

Jsmea News

JSMEA Holds Indonesia-Japan Business Matching Forum 2022

The Japan Ship Machinery and Equipment Association (JSMEA), with support from The Japan Ship Machinery and Equipment Association (JSMEA) held the Indonesia-Japan Business Matching Forum 2022 in Jakarta on Nov. 17. With support from The Nippon Foundation, this is the third such event that JSMEA has organized in Indonesia. The previous event, its second was held on July 27, 2016. At its third seminar, JSMEA was joined by the Indonesia National Shipowners' Association (INSA) and the Indonesia Shipbuilding and Offshore Association (IPERINDO).

The Japan delegation was led by JSMEA executives: Mr. Kinoshita Shigeki, chairman; Mr. Kinoshita Kazuhiko, vice-chairman; and Mr. Urabe Reijiro, leader of the Overseas Market Development Working Group. Other members included International Affairs Office Director Maeda Takanori of the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) Maritime Bureau's Shipbuilding and Ship Machinery Division as well as representatives of 15 JSMEA-affiliated companies. From Indonesia, meanwhile, were government officials; heavyweights from ship owners, ship designers, shipbuilders and other parties concerned with maritime affairs; and Sasakawa fellows (*). A total of some 220 people gathered at the business matching forum, including 178 from Indonesia.

At the Indonesia-Japan Business-Matching Forum 2022, Jakarta officials and representatives of the local maritime industry, such as INSA and shipbuilding association members, gave presentations. They introduced the efforts being made by their country to reduce CO2 emissions; expand its fleet, including shipbuilding plans; and recent developments in the local maritime industry. Members of

the Japanese delegation also gave presentations on new products and other information. They also conducted business negotiations directly with potential customers at tables prepared at the seminar venue.

At the forum, JSMEA revealed its progress on basic offshore support vessel (OSV) design drawings that it is advancing to promote Japanese ship machinery and equipment. It showcased not only individual products but packages of products as well. Members of the Japanese delegation said that they were able to secure new customers.



The Indonesia-Japan Business Matching Forum 2022 is in session.

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Negotiations are held at business-matching tables.

After the Indonesia-Japan Business-Matching Forum 2022, JSMEA organized a networking reception to encourage accompanying members to foster good relations with customers and potential customers, in what was decidedly a friendly atmosphere maintained by all until the end.

JSMEA will report the outcome of the Indonesia-Japan Business-Matching Forum 2022 at meetings of its Overseas Market Development Committee and Working Group to discuss its next actions and steps for the future.

(*) Sasakawa fellows are students and alumni of the World Maritime University (WMU) who receive grants from The Nippon Foundation. Many have gone on to become maritime affairs-related government and industry executives in developing economies.

About Indonesia-Japan Business-Matching Forum 2022

1) Date: Thursday, Nov. 17, 2022

—13:00-18:00: presentations and 18:15-20:00: networking reception

2) Venue: AYANA Midplaza Jakarta

3) Attending JSMEA members: BEMAC Corp.; Daihatsu Diesel Mfg. Co., Ltd.; Fuji Electric Co., Ltd.; The Hanshin Diesel Works, Ltd.; IHI Power Systems Co., Ltd.; Kamome Propeller Co., Ltd.; Kanagawa Kiki Kogyo Co., Ltd.; Mikasa Corp.; Nakashima Propeller Co., Ltd.; Sasakura Engineering Co., Ltd.; Taiko Kikai Industries Co., Ltd.; Taiyo Electric Co., Ltd.; Tokyo Keiki Inc.; Ushio Reinetsu Co., Ltd.; and Yanmar Power Technology Co., Ltd.



JSMEA Chairman Kinoshita Shigeki gives the opening address at the Indonesia-Japan Business-Matching Forum 2022



INSA Chairman Sugiman Layanto delivers a presentation.



Mr. Maeda Takanori of the MLIT is at a podium to give a speech.



Mr. Muhamad Syaiful, S. T., M. M. Tr. of the Indonesia Ministry of Transportation gives a speech.



On the stage is Mr. Taufiek Bawazier, director-general of metal, machinery, transportation, equipment and electronics industries of the Ministry of Industry Republic of Indonesia.



Mr. Selamat Budiman, vice-chairman of IPERINDO goes on the stage to give a presentation.



Ms. Novi Hasni Walilulu, executive chairman of the Batam Shipyard and Offshore Association (BSOA), delivers a speech.



Mr. Eko Maja Priyanto, a Sasakawa fellow working now at Indonesian Classification Bureau (BKI), joins the Indonesia-Japan Business Matching Forum 2022



JSMEA Vice-Chairman Kinoshita Kazuhiko gives the closing remarks.



Presentations are given by attendees.



JSMEA introduces its project to create basic OSV design drawings.



Attendees from Japan and Indonesia get together to deepen business relations and friendships.



he networking reception comes to an end with the closing message by JSMEA Overseas Market Development Working Group Leader Urabe Reijiro.

In advance to the Indonesia-Japan Business-Matching Forum 2022, JSMEA Chairman Kinoshita Shigeki, Overseas Market Development Working Group Head Urabe Reijiro and other members took advantage of traveling to Indonesia and visited local governmental and other organizations. They introduced JSMEA activities, promoted Japanese ship machinery and equipment and exchanged views on the policies the organizations advance and so on.

