



Jsmea News



Japan Ship Machinery and Equipment Association

JSMEA signs MOU with Malaysian, Thai, Filipino partners to promote regular meetings with local ship owners' associations

Japan Ship Machinery and Equipment Association (JSMEA) signed memoranda of understanding (MOU) in late February-early March 2019 with the Malaysia Shipowners' Association (MASA), the Thai Shipowners' Association (TSA), the Filipino Shipowners' Association (FSA), the Philippine Interisland Shipping Association (PISA), the Philippine Petroleum Ser Transport Association (PHILPESTA) in Malaysia, Thailand and the Philippines.

JSMEA signs MOU with MASA



Ceremony held for MOU with TSA



Photo shows (left) Mr. Shinzo Yamada, chairman, JSMEA and (right) Mr. Bhumindr Harinsuit, chairman, TSA

JSMEA also signs MOU with FSA, PISA, PHILPESTA



Photo shows (from left) Mr. Christopher S. Pastrana, chairman/president, PISA; Mr. Shinzo Yamada, chairman, JSMEA; Mr. Dario R. Alampay, Jr., chairman/president, FSA; and Mr. Andronico E. Santos, chairman/president, PHILPESTA

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In Southeast Asian nations, enhancements in logistics and improvements in infrastructure are taking place thanks to economic expansion. As such, the local shipping and shipbuilding industries are both expected to grow in the future. Before the conclusion of the MoU, therefore, JSMEA member companies had begun seeing them as promising markets. For its part, JSMEA organizes several seminars a year in Southeast Asia to introduce the latest products and technologies by the Japanese ship machinery and equipment industry to local ship owners, who are either customers or potential customers. This way, it promotes the industry and strives to enhance relations with overseas customers through dialogs with ship owners' associations in other economies.

The Southeast Asia Maritime Summit, held in Tokyo in April 2018 during Sea Japan 2018, attracted top executives from ship owners' associations in Malaysia, Thailand, the Philippines, Indonesia and Singapore. JSMEA and the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) ran panel discussions to study challenges facing Southeast Asian countries as well as MOU and other means to foster partnerships.

JSMEA had already established amicable relations with ship owners' associations in Southeast Asian nations, but to further strengthen its friendship with them and to promote regular information and other exchange, it had decided to sign the memoranda.

The MoU that JSMEA signed with the associations of Malaysian, Thai and Filipino ship owners are designed to encourage the partners to (1) exchange information on recent developments in technologies of their nations' maritime industries, (2) promote interchange between their member companies, and (3) pay mutual visits to carry out the activities described in (1) and (2), and enhance their bilateral relations.

The JSMEA held a total of three signing ceremonies for the MOU, the first on Feb. 26, 2019 as a sideline event of a ship machinery and equipment seminar that it held in Malaysia, during which it reached an agreement with the Malaysia Shipowners' Association (MASA).

At the Malaysian ceremony, Mr. Shinzo Yamada, chairman of JSMEA, gave an address to emphasize the organization's hope that the MOU would lead to reinforcing the relations between

Japan and Malaysia. It will in the future upgrade the partnership and promote mutual interchange, he added.

The second ship machinery and equipment seminar that the JSMEA had ever held in Malaysia was a great opportunity for local ship owners to obtain information on Japanese manufacturers, Dato' Ir. Abdul Hak Md Amin, chairman of MASA, said in reply. Currently, addressing environmental issues is one of its major challenges, such as controlling exhaust gas and managing ballast water, he continued. The chairman would like JSMEA to continue to provide help and make contributions to Malaysian ship owners for them to overcome the challenge through information and technologies provided by Japanese makers, so that the Malaysian shipping business will grow further.

Also at the signing ceremony, the chairmen exchanged commemorative gifts. It was witnessed by the approximately 100 attendees, who had also attended the ship machinery and equipment seminar.

On Feb. 28, 2019, an MOU was signed with the Thai Shipowners' Association (TSA). Mr. Yamada stated at the signing ceremony that JSMEA and compatriot ship machinery and equipment manufacturers will both actively provide ship owners as well as other customers and potential customers in Thailand with the latest information and cutting-edge technologies.

JSMEA signs MOU with MASA



Many of the vessels in operation in Thailand are secondhand vessels imported from Japan, said Mr. Bhumindr Harinsuit, chairman of the TSA, stressing that local ship owners, therefore, have been familiar with Japanese ships and machinery and equipment for a long time. With enhancements in international environmental regulations and other rules, ships operated in Thailand need to take environmental and other actions, said the chairman. It is necessary to have cooperation from Japanese ship machinery and equipment makers to this end, he continued, adding that the TSA would like to maintain its partnership with JSMEA to promote mutual interchanges.

The signing ceremony was attended by five representatives from the TSA, seven from JSMEA and guests.

Subsequently, JSMEA concluded similar agreements on March 6, 2019 with the Filipino Shipowners Association (FSA), the Philippine Interisland Shipping Association (PISA) and the Philippine Petroleum Sea Transport Association (PHILPESTA).

JSMEA has organized two seminars in the Philippines to promote the Japanese ship machinery and equipment business, Mr. Yamada said at the signing ceremony, claiming that it will continue to provide information on environmental and Internet of Things (IoT) technologies to contribute to the development of the maritime industry of the Philippines.

Mr. Dario Roy Alampay, Jr., chairman of the FSA, applauded the ceremony, claiming it was held at the right time. The Philippines is now in the process of modernizing its maritime transport system, he said. As such, shipowners in the Philippines want to renew their fleet to enhance the performance and safety of general cargo freighters, ferries and other components. The chairman added that he is well-aware of the high quality of Japanese ship machinery and equipment as well as the makers' after-sales services. Mr. Alampay said he said that Japanese ship machinery and equipment manufacturers will continue to give information and offer up technologies to help the Filipino maritime industry reach higher levels.

At the ceremony, nine from JSMEA hosted 21 partners from the Philippines and others.

JSMEA is determined to hold an event every year for each of the organizations in Malaysia, Thailand and the Philippines, respectively, with whom it signed MOU in order to update them on information for the latest products and technologies from the Japanese ship machinery and equipment industry and to maintain and deepen its relations with them.

JSMEA's Global Strategic Plan Review Board and Overseas Market Development Committee also intend to discuss more partnerships with whom JSMEA can sign MOU to expand its network of relations with ship owners, shipbuilders and other customers in Southeast Asia and other regions.

Ceremony held for MOU with TSA



JSMEA also signs MOU with FSA, PISA, PHILPESTA



JSMEA attends SMM Hamburg 2018, IMPA London 2018

Japan Ship Machinery and Equipment Association (JSMEA) attended SMM Hamburg 2018 in Germany on Sept. 4-7. With financial support from The Nippon Foundation, it ran the Japan Pavilion with 20 member companies.

On Day 1 (Sept. 4), JSMEA organized a seminar and reception from 18:30 at a hotel located in the neighborhood of the exhibition venue. At the seminar, Mr. Yoshikazu Kawagoe, senior managing executive officer at Mitsui O.S.K. Lines, Ltd. (MOL), gave a presentation entitled “Maritime Challenge to Reduce Green House Gas Emissions—‘Usage of Wind Power’”. He introduced the Wind Challenger Project, an industry-academia project to use wind power for ship propulsion, of which MOL is a member. Following Mr. Kawagoe’s presentation, Mr. Christian Schneider, an advisor to the German Shipbuilding and Ocean Industries Association (VSM), gave his presentation, which focused on business conditions in the German maritime industry, international cooperation in the local market and other subjects. The seminar was attended by some 180 people from Japan and Europe engaged in maritime affairs, 50 percent more than the number of seats it had anticipated and prepared. As such, quite a few attendees had to stand during the

presentations. Many of them said that Mr. Kawagoe’s presentation was easy to understand, as it was given with visual aids. They also remarked that the topic was interesting and informative.

At the beginning of the reception held after the seminar, Kagami Biraki, a Japanese traditional ceremony breaking sake barrel lids with wooden mallets, was performed to pray for growth in the relations between the Japanese ship machinery and equipment industry and parties from Europe concerned in maritime affairs. JSMEA invited to the ceremony Mr. Koichi Fujiwara, chairman and president of Nippon Kaiji Kyokai (ClassNK); Ms. Kikuko Kato, Japanese consul general in Hamburg; Mr. Kawagoe; Mr. Schneider and Mr. Greg Trauthwein, associate publisher of Maritime Reporter & Engineering News. They joined JSMEA executives: Mr. Shinzo Yamada, chairman; Mr. Shigeki Kinoshita, Mr. Masaharu Ono and Mr. Katsuhiko Fujiwara, vice-chairmen. After the ceremony, participants had time to get to know each other. Ms. Kato visited the Japan Pavilion in advance to the seminar, receiving briefings on new products and technologies from the pavilion exhibitors.

