



# COMPANY PROFILE



MITSUBISHI SHIPBUILDING CO., LTD.  
5-33-11 Shiba, Minato-ku, Tokyo  
108-8015, Japan  
Phone: 81-3-5476-6903  
<https://www.mhi.com/group/mhimsb/>



# Creating the Future in the Sea Founded on Solid Technology

Mitsubishi Shipbuilding Co., Ltd. covers the maritime-related businesses of Mitsubishi Heavy Industries (MHI) Group. We help propel forward the development of the maritime industry both in Japan and around the world through conventional shipbuilding and marine engineering, based on our deep technological expertise in shipbuilding and by leveraging the wide range of technologies across MHI Group.

Throughout our long history in shipbuilding, we have helped develop the maritime industry, including the establishment of maritime laws, regulations and standards, while manufacturing a broad range of ships and maritime products. By making full use of the foundational technologies that we have accumulated over many years and the integration capabilities that bring them together, we accommodate the needs of a variety of customers by adhering to a customer-first philosophy and actively taking on new challenges.

We, Mitsubishi Shipbuilding, will create the future in the sea founded on solid technology.



## Mission

We will create the future in the sea founded on solid technology.

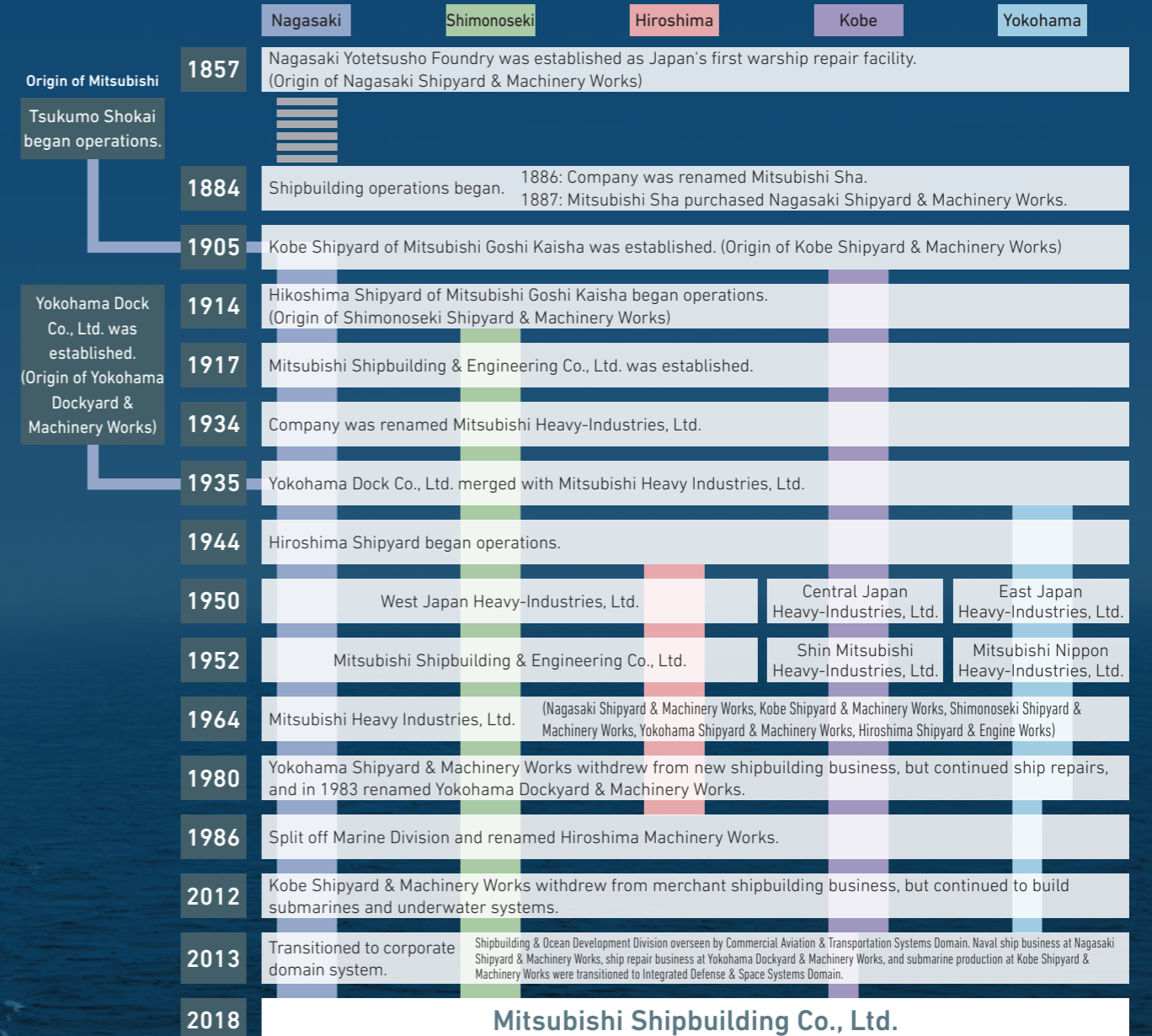
## Vision

We aim to address needs and challenges in the maritime industry by proactively keeping new challenges, creating values, and aiding sustainable development, all based on our deep shipbuilding expertise.

## Value

We value "safety," "reliable quality" and "timely response" in accordance with the MHI Group Global Code of Conduct.

## History



## Locations

### Tokyo (Head Office)

5-33-11 Shiba, Minato-ku, Tokyo  
108-8015, Japan



### Shimonoseki Site (Enoura Plant)

16-1, Hikoshima Enoura-cho 6-chome,  
Shimonoseki-shi, Yamaguchi, 750-8505, Japan



### Nagasaki Site (Main Plant)

1-1, Akunoura-machi, Nagasaki-shi, Nagasaki,  
850-8610, Japan



### Nagasaki Site (Koyagi Plant)

180 Koyagi-machi, Nagasaki-shi, Nagasaki,  
851-0310, Japan



## Greetings from President & CEO



Mitsubishi Shipbuilding (MSB) is a company established in 2018 that succeeded to Mitsubishi Heavy Industries' (MHI's) shipbuilding business which was founded in 1884. Since we started our business under the authentic name of Mitsubishi Shipbuilding, we have been actively engaged in providing marine engineering and services while building and delivering of a wide variety of ships. And today, the global and Japanese maritime industry are faced with complex multi-solution problems such as populational, environmental, geopolitical, and technological subjects. It's time for us to brave these challenges.