JSMEA Visits INSA



JSMEA Chairman Kinoshita Shigeki (seated, left) and Mr. Sugiman Layanto, chairman of INSA (seated, right)

JSMEA Calls at Ministry of Industry



Mr. R. Hendro Martono, director of maritime, transportation and defense equipment industries, Ministry of Industry Republic of Indonesia (fourth from left)

JSMEA Pays Visit at Ministry of Transportation



Mr. Muhamad Syaiful, S. T., M. M. Tr., head of sub directorate for ship design, stability and load line, Indonesia Ministry of Transportation (fourth from right)

JSMEA Organizes Business Matching Seminar in Vietnam

The Japan Ship Machinery and Equipment Association (JSMEA) organized a seminar in Hanoi, Vietnam on Dec. 2022. The Vietnam-Japan Business Matching Forum 2022 was held with financial support from The Nippon Foundation and joined locally by the Vietnam Shipowners' Association (VSA).



The Vietnam-Japan Business Matching Forum 2022 is in session.

From Japan, a group of some 30 individuals was present at the Vietnam-Japan Business Matching Forum 2022. Members included Mr. Oda Masato, vice-chairman of JSMEA; Mr. Urabe Reiji, leader of the JSMEA's Overseas Market Development Working Group; representatives from seven JSMEA member companies; and Mr. Suzuki Seiichi, deputy director of the International Affairs Office at the Maritime Bureau's Shipbuilding and Ship Machinery Division under the Ministry of Land, Infrastructure, Transport and Tourism (MLIT). From Vietnam, meanwhile, about 90 individuals participated in the forum, including those from the central government, ship owners, shipbuilders and Sasakawa fellows (*).

(*) Sasakawa fellows are students and alumni of the World Maritime University (WMU) who receive grants from The Nippon Foundation. Many have gone on to become maritime affairs-related government and industry executives in developing economies.



JSMEA members open booths for negotiations with potential customers.

At the Vietnam-Japan Business Matching Forum 2022, presentations were given by the Vietnam Maritime Administration (VINAMARINE); the VSA; Shipbuilding Industry Corp. (SBIC), a state-run shipbuilding holding group; and the Vietnam Register, a classification society. They briefed Hanoi's policies for maritime affairs and fleet development plans as well as the current state of and recent developments in the local maritime industry and market. The Japanese ship machinery and equipment manufacturers were given compliments for the high reliability of their products and requests were made for business expansions into their country.



JSMEA Vice-Chairman Oda Masato gives an opening address at the Vietnam-Japan Business Matching Forum 2022



VSA Chairman Le Anh Son also speaks at the beginning of the Vietnam-Japan Business Matching Forum 2022

On behalf of the Japan delegation, Mr. Suzuki delivered a speech on cooperation and financial schemes between Japan and Vietnam. After his speech, presentations were made by the seven JSMEA-affiliated companies, who showcased their products and technologies. They also held business negotiations with potential customers at dedicated tables prepared at the seminar hall.



A presentation is given by International Affairs Office Deputy Director Suzuki Seiichi of the MLIT Maritime Bureau's Shipbuilding and Ship Machinery Division.



VINAMARINE Shipping and Maritime Services Department Head M. Sc. Vo Duy Thang



VR Ship Department Deputy Director Vu Ngoc Huy



SBIC vice-president Mr. Nguyen Tien Dat



VSA Secretary General Bui Van Trung



JSMEA Overseas Market Development Working Group Leader Urabe Reijiro makes the closing remarks at the Vietnam-Japan Business Matching Forum 2022

After the Vietnam-Japan Business Matching Forum 2022, JSMEA organized a networking reception to promote amicable relations and information exchanges between its delegation members and local enterprises.



JSMEA Vice-Chairman Oda Masato kicks off the networking reception.



Participants exchange greetings to get to know each other.



The networking reception draws the curtain with a closing message by VSA Secretary General Bui Van Trung.

JSMEA will report the outcome of the Indonesia-Japan Business-Matching Forum 2022 at meetings of its Overseas Market Development Committee and Working Group to discuss its next actions and steps for the future.

About Vietnam-Japan Business Matching Forum 2022

Date: Monday, Dec. 5, 2022

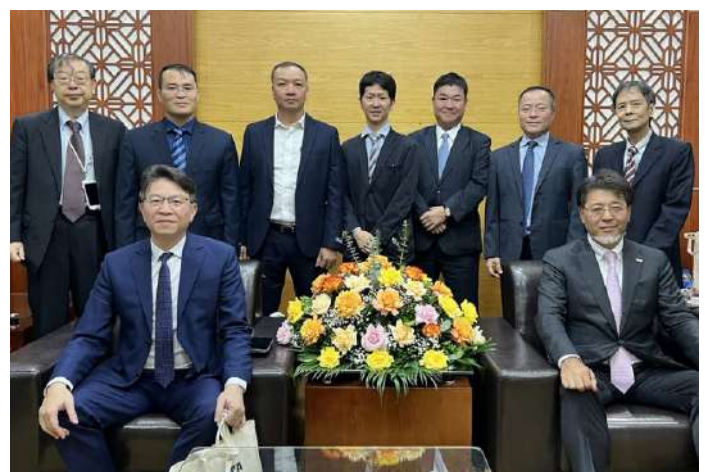
Time: 14:00-16:30 (seminar) and 16:30-18:30 (reception)

