

# Ushio Reinetsu Co., Ltd.



The promise of shipboard comfort & ease:

Offering comprehensive service accommodating the type of ship, route, environment, and more

Category Wind Turbine Manufacturing ➤ Maintenance Lifts and Seawater Cooling Systems



## Marine elevators thoroughly suited to offshore needs

Boasting a top share of the domestic market for marine elevators, Ushio Reinetsu has a track record of delivery to over 1,000 ships of all classes and registries. Highly versatile rope-type elevators are used for both low-rise and high-rise vessels, and these come fully equipped with countermeasures against shaking, an important consideration for marine elevators. The system detects the unique shaking of offshore vessels and provides appropriate control of safety operations. While prioritizing a simple structure allowing ship crews to respond to emergency problems, the company has also established a rapid maintenance system coordinating both domestically and internationally to provide safe, highly functional, and high-quality products and services. Ushio Reinetsu is also eyeing possibilities for use of the elevators in offshore wind power generation projects and on working ships, supplying detailed plans and implementing configurations tailored to specific needs.

- Classification: Rope-type elevators
- Load weight: Delivery record of 350-1,500 kg onboard ships
- Lift height: Delivery record of 3-50 m onboard ships
- Fire door specifications: Certification and approval of fireproof material types received through the Product Safety Evaluation Center in accordance with the FTP code (Fire Test Procedures Code for use onboard ships)



## Manufacture of chillers and heat exchange units using seawater cooling and provision of related systems

Boasting a top share of the domestic market for air conditioning and refrigeration equipment, Ushio Reinetsu is a manufacturer of numerous products designed to improve the shipboard environment. Chillers (cooling water circulation units) and heat exchange units use seawater for cooling. Highly efficient and useful onboard ships, the devices also deliver energy-saving functionality. Crafted with seawater-resistant materials and manufacturing technologies, the equipment can withstand continuous use for over 15 years with proper maintenance. The systems are designed to accommodate specified temperature ranges depending on the cooling object and method of use, as well as to provide reliable cooling or temperature maintenance control. Ushio Reinetsu offers proposals and provision of units with built-in redundancy and control functions taking into consideration the operation of the entire vessel and the entire system.

- Cooling method: Seawater cooling
- Cooling capacity: 10-200 kW
- Service life: Track record of systems withstanding 15-20 years of continuous use with proper maintenance

## Adoption Record

### Marine Elevators for a Diverse Range of Ships



For general merchant ships and ferries, Ushio Reinetsu provides elevators with specs demanded for a range of vessels, including overall size. The company uses advanced technology to satisfy all manner of requests, from finding ways to lower costs while maintaining functionality to providing comfort while enhancing the ship's external appearance.

### Wide Range of Cooling System Applications for Ships



Ushio Reinetsu has handled the construction and delivery of a variety of types of equipment and control systems for numerous ships. These include chemical cooling for ballast water treatment, MGO cooling, urea water cooling for exhaust gas reduction treatment, battery cooling for electric propulsion ships, and power converter cooling. The company provides design, manufacturing, and construction optimized to comprehensively meet individual use environments, applications, and operational requirements.

## Main Equipment and Machinery

- Laser Hybrid Machine: 2,000W, 2,400mm x 1,200mm / 1 unit
- Press Brake: 130t, 80t / 2 units
- Machining Center: 3-axis, 1,300mm x 3,000mm, 1,300mm x 600mm / 3 units
- Pipe Coaster: 150 to 500A / 1 unit
- Powder Coating Equipment and Drying Facility: 2,000mm x 1,000mm / 1 set
- Elevator Test Tower: Tower height 20m, load capacity 450kg / 1 unit

## Company Information

Business: Manufacture and sale of heating and cooling equipment, refrigeration units, prefabricated refrigerated/freezer units, dehumidifiers, ship elevators, spot coolers, package-type air conditioners for ships, as well as duct installation work. Location: 5-3 Creative Hills, Imabari, Ehime Prefecture, 794-0069 Established: November 1977 Capital: 100 million yen Employees: 300 Representative: President Shigeharu Oda Tel: 0898-34-1230 Offices: Imabari, Tokyo, Fukuoka, Saijo, Nagasaki, Kagawa, Tsu Metropolitan Area Contact: Tokyo Branch, Kazuyuki Isaka Tel: 03-6205-7630 E-mail: ushio@ushioreinetsu.co.jp URL: <https://ushioreinetsu.co.jp/english/>