MSB will make every effort to solve such problems through a new shipbuilding business model. Complex problems require complex solutions. Those problems are not so simple that single organization can solve. We are going to tackle the problem with global cooperation. We will move forward and grow together with our business partners.

We will develop cutting-edge technology, as a densely outfitted ship we build in practice and as a green technology to utilize LNG (liquefied natural gas), ammonia and LCO2 (liquefied carbon dioxide). We will also incorporate innovative method for development, engineering and construction of ships, and will lead the collaboration with business partners.

We will keep growing to achieve future success and take actions with responsibility.

Safety first is our motto in all cases. We pursue to create value through reliable quality and timely response and contribute to making the shipbuilding business even more attractive.

President & CEO  
**Shin Ueda**

## Mitsubishi Shipbuilding's Commitment to SDGs

We have established the "2050 Vision" to address the SDGs through each business and product.

### 2050 Vision 01

## Creating a Safe and Secure Future for Society



Growing DX technology offerings and service businesses beyond the traditional borders of the shipbuilding industry.

Building a sustainable relationship between people and the ocean to realize a circular society where all can live in comfort and peace.

#### Digitalization of the Maritime Industry

Employing DX technology to create a safer and more efficient working environment for all involved in the maritime industry

#### Related Products

Navigation Assistance System,  
Hybrid Electric Propulsion Vessel

#### Acceleration of Offshore Resource Development

Contributing to the safe development of offshore resources and environmental protection by proven technologies

#### Related Products

Marine Research Ship,  
Cable Layers

#### Enhancement of User Experience on the Ocean

Enabling utilization of offshore space for enhanced passengers' experience

#### Related Products

Small Passenger Ship,  
Car and Passenger Ferry

### 2050 Vision 02

## Realizing Decarbonization of the Maritime Economy



Leading decarbonization of ships and accelerating offshore utilization of green energy and carbon capture.