Venue: Conference room at the head office of Vietnam Maritime Corp. (VIMC) (address: Ocean Park Building 3rd Floor, No. 1, Dao Duy Anh, Phuong Mai, Dong Da, Hanoi)

Helping Partner: Vietnam Shipowners' Association

URL: <https://www.jsmea.or.jp/en/seminar/2022/Vietnam>

Participating JSMEA members: BEMAC Corp; Daihatsu Diesel Mfg. Co., Ltd.; The Hanshin Diesel Works, Ltd.; Kamome Propeller Co., Ltd.; Nakashima Propeller Co., Ltd.; Taiko Kikai Industries Co., Ltd.; and Yanmar Power Technology Co., Ltd.



Front row (from left): Mr. Le Anh Son, VSA chairman and JSMEA Vice-Chairman Oda Masato back row (from left): Mr. Ando Noboru, JSMEA executive managing director; Mr. M. Sc. Vo Duy Thang, head of the Shipping and Maritime Services Department, VINAMARINE; Mr. Nguyen Tien Dat, SBIC vice-president; International Affairs Office Deputy Director Suzuki Seichi of the MLIT Maritime Bureau's Shipbuilding and Ship Machinery Division; JSMEA Overseas Market Development Working Group Leader Urabe Reijiro; Mr. Vu Ngoc Huy, deputy director of the Ship Department, VR; and Mr. Bui Van Trung, VSA secretary general

How can you make your ship never stops?

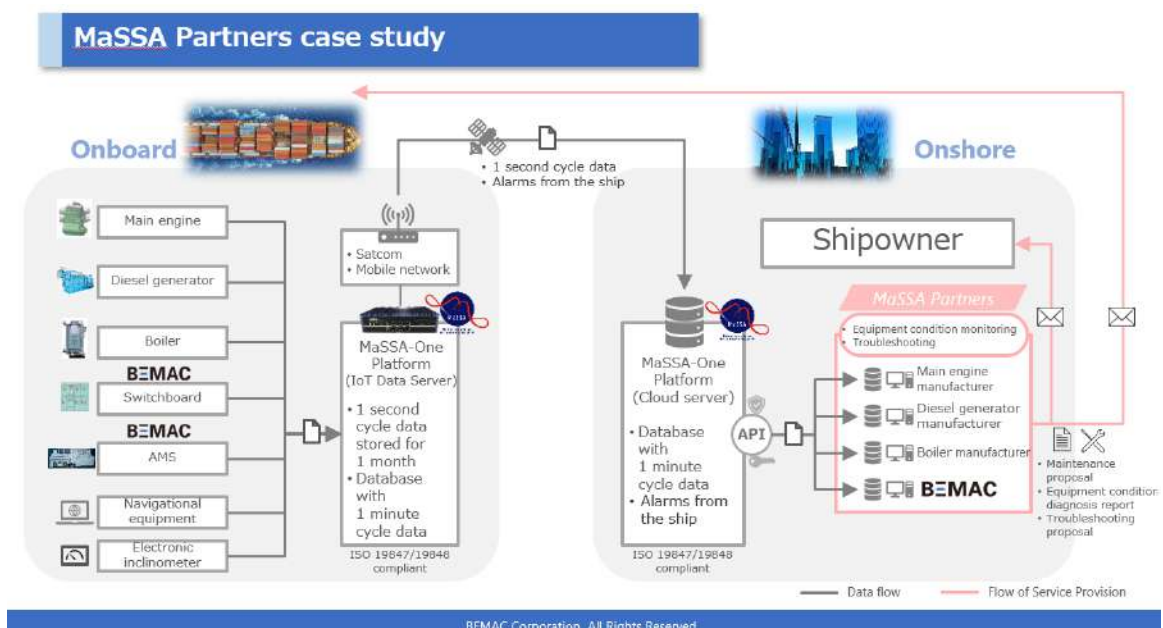


For a chief engineer on board, it is a huge responsibility to maintain his ship every single day to prevent any issue, which may stop the ship. In these days, the systems on board are becoming sophisticated as well as complicated and the tasks of the chief engineer are becoming harder. It is desired to have some supports from vessel managers onshore.

The MaSSA-One provides the visualization of the machinery data of the ships by the combination of the IoT data server and the cloud data platform. The machinery data with the navigational data can be monitored on a cloud-based application called MaSSA Insight WADATSUMI. The MaSSA Insight WADATSUMI can be used on the ship as well as at the shore office. In that way, the chief engineer on the ship and the vessel manager onshore can review the same ship's data at the same time when something happens on the ship. The MaSSA Insight WADATSUMI has two major capabilities, one is the Engine Monitor, which is to monitor the status of engine in various aspects and the other is the Knowledge Alarm to set up the alarms in multiple combined conditions based on the knowledge of a skilled engineer.

