



Jsmea News

JSMEA Attends Malaysia Maritime Week 2024

The Japan Ship Machinery and Equipment Association (JSMEA) travelled to Kuala Lumpur, Malaysia, with financial support from The Nippon Foundation, to attend Malaysia Maritime Week 2024, a maritime exhibition and conference that was held from July 30 through Aug 1st, to take part in the exhibition and hold discussions on the advancement of the Safina Project 2 to locally construct offshore support vessels (OSVs) in Malaysia.

On behalf of JSMEA, Mr. Kinoshita Shigeki, chairman; Mr. Kuzu Tomoo and Mr. Oda Shigeharu, vice-chairmen; and Mr. Urabe Reiji, chief of the Overseas Market Development Working Group, was joined by 11 member companies at Malaysia Maritime Week

2024. The delegation set up booths in a Japan Pavilion, where the 11 manufacturers showcased their products, services and so on.

At the opening ceremony for the event on Day 1, YAB Dato' Seri Anwar bin Ibrahim, prime minister of Malaysia, and YB Loke Siew Fook, minister of transport, spoke on the importance of their nation's maritime industry. After his speech, Prime Minister Anwar stopped by the Japan Pavilion, where Vice-Chairman Oda, president and CEO of Ushio Reinetsu Co., Ltd., one of the 11 attending members, told the prime minister that through the support of The Nippon Foundation, the JSMEA delegation had established the Japan Pavilion to promote products for OSVs and that contribute to carbon neutrality.

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On Day 3, Aug. 1, Dr. Khairul Faizi Mohamad, general manager for LNG fleet management at Petroliaam Nasional Bhd. (PETRONAS), visited the Japan Pavilion and exchanged greetings with the 11 affiliated companies.



In the afternoon, the 11 JSMEA members arranged meetings with representatives from the Malaysia OSV Owners' Association (MOSVA) and 11 local ship owners who may obtain OSVs in the Safina Project 2, which is being promoted by PETRONAS. Views were exchanged actively on the latest information of the Safina Project 2, machinery and equipment for OSVs and their performances, after-sales services, financial programs, supply systems among other topics.



They went deeper into what specific information they should exchange for the benefit of both sides to follow up the memorandum of understanding (MoU) that was signed between JSMEA and the Malaysia Shipowners' Association (MASA) in 2019.



About Malaysia Maritime Week 2024

- 1) **Time and date:** 9:00-17:00, Tuesday, July 30-Thursday, Aug. 1
- 2) **Venue:** Halls 2 and 3, Level 3, Kuala Lumpur Convention Centre
- 3) **Location of the Japan Pavilion:** E1
- 4) **Attending JSMEA members:** BEMAC Corp.; Chugoku Marine Paints, Ltd.; Daihatsu Diesel Mfg. Co., Ltd.; Eagle Industry Co., Ltd.; Kamome Propeller Co., Ltd.; Kawasaki Heavy Industries, Ltd.; Mitsubishi Heavy Industries Engine and Turbocharger, Ltd.; Mitsui E&S Shipbuilding Co., Ltd.; Nakashima Propeller Co., Ltd.; Ushio Reinetsu Co., Ltd.; and Yanmar Power Technology Co., Ltd.

JSMEA Takes Part in SMM Hamburg 2024

The Japan Ship Machinery and Equipment Association (JSMEA) was joined by 27 member companies at SMM Hamburg 2024 with financial support from The Nippon Foundation. Together, they hosted a Japan Pavilion at the bi-annual shipbuilding, machinery and marine technology trade fair from Sept. 3 through Sept. 6 in Hamburg, Germany.



Prior to the opening of SMM Hamburg 2024, JSMEA Chairman Kinoshita Shigeki as well as Vice-Chairmen Kuzu Tomoo and Hirose Masaru visited the German Shipowners' Association (VDR) to meet with President Gaby Bornhelm, managing director of Peter Dohle Schifffahrts-KG; CEO Martin Kroger; and two other executives. JSMEA Vice-Chairman Kuzu then gave a briefing on technological developments being advanced with the NEDO Green Innovation Fund, which Japan's Ministry of Economy, Trade and Industry (METI) has established as a means to achieve carbon neutrality by 2050, after which, the delegations exchanged opinions. Later in the day, the JSMEA executives paid a courtesy visit to Consul General Toda Shinsuke at the Consulate General of Japan in Hamburg to update him on its activities and so forth.



The JSMEA delegation visits VDR CEO Martin Kroger (third from left) and VDR President Gaby Bornhelm (third from right).



The JSMEA delegation meets with Consul General of Japan in Hamburg Toda Shinsuke (center).

SMM Hamburg, which was held for the 31st time, is the largest maritime industry exhibition in the world, attracting some 2,000 exhibitors from over 100 countries and regions around the world. SMM Hamburg 2024 welcomed approximately 48,000 visitors, according to its organizers.

Many of the attending JSMEA member companies highly rated SMM Hamburg 2024, as they were able to gather information and learn the up-to-date developments otherwise unavailable in Japan or from agents, make many connections with overseas manufacturers with whom they had never done business prior and so forth.

