



Jsmea News



JSMEA to set up Japan Pavilion at OTC 2018

At the Japan Pavilion, a total of 17 members—including INPEX Corporation; Japan Oil, Gas and Metals National Corporation (JOGMEC); JX Nippon Oil & Gas Exploration Corporation; operators; and machinery and equipment manufacturers—are joining together with support from The Nippon Foundation in setting up booths to provide up-to-date information and introduce cutting-edge technologies. Visit us at the Japan Pavilion!

Booth Nos. 7045, 7053 and 7145



OTC2018

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CHUGOKU MARINE PAINTS, LTD.	
DAIDO STEEL CO., LTD.	
HIEN ELECTRIC INDUSTRIES, LTD.	
EAGLE INDUSTRY CO., LTD.	
Mitsubishi Heavy Industries Marine Machinery & Equipment Co., Ltd.	
SASAKURA ENGINEERING CO., LTD.	
SEMCO LTD.	
Wärtsilä Japan Ltd.	

JSMEA sets up new WG for developing overseas fishing vessel markets 20

EXHIBITORS	
Teikoku Machinery Works, Ltd.	
Ushio Reinetsu Co., Ltd.	
Yanmar Co., Ltd.	
INPEX CORPORATION	
Japan Agency for Marine-Earth Science and Technology	
MAYEKAWA MFG. CO., LTD.	
Nippon Paint Marine Coatings Co., Ltd.	
Tokyo Rope Mfg. Co., Ltd.	
ClassNK	
DAIDO STEEL CO., LTD.	
Daihatsu Diesel Mfg. Co., Ltd.	
Fuji Trading Co., Ltd.	
Hien Electric Industries, Ltd.	
Japan Drilling Co., Ltd. (JDC)	
Japan Oil, Gas and Metals National Corporation (JOGMEC)	
Shinko Ind. Ltd.	
JX Nippon Oil & Gas Exploration Corporation	





Load up with new opportunities!

Sea Japan 2018

11 (Wed) - 13 (Fri) - April 2018

Tokyo Big Sight Exhibition Center, East Halls 5 & 6 / 10:00~17:00

**Green Innovation & Digitalization
JAPAN: Leading the way to the future!**

www.seajapan.ne.jp

Japan Ship Machinery and Equipment Association (JSMEA) joins Sea Japan as Japan Pavilion, supported by the Nippon Foundation and consists of Japanese Maritime Cluster and JSMEA members.

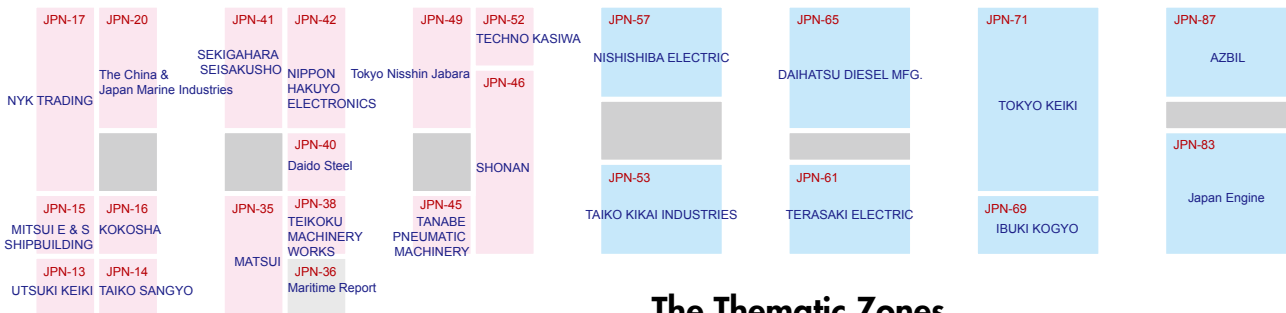
Japan Pavilion introduces cutting-edge technology, products and service of Japanese Maritime Cluster and JSMEA members.

NEW EVENT/ Research Vessel will be Opened to the Public!