Also, it has a capability called Electric Troubleshooting, which makes it efficiently to collect and review the data, identify the problem and the instruction to fix the problem is coming up when a problem happens on a power distribution system. A lot of marine equipment manufacturers agree with the concept and formed an alliance for ship's digital maintenance by nineteen companies called "MaSSA Partners" and the number of the partners are increasing as we speak. The goal of the alliance is to realize a scheme like, when a problem happens on any marine equipment on a ship, an alert is generated, the data is shared between a chief engineer, vessel manager and support desk of the manufacturer, the problem is fixed or the service attendance is arranged within a few hours. To achieve that, the MaSSA Partners are working together on several projects suggested by customers to develop some digital maintenance solutions.

The MaSSA-One is already capable of ship maintenance digitalization for the main engines and electric generators as of now and still growing to cover a lot of other marine equipment to achieve the ship never stops.





Supported by 日本 THE NIPPON 財団 FOUNDATION

Development of Fujitsu Safe Navigation Support Solution

With the increase in the amount of marine transportation and the increase in vessel size, there have been a series of serious vessel accidents around the world, and it is important to ensure the safety of maritime traffic. In addition, many vessel accidents are caused by human error, and technology to support operation controllers in crowded sea areas such as near ports and bays is required.

Fujitsu demonstrated the usefulness of a novel vessel collision risk prediction technology that leverages the power of Artificial Intelligence (AI) in predicting near misses between vessels with the Maritime and Port Authority of Singapore (MPA) in 2018.

Also joint field trials with the Japan Coast Guard (JCG) to demonstrate the usefulness of the new technology have been conducted at the Tokyo Wan Vessel Traffic Service Center from 2019.

The safe navigation support solution contributes to "maritime traffic control" and "vessel navigation" by enabling the early recognition of vessels prone to risks and a speedy initial response in order to prevent collisions, while also contributing to improving maritime traffic safety by reducing excessive traffic control operations as well as human errors.

Feature 1: Advanced support for maritime traffic control and for vessel operators (early detection/phased alerts based on the situation)

Using AI to highly accurate predictions enable operators to recognize risks early and respond quickly to prevent vessel collisions. In addition, the safe navigation assists at acceptable levels, regardless of the experience and skill of the operation controllers.

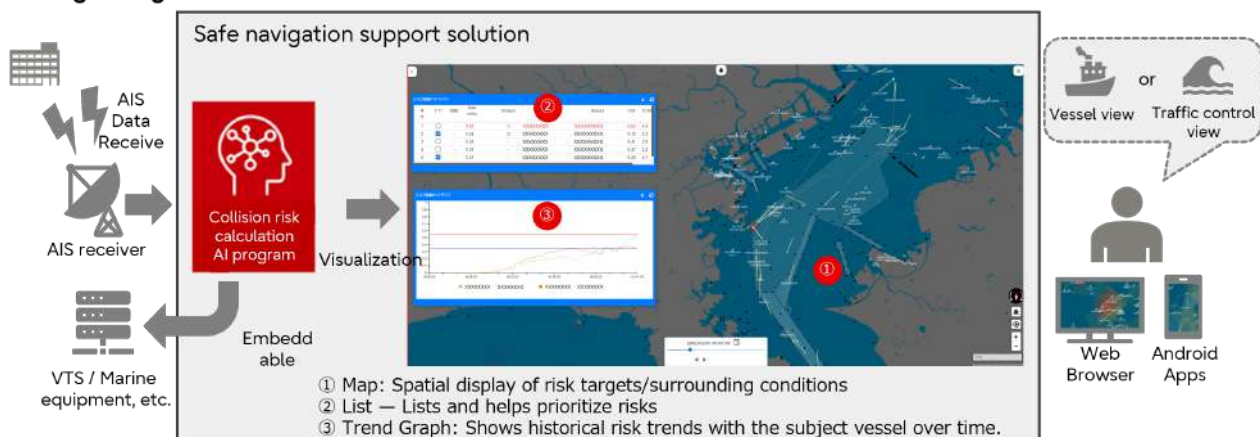
Feature 2: Support for comprehensive risk management through maritime traffic control and vessel federation

By providing the same level of information to both maritime traffic control and vessels, and sharing risk information digitally with each other, it is possible to achieve multifaceted (Maritime traffic control view + Vessel view).

Feature 3: Ability to incorporate AI programs into other products

AI programs for collision risk calculation can be embedded into VTS/marine equipment, etc. As a result, the function contributes to enhancement of VTS and marine equipment.

Usage image



Fujitsu Limited

105-7123 1-5-2 Higashishimbashi, Minato-ward, Tokyo
Shiodome City Center
Contact Information: fj-maritime-contact@dl.jp.fujitsu.com

Plain bearing product maker of foundation for 117 years.

Isoda Metal Co., Ltd., is a plain bearing specialist manufacturer with a history of more than 110 years since its establishment. With technical expertise and rich manufacturing know-how accumulated over many years of manufacturing experience, we can manufacture bearings to best suit customer needs.

This is only possible because we are a one-stop manufacturer with all processes under one roof from design through casting, processing, plating, and inspection to marketing.