On Sept. 4, or on Day 2 of SMM Hamburg 2024, the JSMEA delegation came on the Green Stage in Hall A4, which the organizers had prepared for presentations. Entitled “Japan Green Challenges”, four of the attending member companies delivered presentations. The venue was at capacity with more than 100 people attending, which showed the high interest they have in Japan’s conscientious efforts to achieve decarbonization, energy-saving and other targets.



To further develop amicable relations with the European maritime industry, JSMEA will continue to actively promote its member companies by attending exhibitions and taking advantage of other opportunities.



JSMEA member companies give presentations on the Green Stage.

In the late afternoon on the same day, JSMEA organized a networking reception at a nearby hotel together with VDR. At the beginning of the reception, Mr. Christoph Gessner, chair of the Nautical and Technical Commission at VDR and chief operating officer (COO) of CPO Holding (GmbH & Co.) KG, and Mr. Makoto Yamaguchi, executive officer of Mitsui O.S.K. Lines, Ltd., gave speeches. The reception welcomed some 190 attendees that included many from Germany and other European nations, who actively exchanged views and information with the JSMEA-affiliated companies.



About SMM Hamburg 2024 and Japan Pavilion

Dates: Tuesday, Sept. 3 to Friday, Sept. 6, 2024

Venue: Hamburg Messe und Congress

Location of Japan Pavilion: NL, Hall B7 (total area: 400 square meters)

Number of exhibitors from JSMEA delegation: 27 (listed below in alphabetical order)

17 companies that made exhibitions: BEMAC Corp.; Daihatsu Diesel Mfg. Co., Ltd.; Fuji Trading Co., Ltd.; Japan Engine Corp.; Mikasa Corp.; Mitsubishi Kakoki Kaisha, Ltd.; MOL Techno-Trade, Ltd.; Musashino Co., Ltd.; Nabtesco Corp.; NICO Precision Co., Inc.; Riken Corp.; Sunflame Co., Ltd.; Tokyo Keiki Inc.; Ushio Reinetsu Co., Ltd.; Volcano Co., Ltd.; and Yanmar Power Technologies Co., Ltd.

Nine companies that displayed panels: Asahi Kasei Engineering Corp.; The Hanshin Diesel Works, Ltd.; HSN-Kikai Kogyo Co., Ltd.; Mitsui E&S Shipbuilding Co., Ltd.; Nagasaki Sempaku Sobi Co., Ltd.; Nishishiba Electric Co., Ltd.; Shinko Ind. Ltd.; Towatechno Co., Ltd.; and Utsuki Keiki Co., Ltd.

One company that distributed a catalog: Teikoku Machinery Works, Ltd.

About JSMEA attendance at the Green Stage

Time and date: 16:00-16:45, Wednesday, Sept. 4, 2024

Venue: Green Stage, Hall A4, Hamburg Messe und Congress

Title under which JSMEA delegation delivered speeches: “Japan Green Challenges”

Presentations titles and presenters (in appearance order): “Green-Minded Stern Tube Solutions,” Mikasa Corp.; “Products and Technology for Sustainable Future,” Yanmar Power Technologies Co., Ltd.; “Wind-Powered Ships with Unlimited Ocean Energy,” Mitsui O.S.K. Lines, Ltd.; and “New Fuels to Reduce GHG by Daihatsu Diesel,” Daihatsu Diesel Mfg. Co., Ltd.

Number of attendees: approximately 100

About Japan Cocktail Networking Reception

Time and date: 18:30-20:30, Wednesday, Sept. 4, 2024

Venue: Intercityhotel Hamburg Dammtor

Presenters: Mr. Christoph Gessner, chair, Nautical and Technical Commission, VDR, and Mr. Makoto Yamaguchi, executive officer, Mitsui O.S.K. Lines, Ltd.

Number of attendees: approximately 190

JSMEA Organizes Seminar at Conxemar 2024

The Japan Ship Machinery and Equipment Association (JSMEA) attended Conxemar 2024 in Vigo, Spain from Oct. 1 to Oct. 3, where it also organized a ship machinery and equipment seminar. Conxemar, an international frozen food exhibition, was this year the 25th time held here in one of the largest fishery cities in Europe. Conxemar 2024 welcomed over 26,000 people from 110 countries across the globe, including fishing vessel owners and individuals engaged in the fishery business in Spain and other nations.

On behalf of JSMEA, Mr. Ueda Shuzo, who presides over the Overseas Fishing Vessel Market Development Working Group at the association, led a delegation of three member companies. The JSMEA delegation set up a booth to showcase machinery and equipment products manufactured by their affiliated companies to ship owners, shipbuilding companies and other visitors. The JSMEA booth was busy hosting fishing vessel operators and owners as well as other fishery business-related heavyweights not only from Spain but also from other Spanish-speaking nations in South America, Africa and elsewhere. Furthermore, those visiting held business negotiations and exchanged opinions with the JSMEA members.

