SUMMERS 2023/No.126

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Jsmea News

Japan Ship Machinery and Equipment Association

JSMEA Attends Sea Asia 2023

The Japan Ship Machinery and Equipment Association (JSMEA) made its presence at Sea Asia 2023, which was held on April 25-27, 2023 at Marina Bay Sands in Singapore. With financial support from The Nippon Foundation, JSMEA teamed up with The Cooperative Association of Japan Shipbuilders (CAJS) and Nippon Kaiji Kyokai (ClassNK) to host the Japan Pavilion.

Sea Asia 2023 welcomed some 400 local and overseas exhibitors and an estimated 15,000 visitors, according to the organizer, to national pavilions set up by Japan and 11 other economies.

The day before the opening of Sea Asia 2023, JSMEA Chairman Kinoshita Shigeki and Vice-Chairman Kuzu Tomoo visited the Singapore Shipping Association (SSA), at which time the two organizations exchanged information on their respective efforts to tackle decarbonization while confirming their commitment to continue to work together.

On the opening day of Sea Asia 2023, Mr. Baey Yam Ken, senior parliamentary secretary from the Ministry of Transport of Singapore, stopped by the Japan Pavilion as part of a VIP entourage, and was greeted by Mr. Kinoshita for a personal tour. The Japan Pavilion was steadily filled with visitors after a three-year absence—since 2019—because JSMEA had decided not to attend Sea Asia in 2020, 2021 or 2022 due to the coronavirus pandemic.

At Sea Asia 2023, there were many exhibitions of decarbonization- and digitalization-related products. Many from the JSMEA delegation agreed on the great opportunities the exhibitions gave them to garner information on actions of other countries and regions and to meet with many anticipated number of visitors. The delegates added that Singapore will continue to be an important market.

JSMEA visits the SSA.

SSA President Caroline Yang (standing, fourth from right)
JSMEA Chairman Kinoshita Shigeki (standing, fourth from left) and JSMEA Vice-Chairman Kuzu Tomoo (standing, third from left),

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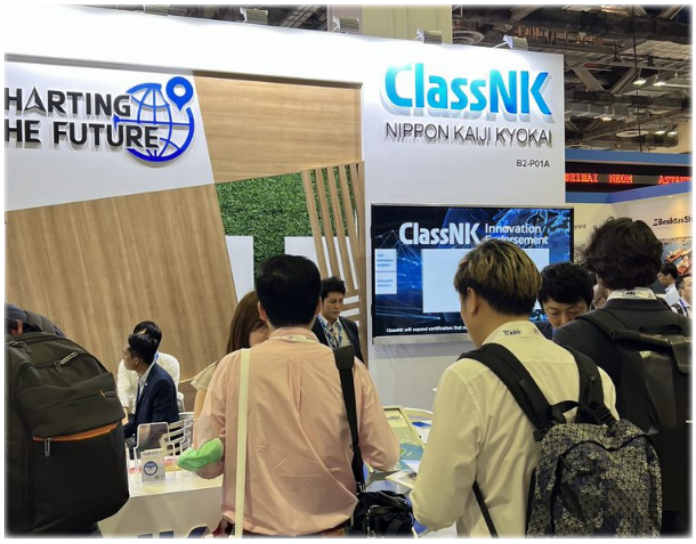


JSMEA Chairman Kinoshita Shigeki (left) and Senior Parliamentary Secretary Baey Yam Ken from the Ministry of Transport of Singapore (right)

About Sea Asia 2023

1) Date: April 25-27, 2023
2) Venue: Sands Expo and Convention Centre

About the Japan Pavilion

1) Total area of exhibitions: 216 square meters (booth Nos. B2-Q01 and B2-P01)
2) Number of exhibitors: 22 companies and organizations
3) Exhibitors: 15 JSMEA members (Akasaka Diesels Ltd.; Daihatsu Diesel Mfg. Co., Ltd.; Fuji Electric Co., Ltd.; Fujikura Composites Inc.; The Hanshin Diesel Works, Ltd.; Japan Weather Association; MOL Techno-Trade, Ltd.; Nakashima Propeller Co., Ltd.; Naniwa Pump Mfg. Co., Ltd.; Nitto Chemical Industry Co., Ltd.; Semco Ltd.; Taiko Kikai Industries Co., Ltd.; Tobu Jukogyo Co., Ltd.; Ushio Reinetsu Co., Ltd.; and Yanmar Power Technology Co., Ltd.), six CAJS members (Higaki Shipbuilding Co., Ltd.; Kanagawa Dockyard Co., Ltd.; Kitanihon Shipbuilding Co., Ltd.; Kumamoto Dock Co., Ltd.; Kyokuyo Shipyard Corp.; and Miura Shipbuilding Co., Ltd.) and Nippon Kaiji Kyokai (ClassNK)
Countries hosting national pavilion: Belgium, China, Denmark, France, Greece, Japan, the Netherlands, Norway, Panama, Singapore, South Korea and the United Kingdom

JSMEA Participates in OTC 2023

The Japan Ship Machinery and Equipment Association (JSMEA) participated in Offshore Technology Conference (OTC) 2023 with financial support from The Nippon Foundation. At conferences and exhibitions held in Houston, Texas on May 1-4, JSMEA was joined by 11 members and non-affiliated businesses in the offshore energy resource development sector.

OTC is one of the largest exhibitions in the world for offshore natural energy resource development. It was JSMEA's 10th time attending the conference since first visiting the event in 2013. But it was also the first time for JSMEA to officially open a Japan Pavilion there thanks to OTC organizer, who had highly rated the achievements and contributions made by the ship machinery and equipment association.

