of pumps required in the power industry. Our pumps are installed in variety of plants from small combined cycle to large super critical thermal stations.

#### Applications

- Boiler Feed Pumps (BFP)
- Boiler Circulation Pumps (BCP)
- Cooling Water Pumps (CWP)
- Condensate Pumps (CP)
- Auxiliary Duties

Barrel type boiler feed pump



Boiler circulating pump



Ring section type boiler feed pump



Hot well pump for geothermal power plant



Circulating water pump with fabricated construction

## ■ High-Tech Pumps

### • Pump

High-value-added pump available for various needs. Power generation plant, Desalination plant, Petro-chemical Plant, etc.

## ■ Projects

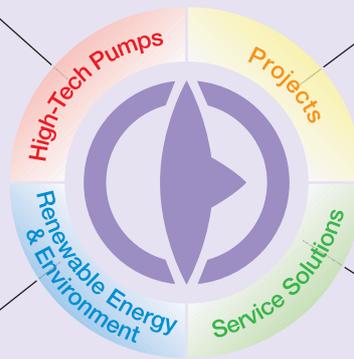
- **Supply EPC for Turnkey Pumping Stations**  
Full turnkey construction for tap water / Drainage, Irrigative facility etc.

## ■ Renewable Energy & Environment

- Wind power generation
- Mini & Micro hydro generation
- Sewage transfer and treatment
- Resource recycle

## ■ Service Solutions

- **Operation & Maintenance**
- **Solution provider**  
Construction & repair facilities, Service, Maintenance, REDU (Re Engineering and Design Up)  
Total plant maintenance solutions



## Projects

### EPC for Turnkey Pumping Stations

TORISHIMA is not only a pump supplier, we also have the expertise to provide EPC activities for Turnkey pumping stations for Water Transmission, Drainage, Wastewater Plants, Irrigation and Power Plant Cooling Water System.

#### Major Contracts in the world

##### Hong Kong

- 1993 Muk Wu 'C' Pumping Station/  
Water Supply Department
- 1997 Sewage Treatment Plant/  
Drainage Service Department

##### Vietnam

- 2007 Ca Mau Power Plant (Balance of Plant)/  
Vietnam Oil and Gas Corporation
- 2010 Nhon Trach Power Plant (Balance of Plant)/  
Vietnam Oil and Gas Corporation

##### Kuwait

- 2007 Shuaiba Industrial Complex/  
Public Authority for Industry

##### Qatar

- 2007 Irrigation (TSE-1 and TSE-2 Pumping Station)/  
Public Works Authority
- 2010 Water Works (GTC-71)/  
Qatar General Electricity & Water Corporation
- 2011 Irrigation (TSE-3 Pumping Station)/  
Public Works Authority

##### U.A.E.

- 2004 Water Works  
(Shuweihat Water Transmission Scheme)/  
Abu Dhabi Water and Electricity Authority
- 2011 Al Ain Distribution Network/  
Abu Dhabi Transmission & Despatch Company

Ca Mau combined cycle power plant  
Vietnam



Installation of generator  
Kuwait



Potable water booster pumping  
station Indonesia



Seawater intake pumping station  
Kuwait

Sewage transmission pumping station  
Hong Kong



Surge vessels  
U.A.E.



Potable water distribution  
pumping station  
Qatar



Potable water long distance(140km)  
transfer pumping station  
U.A.E.



## Service Solutions

In addition to our vast experience in pump technology, TORISHIMA provides after sales service for rotating equipment. Our innovative solutions can enhance performance and increase the life span of pumps and other equipment. This allows operators to maximize efficiency, reduce maintenance costs, CO<sub>2</sub> emissions and conserve energy.

### Service Include

- Operation & Maintenance
- Pump Overhaul & Repair
- Spare Parts
- Pump Inspection & Testing
- REDU (Re Engineering & Design Up)



REDU (Re Engineering and Design Up) is a registration of trademark of TORISHIMA

Training for the local engineer



On site overhaul



Scanning of pump parts for Up-Grade in REDU



Installation of seawater intake pump



## Renewable Energy and Environment

In order to decrease CO<sub>2</sub> emissions, we are actively promoting the further utilization of re-usable, clean energy such as wind power and small hydroelectric generation. In addition, TORISHIMA provides wastewater transport and treatment as well as recycling systems for reclaiming resources from various waste materials and contaminated soil.