Promoting harmony between people and the environment, and realize a sustainable and resilient decarbonized society through maritime business.

#### Decarbonization of Ships

Expanding the application of SOx scrubbers and LNG fuel, and working toward the adoption of electric propulsion and ammonia fuel in the future

#### Related Products

SOx Scrubber, Fuel Gas Supply System,  
LNG-fueled ferry

#### Expansion of Renewable Energy Utilization

Driving growth in offshore wind farms and production of green fuels utilizing renewable energy

#### Related Products

Semi-submersible Floater  
for Wind Turbines

#### Implementation of CCS/CCUS

Advancing CO<sub>2</sub> storage and utilization from captured industrial emissions

#### Related Products

Onboard CO<sub>2</sub> capture plant,  
Liquefied CO<sub>2</sub> Carrier

Please see the website for details.



## Corporate Overview

Company Name: Mitsubishi Shipbuilding Co., Ltd  
Establishment: January 1, 2018  
Head Office: 5-33-11 Shiba, Minato-ku, Tokyo 108-8015, Japan  
President & CEO: Shin Ueda  
Business Operations: Ship engineering, design, manufacture and repair of ferries, cargo and passenger ships, RO/RO ships, special-purpose vessels, patrol vessels, etc.  
Capital: 3,000 million yen (MHI: 100%)  
Group Companies: MHI Marine Engineering, Ltd. MHI Shimonoseki Engineering Co., Ltd.

## Organization

|                                   |  |   |   |   |
|-----------------------------------|--|---|---|---|
| Mitsubishi Shipbuilding Co., Ltd. | Planning & Administration Department           | T | S | N |
|                                   | Business Department                            | T | S |   |
|                                   | Procurement Department                         | T | S | N |
|                                   | Shimonoseki Quality Assurance Department       |   | S |   |
|                                   | Nagasaki Quality Assurance Department          | T |   | N |
|                                   | Marine Engineering Center                      | T | S | N |
|                                   | Strategic Planning & Operation Office          | T |   |   |
|                                   | Engineering Business Department                | T |   |   |
|                                   | Ship & Ocean Engineering Department            | T | S | N |
|                                   | Environmental Technology department            | T |   | N |
|                                   | Designing Department                           |   | S | N |
|                                   | Shipbuilding & Repair Department               |   | S | N |
|                                   | Health, Safety & Environment Management Office |   | S | N |

T: TOKYO  
S: SHIMONOSEKI  
N: NAGASAKI

# PRODUCT LINEUP

As the company that launched modern shipbuilding in Japan, MHI Group has always been at the forefront of shipbuilding and ocean development. Drawing on over a century of tradition and technological capabilities, the Group develops and builds an array of commercial ships and special-purpose vessels to meet a wide variety of needs. It is working to expand its engineering business in an effort to broaden its role on the world's seaways.

## Commercial Ships

Ferries, Cargo-Passenger Ships

Car Carriers, RO/RO Ships

Patrol Ships

Marine Resource Research ships

Cable Layers

Survey, Research, Training Ships

Other Special Ships

## Engineering Business

Environment, Energy-related Technologies

Shipbuilding Engineering

Marine Solution Provider

## Commercial Ships

### Ferries, Cargo-Passenger Ships



**SUNFLOWER KURENAI (LNG-fueled vessel) Ferry**

|                     |           |                |             |
|---------------------|-----------|----------------|-------------|
| Gross Tonnage ..... | 17,114 GT | Speed .....    | 22.5 knots  |
| Length .....        | 199.9 m   | Shipyard ..... | Shimonoseki |
| Breadth .....       | 28.0 m    |                |             |