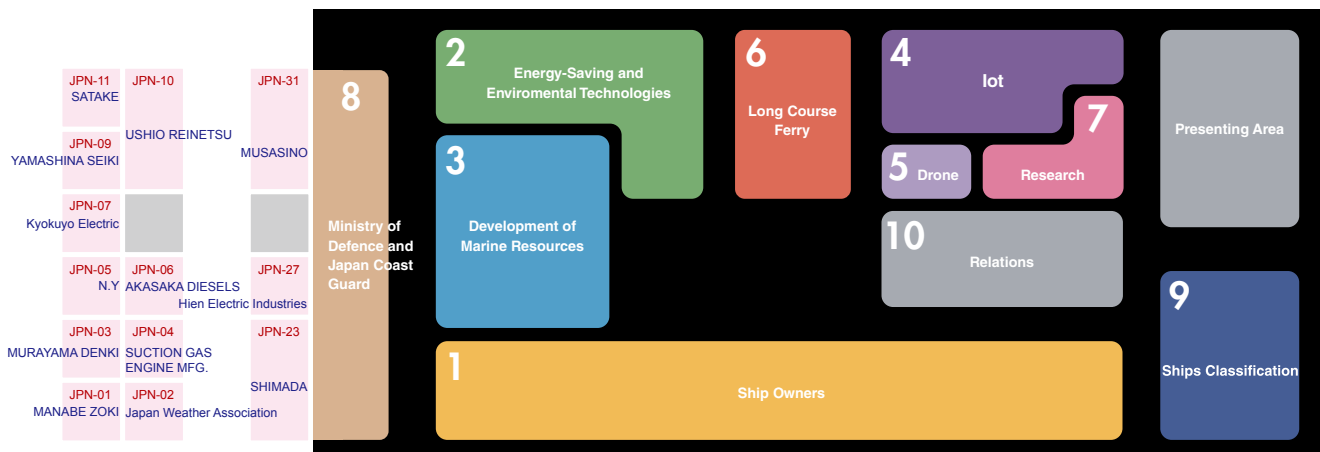
13(Fri) April JAMSTEC (Japan Agency for Marine-Earth Science and Technology) will open their ocean research vessel "YOKOSUKA" and "SHINKAI 6500" to the public! This will be the very unique opportunity to explore the inside of research vessel at Sea Japan.



Japan Pavilion Layout



The Thematic Zones



Sea Japan Seminars

International Maritime Seminar

Wednesday 11 April

9:30 ▶ 10:00	Opening Ceremony
10:00 ▶ 10:10	Session 1 : Keynote Speech Opening Address Ministry of Land, Infrastructure, Transport and Tourism
10:10 ▶ 10:35	Keynote Speech Mr. Mitsuyuki Unno, Executive Director, The Nippon Foundation
10:35 ▶ 11:00	Keynote Speech Norwegian Ministry of Trade, Industry and Fisheries
11:00 ▶ 11:10	Session 2 : Southeast Asia Maritime Summit Opening Remarks for Session 2 Moderator: Mr. Hiroaki Sakashita, Advisor, Nippon Hakuyohin Kentei Kyokai
11:10 ▶ 11:15	Japanese Maritime Industry and Southeast Asian Market Dr. Shinichiro Otsubo, Senior Deputy Director-General, Maritime Bureau Ministry of Land, Infrastructure, Transport and Tourism
11:15 ▶ 11:40	Current State and Future Prospects of Marine Industries in Southeast Asia Indonesia: Mr. Johnson W. Sutjito, Chairman, Indonesian National Shipowners' Association (DPP INSA) Malaysia: Mr. Abdul Haki Md Amin, Chairman, Malaysia Shipowners' Association Philippines: Mr. Roy R. Alampay, Chairman/President, Filipino Shipowners' Association Thailand: Mr. Bhumindr Harinsult, Chairman, Thai Shipowners' Association Singapore: Singapore Shipping Association(TBC)
11:40 ▶ 11:45	Future of Japanese Ship Machinery and Equipment Industry Mr. Masaharu Ono, Vice chairman, Japan Ship Machinery and Equipment Association
11:45 ▶ 12:25	Panel Discussion
12:25 ▶ 12:30	Closing Remarks



