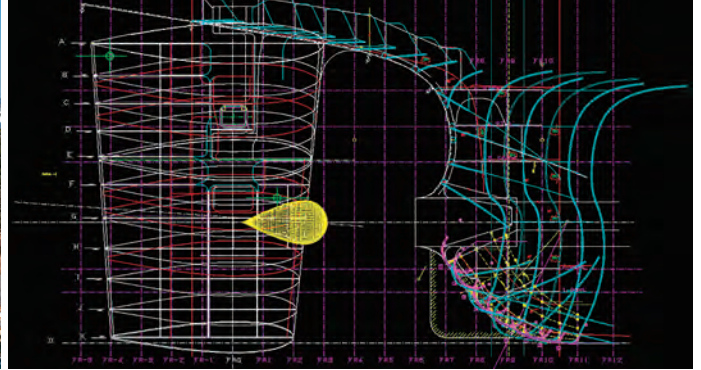


# Murakami Iron Works Co., Ltd.



Maritime leader equipped with internationally certified equipment and advanced technologies:  
An Imabari-based rudder manufacturer steering the global maritime industry

Category O&M (Vessels) > Floating Structures



## A leader at the forefront of rudder manufacturing with an integrated system from plate rolling and machining to ship classification inspections

Murakami Iron Works plays an important part in facilitating the safe navigation of ships on the world's oceans as a manufacturer of ship rudders, with installations ranging from small vessels to ultra-large container ships, as well as Japan Coast Guard ships and destroyers. With its advanced technologies and construction of production systems, the company plays a role in the safe navigation of ships through the oceans of the world. Murakami Iron Works is equipped to carry out integrated production of materials, plate rolling, machining, finishing, and ship classification inspections. The company has obtained factory approvals from the international certification bodies/ship classification societies BV and DNV, maintaining manufacturing capabilities in line with design standards for offshore vessels, including those followed by European companies. DNV is a

global service provider primarily involved with experts in risk management in the Oil & Gas, wind power, and power transmission/distribution sectors, beyond being a ship classification society. Few companies in all of Japan have obtained factory approval from them.

Additionally, Murakami Iron Works boasts a high level of technical expertise in welding, having received approvals on multiple occasions, including from the Nippon Kaiji Kyokai (NK). In the offshore wind power generation sector, the company expects to provide rudder structures, stern frames, and outfitting for work vessels, cable laying vessels, and other ships. The company's Oshima plant has a dedicated wharf enabling marine transport of large manufactured products.

• Materials used: Ordinary steel, high-tensile steel, alloy steel • Manufactured sizes: Rudders 15 m x 9 m x 2 m, 230 t max. • Factory approval: BV, DNV • Welding method approval: NK, LRS, ABS, KR, CR

### Adoption Record

#### Manufacturing rudders for some of the world's largest container ships



In 2023, Murakami Iron Works manufactured rudders for all six of the 24,000-unit container ships. The rudders were constructed with sizes of 13,600 mm x 9,000 mm, 160-t weights, and 37-t shafts. These hybrid rudders are made with a combination of high-tensile steel and cast steel parts. They were manufactured at the company's Oshima plant and delivered to shipbuilding yards by marine transport.

#### The only rudder in Japan to be entrusted for use on a large JMSDF vessel



Source: Maritime Self-Defense Force website

Murakami Iron Works is the sole company in Japan manufacturing rudders for the Maritime Self-Defense Force's large naval vessels. The company primarily handles rudder structures for destroyers and patrol ships. To date, the company has manufactured six rudders for large naval vessels, including the helicopter-carrying destroyers Izumo, Hyūga, Kaga, and Ise. The company is also slated to produce more in 2025 and beyond.

### Main Equipment and Machinery

- CNC Horizontal Boring Mill (Floor Type): X6000 x Y3500 x Z750 x W900, X8000 x Y3500 x Z750 x W900 / 2 units
- CNC Horizontal Boring Mill (Table Type): X3000, Y2300, Z1600, W700, etc. / 3 units
- CNC Lathes: 5 units ● CNC Plasma Cutting Machine: MAX 60mm
- Hydraulic Press: 1500t, W6500mm, etc. / 5 units
- Dedicated Wharf (Oshima Factory): Length 75m, designed water depth 7m

### Company Information

Business: Manufacturing of ship rudders and stern frames  
 Location: 733-3 Onishi-cho Waki-Ko, Imabari, Ehime Prefecture, 799-2206  
 Established: April 1977 Capital: 20 million yen Employees: 56 (as of November 2024)  
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