At SMM Hamburg 2018, the Japan Pavilion was located

Japan seminar & reception



Mr. Yoshikazu Kawagoe gives a presentation.

Kagami Biraki performed at reception



From left: Mr. Shigeki Kinoshita, Mr. Christian Schneider, Mr. Koichi Fujiwara, Mr. Shinzo Yamada, Ms. Kikuko Kato, Mr. Yoshikazu Kawagoe, Mr. Greg Trauthwein, Mr. Katsuhiko Fujiwara and Mr. Masaharu Ono



Mr. Christian Schneider also delivers a presentation.

Japanese consul general in Hamburg visits Japan Pavilion



From left: Mr. Shigeki Kinoshita; Mr. Koichi Fujiwara; Ms. Kikuko Kato; Mr. Shinzo Yamada; Mr. Jun Takahashi, researcher/advisor of international law from the Japanese Consulate General in Hamburg; and Mr. Shoichi Kitamura, executive managing director of JSMEA

at the center of Hall B7, occupying a more spacious area than the last time it was there at the exhibition, and partly contributing to visits by many individuals from Japan as well as Germany and other European nations with interests in maritime affairs. Many of the pavilion members said their participations were more successful than expected, seeing more people coming to the exhibition than the last time, meaning they welcomed more people at their booths, and consequently many business negotiations having been conducted.

In the following week, JSMEA traveled to the United Kingdom to participate in IMPA London 2018 on Sept. 11-12.

As always, many ship owners from the United Kingdom, where IMPA London 2018 was organized, and neighboring countries were present at the exhibition. JSMEA visited the booths of the ship machinery and equipment makers, trading house dealing with relevant products and other parties that it had already established relations with to exchange information. The association combined its booth with that of Fuji Trading Co., Ltd., which was located next door, in setting up the Japan Pavilion, where five affiliated companies displayed catalogs of their products. JSMEA distributed its publication on members' energy-saving and eco-friendly ship machinery and equipment.

JSMEA is determined to continue the promotion of its affiliated companies when attending exhibitions and on other occasions to reinforce their partnerships with participants of the European maritime industry.

Outline of SMM Hamburg 2018

Dates: Tuesday-Friday, Sept. 4-7, 2018

Venue: Hamburg Messe und Congress (Japan Pavilion—**location:** Hall B7, **area:** 420 square meters)

Number of exhibitors: 2,289 companies from 69 countries (according to organizer)

Number of visitors: approximately 50,000 people from 120 countries (according to organizer)

Attending JSMEA members

Those with booths: 17 (Daihatsu Diesel Mfg. Co., Ltd.; Fuji Electric Co., Ltd.; Fuji Trading Co., Ltd.; Ibuki Kogyo Co., Ltd.; Japan Engine Corporation; Kawasaki Heavy Industries Ltd.; Mitsubishi Kakoki Kaisha, Ltd.; MOL Techno-Trade, Ltd.; Musasino Co., Ltd.; Nabtesco Corporation; NICO Precision Co., Inc.; Nishishiba Electric Co., Ltd; Riken Corporation; Sunflame Co., Ltd.; Taiyo Electric Co., Ltd.; Uzushio Electric Co., Ltd. and Yanmar Co., Ltd.)

Those with display panels: 2 (Nitto Chemical Industry Co., Ltd. and Shinko Ind. Ltd.)

Those distributing catalogs: 1 (Naniwa Pump Mfg. Co., Ltd.)

Outline of Japan seminar & reception

Time/date: 18:30-20:30 on Tuesday, Sept. 4

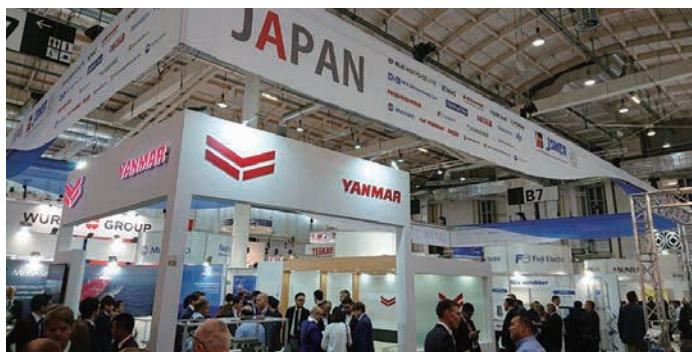
Venue: InterCity Hotel Hamburg Dammtor-Messe

Events conducted: Presentations by Mr. Yoshikazu Kawagoe and Mr. Christian Schneider, and a standing reception

Number of attendees: approximately 180 people



The venue of SMM Hamburg 2018



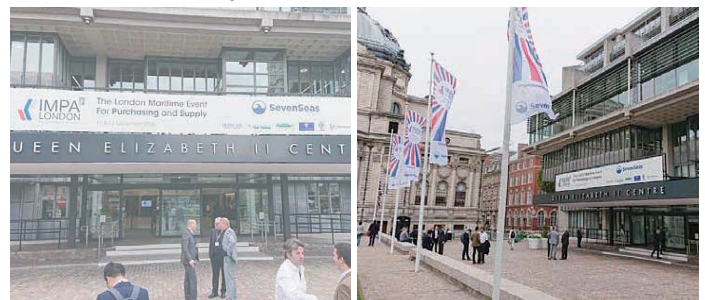
The Japan Pavilion

Outline of IMPA London 2018

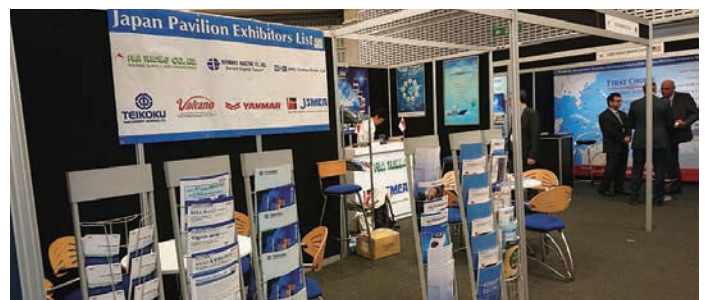
Dates: Tuesday-Wednesday, Sept. 11-12, 2018

Venue: Queen Elizabeth II Centre

Attending JSMEA members (running booths): Kyokuyo Electric Co., Ltd.; MOL Techno-Trade, Ltd.; Teikoku Machinery Works, Ltd.; Volcano Co., Ltd. and Yanmar Co., Ltd.



The entrance of the exhibition venue



JSMEA members' booths

JSMEA makes debut at Nor-Fishing

Japan Ship Machinery and Equipment Association (JSMEA) made its debut at Nor-Fishing, the national and international exhibition for the fishery industry, on Aug. 21-24, 2018 in Trondheim, Norway. JSMEA was accompanied by six affiliated companies, all members of its Overseas Fishing Vessel Market Development Working Group.

Nor-Fishing, one of the world's largest trade shows for fishery-related technologies, has been held every other year since 1960. In 2018, it hosted 509 exhibitors from 21 European and other countries, which welcomed some 20,000 visitors from 60 economies.

In fiscal 2017 (April 2017-March 2018), JSMEA set up the Overseas Fishing Vessel Market Development Working Group under its Overseas

Market Development Committee. The working group has since been working to gather information on overseas markets for fishing vessels, relevant systems and so forth, and holding discussions in preparation for developing such markets. During its meeting in March 2018, members exchanged views on differences in design concepts for purse seiner vessels between Japan and Norway along with other subjects. It decided then to attend Nor-Fishing for the first time to garner information on overseas fishing vessels and European-made ship machinery and equipment and to better promote Japanese products among parties from European nations engaged in the fishing business.

During Nor-Fishing 2018, JSMEA hosted a sushi reception at its exhibition booth to actively promote Japan-made ship machinery and equipment

JSMEA visits Larsnes Mek. Verkstedt shipyard in Alesund



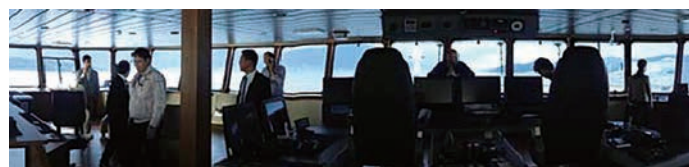
An on-board tour is made on a fishing vessel (approximately 3,000 gross tons, operated by a small crew of nine seafarers).