Sea Japan 2016

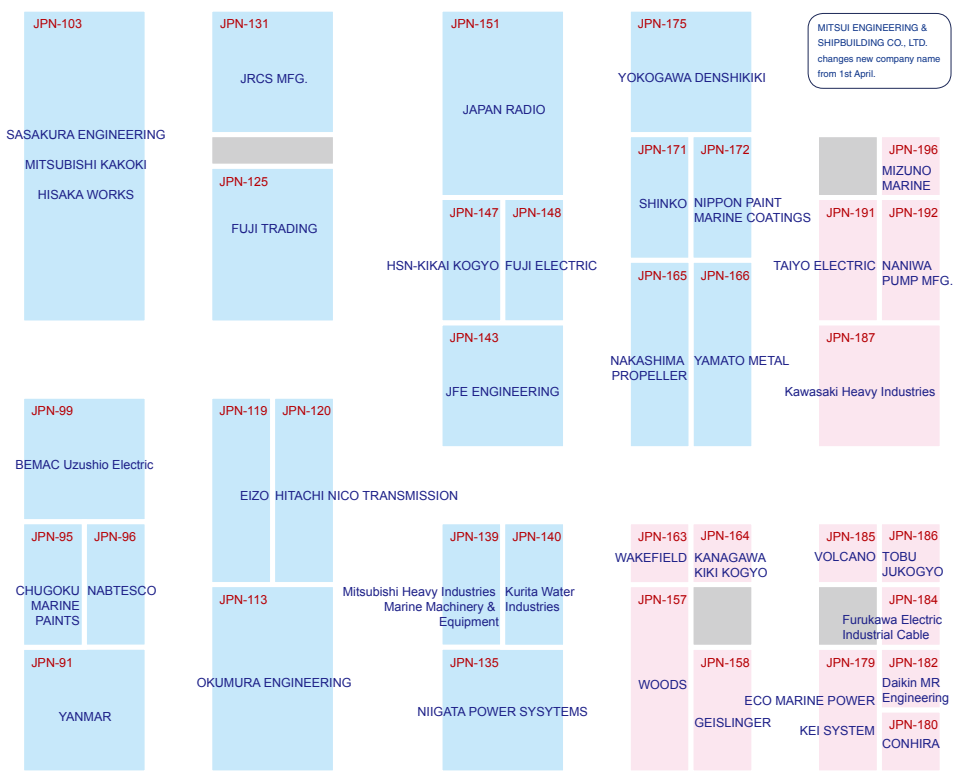
Ships and Marine Technology Seminar

Friday 13 April

10:30 ▶ 10:50	The Opening Address and Introduction of Maritime Policies (I-Shipping) Mr. Takemasa Minemoto, Director, Boat Affairs Office Shipbuilding and Ship Machinery Division Maritime Bureau
10:30 ▶ 10:50	R&D on Structural Health Monitoring for Large Container Carriers Mr. Yasushi Yamamoto, Deputy General Manager, Technical Group, NYK Line
11:40 ▶ 12:10	Enhancement of SPEEDS (Smart Platform of Enhanced Engineering Data for Shipping and Shipbuilding) -Information Platform for Maritime Industries to Realize the Innovative Use of Ship 3D Data- Professor Kunhiro Hamada, Dr. Eng, Chairman of the Project Research Committee P-55, Japan Society of Naval Architects and Ocean Engineers (Professor, HIROSHIMA UNIVERSITY)
13:10 ▶ 13:40	Maritime Innovation using Digital Technologies - From a Standpoint of Classification Society- Mr. Toshiyuki Matsumoto, Director of Research Institute, ClassNK
13:50 ▶ 14:35	Introduction of SSAP2 Project (1) The Role of Open Platform in the Coming Era of Ship Digitalization Dr. Hideyuki Ando, Senior General Manager, MTI (Chairman of Smart Ship Application Platform 2 (SSAP2) Project)
14:35 ▶ 14:55	(2) International Standardization Efforts from Japan to Promote the Use of Ship IoT Data (ISO/FDIS 19847,19848) ① Introduction of ISO/FDIS 19847 (Shipboard data server to share field data at sea) Mr. Takashi Yamada, Expert IT Innovation Management Group, UZUSHIO ELECTRIC CO., LTD.
14:55 ▶ 15:15	② Introduction of ISO/FDIS 19848 (Standard data for shipboard machinery and equipment) Mr. Mineyuki Morimoto, Assistant Manager Development and Design Section Development and Design Department System Division, TERASAKI ELECTRIC CO., LTD.
15:15 ▶ 15:50	(3) Activities of ShipDC, the Foundation for a 'Productivity Revolution' in Maritime Affairs, and Cooperation with the SSAP Project Mr. Takashi Nagatome, Representative Director and President Ship Data Center Co., Ltd.
16:00 ▶ 16:30	Opportunities to Use Engine-plant Simulators and Introduce the IoT in Maritime Affairs Education Mr. Takashi Miwa, Chairman, Research Committee for Engine-Plant Simulators, The Japan Institute of Marine Engineering (Kobe University, Graduate school of Maritime Sciences, Lecturer)