OTC 2023 welcomed more than 31,000 visitors, according to the organizer, which was nearly 25 percent more than the approximate 24,000 visitors who attended OTC 2022. The growth in the number of visitors indicated that there was more attention to recoveries in major oil companies' business performances, the development of new energies to achieve decarbonization and so on.

The many exhibitions at OTC 2023 focused not only on oil and gas development, but also on the efforts by governments to developing and using new energies for decarbonization, carbon capture and storage (CCS), wind power generation and relevant support vessels and others.

At an Offshore Wind Lounge at the center of the conference venue, presentations throughout the event highlighted the use of wind power and energy transformation.

The Japan Pavilion, which housed the booths of members from a cooperative technology development project between The Nippon Foundation and DeepStar(*1), was also attended by many throughout the event, and brought a plethora of inquiries and a number of business negotiations, while successfully showcasing Japanese ship machinery and equipment as well as technologies.

DeepStar is an offshore technology development consortium of companies that explore, develop and produce offshore oil and natural gas around the globe—including Chevron Corp. of the United States, Shell plc. of the United Kingdom and Equinor ASA of Norway—as well as enterprises, academia, research institutes and others that provide products and services to these upstream oil companies.

On May 2, or Day 2 of OTC 2023, JSMEA organized a Japan Pavilion Networking Reception at Minute Maid Park. The reception, which had always been held at OTC in pre-pandemic years, was given for the first time in four years. It was attended by about 170 VIPs, such as executives from DeepStar-affiliated oil and engineering companies, who passionately exchanged information with Japanese businesses.

On May 4, or the final day of OTC 2023, Japan Pavilion members discussed how they will exhibit and promote products at OTC 2024.

Following the event, on May 5, Japan Pavilion members took part in DeepStar Technology Symposium 2023 for information exchange, which The Nippon Foundation subsidizes for technological development.

About OTC 2023

Dates: Monday, May 1-Thursday, May 4, 2023
Venue: NRG Park

About Japan Pavilion

Booths: 539 and 555
Total area: 135 square meters
Exhibitors: Daido Steel Co., Ltd.; Daihatsu Diesel Mfg. Co., Ltd.; Fuji Trading Co., Ltd.; Hakusan Corp.; Hibot Corp.; Japan Ship Machinery and Equipment Association; JFE Steel Corp.; Mitsui O.S.K. Lines, Ltd.; Nippon Kaiji Kyokai; Nippon Steel Corp.; Omega Simulation Co., Ltd.

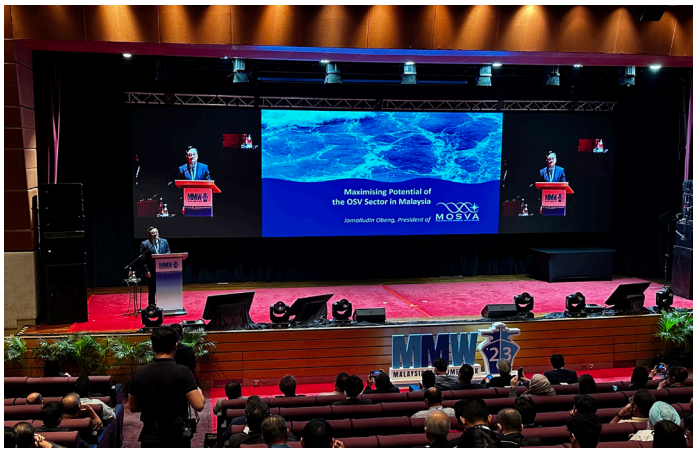
About Japan Pavilion Networking Reception

Time and date: 18:30 on Tuesday, May 23, 2023
Venue: Jackie Robinson 42 Club, Minute Maid Park

JSMEA Holds Ship Machinery Equipment Seminar in Malaysia

The Japan Ship Machinery and Equipment Association (JSMEA) organized a seminar at the Malaysia Maritime Week 2023 (MMW23) on June 20-23 in Kuala Lumpur, Malaysia, with financial assistance from The Nippon Foundation.

JSMEA gets down to business at the Japan Pavilion.



On behalf of JSMEA, 12 member companies attended the event, led by Vice-Chairman Kuzu Tomoo, and together hosted the Japan Pavilion at the venue. The seminar—held on Day 2, attracting 200 attendees—received support from the Malaysia Shipowners' Association (MASA), which joined hands with Petroliam Nasional Bhd. (PETRONAS) and the Malaysia OSV Owners' Association (MOSVA).

In Malaysia, there are many offshore support vessels (OSVs) operating that are about 15 years old. Because of this, PETRONAS, a local global energy group, anticipates that it will suffer a shortage of ships in the near future for its planned offshore energy development activities. There are, as such, ongoing projects in Malaysia to construct OSVs, under the Safina Projects, in which Phase 2 will be launched soon.

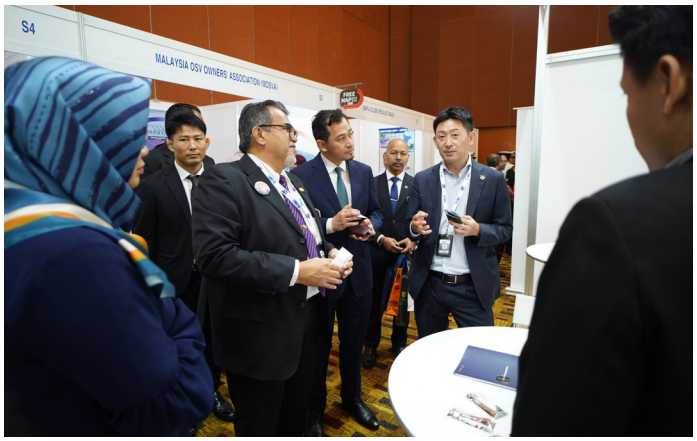
PETRONAS Senior General Manager for Production and Operations Management Handan Ramli delivers an informative presentation.