Mr. Erling Molvic, machinery and system manager (front row, third from left) and Mr. Jarle Gunnarstein (front row, fourth from left)



Mr. Shoichi Kitamura, executive managing director of JSMEA, greets Mr. Jarle Gunnarstein, CEO of Larsnes Mek. Verkstedt.



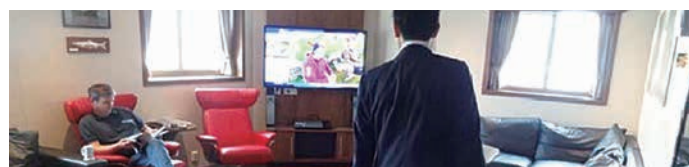
JSMEA delegation members on the bridge of the fishing vessel



Mr. Shuzo Ueda, leader of JSMEA's Overseas Fishing Vessel Market Development Working Group, gives a briefing to Mr. Jarle Gunnarstein.



Mr. Jarle Gunnarstein gives a presentation.



products. The booth was visited by many people, including Mr. Harald Tom Nesvic, minister of fisheries from the Ministry of Trade, Industry and Fisheries.

As for other nations, the national pavilion of Denmark was made up of a number of exhibitors, such as manufacturers of machinery and equipment for fishing vessels and ship repair yards, and attracted many visitors.

During the week of Aug. 13, JSMEA took the six member companies of its Overseas Fishing Vessel Market Development Working Group to a shipyard that Larsnes Mek. Verksted AS runs in Alesund. The visit was productive, as delegation members were allowed to make an on-board tour on a cutting-edge fishing vessels completed at the yard and exchange opinions with the yard's executives.

JSMEA intends to report findings from its Norwegian trip at its next Overseas Fishing Vessel Market Development Working Group meetings, and discuss how to help future activities and what other steps to take.

Outline of Nor-Fishing 2018

Dates: Tuesday-Friday, Aug. 21-24, 2018

Venue: Trondheim Spektrum (location: Klostergata 90, 7030 Trondheim, Norway)

Number of visitors (unveiled by organizer)

Aug. 21: 4,460 (from 50 countries)

Aug. 22: 6,460 (from 55 countries)

Aug. 23: 5,904 (from 59 countries)

Aug. 24: 2,646 (no announcement made of the number countries)

Total: 19,470 (from 60 countries)

***Number of visitors at Nor-Fishing 2016:** approximately 15,000

URL: <http://nor-fishing.no/?lang=en>

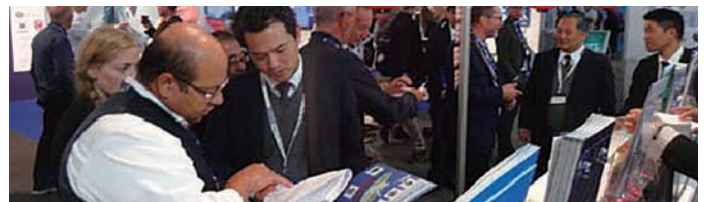
Members of JSMEA delegation: Akasaka Diesels Ltd.; Daihatsu Diesel Mfg. Co., Ltd.; Maekawa Mfg. Co., Ltd.; Nagasaki Marine Service Co., Ltd.; Nakashima Propeller Co., Ltd. and Taiyo Electric Co., Ltd.

Nor-Fishing 2018



From left: Mr. Shoichi Kitamura, Mr. Harald Tom Nesvic and Mr. Shuzo Ueda

JSMEA booth



An opening ceremony held on Day 1 for JRC Scandinavia's booth



Mr. Masaya Kawata, president/representative director of Nisshinbo Holdings Inc. (third from left); Mr. Atsuki Ito, first secretary at the Japanese embassy in Oslo (center); and Mr. Shoichi Kitamura (third from right)



Opening ceremony for Nor-Fishing 2018 Gunnarstein.



The reception held by the organizer is filled to capacity with many attendees.

JSMEA, 3 members attend International Workboat Show 2018

Japan Ship Machinery and Equipment Association (JSMEA) and three member companies attended the International WorkBoat Show 2018 in New Orleans, Louisiana on Nov. 28-30, 2018.

The annual international exhibition focuses on markets for offshore support vessels (OSVs), pushers, tugboats, patrol vessels, fishing boats and other crafts that are operated in waters and on rivers in the United States. Every year, it hosts over 1,000 companies from around the world, including ship designers, shipbuilders and machinery

and equipment manufacturers. Engine makers, navigational instrument makers and other Japanese companies have, in the past, participated in the event on their own, through their US agents or one of the other many means.

In response to the rise in interest in the U.S. workboat market among affiliated manufacturers, JSMEA first attended the International WorkBoat Show in 2016 with assistance from Maritime Reporter and Engineering News, an American magazine specializing in maritime affairs. The

The JSMEA booth



recent attendance was its third showing in as many years with the support of the magazine.

With its booth near an entrance with heavy foot traffic, JSMEA distributed a brochure and a catalog containing information on products of its members for OSVs, fishing boats and others, arranged by ship type, as well as their contact details. Members from its delegation visited booths of U.S. shipbuilders, designers and other exhibitors to promote their products.

Coinciding with the International WorkBoat Show 2018, JSMEA called upon Ingalls Shipbuilding, a local shipbuilder of naval and other vessels, accompanied by eight member companies. While showcasing their respective ship machinery and equipment, they exchanged views with representatives from the shipyard to explore opportunities to have their products used in the

construction of their crafts. In May 2018, two executives from Ingalls Shipbuilding came to visit JSMEA to consider procuring Japan-made products, which led to the JSMEA calling on Ingalls Shipbuilding while in New Orleans during the International WorkBoat Show.

JSMEA will be reporting on its attendance at the International WorkBoat Show 2018 and its get-togethers with local businesses when it meets with its Global Strategic Plan Review Board and other in-house units to continue discussions on exploiting overseas markets.

Details of JSMEA attendance at International WorkBoat Show 2018

- 1) **Area of JSMEA booth:** 18 square meters
- 2) **Exhibitors:** Naniwa Pump Mfg. Co., Ltd.; Taiyo Electric Co., Ltd.; and Takashina Life Preservers Co., Ltd.

Bulk carriers on the Mississippi River



A barge pusher on the Mississippi River



JSMEA holds seminar in UAE

Japan Ship Machinery and Equipment Association (JSMEA) organized its first seminar on ship machinery and equipment in Dubai, the United Arab Emirates (UAE) on Wednesday, Oct. 31, 2018 with financial support by The Nippon Foundation.

The seminar, entitled “Japan Day”, was held on the last day of Seatrade Maritime Middle East 2018 (Oct. 29-31), a gathering that attracted many in the Middle East who are engaged in shipping, shipbuilding, ship repair and other maritime affairs. From JSMEA, nine member companies were present to give presentations on energy-saving and eco-friendly products. A large screen at the presentation projected not only distributed

handouts, but also the faces of the presenters for an attentive audience that took notes in earnest.

Speakers at the start of the seminar were Mr. Shuichi Takano, minister/Deputy head of mission at the Embassy of Japan to the UAE; Mr. Abdulaziz Sabiri, acting president of Bahri Ship Management, one of the world’s greatest ship owners/operators/managers; and Mr. Yukihiro Fujinami, regional manager of the Middle East/general manager of the Dubai Office/principal surveyor/marine management systems auditor at Nippon Kaiji Kyokai (ClassNK); all of whom hoped that Japanese ship machinery and equipment makers would play more important roles in the emirates.



At the JSMEA booth: (from left) Mr. Shoichi Kitamura, JSMEA executive managing director; Mr. Reijiro Urabe, leader of JSMEA's Overseas Market Development Working Group; Mr. Masaharu Ono, a JSMEA vice-chairman; Mr. Shinzo Yamada, JSMEA chairman; Mr. Shuichi Takano, Deputy head of mission at the Embassy of Japan to the UAE; Mr. Ryuichi Ishii, first secretary at the Embassy of Japan in the UAE; Mr. Katsuhiko Fujiwara, a JSMEA vice-chairman; Mr. Kazuhiko Kinoshita, a JSMEA vice-chairman; and Mr. Ryusaku Hayashi, managing director of Middle East Fuji

At Seatrade Maritime Middle East 2018, meanwhile, JSMEA set up a booth and promoted products by member companies, including those giving presentations at the seminar. A lunch reception was also held at the booth, during which members built and/or strengthened relations with local parties concerned with maritime affairs through interchange. JSMEA member company representations learned of the local parties great interest in Japanese ship machinery and equipment products, as they are highly rated in environmental performance.