THE THEMATIC ZONE EXHIBITORS

Theme	Company Name
Ship Owners	Kawasaki Kisen Kaisha, Ltd. ("K" LINE)
	Mitsui O.S.K Lines, Ltd. (MOL)
	Nippon Yusen Kabushiki Kaisha (NYK Line) OCEAN NETWORK EXPRESS (JAPAN) LTD.
Energy-Saving and Environmental Technologies	USHIO REINETSU CO., LTD.
	Kamome Propeller Co., Ltd.
	KOBE STEEL, LTD.
	Japan Marine United Corporation
	TAIKO SANGYO CO., LTD.
	DAIHATSU DIESEL MFG. CO., LTD.
	TAIYO ELECTRIC CO., LTD.
	Chugoku Marine Paints, Ltd.
	NANIWA PUMP MFG. CO., LTD.
	Nabtesco Corporation
	NIIGATA POWER SYSTEMS CO., LTD.
	NGK INSULATORS LTD.
	The Hanshin Diesel Works, Ltd.
Volcano Co., Ltd.	
MITSUI E&S MACHINERY CO., LTD.	
Mitsubishi Heavy Industries Marine Machinery & Equipment Co., Ltd.	
Musasino Co., Ltd.	
Meiyo Electric Co., Ltd.	
Yanmar Co., Ltd.	
Development of Marine Resources	INPEX Corporation
	Japn Drilling Co., Ltd. (JDC)
	Japan Agency for Marine-Earth Science and Technology (JAMSTEC)
	Japan Oil, Gas and Metals National Corporation (JOGMEC)
	National Maritime Research Institute (NMRI)
	BEMAC Uzushio Electric Co., Ltd.
	Kawasaki Heavy Industries, Ltd.
	KOBE STEEL, LTD.
	Telikoku Machinery Works, Ltd.
	Nippon Paint Marine Coatings Co., Ltd.
	NIHON MARUKO CO., LTD.
	MANABE ZOKI CO., LTD.
	IoT
Japan Marine United Corporation	
Suzuki Shipyard Co., Ltd.	
TSUNEISHI SHIPBUILDING Co., Ltd.	
FUKUOKA SHIPBUILDING CO., LTD.	
Mitsui E&S Shipbuilding Co., Ltd.	
Mitsubishi Shipbuilding Co., Ltd.	
MITSUBISHI HEAVY INDUSTRIES MARINE STRUCTURE	
The University of Tokyo	
The Japan Society of Naval Architects and Ocean Engineers	
KOBE STEEL, LTD.	
Nippon Paint Marine Coatings Co., Ltd.	
MANABE ZOKI CO., LTD.	
Drone	NIPPON KAIJI KYOKAI (ClassNK)
	Tsuneishi Holdings Corporati / V-cube Robotics, Inc.
	Sony Business Solutions Corporation NEC Corporation
Long CouLong Course Ferrysse Ferry	Ocean Trans Co., Ltd.
	MOL Ferry Co., Ltd.
	Shinnihonkaiferry Co., Ltd.
	Taiheiy Ferry Co., Ltd.
	Hankyu Ferry Co., Ltd.
	Ferry Sunflower Limited Miyazaki Car Ferry Co., Ltd. Meimon Taiyo Ferry Co., Ltd
Research	The University of Tokyo
	Tokyo University of Marine Sciane and Technology
	Yokohama National University Japan Ship Technology Research Association Shipbuilding Research Centre of Japan
Ministry of Defence and Japan Coast Guard	Japan Coast Guard (JCG)
	MINISTRY OF DEFENSE Acquisition, Technology & Logistics Agency (ATLA)
Ships Classification	NIPPON KAIJI KYOKAI (ClassNK)
Relations	Ministry of Land, Infrastructure, Transport and Tourism (MLIT)
	The Shipbuilders' Association of Japan (SAJ)
	The Cooperative Association of Japan Shipbuilders (CAJS)
	Japan Ship Machinery and Equipment Association (JSMEA)



JSMEA makes debut at IFC in Russia

Japan Ship Machinery and Equipment Association (JSMEA) attended the International Fishery Congress (IFC) in Vladivostok, Russia for the first time on Oct. 5-6, 2017. With financial assistance from The Nippon Foundation, Mr. Katsuhiko Fujiwara, vice-chairman, JSMEA/chairman, JSMEA's Overseas Market Development Committee (executive officer, Yanmar Co., Ltd./general manager, Yanmar's Tokyo Office) and Mr. Shuzo Ueda, leader of JSMEA's Overseas Fishing Vessel Market Development Working Group (general manager, Marine Business Department, Marine System Division, Japan Radio Co., Ltd.) led a delegation of nine member companies. It was the third time that JSMEA had organized a market development project in Russia, with the previous two being seminars in Vladivostok and St. Petersburg, in 2013 and 2014, respectively.

The 12th IFC welcomed 770 attendees over two days (496 on Day 1 and 272 on Day 2), which attested to the popularity of the event. Many individuals in the public and private sectors came from all over Russia, including officials of the central and local governments engaged in the seafood business, representatives of fisheries organizations and fishing vessel owners. The attendees also included those from 15 other economies (refer to the outline of the 12th IFC below). JSMEA was a sponsor in the congress.