**HAMAYU Ferry**

|                    |           |                |            |
|--------------------|-----------|----------------|------------|
| Gross Tonnage..... | 15,515 GT | Speed .....    | 28.3 knots |
| Length .....       | 222.5 m   | Shipyard ..... | Nagasaki   |
| Breadth.....       | 25.0 m    |                |            |



**KITAKAMI Ferry**

|                     |           |                |             |
|---------------------|-----------|----------------|-------------|
| Gross Tonnage ..... | 13,694 GT | Speed .....    | 21.5 knots  |
| Length .....        | 192.5 m   | Shipyard ..... | Shimonoseki |
| Breadth .....       | 27.0 m    |                |             |



**SALVIA MARU Cargo-Passenger Ship**

|                     |          |                |             |
|---------------------|----------|----------------|-------------|
| Gross Tonnage ..... | 6,099 GT | Speed .....    | 20.0 knots  |
| Length .....        | 118.0 m  | Shipyard ..... | Shimonoseki |
| Breadth .....       | 17.0 m   |                |             |



**YURIYA Cargo-Passenger Ship**

|                     |        |                |             |
|---------------------|--------|----------------|-------------|
| Gross Tonnage ..... | 273 GT | Speed .....    | 23.0 knots  |
| Length .....        | 46.0 m | Shipyard ..... | Shimonoseki |
| Breadth .....       | 8.0 m  |                |             |

RO/RO Ships, Car Carriers, Marine Resource Research Ships, Survey, Research, Training Ships



**FUJIKI** RO/RO Ship

Gross Tonnage ..... 15,986 GT      Speed ..... 23.0 knots  
 Length ..... 167.0 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 30.2 m



**TRANS FUTURE 11** Pure Car Carrier

Gross Tonnage ..... 28,775 GT      Speed ..... 21.0 knots  
 Length ..... 165.0 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 27.6 m



**KEYS Azalea**

Gross Tonnage ..... 4,744 GT      Speed ..... 12.0 knots  
 Length ..... 82.4 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 18.2 m



**HIMAWARI 8** RO/RO Ship

Gross Tonnage ..... 10,626 GT      Speed ..... 23.0 knots  
 Length ..... 166.9 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 27.0 m



**HAKUREI** Marine Resource Research Vessel

Gross Tonnage ..... 6,283 GT      Speed ..... 15.5 knots  
 Length ..... 118.3 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 19.0 m



**KAIMEI** Seabed Research Vessel

Gross Tonnage ..... 5,747 GT      Speed ..... 12 knots  
 Length ..... 100.5 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 20.5 m

Patrol Ships, Survey, Research, Training Ships, Cable Layers, Other Special Ships



**ASAZUKI** Patrol Vessel

Gross Tonnage ..... 6,500GT      Speed ..... 25.5knots or more  
 Length ..... 150 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 16.8 m



**TENYO MARU** Fisheries Training Vessel

Gross Tonnage ..... 995 GT      Speed ..... 12 knots  
 Length ..... 64.67 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 11.90 m



**HAKUHO MARU** Ocean Research Vessel

Gross Tonnage ..... 3,991 GT      Speed ..... 16 knots  
 Length ..... 100.0 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 16.2 m



**TERESA MAGBANUA** Multi-Role Response Vessel

Gross Tonnage ..... 2,265 GT      Speed ..... 24knots  
 Length ..... 96.6 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 11.5 m



**SUBARU** Cable Layer

Gross Tonnage ..... 9,557 GT      Speed ..... 13.2 knots  
 Length ..... 123.33 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 21.0 m



**HAYAKAZE** Fisheries Patrol Vessel

Gross Tonnage ..... 56 GT      Speed ..... 35 knots or more  
 Length ..... 26.0 m      Shipyard ..... Shimanoeseki  
 Breadth ..... 5.4 m

Environment, Energy-related Technologies

Utilizing the experience and know-how cultivated through the building of a wide variety of ships, including liquefied gas carriers, we not only sell environmental system products, but also provide engineering services related to ship design, construction, and operation.

Ammonia Fuel Handling System (MAmmoSS®)

MAmmoSS® enables marine diesel engines to be fueled by ammonia which does not emit CO<sub>2</sub> during combustion.