On Day 1 of Conxemar 2024, JSMEA and the accompanying member companies visited Astilleros Nodosa, a shipyard near Vigo that constructs and repairs fishing and other vessels. The JSMEA delegation met with those in charge of procurement and ship designing. After introducing their products and services, the member companies held discussions with those overseeing shipbuilding. They were also given an opportunity to observe a fishing trawler being constructed at the shipyard.

On Day 3, the JSMEA delegation called at Astilleros Armon Vigo, another local shipbuilder. The member companies again unveiled information on their products and services to procurement and ship design personnel and exchanged views with those from the shipbuilding section. They were allowed to inspect several facilities there.

JSMEA will provide its Overseas Fishing Vessel Market Development Working Group with reports on its Spanish seminar and meetings at the shipyards to further discuss future steps to take in the fishing vessel market.



JSMEA delegation members meet with visitors at their booth.



The JSMEA delegation visits Astilleros Nodosa.



The JSMEA delegation visits Astilleros Nodosa.



JSMEA delegation members meet with visitors at their booth.



The JSMEA delegation visits Astilleros Nodosa.



The JSMEA delegation observes a fishing trawler vessel under construction at Astilleros Nodosa.



The JSMEA delegation exchanges views with Astilleros Armon Vigo staff members.



The JSMEA delegation observes a fishing trawler vessel under construction at Astilleros Nodosa.



The JSMEA delegation observes a fishing trawler vessel under construction at Astilleros Nodosa.



The JSMEA delegation exchanges views with Astilleros Armon Vigo staff members.

About the Ship Machinery and Equipment Seminar

Dates: Oct. 1 to Oct. 3, 2024

Venue: Instituto ferial de Vigo (IFEVI)

Number of Visitors: 26,736 in total

JSMEA Booth Location: 2MD17 (area: 25 square meters)

Members of the JSMEA Delegation: Maekawa Mfg. Co., Ltd.; Nippon Sento Co., Ltd.; and Yanmar Power Technology Co., Ltd.

About the Shipyards the JSMEA Delegation Visited

1) Astilleros Nodosa S.L. (visited on Oct. 1)—address: Avenida de Ourense, s/n, 36900 Marín, Pontevedra, Spain and URL: https://www.nodosa.com/index_en.php

2) Astilleros Armon Vigo, S.A.(visited on Oct.

3)—address: Av. Beiramar, nº 6 - B. 36208 Vigo, Pontevedra and URL: <https://www.stillerosarmon.com/armon-shipyards-vigo.html>

SASAKURA Energy Saving Fresh Water Generator series WX

Sasakura Engineering Co., Ltd.

1. Introduction

Since its foundation in 1949, SASAKURA has steadily accumulated special technological expertise in the leading manufacturer of fresh water generator for marine use.

SASAKURA's fresh water generator is well known in all over the world because of its energy-saving design to make fresh water, using the waste heat of the jacket cooling water of the diesel engine to evaporate the sea water under high vacuum.

In recent years, waste heat from diesel engines has decreased as ship energy-saving progresses, and the heat source for fresh water generator has tended to be insufficient.

Meanwhile, with the anticipated increase in demand for fresh water due to the various environmental regulations, this time SASAKURA has developed a more efficient and compact type Energy Saving Fresh Water Generator series WX, corresponding to the change. (Figure 1)

The series WX, a next generation fresh water generator, achieves higher efficiency and compactness with simple operation and easy maintenance, similar to fresh water generator series X which many ship crews has been a familiar with.

2. Futures of the series WX.

① Almost double the desalination efficiency of the series X.

The same capacity of fresh water with a half energy consumption, compared with the series X.

② Hinge-type turning heater for easier maintenance & inspection (Figure 2)

③ Easy replacement from existing unit

Split Type to carry in the ship easily (option)

3. Outline of the series WX

Figure 3 shows the comparison of single effect (the series X) and double effect (the series WX) type fresh water generator. Double effect type has two evaporators, and the vapor generated in the 1st evaporator is used as the heat source of the 2nd evaporator to achieve high efficiency

4. Line up

- Capacity: 20~40T/D
- Cooling seawater supply system: Type-E / Type- M (Figure 4)

| Item | Type | Type-E | | | Type-M | | |
|------------------------|---------|--------------|-------|-------|--------|-------|-------|
| | | WX20E | WX30E | WX40E | WX20M | WX30M | WX40M |
| Capacity | ton/day | 20 | 30 | 40 | 20 | 30 | 40 |
| Salinity of distillate | ppm | (※1)Below 10 | | | | | |
| Heat consumption | Mcal/h | 253 | 378 | 501 | 253 | 378 | 501 |
| | kW | 294 | 439 | 582 | 294 | 439 | 582 |

※1 Salinity of less than 2ppm can be guaranteed for special orders.