1500kW wind turbine



100kW wind turbine



Mini & micro hydro generation



Sludge reducing equipment with ultrasonic

## TORISHIMA Expertise in Pumping Technology

TORISHIMA was founded in 1919 in Osaka, Japan.

Since then, we have developed into a leading pump manufacturer supplying centrifugal pumps to a wide range of applications.

TORISHIMA is an engineered pump company committed to providing innovative and reliable pumping solutions to a number of key markets worldwide.

TORISHIMA' s main markets are:

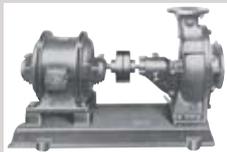
- Power Generation
- Water Transmission
- Industrial Plants
- Desalination
- Wastewater Projects
- Renewable Energy

Our equipment is designed, manufactured and tested in Japan. Our attention to detail and strict quality control ensure TORISHIMA supply a reliable and efficient product.

We will continue to develop and improve our products and services to meet the demands of our customers.

Since  
**1919**

## TORISHIMA Pumps have been developed, improved to the customer's needs



Single-stage, single-suction turbine pump



VM type boiler feed water pump



Pumping station for a chemical complex in Kuwait



Vertical mixed-flow volute casing sewage pump in Hong Kong



Barrel type boiler feed pump for supercritical power plant in Indonesia

1920

1930

1940

1950

1960

1970

1980

1990

2000

2010



CSX type single-suction volute pump



Pumping equipment for drainage station

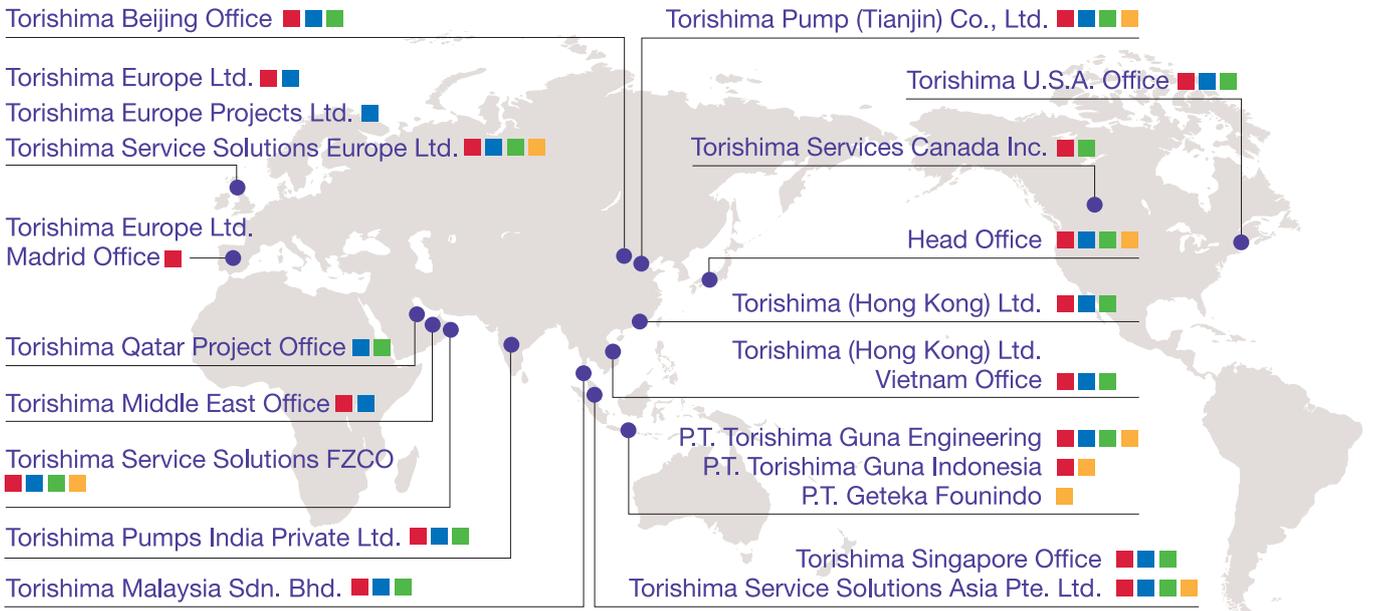


Circulating water pump for an industrial complex in Saudi Arabia



High pressure seawater supply pump for RO desalination in Australia

# Global Network



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