The Japan Day seminar was co-hosted by Middle East Fuji LLC, a joint venture of the Fuji Trading Co., Ltd. group, which holds biannual technical seminars in the UAE. In addition to the aforementioned nine member companies, Eagle Industry Co., Ltd. and others also gave presentations.

Outline of ship machinery and equipment seminar

Time/date: 13:00-15:30 on Wednesday, Oct. 31, 2018

Venue: Keynote Theater, Hall 8, Dubai World Trade Center (DWTC)

Members of JSMEA mission: Chugoku Marine Paints, Ltd.; Daihatsu Diesel Mfg. Co. Ltd.; Hanshin Diesel Works, Ltd.; Kanagawa Kiki Kogyo Co., Ltd.; MOL Techno-Trade, Ltd.; Nabtesco Corporation; Nakashima Propeller Co., Ltd.; Taiyo Electric Co., Ltd.; and Yanmar Co., Ltd. (Alphabetical order)

Number of attendees: approximately 200

Number of visitors at Seatrade Middle East 2018: nearly unchanged from 2016 visitors (8,302)

*Being tallied by the organizer now



JSMEA members give presentations.



Mr. Abdulaziz Sabri visits the JSMEA booth.



JSMEA organizes a lunch reception.

JSMEA seminar returns to Taiwan

Japan Ship Machinery and Equipment Association (JSMEA) hosted a seminar in Taipei on Nov. 27, 2018. It was the first JSMEA seminar held in two years in the city, with an increased attendance of over 150 people from ship owners, shipbuilders and other local parties.

JSMEA sent a delegation of as many as 90 individuals, led by Mr. Shinzo Yamada, chairman; vice-chairmen Mr. Katsuhiko Fujiwara, Mr. Kenichi Waki, Mr. Kazuhiko Kinoshita; Mr. Reijiro Urabe, leader of the Overseas Market Development Working Group; and representatives of 28 member companies.

Kicking off the seminar, Mr. Yamada, in his opening address, said, "When organizing the previous seminar, many of our members enjoyed a valuable opportunity to get together with Taiwanese shipowners and shipbuilding companies, both of

which are important customers of the Japanese ship machinery and equipment industry. They reaffirmed that it was meaningful to have a chance to exchange up-to-date information and opinions. We then decided to hold more seminars here in Taiwan."

Following Mr. Yamada, guest speaker Mr. Liu Te-tsai, chief secretary at the Ministry of Transportation and Communications (MOTC)'s Maritime and Port Bureau (MPB), said, "For Taiwanese parties engaged in maritime affairs to comply with enhancements in international regulations, it is very important to gather information on the latest technological trends in Japan. This seminar is meaningful for this reason."

Mr. Lin Bo-chou, president of the Community of Taiwan Maritime Technician (CTMT), which provided tremendous help in organizing the



Mr. Shinzo Yamada gives the opening address.



Guest Mr. Lin Bo-chou also makes remarks.



JSMEA members give presentations.



Mr. Liu Te-tsai delivers a guest speech.



From left: Mr. Liu Te-tsai, Mr. Shinzo Yamada and Mr. Lin Bo-chou



JSMEA members give presentations.

seminar, added, “As with the previous seminar, I hope this seminar will also become a great opportunity to promote more exchanges between Taiwan and Japan. I would like JSMEA to continue to hold seminars regularly in Taiwan.”

After these leaders spoke, 25 attending JSMEA member companies were divided at two different locations and delivered presentations to provide up-to-date information on their respective products and technologies. The presentation halls were both nearly filled to capacity from beginning to end, indicating the high interest of Taiwanese businesses in Japanese ship machinery and equipment products. In addition to the presentations, 28 affiliated companies actively exchanged views with visitors at business meetings held in adjoining rooms.

After the seminar, JSMEA held a reception for the visitors, who enjoyed pleasant talks with member companies until the event came to an end.

Local media, which had already covered stories on the seminar, briefed it again on the following day.

Seminar information

Time/date: Tuesday, Nov. 27, 2018 (seminar: 14:00-18:00/reception: 18:30-20:30)

Venues: Function Rooms, 4th floor/Ballroom, 3rd floor, Regent Taipei (address: No. 3, Lane 39, Section 2, Zhongshan North Road, Zhongshan, Taipei 104, Taiwan)

Number of attending JSMEA members: 28

Those giving presentations/preparing negotiating tables: 25 (Akasaka Diesels Ltd.; Chugoku Marine Paints, Ltd.; Daihatsu Diesel Mfg. Co., Ltd.; Eagle Industry Co., Ltd.; Fujikura Rubber Ltd.; The Hanshin Diesel Works, Ltd.; Hitachi Zosen Corporation; Japan Engine Corporation; Kanagawa Kiki Kogyo Co., Ltd.; Kawasaki Heavy Industries, Ltd.; Manabe Zoki Co., Ltd.; Mitsubishi Kakoki Kaisha, Ltd.; MOL Techno-Trade, Ltd.; Nabtesco Corporation; Nakashima Propeller Co., Ltd.; Niigata Power Systems Co., Ltd.; Sasakura Engineering Co., Ltd.; Taiko Kikai Industries Co., Ltd.; Taiyo Electric Co., Ltd.; Takashina Life Preservers Co., Ltd.; Tokyo Keiki Inc.; Turbo Systems United Co., Ltd.; Volcano Co., Ltd.; Winterthur Gas & Diesel Japan Ltd.; and Yanmar Co., Ltd.)

Those preparing negotiating tables: 3 (Isoda Metal Co., Ltd.; Makita Corporation; and Shimada & Co., Ltd.)



Tables are prepared for negotiation.



Mr. Katsuhiko Kinoshita gives an address at the reception.



Mr. Reijiro Urabe makes the closing remarks at the reception.



Mr. Katsuhiko Fujiwara delivers the closing address.



Mr. Kenichi Waki proposes a toast at the reception.



Attendees at the reception

Great interest stirs JSMEA to organize 2nd ship machinery, equipment seminar in Malaysia

Japan Ship Machinery and Equipment Association (JSMEA) organized a one-day seminar entitled “The Malaysia-Japan Business Matching Forum 2019” on Feb. 26 in Kuala Lumpur with financial support from The Nippon Foundation.

In Malaysia, ship owners and shipbuilders own and construct international, domestic and many other general commercial vessels, while for its local offshore development industry, offshore support vessels (OSVs), floating production storage and offloading (FPSO) and floating liquefied natural gas (FLNG) facilities, among others, are being built and ordered. This has attracted great interest among JSMEA members in the nation and prompted the association to organize its second seminar there,

following the first in February 2016.

The Malaysia-Japan Business Matching Forum 2019 was held in two sessions on general commercial vessels and offshore facilities, respectively. From JSMEA, 14-affiliated manufacturers gave presentations on ship machinery and equipment for the markets. They also prepared tables for business matching at the seminar to create business-matching opportunities between members and visitors. In addition to the JSMEA members’ presentations on up-to-date information, the Malaysia Shipowners’ Association (MASA), the Malaysia OSV Owners’ Association (MOSVA) and the Association of Marine Industries of Malaysia (AMIM) also delivered presentations

JSMEA pays courtesy call on MASA



Seated (from left): Mr. Shoichi Kitamura, executive managing director, JSMEA; Mr. Masaharu Ono, vice-chairman, JSMEA; Dato’ Ir. Abdul Hak bin Md Amin, chairman, MASA; Mr. Shinzo Yamada, chairman, JSMEA; Mr. Hazrin Hasan, vice-chairman, MASA; Mr. Katsuhiko Fujiwara, vice-chairman, JSMEA; and Ms. Astuty Arshad, manager, event management & communications, MASA
Standing (from left): Mr. Noboru Ando, managing director, JSMEA; Mr. Shaharuzzaman Baharum, general manager, MASA; Mr. Reiji Urabe, leader, Overseas Market Development Working Group, JSMEA; Mr. Fairuz Ramdzan, manager, MASA; and Mr. Mohd Azhar Mohd Amin, manager, strategic planning, MASA



Mr. Shinzo Yamada gives an opening address.