Figure 4 Standard Specification



Figure 1 Energy Saving(Heat and Power consumption)
Fresh Water Generator series WX



Figure 2 Hinge-type turning heater

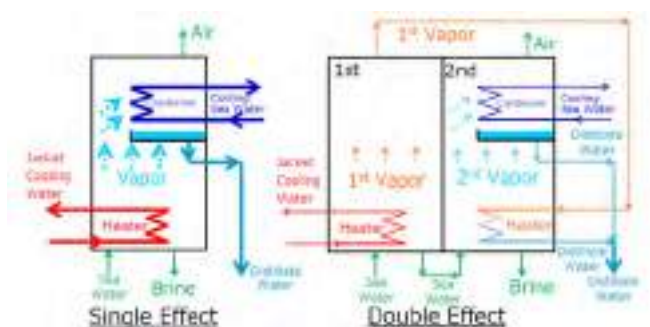


Figure 3 Outline of the series X (Single Effect) and the series WX (Double Effect)

V-MO®

Vessel Vibration Visualization Monitor

Safety and efficiency

V-MO is a monitoring service for marine motors which Asahi Kasei Engineering Corporation who has over 50 years of experience in vibration diagnosis of factory equipment had developed through joint research with Mitsui O.S.K. Lines Limited.

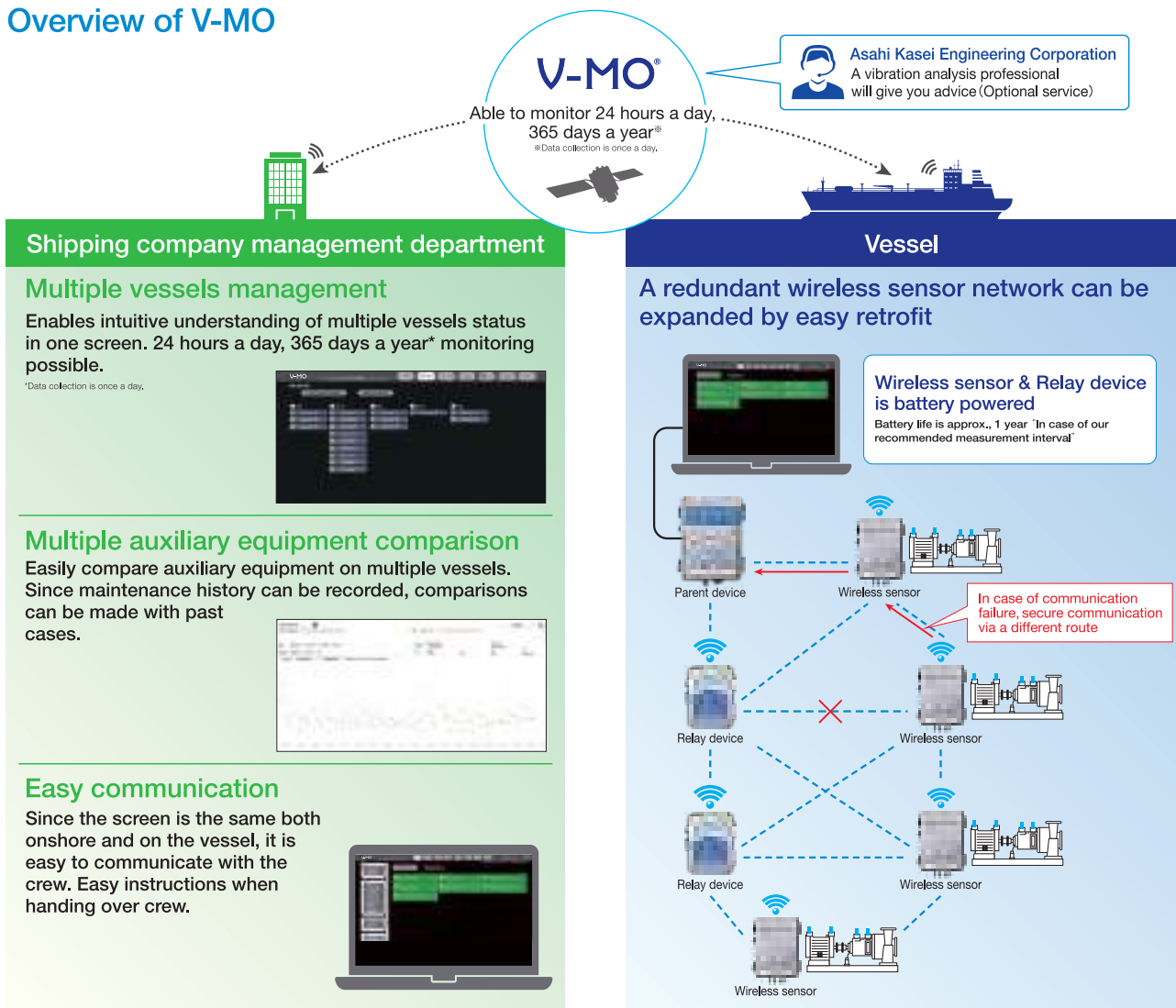
Managing vessel auxiliary equipment motors by vibration sensors & data collection device

Able to manage 24 / 7 *
from the shore and the vessel

*Data collection is once a day.