The seminar gets rolling with an opening speech by JSMEA Vice-Chairman Kuzu Tomoo.

To help Japanese manufacturers break into the Malaysian OSV market, JSMEA organized the seminar, focusing on machinery and equipment for OSVs as well as eco-friendly products. Ten member companies delivered presentations, while PETRONAS and MOSVA introduced their efforts to reduce greenhouse gas (GHG) emissions and future fleet expansion plans. They also provided the latest information on the local OSV market.

It was the first time for JSMEA to organize a seminar on OSVs with support from The Nippon Foundation.

The highly informative seminar welcomes many enthralled attendees.



Deputy Minister of Transport Yang Berbahagia Datuk Haji Hasbi bin Habibollah visits the Japan Pavilion.

After the presentations, a ceremony was held to sign a memorandum of understanding (MoU) on the Safina Projects by MOSVA and the Association of Marine Industries of Malaysia (AMIM).

Many of the attending JSMEA members said potential customers had approached them at their booth after the seminar. Others said they had enjoyed many opportunities to directly exchange views with executives from PETRONAS and MOSVA as well as those who they normally do not have chances to meet.

JSMEA members meet with potential customers at MMW23.

MASA Chairman Mohamed Safwan Othman delivers the seminar's inspiring closing address.

In 2019, JSMEA concluded an MoU with MASA, the organizer of the MMW23. It will continue to encourage member companies to tap into the Malaysian OSV market, while exchanging information, promoting membership interchanges and enhancing relations with the Malaysian ship owners' association.

About MMW23

Time and date: 9:00-17:00, Tuesday-Thursday, June 20-22, 2023
Venue: Halls 2 and 3, Level 3, Kuala Lumpur Convention Centre
Japan booth location: C3
Attending JSMEA members: BEMAC Corp.; Chugoku Marine Paints, Ltd.; Daihatsu Diesel Mfg. Co., Ltd.; Kamome Propeller Co., Ltd.; Kawasaki Heavy Industries, Ltd.; Mitsubishi Heavy Industries Engine Systems Asia Pte. Ltd.; Miura Co., Ltd.; Nagasaki Sempaku Sobi Co., Ltd.; Nakashima Propeller Co., Ltd.; Taiyo Electric Co., Ltd.; Tokyo Keiki Inc.; and Yanmar Power Technology Co., Ltd.

About the ship machinery and equipment seminar

Time and date: 14:00-16:20, Wednesday, June 21, 2023
Venue: Plenary Theater, Level 3, Kuala Lumpur Convention Centre

Japanese projects are introduced at the seminar.

Wind Sensor Auto Selector

Automatically selects the best wind from the two installed sensors at different positions on vessel.

SS10

Wind Sensor Auto Selector
Product details may differ from the pictured prototype

Auto select from two (manual selection available)

Compact design
Easy installation

LED indicators visible in darkness (dimmer available)

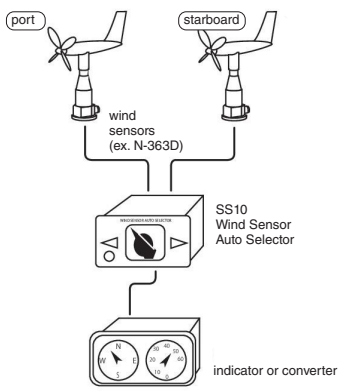
Also for switching to spare sensor

Compatible with ANEOS sensors

Features

- Automatically selects the best wind from two installed sensors on each of the starboard and port sides of the mast, even if turbulence interferes correct wind measurements due to the hull structure on such as car carriers, LNG ships, container ships, etc.
- Manual selection of the starboard or port side wind sensors is possible.
- Also for switching to spare backup wind sensor
- The compact design makes it possible console installation
- Compatible with ANEOS wind sensors

System



Specifications

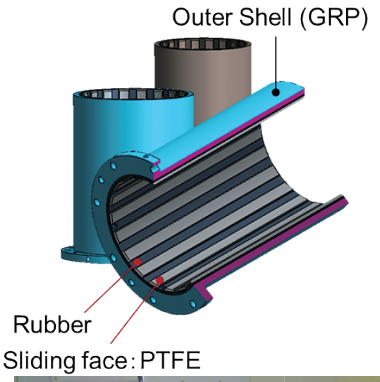
Model: SS10
Input: two channels ANEOS wind speed and wind direction sensors
Switching: auto or manual
Indication: selected sensor is identified by LED lamp (dimmer available)
Output: one channel ANEOS wind speed and wind direction sensor signal, selecting channel signal(non-voltage dry contact)
Power: DC 12 V(supplied by indicator or converter)
External dimensions: W150 H100 D111mm

ANEOS Corporation
Tokyo Head Office: 1-5-12, Chuou-cho, Meguro-Ku, Tokyo 152-0001 Japan
TEL: +81-3-5268-8251 FAX: +81-3-5768-8261
URL: https//www.aneos.co.jp E-MAIL: marine-sales@aneos.co.jp

EVP - PTFE Bearing for Water Lubricated Stern Tube System

We offer rubber bearing (EVR) for water lubricated stern tube system and have rich track records.

EVP is a low friction and low wear bearing developed based on the technology of EVR experience, and used PTFE (Poly-Tetra Fluoro-Ethylene) as the sliding face.



Structures

The bearing has 3-layer structure, PTFE, rubber and outer shell.