As part of the efforts that JSMEA launched earlier

in fiscal 2017 to develop markets for fishing vessels outside Japan, its participation at the IFC was to meet the growth in worldwide demand for fisheries products. The association aimed to collect information also on the fishing boat market and relevant policies of Russia, where plans were on the table to modernize the local fishing industry and to construct newbuildings to replace aging vessels. Furthermore, JSMEA sought to extensively promote machinery and equipment for fishing vessels made in Japan and relevant services provided by Japanese manufacturers.

At the opening session on Day 1, Mr. Noboru Ando, managing director, JSMEA, introduced Mr. Fujiwara, Mr. Ueda and member companies, giving the speech entitled "Innovations in the Fisheries Industry—Momentum of Effective Use and Conservation of the Global Sea Wealth", which was the main topic of the 12th IFC. Mr. Ando emphasized that Japanese ship machinery and equipment manufacturers can contribute to the modernization of fishing vessels and technologies in Russia.

A roundtable session was held on Day 2, focusing on prospects for investment in and development of the fisheries industry. Mr. Fujiwara gave the opening address, followed by the attending members introducing the latest of their respective technologies and products.

JSMEA had a Japan desk near the conference hall on both days, and attracted so many visitors that members

JSMEA pays courtesy call at RS



Mr. Pavel Shikov (front row, center) and Mr. Andrey Surzhenko, surveyor, RS (front row, right)

JSMEA pays courtesy visit to Consulate-General of Japan in Vladivostok



Mr. Tatsuhiro Kasai, consul-general of Japan in Vladivostok (seated, center)



Day 1 at the 12th IFC



Attending companies give presentations on Day 2.



Day 2 at the 12th IFC



quickly ran out of the catalogs they had brought from Japan. The association continued to work during a reception that it organized after the event to build relations with interested parties from Russia and market members' products by distributing their catalogs. JSMEA had produced a Russian-language booklet to introduce the attending member companies, which was included in the package of materials prepared by the IFC and distributed to attendees.

Taking advantage of the trip made to attend the 12th IFC, a JSMEA delegation visited Mr. Pavel Shikov, new chief operating officer at the Far East branch office of the Russian Maritime Register of Shipping (RS). JSMEA also visited Mr. Tatsuhiro Kasai, consul-general of Japan in Vladivostok, at the consulate-general. At that time, the consulate outlined the economies of coastal areas in Russia. Members asked consulate staff questions about local fisheries affairs and exchanged views on similar subjects.

JSMEA will report findings from its trip to Russia to discuss future related actions when convening meetings of its Overseas Market Development Working Group, Overseas Fishing Vessel Market Development Working Group, Overseas Market Development Committee, Global Strategic Plan Review Board and other in-house units.

JSMEA members attending 12th IFC:

- Akasaka Diesels Ltd.;
- The Hanshin Diesel Works, Ltd.;
- Isodametal Co., Ltd.;
- Kamome Propeller Co., Ltd.;
- Maekawa Mfg. Co., Ltd.;
- Nagasaki Marine Service Co., Ltd.;
- Nippon Paint Marine Coatings Co., Ltd.;
- Taiyo Electric Co., Ltd.
- Yanmar Co., Ltd.

Outline of 12th IFC

- 1) Dates:** Oct. 5-6, 2017
- 2) Venues:** Large Hall, Administration of Primorsky Region (Oct. 5) and Diamond Hall, Business Center, Hotel Hyundai (Oct. 6)
- 3) Organizers:** Association of Primorye Fish Industry Companies, Far East Crab Catchers Association, Far Eastern Union of Mariculture Enterprises, government of Primorye Krai and Pollack Catchers Association
- 4) Sponsors:** JSMEA, Marine Bank, Marine Services Group (MSG), Mitsubishi Marine Engine and PocrocCTpax
- 5) Countries with exhibitions:** Australia, Canada, Chile, China, France, Iceland, Japan, Netherlands, Norway, Russia, South Korea, Thailand, U.S., U.K. and Vietnam
- 6) Proceedings:**
 - <Oct. 5>
 - Registration of participants
 - Opening ceremony
 - Plenary session: "Innovations in the Fisheries Industry—Momentum of Effective Use and Conservation of the Global Sea Wealth, its Impact on the World Market"
 - Roundtable discussion 1: "Information Technologies and Innovations in Fisheries for the State and Business"
 - State reception (on behalf of Mr. Vladimir V. Miklushevsky, governor, Premorsky)
 - <Oct. 6>
 - Registration of participants
 - Roundtable discussion 2: "Aquaculture and Fisheries Partnerships or Competition"
 - Roundtable discussion 3: "Prospect of Investment Development of the Fisheries Industry," "Innovation Projects" and "Russian and International Practices"
 - Closing: summary of meeting and adoption of final resolution



Members talk to visitors at the Japan desk.