Easily retrofitting and expanding for both newly built vessels and vessels already in service

Overview of V-MO



V-MO has obtained the third-party certification of innovations and initiatives (concepts and real services) "Innovation Endorsement for Products & Solutions" certification by Class NK.

Service production company
ASAHI KASEI ENGINEERING CORPORATION



<https://www.asahi-kasei.co.jp/aec-mkt/v-mo/en/>

Contact information

Fuji Trading Co., Ltd

Machinery & Equipment Sales Department
Techno-Network Division

TEL: +81-(0)78-413-2657 Email: mes@fujitrading.co.jp

Smart Sounding Scale Honesty

Anyone can easily, quickly,
and accurately measure liquid
fuel with high transparency
and low connectivity!



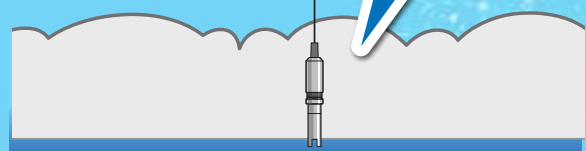
A lamp and buzzer are
activated to indicate when
the sensor reaches the
liquid's surface.



There is never a need to
completely roll up the measuring
tape, no matter how many
measurements are taken!

This measuring tape does
not easily get dirty since it
measures at levels that are
above the liquid's surface!

Honesty does not sense
bubbles and works
regardless of the liquid's
viscosity or color. That's
accuracy!



SEMCO SEMCO, Ltd.

<http://www.semco-ltd.com>
E-Mail: info@semco-ltd.com
5-4-23 Takatsuka-dai, Nishi-ku
Kobe 651-2271, Japan
Tel: +81-78-992-8361



YouTube



Cryogenic Butterfly Valves Designed Specifically for LH₂

As part of our commitment to realizing a hydrogen society, we have developed large-diameter cryogenic butterfly valves designed specifically for LH₂, which play a crucial role in marine transportation within the hydrogen supply chain.

They are suitable for installation on large LH₂ carriers, as well as at shipping and receiving terminals for LH₂.



Nakakita's cryogenic butterfly valves for LH₂, among the largest in the world, boasts exceptional sealing performance for cryogenic fluids. They also offer high heat insulation through a vacuum jacket and superior maintainability facilitated by a top-entry structure.

The sealing, heat insulation, and maintainability of the valves have been verified in LH₂ tests at the Noshiro Rocket Testing Center, which was conducted as part of the NEDO project "Development of Technologies for Realizing a Hydrogen Society" in collaboration with the Japan Aerospace Exploration Agency (JAXA).



Prototype for LH₂ tests at JAXA Noshiro Rocket Testing Center (800A, 32")



Since the 1970s, Nakakita has been manufacturing cryogenic valves for rocket launch facilities and LNG carriers, establishing a strong reputation for reliability and performance.

We are now expanding our product lineup to include not only large-diameter butterfly valves but also small- to medium-diameter globe valves. This expansion enables us to offer a comprehensive range of valves suitable for a wide variety of applications.

This page is based on results obtained from a project (JPNP14026) subsidized by the New Energy and Industrial Technology Development Organization (NEDO).



NAKAKITA SEISAKUSHO CO., LTD.

1-1 Fukonominami-cho, Daito, Osaka 574-8691, Japan

TEL: +81-72-871-7871 URL: <https://www.nakakita-s.co.jp/en>

Navigation Light

-We supply our navigation lights to more than 300 new building merchant vessels per a year. Our navigation lights are used on domestic, overseas and various types (Bulk, Tanker, Ferry, etc.) of vessels.



NIPPON SENTO CO., LTD.



(LED·NL-TYPE)



(BULB·WB-TYPE)

Every ship needs the navigation light. - We are the only manufacturer in Japan that produce both LED and bulb type navigation light. We have the top-class market share in Japan in the field of the navigation light. With the rich history of over 80 years, now we are developing new types of navigation light based on customer's needs and our experience.

Navigation light are legal equipment. Essential for ships navigate at night.



- **Navigation light** is the light that the ship hoist and display **Mast head light**, **Side light**, and **Stern light** when navigate at night. They indicate the status of the ship to others.

- ☞ At night, these lights are used to visually inform other ships of each other's direction of navigate, position, and condition.
- ☞ Lighting is mandatory **from sunset to sunrise**.
- ☞ Even today, when radar has become more sophisticated, visual navigation lights still play an important role in the final analysis.
- ☞ The aircrafts of today have aeronautical lights (**light wing green**, **left wing red**) on both ends of their wings, which are also derived from ships.



NIPPON SENTO CO., LTD.

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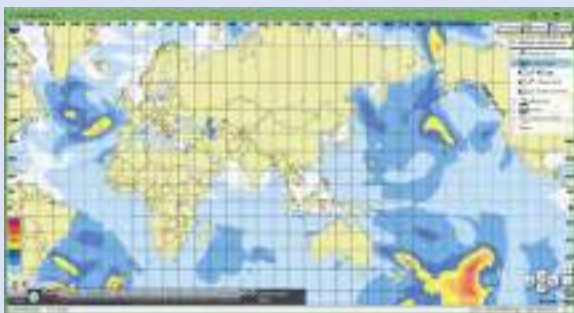
POLARIS is

precise ocean data library and Intelligents service.

such as the assessment of efficient ship operation and its design, safe and energy saving voyage, verification and assessment after voyage, and also working on IoS (IoT of ships).