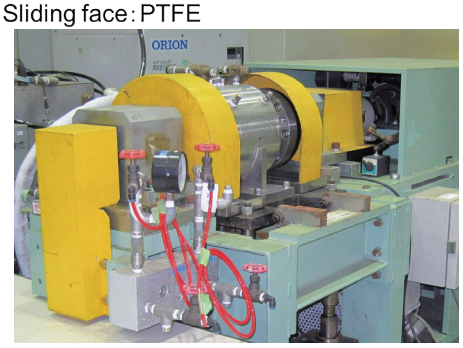
The sliding face is made of PTFE which has excellent self-lubricity and excellent heat resistance, the outer shell is made of reinforce plastic with glass cloth (=GRP), the rubber which has excellent flexibility is applied between outer shell and PTFE.

GRP of outer shell and rubber are same materials as EVR.

Features

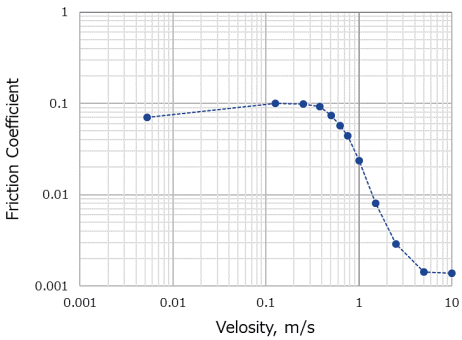
1. Low Friction Material

1) PTFE used for sliding face is well known as a low friction material, and even in our bench test, it indicated very low friction coefficient of about 0.001.(Test Condition: Shaft Diameter=100mm, Shape=Plane, Bearing Pressure=2MPa)
2) Since PTFE has self-lubricity and low static friction, reducing the load at startup.
3) Since lower friction coefficient than rubber bearings, which reduces fuel consumption.



Test Equipment of 100mm shaft Dia.

Result of Bench Test



2. Bearing Pressure Resistance

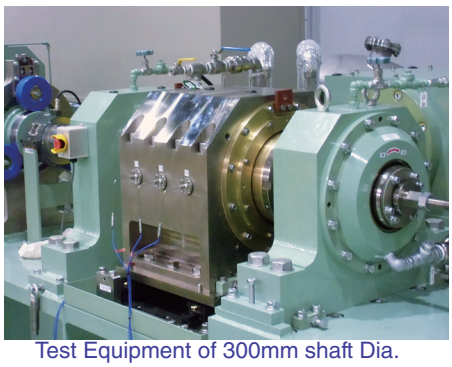
The allowable nominal bearing pressure is 0.6MPa, which is more than twice that of rubber bearings.(obtained class approval)

3. Wear Resistance

1) Lifetime is more than twice that of rubber bearings.
2) Sleeve wear is reduced because it is less aggressive to the mating material than rubber bearings. (Reduced to less than 1/3 of rubber bearings)

4. Easy Handling

1) The handling is much easier at light weight compared with handling the metal material, because reinforced plastic is used for the outer shell. (about 1/4 weight of the copper outer shell)
2) In the same way as our rubber bearing “EVR”, it will fit closely with stern tube by outer shell material expansion from water absorption. Therefore, there is no need to press fit to the Stern Tube and it can be inserted into the stern tube by clearance fit.


Test Equipment of 300mm shaft Dia.

EAGLE INDUSTRY CO.,LTD.
2-4-1, SHIBAKOEN, MINATO-KU, TOKYO, 105-0011, JAPAN
TEL: +81-3-3436-4830 FAX: +81-3-3436-4890
URL: http://www.kemel.com E-MAIL: sales.tokyo@kemel.com

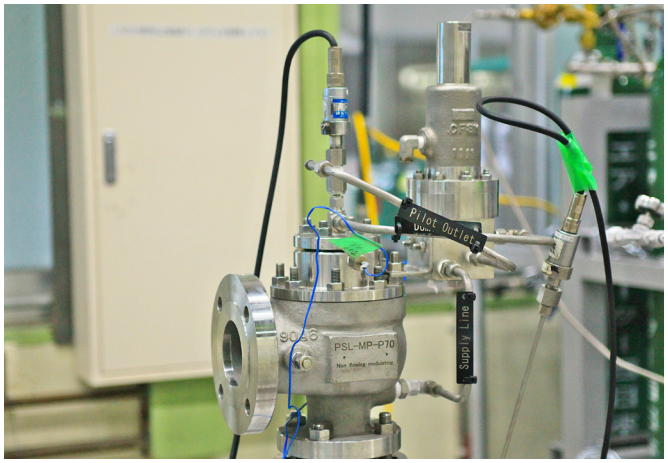
FUKUI LCO2 Carrier Pilot Operated Safety Valves/ Model PSL-MP-P70

CCS is expected to be an effective means of mitigating the increase in atmospheric CO2 concentrations, and full-scale infrastructure development and enhancement of it is expected in the future.