A grand reception is organized at the 12th IFC.



JSMEA, ClassNK Organize Philippines-Japan Business Matching Forum

Japan Ship Machinery and Equipment Association (JSMEA) organized a “Japan Day” event on Feb. 22 in Manila. It was co-hosted by Nippon Kaiji Kyokai (ClassNK) and financially supported by The Nippon Foundation.

Following a seminar on seafarer-related matters that ClassNK held in the morning, JSMEA together with the classification society in the afternoon convened a Philippines-Japan Business Matching Forum. The forum was inaugurated with the opening address by Mr. Katsuhiko Fujiwara, vice-chairman of JSMEA, encouraging 11 member companies to give presentations on their latest products and other features, focusing on energy saving, after-sales services and eco-friendliness.

JSMEA and ClassNK had the following leaders give briefings on up-to-date maritime affairs in the

Philippines: Mr. Dario R. Alampay, Jr., chairman of the Filipino Shipowners Association (FSA); Mr. Christopher S. Pastrana, chairman of Philippine Inter-Island Shipping Association, Inc. (PISA); and Mr. Jesse Ho Maxwell, chairman of Philippine Petroleum Sea Transport Association, Inc. (PHILPESTA).

Prior to holding the Philippines-Japan Business Matching Forum, JSMEA and ClassNK had received great cooperation from the Maritime Industry Authority (MARINA) as well as the FSA, PISA and PHILPESTA. They strived to carry out public relations activities to widely circulate information on the event to parties concerned with maritime affairs in the Philippines. As a consequence, the forum venue was filled with many local guests, which numbered some 170 (not including those from Japan). The meeting was so

JSMEA pays courtesy call to MARINA



Mr. Ramon C. Hernandez, director II, Shipyard Registration Service, MARINA (seated, left); Ms. Sonia B. Malaluan, director II, Domestic Shipping Service, MARINA (seated, right); Mr. Shoichi Kitamura, executive managing director, JSMEA (standing, second from right) and Mr. Noboru Ando, managing director, JSMEA (standing, far right)



Mr. Katsuhiko Fujiwara gives the opening address.



Mr. Dario R. Alampay, Jr. delivers a presentation.



Mr. Christopher S. Pastrana gives a briefing on maritime affairs.



Mr. Jesse Ho Maxwell also appears on stage for a speech.

successful as to see none of the attendees leave in the middle, and came to an end with the closing address by Mr. Reijiro Urabe, leader of JSMEA's Overseas Market Development Working Group.

Right outside the forum venue, the 11 JSMEA members prepared desks for business negotiations, making efforts to exchange information with local customers and potential customers.

After the Philippines-Japan Business Matching Forum, JSMEA teamed up with ClassNK again to organize a networking reception. Mr. Koichi Fujiwara, chairman and president of the classification society, gave the opening remarks. Members of the JSMEA mission developed relations with many representatives from the Filipino maritime industry, as many of the Japan Day guests continued to attend the reception.

JSMEA plans to report findings from its attendance at the Philippines-Japan Business Matching Forum when convening meetings of its Overseas Market Development Committee, Overseas Market Development Working Group, Global Strategic Plan Review Board and other in-house units to discuss what actions it can take in the future.



A memorial photo of attendees

Outline of "Japan Day" Philippines-Japan Business Matching Forum

Date: Thursday, Feb. 22, 2018
Venue: Diamond Hotel Philippines
URL: <http://www.jsmea.or.jp/en/seminar/2018/philippines/>
Attending JSMEA members: Daihatsu Diesel Mfg. Co., Ltd.; The Hanshin Diesel Works, Ltd.; Kanagawa Kiki Kogyo Co., Ltd.; KEMEL Asia Pacific Pte. Ltd.; Nabtesco Corporation; Nakashima Propeller Co., Ltd.; Taiko Kikai Industries Co., Ltd.; Taiyo Electric Co., Ltd.; Uzushio Electric Co., Ltd. Volcano Co., Ltd. and Yanmar Co., Ltd.



The forum venue is filled to capacity.



The forum venue is filled to capacity.



JSMEA members prepare tables for business negotiations.



Mr. Reijiro Urabe gives the closing address.



Ms. Sonia B. Malalauan delivers a speech during the reception.

JSMEA attends Marintec China 2017

Japan Ship Machinery and Equipment Association (JSMEA) attended, with financial support from The Nippon Foundation, Marintec China 2017 at the Shanghai New International Expo Centre on Dec. 5-8.