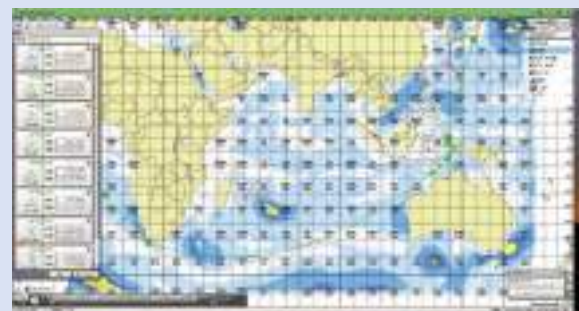
POLARIS Forecast

Global data can be forecast up to 30 days ahead. The seas around Japan provide highly accurate, high-resolution forecasts with assimilated data.



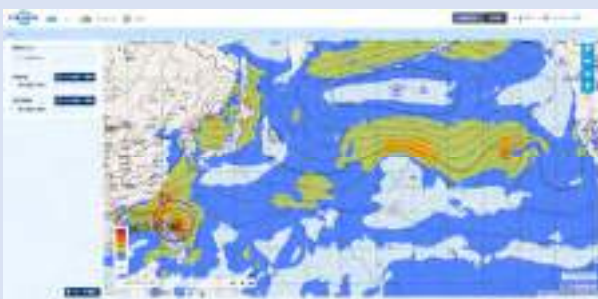
POLARIS Navigation

Planning routes with minimum fuel consumption using ship-specific propulsion performance estimation and high-precision, high-resolution weather and sea weather forecasts.



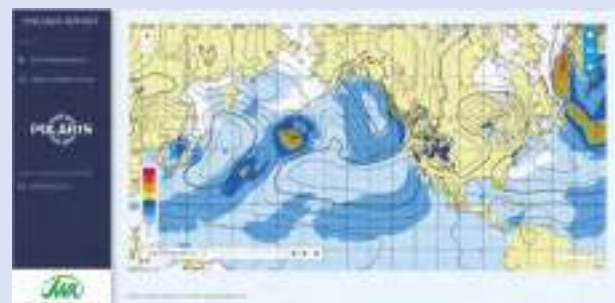
POLARIS Plus

Shared information on the movement monitoring and optimal routes of vessels using POLARIS Forecast/Navigation. POLARIS Plus can also be used independently.



POLARIS Report

Various assessment analyses of ships are carried out from operational monitoring data acquired from ships and various POLARIS meteorological and maritime data.





High Speed Underwater Hull Cleaning System

Yanmar has developed a Hull Cleaning ROV HC12 for large vessels, as well as a device to collect the biofouling generated during cleaning. This makes it possible to quickly wash off attached organisms on the underwater hull, and then filter and collect biofouling to prevent it from polluting the surrounding marine environment. It is expected that the technology to clean organisms attached to the vessel underwater will prevent environmental disruption caused by the movement between ocean regions and will contribute to reducing GHG emissions from voyages.



Hull Cleaning ROV HC12

High Speed Cleaning ROV “HC12”

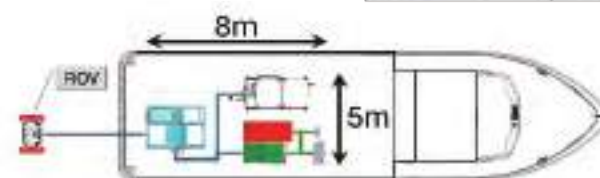
Developed to have a flat shape body, it has achieved a work speed of 2,000m²/h with a power consumption of 31kW. This is one of the fastest cleaning ROV in the world, and can meet demands for cleaning large vessels. It is equipped with an electric thruster to move underwater, and a high-pressure water jet device on the bottom of the unit to clean the hull. The ROV is attached to the hull and cleans while moving. It is specialized for quickly cleaning flat vessel sides, bottoms and can remove slime and small deposits up to 20 mm in size.



ROV undergoing cleaning work

HC12 Specification Overview

| Model | HC12 |
|-------------------------|-------------------------|
| Max. Work Speed | 2,000 m ² /h |
| Cleaning width | 1,320 mm |
| Max. Speed | 2.16 km/h |
| Max. Depth | 28 m |
| Power Consumption | 31.5 kW |
| Electricity Voltage | 200V |
| Weight in Air | 190 kg |
| Cleaning Method | Water Jet |
| Pump Discharge Pressure | 18 MPa |
| Length of Unit Body | 1000 mm |



Example of installation on a work boat

Continuous Filtration System “BS100”

The filtration device BS100 sucks up biofouling generated during hull washing onto the work boat, filters out and collects solid biofouling. It implements two-step filtering and has a continuous backwashing system, so the process is not interrupted due to clogged filters. Yanmar will continue to develop products that comply with IMO standards.