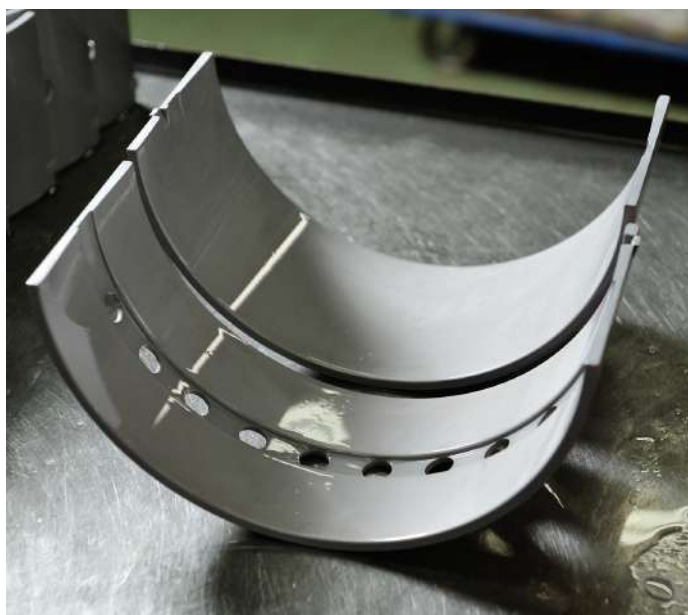


Advantages and applications of our products

A plain bearing is used to lubricate the rotating shaft in an engine and must be manufactured with high accuracy. A high-quality bearing minimizes damage inside the engine and reduces the risk of serious accidents. We provide bearings intended mainly for diesel engines for ships, power generators, etc., compressors, speed reducers, machine tools, and other devices.

Thin-walled plain bearings

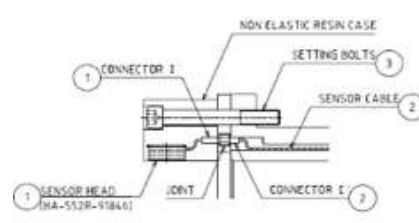
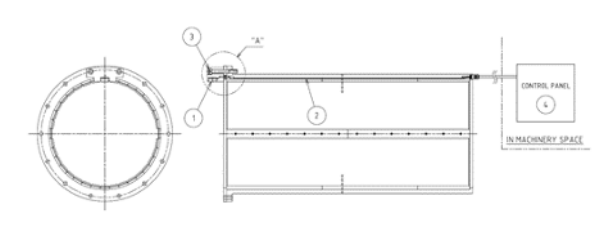
A thin metal workpiece will easily deform if processed directly and hence is always processed with it fitted on a dedicated jig. It can be distorted from the residual stress caused by the heat generated during the casting process. Therefore, it is heat-treated to reduce the effect of residual stress as much as possible. In addition, other techniques, such as deformation correction, are also required to manufacture thin-walled plain bearings.





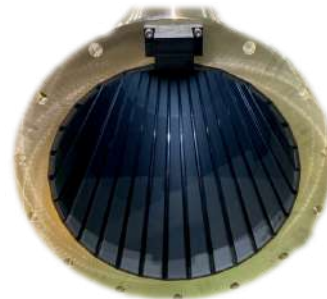
Tail-shaft Condition Monitoring System

Mikasa's wear-down sensor supports an extended shaft removal inspection period in water lubricated system(open loop). The clearance can be checked from the control panel without withdrawing the shaft. DNV T/A (TAA00002YW), 2022



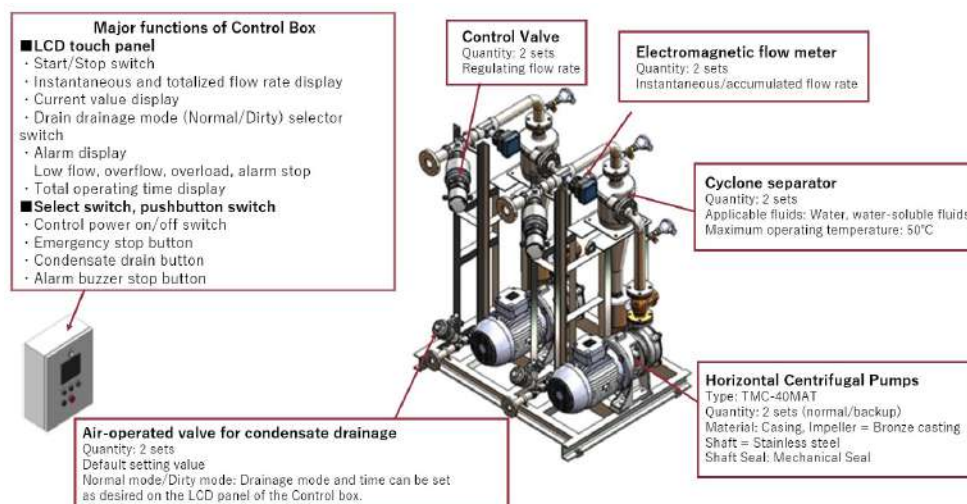
Features:

- Size of the sensor head: 115x56x125 mm
- Sensor cable: \varnothing 6x40M
- Allowable temperature: -2 °C +45 °C
- IP of the sensor head: 68 (2 bar)
- Attached by bolt-on to the after bearings, and replacing sensor heads easily.



Water Quality System

The WQS is a water supply system designed to reduce wear inside the bearing and shaft sleeves by separating and removing mud or foreign matter with cyclone separators. It monitors flow rate, electronic current, bearing temperature, and water pressure. It's a dual-pump system, and the backup pump will be activated if unusual conditions occur.