JSMEA visits MOSVA



Seated (from left): Capt. Abdul Rahim bin Othman, secretary-general, MOSVA; Mr. Haji Omar bin Khalid, honorary treasurer, MOSVA; Mr. Shinzo Yamada, chairman, JSMEA; and Mr. Masaharu Ono, vice-chairman, JSMEA
Standing (from left): Mr. Noboru Ando, managing director, JSMEA (far left); Mr. Reiji Urabe, leader, Overseas Market Development Working Group, JSMEA (second from left); Mr. Soo Jee Main, secretary, MOSVA (third from left); Mr. Katsuhiko Fujiwara, vice-chairman, JSMEA (third from right); and Mr. Shoichi Kitamura, executive managing director, JSMEA (second from right)



Dato’ Ir. Abdul Hak Md bin Md Amin also speaks at the beginning of the seminar.

JSMEA meets with AMIM



Seated (from left): Mr. Soo Jee Main, vice-president, AMIM; Mr. Shinzo Yamada, chairman, JSMEA; Y.Bhg Tan Sri Dato’ Seri Ahmad Ramli bin Hj Mohd Nor, president, AMIM; and Mr. Masaharu Ono, vice-chairman, JSMEA
Standing (from left): Mr. Noboru Ando, managing director, JSMEA; Mr. Shoichi Kitamura, executive managing director, JSMEA; Mr. Reiji Urabe, leader, Overseas Market Development Working Group, JSMEA; and Mr. Katsuhiko Fujiwara, vice-chairman, JSMEA



Mr. Hazrin Hasan delivers a presentation.

on their respective industries, from which JSMEA members obtained recent information on local affairs. The forum was attended by a total of some 150 people: 110 from Malaysia (80 in 2016) and 40 from Japan.

The business-matching areas that were set up at the forum's venue also attracted many people, who were active throughout the event in exchanging views with JSMEA-affiliated companies, and providing an additional boost to the seminar.

After the business-matching forum, JSMEA held a networking reception at the same hall, encouraging its members to establish relations with many local parties engaged in maritime affairs while conducting business. In advance of the networking reception, the JSMEA signed a memorandum of understanding (MoU) with MASA, with which it had already developed good relations. In accordance with the agreement, the partners decided to further enhance their partnership and to meet regularly.

About Malaysia-Japan Business Matching Forum 2019

Time/date: 13:30-20:30 on Tuesday, Feb. 26, 2019

Venue: InterContinental Kuala Lumpur

Number of attendees from Malaysia: approximately 110 (e.g., representatives from the government, ship owners, shipbuilders, ship designers, etc.)

Number of attendees from Japan: approximately 40

Attending JSMEA members: Chugoku Marine Paints, Ltd.; Daihatsu Diesel Mfg. Co., Ltd.; Furuno Electric Co., Ltd.; The Hanshin Dieselworks, Ltd.; Ibuki Kogyo Co., Ltd.; Manabe Zoki Co., Ltd.; Nakashima Propeller Co., Ltd.; Niigata Power Systems Co., Ltd.; Shimada & Co., Ltd.; Taiko Kikai Industries Co., Ltd.; Taiyo Electric Co., Ltd.; Tokyo Keiki, Inc.; Volcano Co., Ltd.; and Yanmar Co., Ltd.



Capt. Abdul Rahim bin Othman delivers a presentation.



The Malaysia-Japan Business Matching Forum 2019



Business-matching areas set up at the seminar site



Mr. Nazery Khalid, former honorary secretary, AMIM, also gives a presentation.



Business-matching tables set at the seminar site



Mr. Masaharu Ono gives the closing address at the ceremony.

JSMEA signs MoU with MASA



Mr. Katsuhiko Fujiwara gives the closing remarks at the seminar.



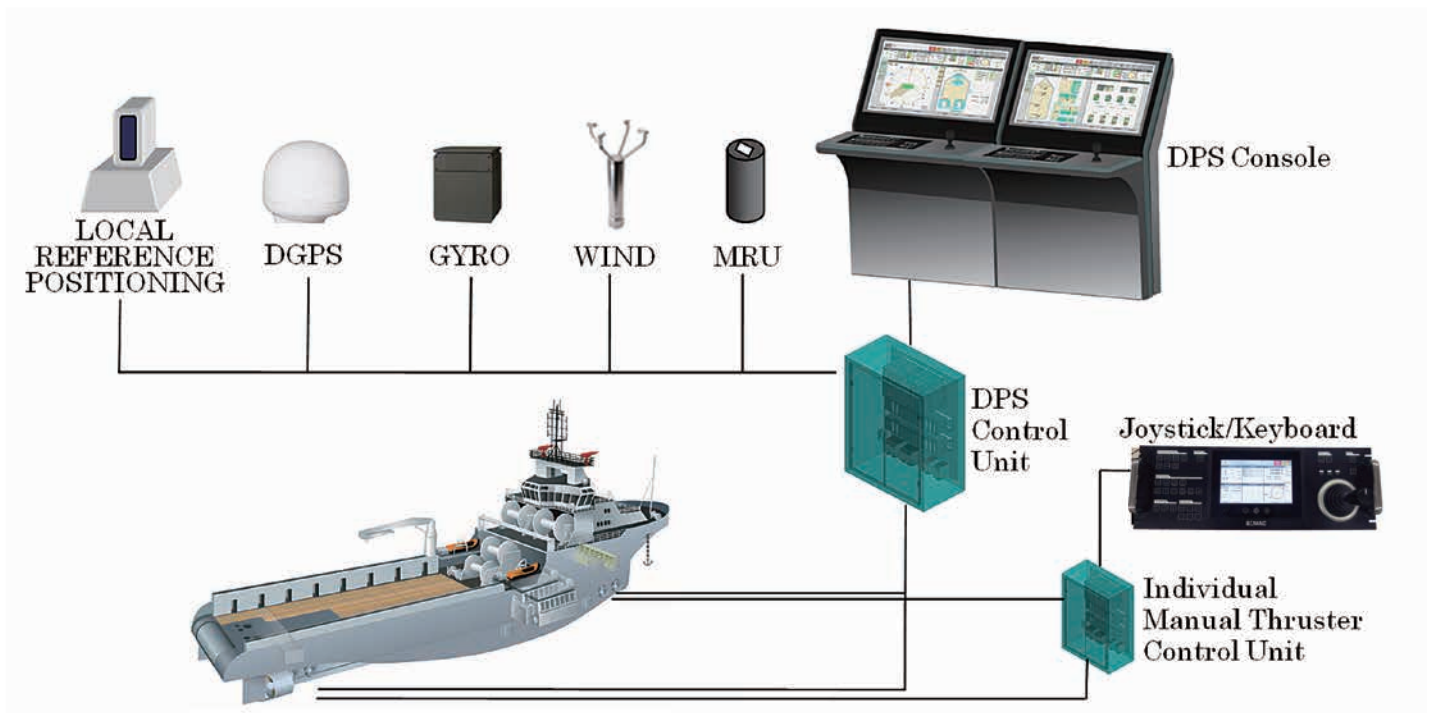
Photo shows (left) Mr. Shinzo Yamada, chairman, JSMEA; and (right) Dato' Ir Abdul Hak bin Md Amin, chairman, MASA

Integrated Dynamic Positioning System

Overview

We have developed an original Dynamic Positioning System which controls a vessel on a required position and heading automatically. We can also supply alarm monitoring system and power management system as a package for the offshore support vessels working at the

ocean energy development and the marine resources site. This system meets the standard ABS's "Guide for Dynamic Positioning System DPS-2 notation." Since the system is equipped redundant CPUs, communication line, power supply, and so on, it carries on control even if something goes wrong with the system.



DPS Control Mode

- Auto position/ Auto heading
- Joystick with auto position/ auto heading
- Model control
- Auto tracking
- Independent manual thruster control

Type Approval

The DP system has obtained the type approval of the ABS classification.



Overview of Display

- Position Plot display
- Joystick display
- Thruster display
- Generator and Power line diagram display
- Sensor and position reference system display
- Trend display
- Alarm display



DP System HIL Testing

We have been performing DP hardware-in-the-loop(HIL) test to verify proper functionality of our control system according to rules and regulations by connecting to the DNV-GL vessel simulator.



Spectacular Performance of CMP's High-end Antifouling

SEAFLO NEO CF PREMIUM, a premium antifouling of CMP, has been on the market since 2017 and welcomed by many ship owners with their expectations on its spectacular performance and potential. The launching was exactly an achievement made by many trial applications and a considerable mile stone in the history of antifouling. In fact, it has been applied to nearly 160 vessels and keeping the hulls clean.

“Barnacle free & Slime free” is the feature of **SEAFLO NEO CF PREMIUM** which is empowered by CMP's patented technology using a unique biocidal agent “Selektepe®” (Medetomidine) developed by pharmacological approach.