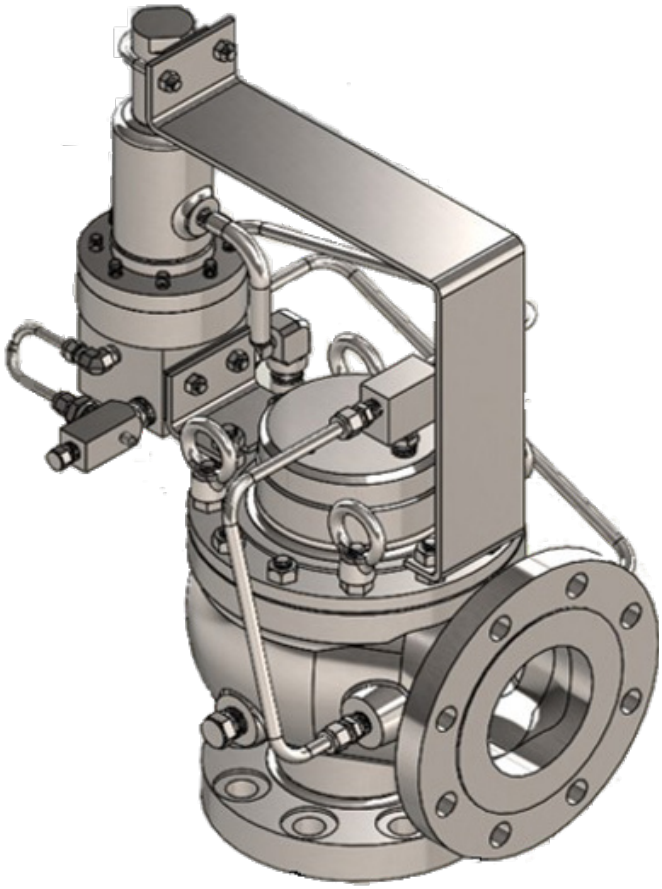
LCO2 carrier play the important role of the efficient transportation from the emission area to CCS site, and FUKUI PSL-MP-P70 model supports the safety operation.

FUKUI PSL-MP-P70 features a non-flowing pilot valve actuation system to prevent the generation of dry ice due to the sudden temperature decrease by the adiabatic expansion in the safety valve.

Project Reference:
NORTHERN LIGHT PROJECT / Tank Capacity 7500m3 x 2 Ships
JCCS LC2 Transportation Demonstration Project / Tank Capacity 1450m3



MODEL PSL-MP-P70



Operation Test with CO2

FUKUI SEISAKUSHO CO., LTD.
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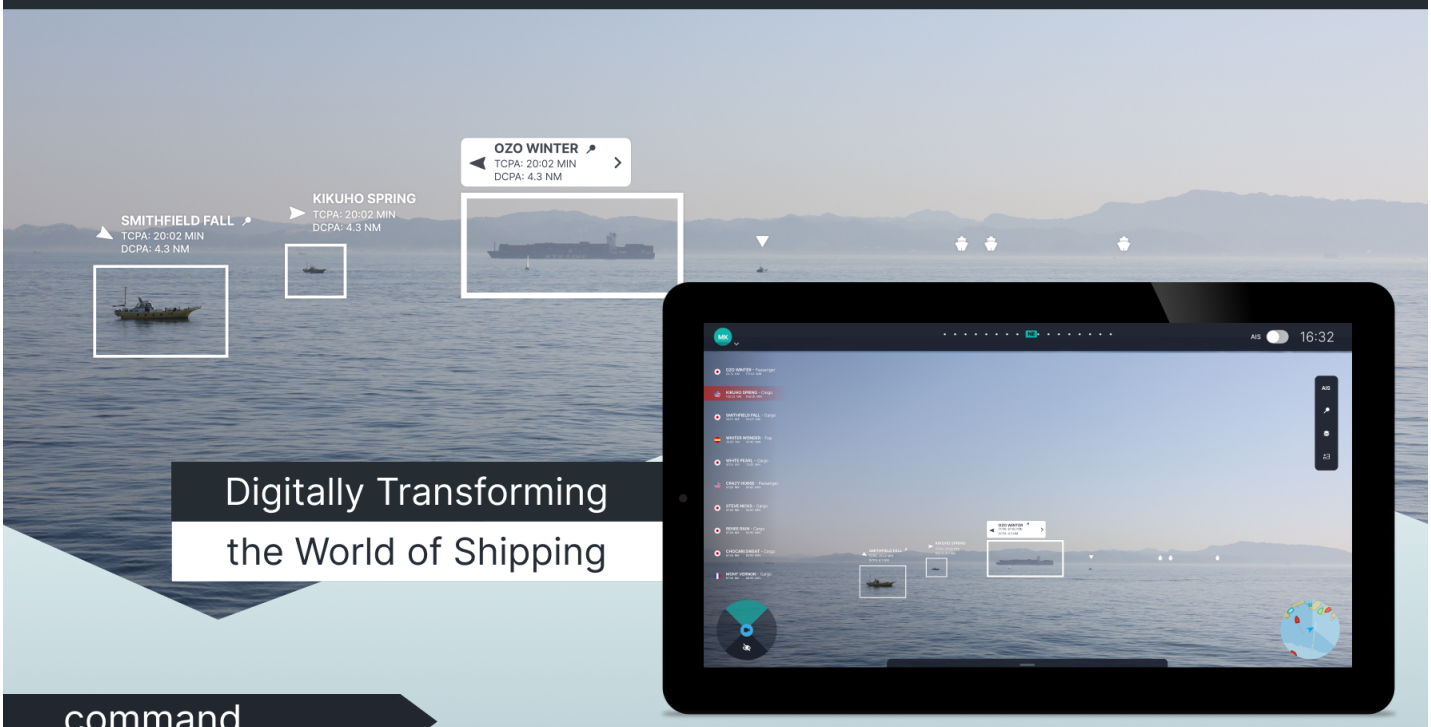

Digitally Transforming the World of Shipping

command

Safe operations on the sea via situational awareness using AI

Command provides collision avoidance and safe navigation for seafarers through computer vision and AI. It can detect various objects any time of the day and in all types of weather, including ships with and without AIS, buoys and people. Command also provides official ENC charts and map annotations for safer navigation.

connect

IoT and data analytics solution to maximize ship performance

Onshore supervisors can monitor their fleets status in real time, including engine conditions, fuel consumption and GHG emissions.

Supervisors can view crew interactions with the alarm monitoring system and other onboard equipment, so they can always stay up to date with their vessel's status.

assist

A maintenance solution that centrally manages trouble reports, equipment, and more

Assist supports busy engineers by improved methods of troubleshooting and trouble reports. Engineers can manage current issues or prevent new ones by seamless information sharing and advanced search and storage features. With assist, maintenance history and other notes are easily accessible.