Mikasa Corporation

1, Kuchi, Asa-cho, Asakita-ku, Hiroshima 731-3362 JAPAN

TEL: +81-82-810-3930 FAX: +81-82-837-3947

URL: <https://mikasa-industry.com/en/> E-mail: sales.ship@mikasasports.co.jp






Onboard VRCS on your vessels NAKAKITA is by your side!!

We are a comprehensive manufacturer of valves and fluid controls that has been in business for more than 90 years. We have delivered many Valve Remote Control Systems for various merchant vessels. We will respond to your needs and solve any trivial worries, certainly!! Please contact with us.



Cargo/Ballast Remote Control Systems


Cargo/Ballast and Pneumatic Equipment

Hydraulic Power Source







Hydraulic Direction Change-over Valves








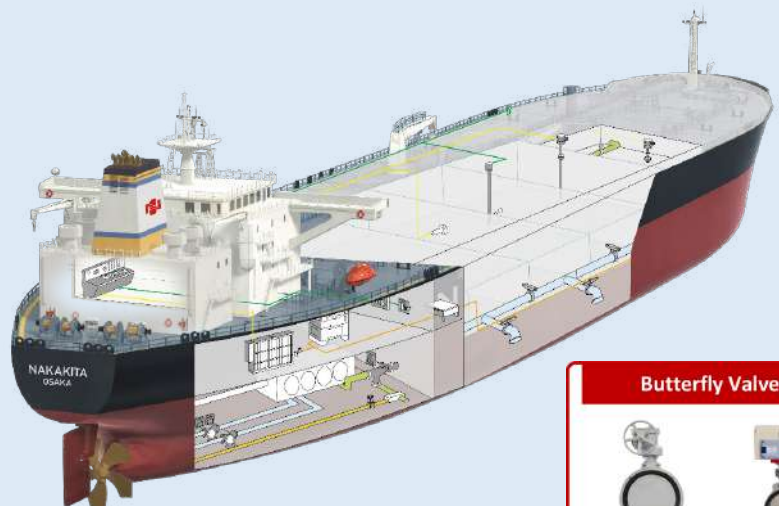


Control Console








Fluid Level Measurement Systems









Butterfly Valves

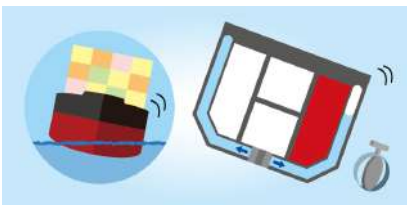



Automatic Control Equipment (engine rooms, pump rooms)

Auto Heel System (AHS)



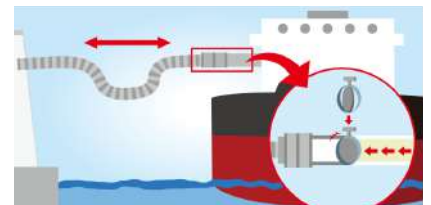
System to automatically adjust ship heel/trim angle during cargo loading and passenger boarding, etc.

Auto Loading System (ALS)



We manufacture custom made systems with good usability for ship owners and operators.

Emergency Shut Down System (ESDS)



The system is constructed around the requirement of sudden stop of operations.



NAKAKITA SEISAKUSHO CO., LTD.

1-1 Fukuonaminamicho, Daito, Osaka 574-8691, Japan

URL: <https://www.nakakita-s.co.jp/en/>

E-mail: bus@nakakita-s.co.jp



New Bilge Separator Model RK series "PURELIO"

As the first manufacture to supply Bilge Separator in Japanese Marine market, we are pleased to introduce our New Bilge Separator Model RK series "PURELIO".

New Bilge Separator Model RK series "PURELIO" are designed from user's point of view, and we are sure of its performance satisfying all of our customers.

Five models are available based on 5 different Capacity, together with maker's option accessories.

1. New Bilge Separator Model RK series "PURELIO"

2. Characteristics:

***Oil Content 5ppm!!**

***Compact Design!!**

***Easy Maintenance!!**

***Low Running Costs!!**

- Our model is applicable to 5ppm, which is lower than the latest IMO rules required: 15ppm.
15ppm MED/JG Type Approved under IMO MEPC.107(49)
5ppm DNV Type Approved under CLASS PROGRAMME DNVGL-CP-0208
- More Compact: Dimensions especially Height have been redesigned, allowing to keep enough space
- More Efficiency: Method of handling the Second Stage Coalescer had been improved for smooth maintenance.
- Easy to replace with our existing model SHT: Same position of Setting Bolts for installation, allows smooth replacement.

We are prepared for special offer under Sales Campaign, to introduce our new model in the market.

Awaiting for your contact to us.



Sasakura Engineering co.,ltd.