In 2019 onward, **SEAFLO NEO CF PREMIUM** continues to be applied to a number of new building vessels.

High standard, High expectations.



Barnacle free
(1-year performance after long anchorage)



Slime free
(24-month performance, SEAFLO NEO CF PREMIUM on left)

About CMP

Since its establishment in Hiroshima in 1917, Chugoku Marine Paints, Ltd. (CMP) has uniquely developed marine paints as its core products, together with other specialized paints for industrial use.

CMP products are designed and developed

based on focused research activities, and distributed via our highly organized global service network.

Now CMP is a major marine paint manufacturer and operates in 35 countries with 105 locations worldwide.

SHIPBOARD CABLE

IEC 60092 & JIS C 3410

HIEN'S CABLE

The marine cables market requires high-performance specialty wire and cable for utmost safety, productivity and resistance to harsh environmental conditions.

The development of unique compounds is designed and tested to meet specific needs and

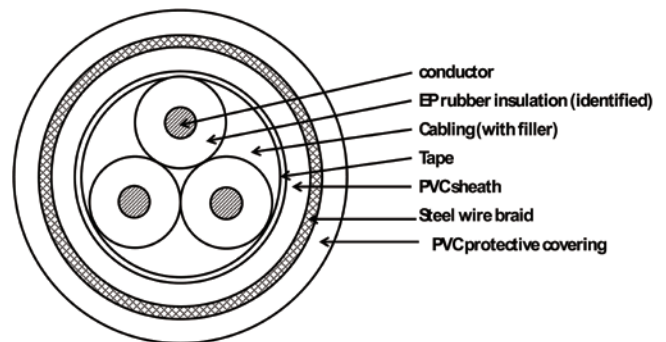
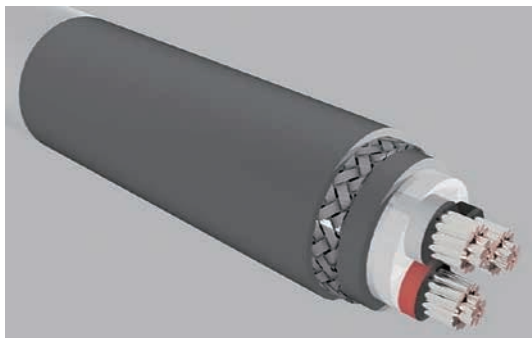
stringent specifications.

We can provide the range of shipboard cables including power, control, instrumentation, data transmission and communication cables.

You can attach high performance characteristics on cables. (Cold resistant, Fire resistant, Oil resistant and more)

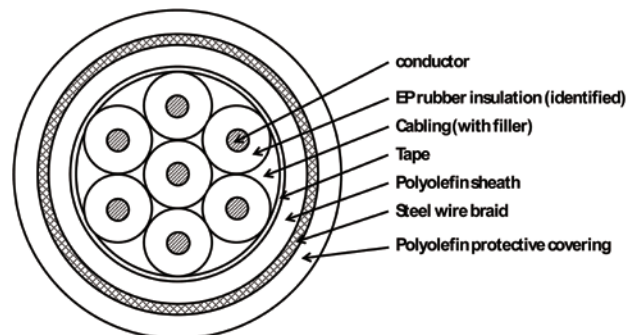
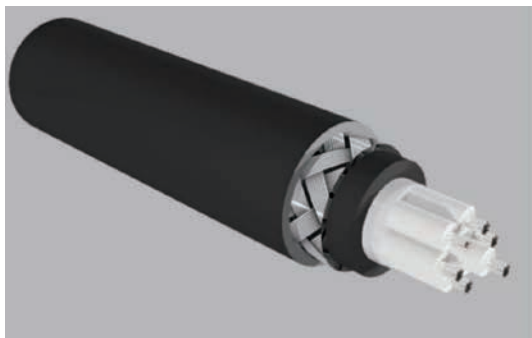
JIS TYPE cables

- for Power & Lighting cable
0.6/1kV FA-TPYCY-70
(Three core, EP rubber insulated, PVC sheathed and steel wire braided cable with PVC protective covering)



Halogen-free Flame-retardant cables

- for Control & Instrumental Multi core cable
150/250V FA-MPOCO-7×1.0
(Multi core, EP rubber insulated, Polyolefin sheathed and steel wire braided cable with Polyolefin protective covering)



HIEN ELECTRIC INDUSTRIES, LTD.

505, Shinshibakawa Bldg., 3-4-11, Doshomachi, Chuo-ku, Osaka, 541-0045, Japan

Tel: +81-6-6226-1501 Fax: +81-6-6226-1507

<http://www.hien.co.jp/>

E-series Kawasaki Rexpeller, Azimuth Thruster

1. Preface

Azimuth thrusters are equipped in tugboats and work boats that require high thrust and high maneuverability. Rexpeller is a trademark of Kawasaki's azimuth thrusters and more than 1,000 units including a retractable and underwater mounting type have been delivered not only for the aforementioned ships but also for shuttle tankers and drill ships since 1983. For this time, Kawasaki developed the new Rexpeller model named "E-series" to meet strong demands of customers (Fig. 1).

2. Features

The new Rexpeller, E series, has three key features (3E's) that are excellent energy savings through improvements of propulsive performance, easier onboard maintenance, and environmentally friendly performance.

1) Energy saving

Kawasaki has achieved reduction of energy consumption of up to 7% compared to the conventional series by developing a high-performance and compact propeller duct (Kort nozzle), and optimizing the lower gear case, based on the latest fluid analysis (Fig. 2).

2) Easy maintenance

Kawasaki made maintenance operations inside the ship easier by reworking the entire structure of the integrated hydraulic clutch. In addition, expansion of inboard maintenance space, flexible hull design, and easier installation have been achieved by arranging the adjacent auxiliaries compactly around the upper gearbox.

3) Environmentally friendly

The use of a high-quality fluororubber (FKM) propeller shaft seal ensures high reliability and reduces the risk of ocean pollution via oil leakages. A monitoring function of the propeller shaft and steering seal is available as an option.



Fig. 1 E-series Rexpeller

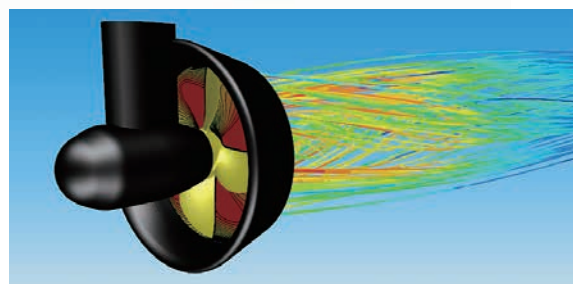


Fig. 2 Fluid analysis



Fig. 3 Control touch panel

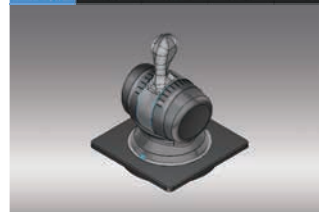


Fig. 4 Control lever

3. Enhanced Usability

Enhanced usability and ergonomic design are adopted for the control system in the bridge and it has been jointly developed with Nabtesco Corporation.

For enhanced usability, the control system is designed to manipulate the vessels intuitively and easily with arranging the sophisticated touch panel (Fig. 3).

Advanced functional design supported by ergonomic technologies is adopted for the control lever to manipulate both the thrust direction and engine speed (Fig. 4).

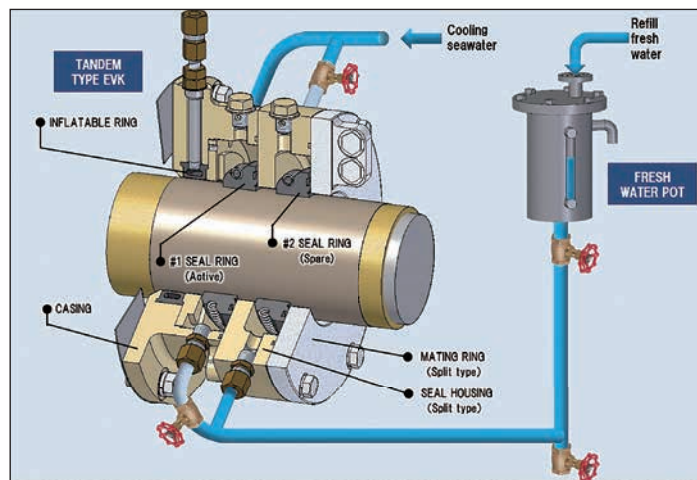
KICS (Kawasaki Integrated Control System) that enables advanced maneuvering of ships such as DP (Dynamic positioning) is also available as an option. KICS has been adopted for the control system of Rexpeller and side thrusters and responding to the needs of various kinds of work vessels.