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JRCS

All Electric Grab Dredge Crane & Hybrid Marine Cranes For Dredging, Lifting, Piling, and Rock Breaking works

Overview

SKK Corporation has been manufacturing marine cranes for over 60 years in Japan. The basic design of SKK cranes is using an engine and an omega drive (transmission), and the capacity is from **5 to 32M3 dredging**, and/or **up to 700 ton lifting**.

We also developed hybrid system for all electric dredge crane and basic engine type dredge crane.

All Electric Grab Dredge Crane: The Largest Line Pull Capacity 160Ton

All Electric Grab Dredge crane without an engine, GE Series, driven by the electric power to be supplied from the vessel.

It is able to stock energy to capacitors by grab lowering, and reuse the energy for hoisting. This hybrid system leads to reduce fuel consumption, Exhaust Gas, CO2, Vibration, and Noise.

GE Series (All Electric Crane with Hybrid System)

Attachment Options

- Flat dredging control system
- Rock breaking controlled by disk brake
- Automatic grab opening brake
- Dredging engineering control(GPS) system, and more.

Other Cranes

All SKK cranes are custom-made.

We can combine 2 uses in ONE crane. (ex. add lifting hooks to dredge crane or add piling leader to lifting crane)

Please visit our website below or contact us for any questions.

SKK Corporation
1-3 YOKOHAMA-NISHIMACHI, KOCHI-CITY, KOCHI, JAPAN 781-0242
TEL: +81-88-842-6262 FAX: +81-88-842-4023
URL: http://www.skk-crane.co.jp/en E-mail: sales@skk-crane.co.jp

BILGE DISCHARGE MONITOR BDM-FT1000

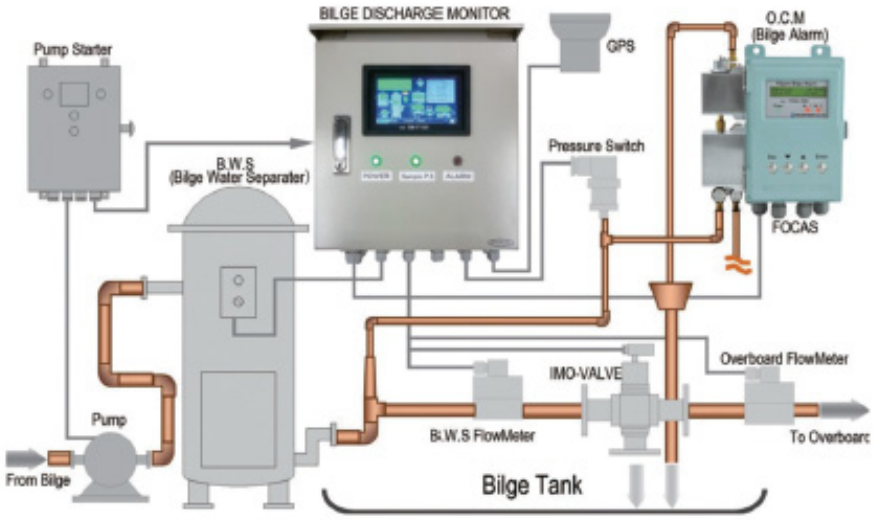
Environmental pollution has gone on a global scale, reinforcement of environmental conservation, the monitoring with severer standard was expected worldwide.

Our new "BILGE DISCHARGE MONITOR" can record various data & change, such as condition of pump, bilge water separator, ship location, oil contents, automatic stopping device (3-way valve), discharge rate.

Our visualized monitor is tamper proof in accordance with MARPOL regulations, and is able to reinforce in monitoring, such as, record management of proper operation, and preventing unauthorized discharge. (From oil major requirement)

Feature

- Various operating condition can be visually checked on LCD screen (pump operation, separator operation, ship location, oil contents, auto-discharge valve (3-way valve), discharge rate).
- Simple operation on the LCD screen for touch panel.
- GPS, bilge monitor, 3-way valve, and flow meters are linked & monitored. This works as a tamper proof.
- Easy to prove the proper operation to PSC inspectors.
- Reliable design. In case of emergency, possible to change to emergency mode and conduct a conventional operation acc. to I.M.O. requirement.
- Record electric data about bilge discharge monitoring.
- The system data can be used as a supplement against human error, typo-error or injustice in the oil record book.
- Saved data is stored at internal memory and can be checked any time.
- Internal memory can save for three years.*
- Past operating record can be shown as a chart, easy to check performance.



TAIKO KIKAI INDUSTRIES CO., LTD.

1209-1 Shimotabuse, Tabuse-cho, Kumage-gun, Yamaguchi Pref. 742-1598 Japan
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TOKYO KEIKI

Designed by TOKYO KEIKI,
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TF-900
for details

**TOKYO KEIKI offers Fiber Optic Gyrocompass (TF series) and Mechanical Gyrocompass (TG series) .
Own design and manufacturing offers a wide range of flexibility.**

<Options>

● Universal Display
UD series offers high visible and reliable operation.

● Digital Course Recorder
CR-100 series offers low running cost (no consumable parts).

● Analog type Repeater
RP series keeps the same look even if utilizing Analog or Serial type signals.