MAmmoSS® modules (image)



Ammonia-Fueled Bulk Carrier



Please see the website for details.

LNG Fuel Gas Supply System (LNG FGSS)

LNG FGSS enables marine diesel engines to be fueled by LNG.



LNG Fuel Tank



FGSS Module



Please see the catalog for details.

SOx Scrubber System DIA-SOx®

DIA-SOx® is easy to apply to existing marine diesel engines.

● DIA-SOx®C-series

Cylindrical type for small output engines.  
Main Engine Output 5-30 MW

● DIA-SOx®R-series

Rectangular type for large output engines.  
Main Engine Output 30-75 MW



Please see the catalog for details.



DIA-SOx®C-series



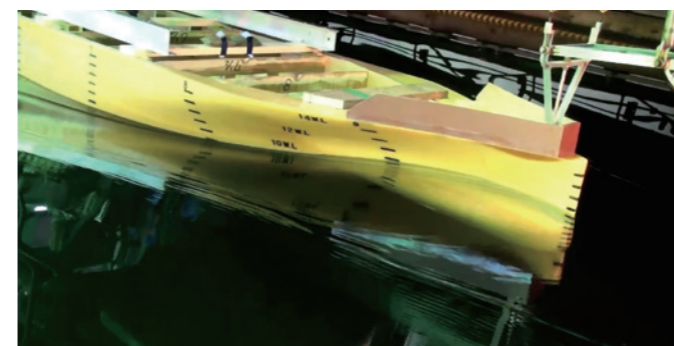
DIA-SOx®R-series

Shipbuilding Engineering and Digital Transformation Technologies

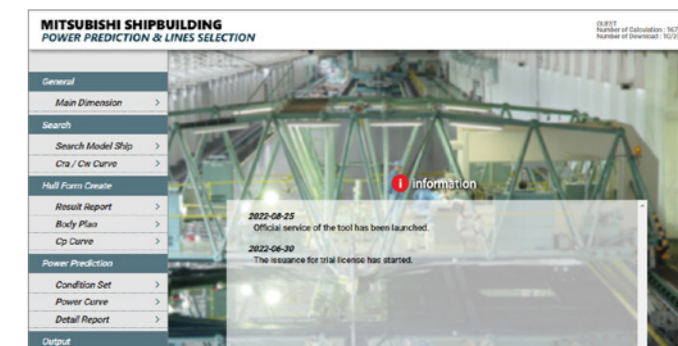
Utilizing advanced CFD analysis and vast model test records, energy efficient hull form will be developed and provided to our customer shipyards. Additionally, variety of design and analysis services, propeller and energy-saving devices can be provided.

- Hull form development
- Various model testing menus
- Propeller
- Energy-saving devices (Reaction Fin)
- Concept / basic / detail design
- Structural / vibration / ventilation analysis
- 3D Modeling
- Power Prediction & Lines Selection (MiPoLin®) system using the huge database of model test results.
- Sales of Mitsubishi Advanced Total Engineering system of Ships (MATES®) and 3D-Viewers (HullViewer®/FitViewer®)

Other than above, flexible solutions can be provided upon requests.



Wave Shape from Model Test



Power Prediction & Lines Selection (MiPoLin®)



Liquefied CO<sub>2</sub> Carriers Concept



MATES® Machinery Room 3D Design

Navigation Assistance System

Through the partnership with Marindows Inc., maritime start-up focused on DX, Mitsubishi Shipbuilding is delivering safety and security to the domestic shipping industry. We are tackling agendas such as improving the working environment for seafarers and preventing accidents at sea.

Digitalization of ship's system

- Portable navigation assistance system "Navin" (Collaboration with Marindows Inc.)
- Based on electrical sea-chart "new pec", GPS position of own-ship & AIS information of other ships are provided.
- Route planning, route tracking, grounding alert and collision alert and collision avoidance assistance.
- Audio input/output
- Plans to be connected to cloud system and other on-board devices such as on-board dash cam for further enhanced functions.

\* Provided by the Japan Hydrographic Association, a public interest foundation