Water Lubricated Stern Tube Sealing Tandem Type EVK Seal

KEMEL is a global company with its manufacturing facilities located in Japan. With changing markets and environmental guidelines, we have improved ourselves as a world leader in the innovation. Stern tube seal for ships are technically very complex equipment, and are required to be highly reliable.

Utilizing its expertise and knowhow build up over many years, KEMEL has recently launched a new product called Tandem Type EVK Seal to contribute to the comfort and safety of navigation and to environmental conservation.

**NEW
PRODUCT**



**ENVIRONMENTALLY
FRIENDLY**

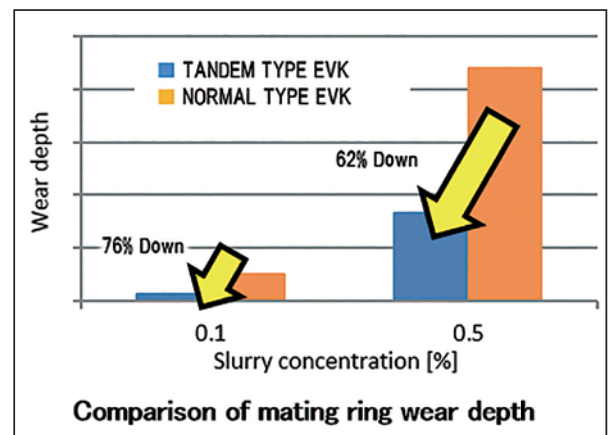
PATENTED

Features

- Improved Wear Resistance**
 The active #1 seal ring is always lubricated by self-controlled clean fresh water. This results in the significant reduction in wear of the mating ring, the seal housing and the seal ring.
- Built in Spare Seal Ring**
 The spare #2 seal ring is incorporated in the seal housing as a spare. This is a standby seal and is idling under normal operation. It is cooled, lubricated & protected by fresh water.
- Improved Operability**
 The spare #2 seal ring can be easily activated by closing the valves. The spare #2 seal ring can be activated without disassembling the seal unit.
- Easy Upgrade from Existing EVK**
 Converting an existing EVK seal to a Tandem type just by replacing the seal casing. (Check with KEMEL for more details)

Specification

- Shaft Diameter Range**
 $\phi 101 \sim \phi 500$ (mm)
- PV (Pressure-Velocity) Value**
 Max. 0.6 (MPa · m/s)
 (Water pressure in casing : Max. 0.15 MPa)



NSS NAGASAKI SEMPAKU SOBI CO.,LTD.

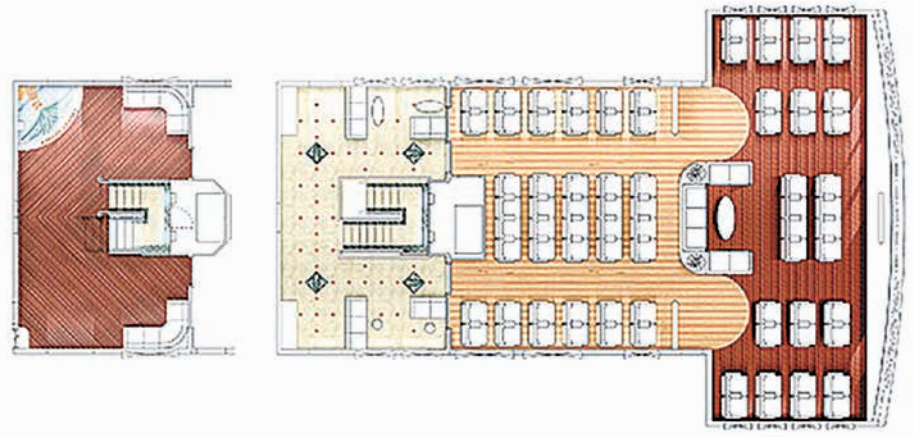
NSS creates comfortable ACCOMMODATION

NSS aims to make comfortable spaces and play a big part in the achievement of rich society by offering trusted products.

Planning

Different types of vessels are subjected to different rules for their interior. NSS fulfill them and customer's request, creating new design with our rich sense and flexibility.

We are always thinking ahead of needs for the next generations.



14,759 GT Domestic Ferry

Procurement

The interior fittings of ships include a wide range of items. NSS can procure and deliver high quality goods from reliable partner companies including PANEL, UNIT TOILET, DOOR, INSULATION MATERIAL, DECK COVERING, FURNITURE, CURTAIN, FABRIC and more.

Workmanship

NSS carries out TURN KEY WORK. We control and keep SCHEDULE, provide safe and comfortable accommodation by experienced workmanship, and finish every project with customer satisfaction.

Our experience and expertise built up since our foundation in 1943 continue to make better spaces.



14,759 GT Domestic Ferry

NSS

NAGASAKI SEMPAKU SOBI CO.,LTD.

1-5, Nishikotohira-Machi, Nagasaki, 850-0933, Japan

Tel:+81-95-828-6777

URL : <http://www.nssjpn.co.jp/en/>

SASAKURA Energy Saving Fresh Water Generator series WX

1. Introduction

Since its foundation in 1949, SASAKURA has steadily accumulated special technological expertise as 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 have been familiar with.



Figure 1 Energy Saving Fresh Water Generator series WX

2. Features 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)

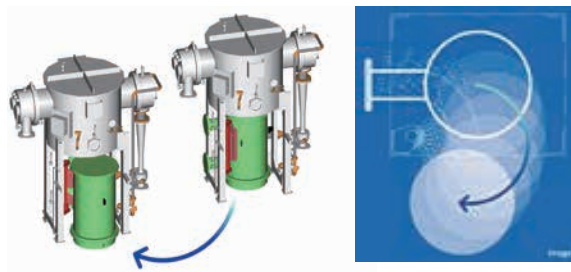


Figure 2 Hinge-type turning heater

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

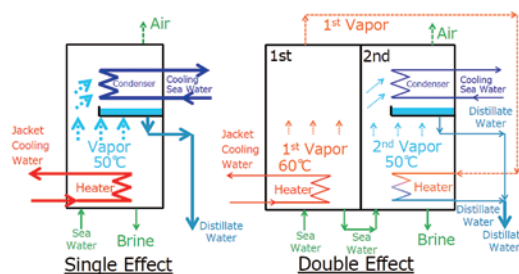


Figure 3 Outline of the series X (Single Effect) and the series WX (Double Effect)



SASAKURA ENGINEERING CO., LTD.

7-32, 4-chome, Takejima, Nishiyodogawa-ku, Osaka, 555-0011, Japan
Tel.: +81-6-6473-2134

E-mail : marine@skm.sasakura.co.jp <http://www.sasakura.co.jp/e/index.html>

SEMCO

Smart Sounding Scale

Honesty

Overview

Smart Sounding Scale Honesty has been developed by SEMCO LTD., Nippon Yusen Kabushiki kaisha (NYK) and the Monohakobi Technology Institute (MTI) for the purpose of increasing the efficiency of liquid level measurement.

With the sensor installed at the end of measuring tape, the device improves the accuracy and reduce the measuring time of liquid level.



Features

- Reading of ullage upon landing of the sensor on any liquid.
- Sensing the actual liquid surface, no the floating bubbles.
- Requires only a 9-volt battery.
- Approved by Class NK.

Benefits

- Saves the measuring time significantly
- Measures accurately as the sensor does not reflect the “cappuccino bunker” (bubbles on the liquid surface) during bunkering.
- Can measure not only fuel oil but also colorless liquid such as ballast water and bilge.
- Portable and easy to handle.

Specifications

Sounding Scale Honesty	
Tape length	30m
Battery	9 volts
Tape resolution	2mm (JIS First Class)
Smart Sounding Scale Honesty Standard model.	Smart Sounding Scale Honesty With brass cover
 <p>Sensor Material : SUS Sensor dimensions Φ 29 × 176mm</p>	 <p>Sensor Material : SUS With brass cover Sensor dimensions Φ 31.8 × 176mm Sensor probe is non-spark type. To restrain sparks. When it hit inside of sounding pipe.</p>



“Please be aware that this product is not explosion-proof, and cannot be used in hazardous area.
“This product may not be used in bent pipes.

SEMCO

SEMCO LTD.