TOKYO KEIKI

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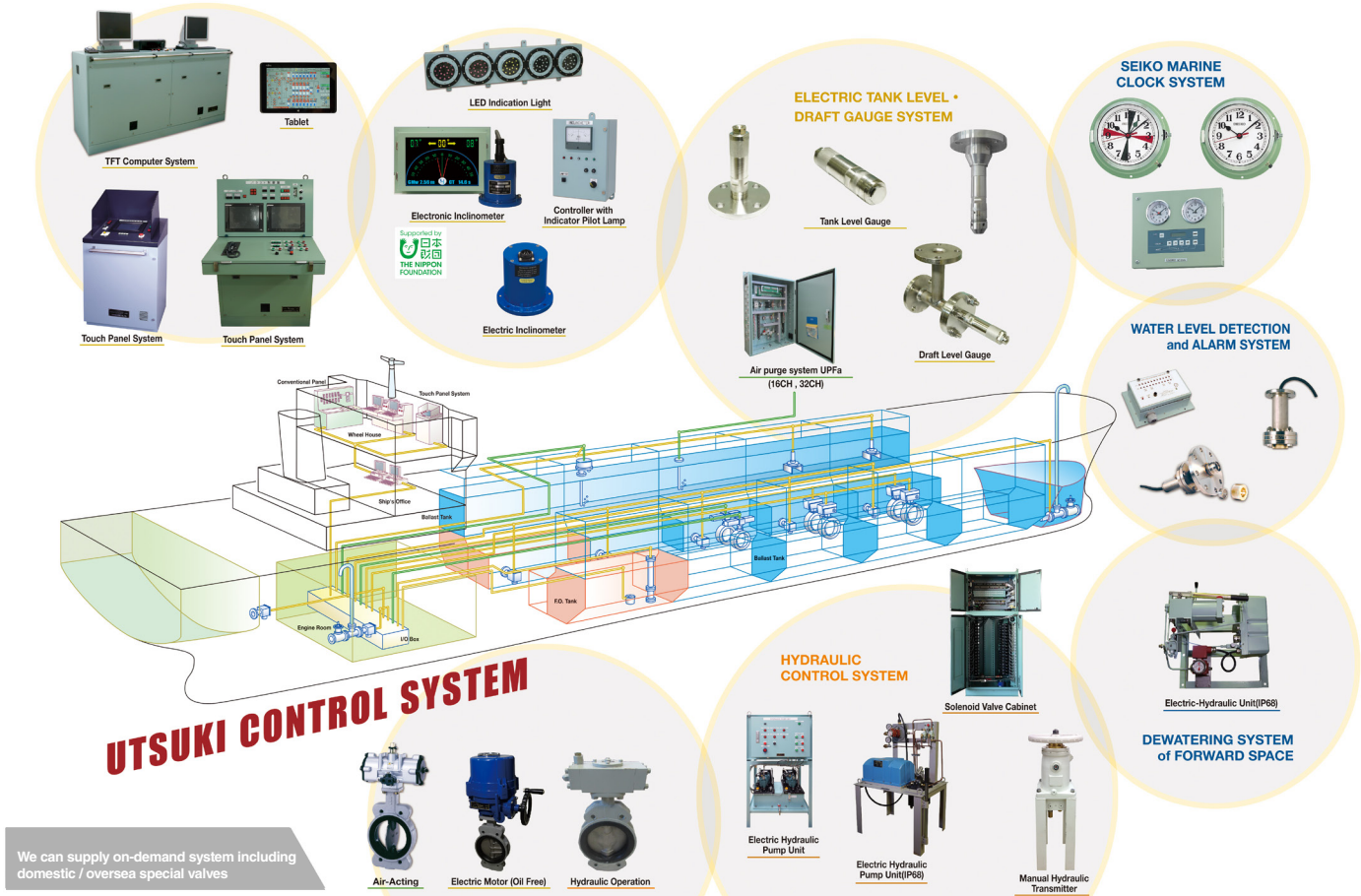
UTSUKI

Product

BALLAST CONTROL SYSTEM and others

- Touch panel, TFT computer, Tablet, Auto trim-heel control etc.
- Draft/Level Gauge (Pressure type, Air Purge type)
- Control Valves (Electric, Hydraulic, Pneumatic)
- Electric Inclinometer, Electronic Inclinometer
  (Compliant with IMO resolution MSC.363(92) and International Standard ISO 19697)
- Marine Clock System



(After-sales service)
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JSMEA Attends Nor-Shipping 2023

The Japan Ship Machinery and Equipment Association (JSMEA) traveled to Norway for Nor-Shipping 2023 with financial support from The Nippon Foundation. It joined hands with the Japan Ship Exporters' Association (JSEA) and Nippon Kaiji Kyokai (ClassNK) to set up the Japan Pavilion at the exhibition, which was held in Lillestrom near Oslo on June 6-9, 2023. On behalf of JSMEA, Chairman Kinoshita Shigeki; Vice-Chairman Kuzu Tomoo, who leads the association's Global Strategic Plan Review Board; and Vice-Chairman Oda Masato, head of its Overseas Market Development Committee; led a delegation of 10 member companies.

Nor-Shipping, held for the 29th time, has established itself as one of the world's leading maritime exhibitions to attract ship owners from Norway and other European nations. Nor-Shipping 2023 accommodated 892 exhibitors and welcomed some 30,000 visitors, according to its organizer. Including those participating in networking events and conferences, there were approximately 50,000 attendees, the organizer said.

On Day 1, the Japan Pavilion opened with a ribbon-cutting ceremony conducted by JSMEA Chairman Kinoshita, JSEA Chairman Miyanaga Shunichi and ClassNK President and CEO Sakashita Hiroaki, and joined by Japanese Ambassador to Norway Kawamura Hiroshi.

On Day 2, JSMEA in partnership with the JSEA held a Japan Seminar, at which presentations on decarbonization, digitalization and other current topics, and attracted some 100 people.

At Nor-Shipping 2023, European enterprises and other exhibitors showcased products and technologies for decarbonization and gave presentations on relevant subjects, providing JSMEA a chance to garner information on such efforts being made in other countries.

