

# Yamanaka Shipbuilding Co., Ltd.



All-weather dock supports stable construction quality and high production capacity:  
Lifting capabilities for 200-ton-class large blocks

Assumed field Foundation Manufacturing(Floating) > Floating Structures Vessels > Offshore Support Vessel Shipbuilding



## Strength in building coastal vessels satisfying demands for energy conservation, high efficiency, and stable quality

Yamanaka Shipbuilding primarily builds coastal vessels, handling a diverse range of types including cargo ships and chemical tankers. Relocated and newly established in 2014, the Oshima Factory has a floorspace of approximately 52,000 m<sup>2</sup> with large-scale production infrastructure featuring an all-weather dock and factory building with movable roofs, enabling stable construction quality unaffected by weather and a highly efficient working environment. With integrated shipbuilding facilities including large cranes and processing equipment, the company handles everything from steel processing to assembly, outfitting, and finishing, in-house, giving it an annual production capacity of 10 vessels.

Furthermore, the design department's technical expertise is a key strength, demonstrated by the development of proprietary energy-saving ship forms, and the company actively promotes shipbuilding that contributes to environmental performance and fuel efficiency improvements. At the Ship of the Year 2023 awards hosted by the Japan Society of Naval Architects and Ocean Engineers, the Kuniki 68, a ship Yamanaka Shipbuilding was involved in constructing, was awarded in the Small Cargo Ship sector. The vessel has been highly regarded as demonstrating advanced initiatives toward realizing sustainable coastal transport service.

### Technical Achievements and Case Studies

#### Improving work efficiency with a dock featuring movable roofs



The approximately 52,000-m<sup>2</sup> site houses an all-weather, soundproof factory building with an opening/closing roof and an adjacent dock. The two 150-t jib cranes installed between them are capable of lifting large blocks in the 200-t class. The dock dimensions are 120 m × 22 m × 8.5 m, enabling it to accommodate vessels up to approximately the 6,000-GT class.

#### The energy-efficient "Yamanaka standard ship"



Yamanaka Shipbuilding adopted the "Era hull" form as its standard ship design, achieving energy savings by minimizing wave resistance to the greatest extent. Further improvements led to the development and design registration of the "Era+KL (Era & Knuckle) hull" form, which reduces fuel costs by approximately 11% compared to conventional forms. The company promotes high-quality shipbuilding based on both these hull forms.

### Main Equipment and Machinery [Specification / Unit]

- Dry dock: 120 m × 22 m × 8.5 m (Movable roofs: 37 m × 40 m /2units)
- Factory buildings: 66 m × 140 m (Movable roofs: 60 m × 30 m /1unit, 35 m × 30 m /2units)
- Outfitting wharf: 120 m × 10 m ● Cranes / Jib cranes: 150-t /2units, 15-t /1unit(Outfitting Pier), Overhead cranes: 20-t /1unit, 4.8-t /3units, 2.8-t /1unit, Gantry cranes: 4.8-t /3units, 2.8-t /3units, Single-leg gantry cranes: 4.8-t /5units, 2.8-t /6units

### Company Information

Business: Shipbuilding  
 Location: 951-5 Honjo, Yoshiumi-cho, Imabari, Ehime Prefecture, 794-2112, Japan  
 Established: December 1967 Capital: 90 million yen  
 Employees: 51 (as of April 1, 2021)  
 Representative: President Shinichi Asami Tel: +81-897-84-3500 Offices: Imabari  
 Metropolitan Area Contact: General Affairs Department Phone: 0897-84-3500  
 E-mail: kumon@yamanaka-zousen.co.jp  
 URL: <http://www.yamanaka-zousen.co.jp/>