5-4-23 Takatsuka-Dai, Nishi-Ku, Kobe, 651-2271 JAPAN

Tel: +81-78-992-8361 Fax: +81-50-3730-4362

E-mail: sales@semco-ltd.com



The latest Automatic Steering Function (ACE: Advanced Control for Ecology) is now available for integration to existing PR-6000 Autopilots!

PR-9000

The model PR-9000 is the latest autopilot system from TOKYO KEIKI. The PR-9000 is designed using the latest technology from a wealth of engineering and manufacturing experience of navigational instruments. Safety, accuracy, and reliability of information have been enhanced in our model lineup hereby significantly improving situational awareness and navigational safety.

An indispensable autopilot system providing effective safe bridge resource management and energy efficient navigation.



Repeater Unit with color LCD

Color LCDs are incorporated into each system which enhances reliability of information and improves situational awareness.

Maintaining Safe Navigation via Guidance Screen

Steering-related monitoring information can be displayed on the monitor screen. If a warning alert is generated, the navigator can simply view the proper guidance procedure on the screen in order to carry out evasive measures. (Avoidance operating procedures Guidance Screen)

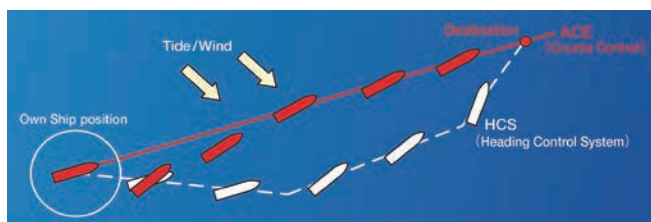


ACE (Advanced Control for Ecology), a new Course Control function that automatically creates a route on the heading between the ship's current position and destination, calculates outside disturbances (tides), and implements the best rudder control making it possible for the vessel to sail the most efficient route.

Compared to normal automatic steering (Heading Control)

- Less route deviation
 - Shorter sailing distance
 - Reduction in the use of Rudder
 - Minimized burden on the Helmsman
- contribute to a safe and more efficient voyage.

ACE/HCS comparison



PR-6000 ACE Installation example



TOKYO KEIKI INC.

inquiries: Marine Systems Company

2-16-46, Minami-kamata. Ohta-ku, Tokyo, 144-8551, Japan

Tel: +81-3-3737-8611 Fax: +81-3-3737-8663 https://www.tokyo-keiki.co.jp/form/webform_marinee.html



Digital solutions

The WinGD Integrated Digital Expert (WiDE) provides digital solutions that enhance the operational efficiency and crew decision-making processes related to the engine and ship operations.

WinGD has developed a system which harnesses the full power of the engine and machinery data, extracting value from it by using expert engine knowledge combined with advanced data analytics techniques.

WiDE

DATA COLLECTION AND MONITORING
ENGINE DIAGNOSTIC SYSTEM
REMOTE SUPPORT

WiDE is a comprehensive, integrated system for creating value from engine and ship data. WiDE allows the collection and analysis of ship and machinery data to predict component malfunctions, and support with live troubleshooting and diagnostic advice to the crew.

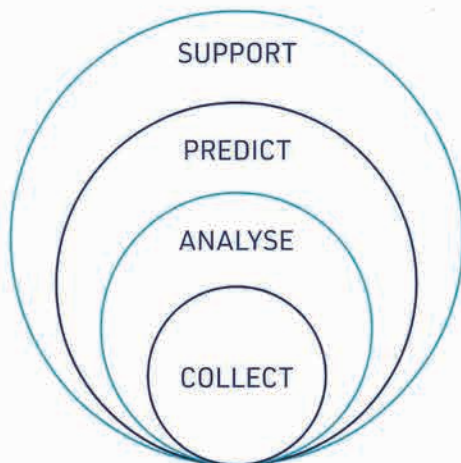


Fig. 1. The WinGD WiDE process

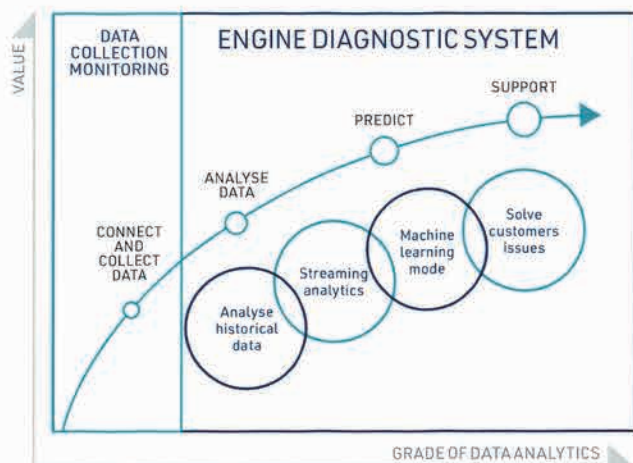


Fig. 2. The WinGD integrated digital expert path to value

WiDE is based on the Data Collection Monitoring (DCM) unit for collecting and visualising the engine and ship data, as well as the Engine Diagnostic System (EDS) software. It analyses the data and creates valuable information.

These capabilities are integrated into a user-friendly on-board system comprising state-of-the-art hardware, expert software, and efficient data analytics techniques.

WinGD Integrated Digital Expert - WiDE

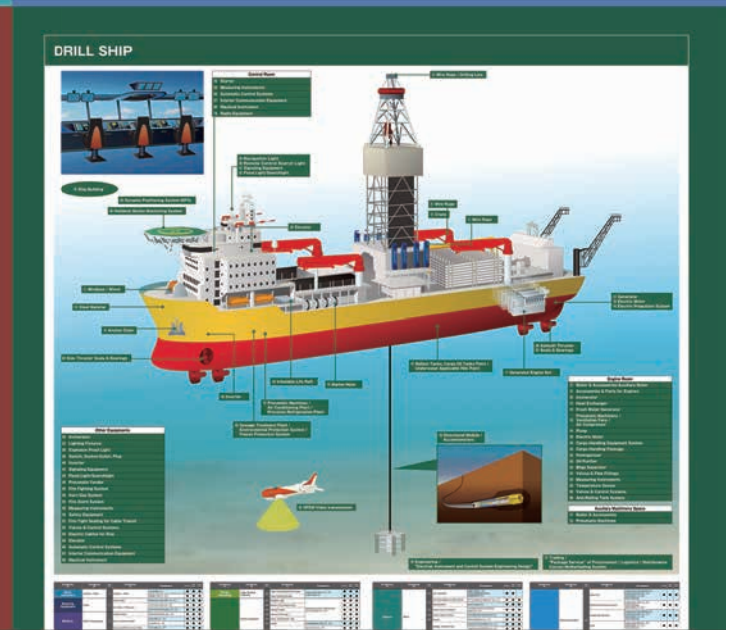
	Collect	Analyse	Predict	Support
Digital solution	Data Collection and Monitoring (DCM)	EDS Performance EDS Components EDS Troubleshooting EDS Interactive training EDS Spare parts	EDS Maintenance	WinGD Expert remote support centre
Description	Collect engine and ship data Display trend Communicate engine data ashore Store data in a secured environment Display cylinder pressure monitoring and other "fast signals"	Intelligently diagnose the engine status via performance information, sub-systems, and current behaviour of the components. The analysis is completed with a troubleshooting module that guides the operator in solving the problem, and interactive training that helps familiarisation with the engine functionalities. Furthermore, the EDS spare parts module helps to identify the part to be changed.	Prediction and diagnosis of component malfunctions and extension of maintenance intervals	WinGD experts provide periodic reports on the engine status, and recommendations on how to optimise performance of the engines. Troubleshoots abnormalities by providing customers with more detailed information on the key components that are affected, and the relevant steps needed to fix the malfunction

Fig. 3. WinGD digital solution overview



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E-mail:japan@wingd.com <https://www.wingd.com/en/>



Japanese marine equipment for OFFSHORE WEB SITE

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JSMEA offshore Search



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ARINA HALL

Japan Pavilion
Booth No. **7145 / 7045 / 7053**

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Japanese Shipbuilding & Ship Machinery Seminar

Japanese Seminar in Sea ASIA
10th April 2019
11:00 - 19:00
Registration starts at 10:30

Seminar 11:00-17:00
Lunch Reception 12:30-13:15
Networking Reception 17:00-19:00



3rd floor Conference Room in Sands Expo and Convention Centre



Seminar program & Registration <http://www.jsmea.or.jp/en/seminar/2019/singapore/>



OFFSHORE TECHNOLOGY CONFERENCE 2019

NRG PARK HOUSTON, TEXAS, USA

2019

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7045, 7053, 7145



JAPAN PAVILION

Quality beyond Products



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