Head Office:7-32,Takejima 4-chome,Nishiyodogawa-ku,Osaka 555-0011,Japan
TEL:+81-6-6473-2134 FAX:+81-6-6473-5540

Tokyo Branch Office:17-25 Shinkawa,1-chome, Chuo-ku, Tokyo 104-0033,Japan
TEL:+81-3-5566-1212 FAX:+81-3-5566-1233
URL: <http://www.sasakura.co.jp/e/index.html>

Smart Sounding Scale
Honesty



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

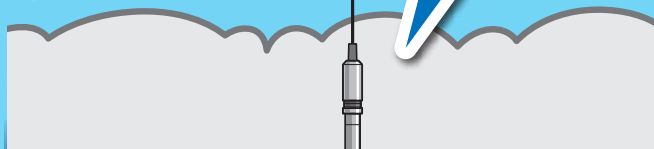
A lamp and buzzer are activated to indicate when the sensor reaches the liquid's surface.



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!





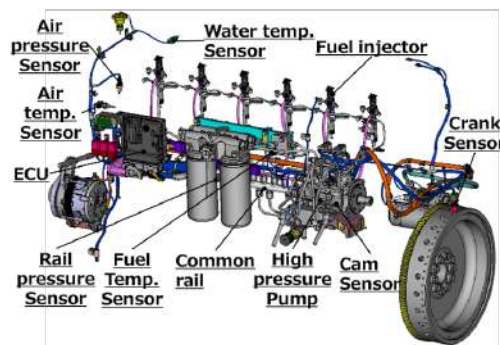
New marine propulsion engine 6GY135

1.Introduction

Yanmar has developed the new marine propulsion engine with common rail system "6GY135," which is the successor to the 6KXZ series of conventional diesel engines for commercial marine use.

The 6GY135 has been developed based on the concept of "maximizing life cycle value and minimizing environmental load" and is equipped with a common rail fuel injection system to achieve low emission, low fuel consumption and rich torque, while maintaining the high reliability that has been a strong point of previous models.

Model Name	-	6GY135	6KXZ
Cylinder Number	-	6	
Bore x Stroke	mm	135 x 170	
Displacement	L	14.6	
Max Output	kW	612 – 372	594
Engine speed	min ⁻¹	2150 - 1800	2150
Fuel Injection system	-	Common Rail	Mechanical
Emission Compliance	-	IMO Tier-2 EPA Tier-3 China Tier-2	IMO Tier-2



2.Engine features of 6GY135 series

2.1 Low Emission and Low fuel consumption

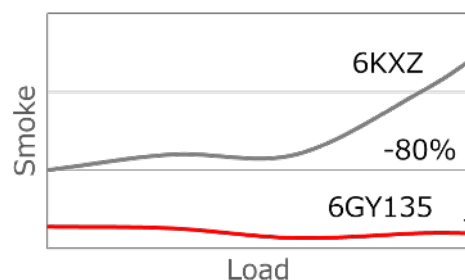
The engine is optimized the piston cavity shape by the combustion analysis to realize the best matching of high pressure fuel injection and air flow. We have achieved the high level of the clean exhaust gas and low fuel consumption which is generally incompatible with diesel engines by optimizing the internal EGR technology.

2.2 Optimized Torque curve

We researched the many operating patterns of real our customers by using the remote monitoring system which Yanmar calls "Smart Assist Remote" and decided the target of full torque line. Torque curve is raised up in high engine speed for the good persistence when loading, and in low-middle engine speed for rich towing power.

2.3 Emission Compliance

The 6GY135 will comply with not only the IMO Tier-2 regulations, but also the North American EPA Tier-3 regulations and the Chinese Tier-2 regulations.



YANMAR POWER TECHNOLOGY CO., LTD.

1-1-1, Nagasu Higashidori, Amagasaki, Hyogo, 660-8585, Japan
 TEL: +81-6-6489-8042 FAX: +81-6-6489-1082
 URL: <https://www.yanmar.com/global/marinecommercial/>

JSMEA Holds Ship Machinery, Equipment Seminar in Taiwan

The Japan Ship Machinery and Equipment Association (JSMEA) held a ship machinery and equipment seminar in Taipei, Taiwan on Feb. 20, 2023 with financial support from The Nippon Foundation. A total of some 250 people gathered at the event. JSMEA sent a delegation of about 80 members representing 27 affiliated companies to meet with approximately 160 local representatives engaged in maritime affairs, including ship owners. The delegation was led by JSMEA Chairman Kinoshita Shigeki; vice-chairmen Kinoshita Kazuhiko, Kuzu Tomoo and Oda Masato; and Overseas Market Development Working Group Head Urabe Reiji. It was the third such seminar that JSMEA had ever organized in Taiwan, which had as many attendees as the first and second seminars it arranged in 2016 and 2018, respectively, before the coronavirus pandemic began.

"We are very glad to reunite with those of you, Taiwanese ship owners and shipbuilders, for the first time in a while, all of which are important customers for us," JSMEA Chairman Kinoshita said in an opening address that he gave. "We would like to maintain and even enhance the great relations that we had developed for a long time."

"At a time when digitalization and decarbonization are being accelerated, the EEXI (Energy Efficiency Existing Ship Index) and CII (Carbon Intensity Indicator) regulations were newly introduced last month," Chairman W.K. Wu of the Committee of Taiwan Maritime Technician replied. "We are grateful [to JSMEA] for holding a seminar on such an occasion, as we can obtain information on the latest technologies and products in Japan."

At the request of local parties, participants were encouraged to directly negotiate business with each other. After the chairmen's opening messages, as such, attending JSMEA member companies held talks individually with potential customers across tables, while giving three-minute short presentations. "We had more opportunities to communicate with potential customers, meaning we had more time to have direct talks with them," one of the JSMEA members said.