Filtration device BS100

BS100 Specification Overview

| Model | BS100 |
|----------------------|------------------------|
| Filtration Speed | 100L/min. |
| Power Consumption | 3.6 kW |
| Filtration Accuracy | > 50 μm |
| Weight in Air | 860 kg |
| Filtration Unit | Continuous Drum Filter |
| Wastewater Treatment | UV Sterilize |



YANMAR POWER TECHNOLOGY CO., LTD

Contact: Yanmar Marine International Asia co., Ltd

1-32 Chaya-machi, Kita-ku, Osaka-city, Osaka-hu, Japan

E-mail: ryuhei_satake@yanmar.com

1-inch Radar Type Level Gauge

LNG Fuel Tanks and Bunkering Vessels

Musasino has been supplying marine tank level measurement systems for 60 years, offering a wide range of reliable equipment for monitoring alternative fuel tanks.

All-in-One Structure

Level, temperature, pressure, and independent alarm sensors in one device

Unique Self-Correction Function

Ensuring stable and accurate measurement accuracy

Bottom Structure

Integrated with the guide pipe,
eliminating the need to install an attenuator on tank structures

Ensures Redundancy and Safe Operation

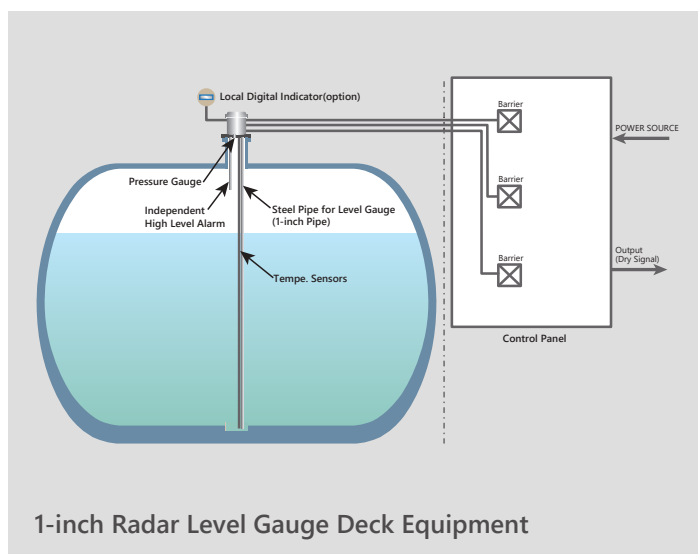
Level Measurement for Alternative Fuels

Musasino also has float type level gauges to measure LCO₂, hydrogen, methanol, etc



Fuel Tank Monitoring for FGSS

References on more than 150 vessels





FUJIKURA COMPOSITES

FUJIKURA LIFESAVING PRODUCTS

FUJIKURA MES (vertical chute system) and INITIALBLE LIFERAFT have been highly praised for its high quality since its development in 1973 and have a substantial market share.

FEATURES

MES has a double structure in which the descent route is not exposed but is covered with a protective body of flame-retardant material. As a result, it is highly rated as being highly safe as it is less susceptible to the effects of wind and protects evacuees from flames and heat from outside.



CHOUTE SYSYEM



LIFERAFT for
FERRY VESELL



LIFERAFT for
COMMERCIAL VESSEL

FUJIKURA INITIABLE LIFERAFTS are designed for commercial vessels, passenger vessels, and offshore installations navigating adjacent seas and oceans. The structures, performance, and accessories comply with SOLAS, IMO, and LSA regulations.

WHAT IS FSP?

(FUJIKURA WORLDWIDE NETWORK SERVICE SUPPORT PROGRAM – FSP)

The FSP service involves coordinating the annual inspection and exchange of liferafts. Fujikura has a dedicated team that serves as a one-stop solution for coordinating these inspections in collaboration with customers and technicians worldwide. Our team is experienced in arranging these services while carefully adhering to flag and class requirements.



FUJIKURA COMPOSITES

GOTANDA JP BUILDING 4F , 8-4-13 Nishi Gotanda, Shinagawa-ku Tokyo 141-0031, Japan
TEL :81-(0)3-5747-9230 E-mail: fsp@fc.fujikura.co.jp





Renewable Energy & Ship Performance Data Analysis Added to Aquarius Management & Automation System

First system being delivered to a major & expanding ship owning company

The Aquarius Management & Automation System is a data logging & data analysis computer system developed by Eco Marine Power in Fukuoka, Japan, using the KEI-64S system architecture from KEI System in Osaka, Japan. It can be used with a wide range of sensors & measurement devices including solar power charging equipment. It can also be integrated with an IoT (Internet of Things) Gateway that enables connectivity with 4G & 5G mobile networks and satellite communications links.

Applications include: ship performance data management & analysis, renewable energy systems management & data output for AI systems



Eco Marine Power Co., Ltd.