JSMEA opened its Japan Pavilion together with 28 member companies and Nippon Kaiji Kyokai (ClassNK) to welcome many visitors throughout the event, taking advantage of the pavilion's prime location close to a venue entrance, where other major countries had their national pavilions.

A presentation area was set up at the Japan Pavilion, where nine members were situated to make introductions and showcase their respective products. Many visitors stopped by the area for the presentations, indicating that it was effective enough to attract visitors to the pavilion and provide them with information.

Marintec China, one of the greatest exhibitions in Asia, was held for the 19th time last year. According to the organizers, approximately 2,100 exhibitors from 31 economies were present, while the number of visitors was some 65,000.

On Dec. 4, a day before the opening of Marintec

China 2017, Mr. Shinzo Yamada, chairman of JSMEA (president of Taiyo Electric Co., Ltd.) and other executives paid a courtesy visit to the Consulate-General of Japan in Shanghai. The delegation met with Mr. Kazuyuki Katayama, consul-general, and exchanged views and opinions on an outline of the exhibition as well as the present state of the Japanese ship machinery and equipment industry and China.

On Dec. 5, at the start of Marintec China 2017, an opening ceremony was conducted for the Japan Pavilion. Mr. Yamada was joined by Mr. Katayama and Mr. Junichiro Iida, executive vice-president of ClassNK, to cut the ribbon. The consul-general visited and boosted exchanges with exhibitors at the pavilion.

In the afternoon, a meeting was convened among JSMEA's chairman, vice-chairmen and Mr. Guo Dacheng, president of the China Association of the National Shipbuilding Industry (CANSI). They exchanged information and opinions on Chinese shipbuilding as well as Chinese and Japanese ship machinery and equipment industries.

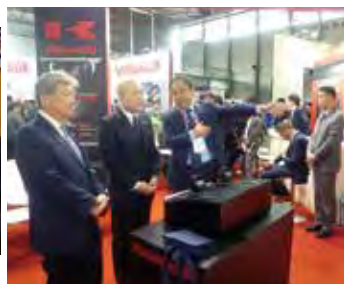
In the evening, JSMEA teamed up with ClassNK

JSMEA pays courtesy visit to Consulate-General of Japan in Shanghai



Mr. Shinzo Yamada (seated, left); Mr. Kazuyuki Katayama (seated, right); Mr. Shoichi Kitamura (standing, third from left); Mr. Masayuki Miyachi, consul (standing, third from right) and Mr. Noboru Ando (standing, second from right)

Consul-General Katayama visits Japan Pavilion



Japan Pavilion



Opening ceremony for Japan Pavilion



From left: Mr. Junichiro Iida, Mr. Kazuyuki Katayama and Mr. Shinzo Yamada

Presentations given at Japan Pavilion



to organize a get-together in Shanghai to encourage representatives from the Japanese shipbuilding and ship machinery and equipment industries to build relations with their Chinese counterparts. The event was attended by approximately 200 people, including Mr. Katayama. From China, Mr. Guo and some 70 other individuals concerned with maritime affairs were present. A lottery was held during the party, through which attendees received gifts donated by JSMEA members and ClassNK. The get-together concluded with a jovial air.

Outline of JSMEA attendance at Marintec China 2017

- 1) Area of exhibitions: 730 square meters
- 2) Number of exhibitors: 28 (27 running booths and one displaying panels)
- 3) Exhibitors running booths (alphabetical order): Daihatsu Diesel Mfg. Co., Ltd.; Daikin MR Engineering, Ltd.; Fuji Trading Co., Ltd.; Ibuki Kogyo Co., Ltd.; Japan Engine Corporation; JFE Engineering Corporation; Kamome Propeller Co., Ltd.; Kawasaki Heavy Industries, Ltd.; Kanagawa Kiki Kogyo Co., Ltd.; Manabe Zoki Co., Ltd.; Marine Hydrotec Co., Ltd.; Mitsubishi Heavy Industries Marine Machinery and Equipment Co., Ltd.; Mitsubishi Kakoki Kaisha, Ltd.; Musasino Co., Ltd.; Nabtesco Corporation; Nakashima Propeller Co., Ltd.; Naniwa Pump Mfg. Co., Ltd.; Nico Precision Co., Ltd.; Niigata Power System Co., Ltd.; Nippon Hakuyo Electronics, Ltd.; Nippon Paint Marine Coatings Co., Ltd.;

Shinko Ind. Ltd.; Taiyo Electric Co., Ltd.; Tanabe Pneumatic Machinery Co., Ltd.; Ushio Reinetsu Co., Ltd.; Uzushio Electric Co., Ltd. and Yanmar Co., Ltd./displaying panels: Riken Corporation