Nor-Shipping has announced that it will meet next time on June 2-6, 2025. JSMEA will hear feedback and opinions from its delegation members and consider how best to prepare for Nor-Shipping 2025 and discuss other subjects at meetings of its International Exhibition Working Group and Global Strategic Plan Review Board.

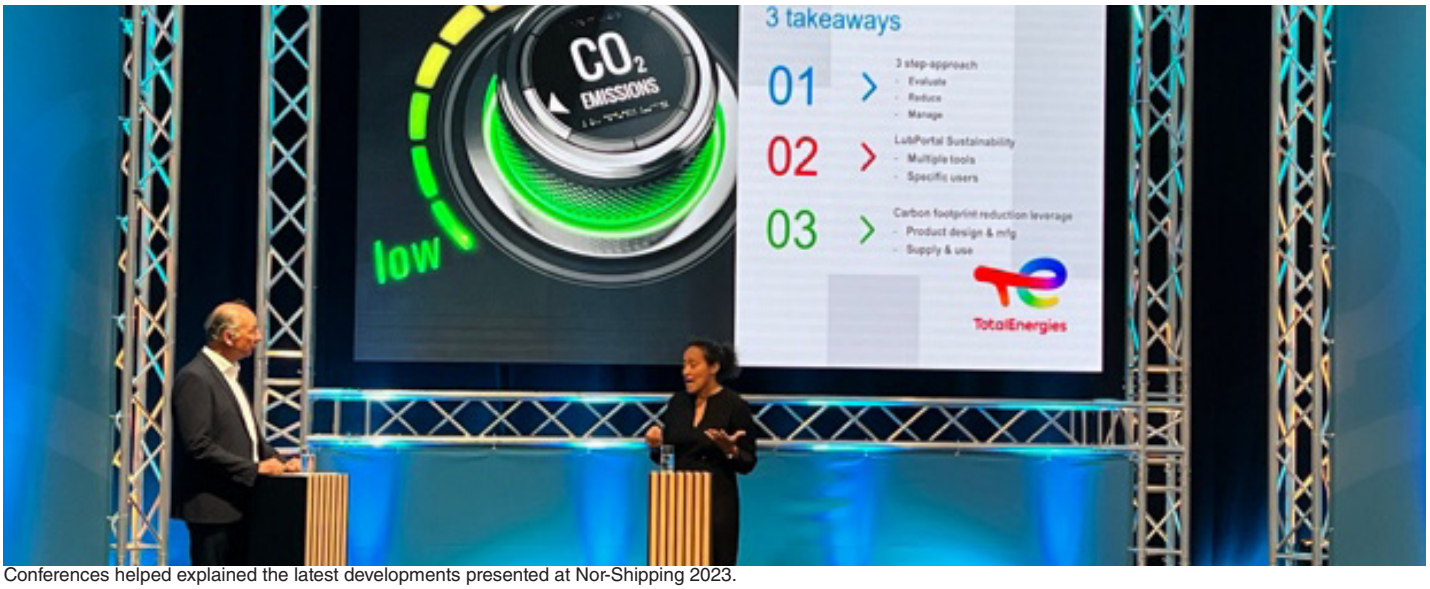
About Nor-Shipping 2023

Date: Tuesday-Friday, June 6-9, 2023
City: Lillestrom, Norway
Attending JSMEA members: Daihatsu Diesel Mfg. Co., Ltd.; Fuji Electric Co., Ltd.; Fuji Trading Co., Ltd.; JRCS Co., Ltd.; Kawasaki Heavy Industries, Ltd.; Mikasa Corp.; Nishishiba Electric Co., Ltd.; Tokyo Keiki Inc.; and Yanmar Power Technology Co., Ltd.

About Japan Seminar

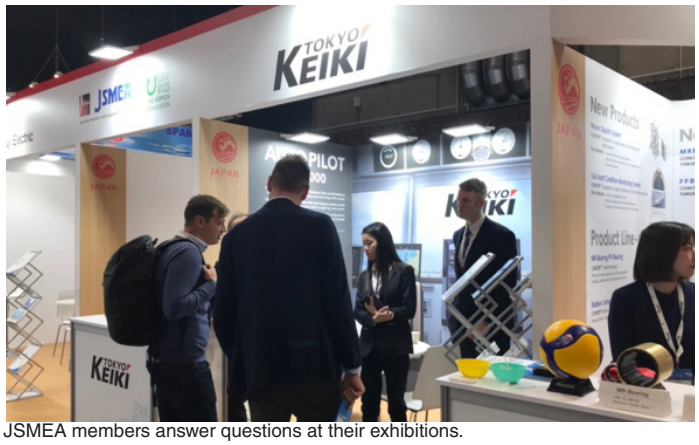
Time and Date: 13:30-16:00, Wednesday, June 7, 2023
Venue: Oslo 1 and 2, Thon Hotel Arena
Program: https://dp.jsea.or.jp/vr/JSEA/entrance/index.html

JSMEA Chairman Kinoshita Shigeki (left), Japanese Ambassador to Norway Kawamura Hiroshi (second from left), JSEA Chairman Miyanaga Shunichi (second from right) and ClassNK President and CEO Sakashita Hiroaki (right) prepare for the ribbon-cutting ceremony during the opening of the Japan Pavilion.



Conferences helped explained the latest developments presented at Nor-Shipping 2023.

Japanese Ambassador to Norway Kawamura Hiroshi tours the Japan Pavilion.



JSMEA members answer questions at their exhibitions.

Many curious visitors enter the Japan Pavilion.

JSMEA teams up with the JSEA for the Japan Seminar.

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Printed in Japan in Summer 2023