Aqua Hakata 5F, 5-3-8, Nakasu, Hakata-ku,
Fukuoka 810-0801, JAPAN

Tel: +81-92-287-9677 Fax: +81-92-287-9501

E-mail: enquiries@ecomarinepower.com

<http://www.ecomarinepower.com>





POWERFUL GRABBING WITH EFFICIENCY

TOBU JUKOGYO, has been manufacturing cargo handling machines since 1963. We have been manufacturing, developing, studying, and improving products.

Grab buckets are one of our main products. We could offer various models, shapes, and structures of grab buckets.

Radio controlled single rope type

is available to any type of cranes. You could install it just by hanging on the crane hook. Due to its simple structure, normal maintenance is easy and running costs can be reduced.

Electro-hydraulic type is operated by a hydraulic system that is driven by two electric motors which enable to grab cargo with strong power.

4 rope type could be made larger to match the performance of large crane.

Orange peel type is suitable for various shapes of cargo, from heavy and large lumps to light and small lumps, to dig deeply and grab.



Radio Controlled Single Rope



Electro- Hydraulic type



4 rope type



Orange peel type



Other products : Hoppers

All types of bulk cargo, including coal, ores, grains, and biomass fuels, are loaded into dump trucks and containers. The cargo loading status can be visually confirmed from the control room. Automatic operation to discharge a fixed amount is also possible. There are also types equipped with dust collectors for cargo with a lot of dust. The machine can be towed by a trailer or wheel loader.



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Japan Engine Corporation

Challenge to Zero Emission by Ammonia & Hydrogen fueled-engine



The first ammonia-fueled engine, UEC50LSJA with 50cm bore, will be completed in 2025.
The first hydrogen-fueled engine, UEC35LSGH with 35cm bore, will be completed in 2026.
These developments are proceeding under the support of NEDO's Green Innovation fund.



J-ENG is the only company in the world that has business scheme from development to after-sales service of UE engine, which is one of the world's three brands of low-speed marine engines. Ever since J-ENG manufactured our first engine in 1955, J-ENG have developed with our own technologies as a licensor, and have more than half a century of experience in supporting the safe operation of ships.



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Smart and friendly - ECDIS EC-9000

Voice of customer



I feel good future for TOKYO KEIKI's way - critical equipment for safety navigation with cutting edge technology such as touch panel operation.

— Dry cargo vessel operator

This ECDIS is first ever one with Maritime Education & Training Certification by ClassNK.

— Capt. Naoki Saito, General Manager of Management Systems and Maritime Training Certification Department, ClassNK



EC-9000 parts can be easily replaced by ship's crew.

In addition, we feel it is excellent that spare SSD is in its spare.

— Offshore vessel owner



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JSMEA Holds Ship Machinery, Equipment Seminar in HK

The Japan Ship Machinery and Equipment Association (JSMEA) held a ship machinery and equipment seminar in Hong Kong on Nov. 26, 2024 with financial support from The Nippon Foundation. The first such event in the special administrative region in four years was co-organized by the Hong Kong Shipowners Association (HKSOA). Seventeen JSMEA-affiliated companies met with 90 individuals from shipowners and others in the Hong Kong maritime industry.

The seminar began with speeches by JSMEA Chairman Kinoshita Shigeki and HKSOA Technical Director Martin Cresswell, who discussed decarbonization and other efforts that their respective organizations are making. The 17 JSMEA members gave presentations on their products, technologies and other up-to-date information. At each of their tables, participants were provided the opportunity to ask questions and exchange views on products, technologies and the presentations.

Following the seminar, JSMEA held a reception to allow interactions between its members and potential customers and other local attendees.



JSMEA members deliver presentations.



JSMEA visits the TSA.



JSMEA Chairman Kinoshita Shigeki made the opening remarks.



HKSOA Technical Director Martin Cresswell gives an address as a guest.

About the Seminar

Date and Time: Tuesday, Nov. 26, 2024—seminar: 14:00-17:30 and reception: 18:00-20:00

Venue: Special Exhibition Room, B Deck, Hong Kong Maritime Museum (address: Man Kwong St., Central, Hong Kong)

Cooperating organization: Hong Kong Shipowners Association
For more details, visit the following

URL: <https://www.jsmea.or.jp/en/seminar/2024/hongkong/>

Members of the JSMEA delegation: BEMAC Corp.; Chugoku Marine Paints, Ltd.; Daihatsu Diesel Mfg. Co., Ltd.; Kamome Propeller Co., Ltd.; Kawasaki Heavy Industries, Ltd.; Nabtesco Corp.; N.Y. Co., Ltd.; Sasakura Engineering Co., Ltd.; Semco Ltd.; Taiko Kikai Industries Co., Ltd.; Taiyo Electric Co., Ltd.; Tobu Jukogyo Co., Ltd.; Tokyo Keiki Inc.; Volcano Co., Ltd.; and Yanmar Power Technology Co., Ltd.

*All of the 17 delegation members gave presentations and set up tables for information-sharing and negotiations.



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