After the seminar, JSMEA organized a reception to deepen interchanges with local attendees.



JSMEA Chairman Kinoshita Shigeki (seated, third from left) and Committee of Taiwan Maritime Technician Chairman W.K. Wu (seated, center) at a VIP meeting convened before the seminar

About JSMEA Ship Machinery and Equipment Seminar in Taiwan

Date: Monday, Feb. 20, 2023—seminar: 14:00-17:00 and reception: 17:00-18:30

Venue: Ballroom, 3rd floor, Regent Taipei (address: No. 3, Lane 39, Section 2, Zhongshan N. Road, Zhongshan District, Taipei, Taiwan 104)

Event partner: Committee of Taiwan Maritime Technician

Event program: <https://www.jsmea.or.jp/en/seminar/2023/taiwan/>

Number of attending JSMEA members: 27—BEMAC Corp.; Chugoku Marine Paints, Ltd.; Daihatsu Diesel Mfg. Co., Ltd.; Fuji Electric Co., Ltd.; The Hanshin Diesel Works, Ltd.; IHI Power Systems Co., Ltd.; Iknow Machinery Co., Ltd.; Japan Engine Corp.; Japan Radio Co., Ltd.; Kamome Propeller Co., Ltd.; Kanagawa Kiki Kogyo Co., Ltd.; Manabe Zoki Co., Ltd.; Mikasa Corp.; Mitsubishi Heavy Industries Marine Machinery and Equipment Co., Ltd.; Miura Co., Ltd.; Murayama Denki Ltd.; Nabtesco Corp.; Nagasaki Sempaku Sobi Co., Ltd.; Nakakita Seisakusho Co., Ltd.; Nakashima Propeller Co., Ltd.; Sasakura Engineering Co., Ltd.; Semco Ltd.; Taiko Kikai Industries Co., Ltd.; Taiyo Electric Co., Ltd.; Tobu Jukogyo Co., Ltd.; Ushio Reinetsu Co., Ltd.; and Yanmar Power Technology Co., Ltd.



JSMEA Chairman Kinoshita Shigeki gives an opening address at the seminar.



Committee of Taiwan Maritime Technician Chairman W.K. Wu also speaks at the beginning of the seminar.



JSMEA members deliver short presentations.



Business negotiations are held at the seminar venue.



Tables are prepared for negotiations.



Negotiations are held across tables.



JSMEA Vice-Chairman Kinoshita Kazuhiko kicks off the networking reception.



JSMEA Vice-Chairman Kuzu Tomoo proposes a toast.



JSMEA Vice-Chairman Oda Masato gives the closing message at the seminar.



JSMEA Overseas Market Development Working Group Head Urabe Reijiro makes the closing remarks at the networking reception.



The networking reception is held amicably.

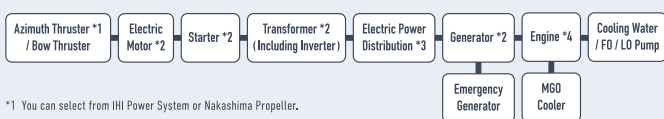
JAPAN PACKAGE FOR MULTI PURPOSE SUPPLY VESSEL

The OSV developed by technology and experience of the Japanese Ship Machinery and Equipment industries

Outstanding Features of the OSV

- Optimized for the operation at higher temperature, humidity and moderate sea states in shallow water, as opposed to the North Sea environment, as well as achieved affordable price by increasing cost effectiveness
- Higher reliable and save-energy Japanese equipment to be fully applied
- Eight packages are system-integrated, which simplify shipbuilding process including engineering and ensure higher performance of the OSV.
- Global service stations established by Japanese Manufacturers can be used at emergency conditions as well as regular maintenance.
- ABS has reviewed the General Arrangement and Midship Section of this project "JAPAN PACKAGE FOR MULTI PURPOSE SUPPLY VESSEL" and granted "Approval in Principle (AIP)" to the concept of the design for the reviewed items under this project.

Propulsion / Power System Package



*1 You can select from IHI Power System or Nakashima Propeller.

*2 You can select from Nishishiba Electric or Taiyo Electric.

*3 You can select from BEMAC or Taiyo Electric.

*4 You can select from Daihatsu Diesel Mfg, IHI Power Systems or Yanmar Power Technology.



DPS / Navigation package



*5 Propulsion refer to "Propulsion / Power System package".



Mooring Package



Accommodation Package

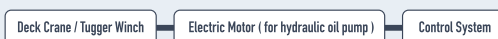


Cargo Handling Package

1. Liquid Cargo part



2. General Cargo part



Firefighting Package

1. External Firefighting System part



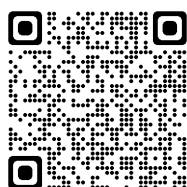
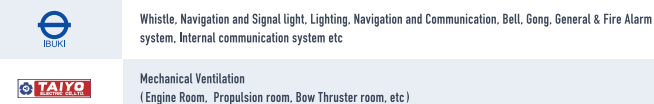
*6 You can select from Daihatsu Diesel Mfg, IHI Power Systems or Yanmar Power Technology.



2. Firefighting System for the Vessel



Others



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