Outline of Meeting with CANSI

- 1) Time/date: 17:15-18:00/Tuesday, Dec. 5, 2017
- 2) Venue: VIP Room, 7th floor, Oriental Riverside Hotel Shanghai
- 3) Members—(JSMEA): Mr. Shinzo Yamada, chairman (president of Taiyo Electroc Co., Ltd.); Mr. Shigeki Kinoshita, vice-chairman (president of Daihatsu Diesel Mfg.Co.,Ltd.); Mr. Masaharu Ono, vice-chairman (chairman of Fuji Trading Co., Ltd.); Mr. Yukio Furuno, vice-chairman (president of Furuno Electric Co., Ltd.); Mr. Katsuhiko Fujiwara, vice-chairman (executive officer and Tokyo Office general manager of Yanmar Co., Ltd.); Mr. Shoichi Kitamura, executive managing director; and Mr. Noboru Ando, managing director/(CANSI): Mr. Guo Dacheng, president; Ms. Tan Nai Fen, vice-secretary-general; Mr. Zheng Yi Ming, deputy director and Mr. Xie Yu, assistant director

Outline of Japan-China shipbuilding/ship machinery and equipment get-together

- 1) Time/date: 18:30-20:30/Tuesday, Dec. 5, 2017
- 2) Venue: Pearl Room, 7th floor, Oriental Riverside Hotel Shanghai
- 3) Guests: Mr. Guo Dacheng, Mr. Kazuyuki Katayama and approximately 70 individuals from China concerned with maritime affairs

JSMEA meets with CANSI



From left: Mr. Guo Dacheng and Mr. Shinzo Yamada



Seated, from left: Mr. Guo Dacheng and Mr. Shinzo Yamada. Standing, from left: Mr. Xie Yu, Mr. Zheng Yi Ming, Ms. Tan Nai Fen, Mr. Shigeki Kinoshita, Mr. Masaharu Ono, Mr. Yukio Furuno, Mr. Katsuhiko Fujiwara, Mr. Shoichi Kitamura and Mr. Noboru Ando

Japan-China shipbuilding/ship machinery and equipment get-together



Mr. Shinzo Yamada gives an address on behalf of JSMEA.



Mr. Junichiro Iida extends greetings on behalf of ClassNK.



Mr. Kazuyuki Katayama proposes a toast.



Mr. Guo Dacheng returns greetings as a guest.



Mr. Masaharu Ono makes closing remarks.

JSMEA joins International WorkBoat Show 2017

Japan Ship Machinery and Equipment Association (JSMEA), accompanied by three member companies, took part in the International WorkBoat Show 2017 in New Orleans on Nov. 29-Dec. 1, 2017.

The International WorkBoat Show exhibits offshore support vessels (OSVs), towboats for cargo barges, patrol vessels, tugboats and fishing vessels operated in U.S. coastal waters and rivers as well as other markets. It is attended by more than 1,000 enterprises, including marine architects, shipbuilders and ship machinery and equipment manufacturers. In the past, engine, navigational instrument and other Japanese makers, including JSMEA members, had showcased their products and services at the event individually. In response to mounting interest in U.S. workboats among member companies, JSMEA decided to attend the show for the first time in 2016, making last year's appearance the second time.

At the International WorkBoat Show 2017, JSMEA—which teamed up with Maritime Reporter and Engineering News, a U.S. magazine covering maritime affairs—opened a booth near a venue entrance, where there was heavy traffic from its many visitors. At the booth, printed media were distributed with information on members' products for different categories, such as general commercial vessels, OSVs and fishing boats, as well as contact details. JSMEA also visited U.S. shipyards, ship designers and other participants to promote members' products and

services. When visiting the Conrad Shipyard, LLC booth, JSMEA reunited with Mr. Scott J. Theriot, executive vice-president and COO, again marketing members' products and services. JSMEA called at the shipyard in 2016, which won a contract earlier in 2017 to build a liquefied natural gas (LNG) bunker barge.

To enhance its relations with OSV owners, JSMEA paid a visit to the head office of the Offshore Marine Service Association (OMSA), a New Orleans-based organization of ship owners, for sales and marketing activities for members.

The JSMEA mission also inspected the engine room of a steamboat, which moves steam pistons to spin paddle wheels, run on the Mississippi River.

JSMEA decided to report findings from the International WorkBoat Show 2017 and the views it had gathered from exchanges with local enterprises when the Global Strategic Plan Review Board and other in-house units convene meetings, and to continue to hold discussions to develop markets overseas.

Outline of JSMEA participation in International WorkBoat Show 2017

- 1) Area of Japan booth: 18 square meters
- 2) Number of exhibitors: 3 (Naniwa Pump Mfg. Co., Ltd.; Taiyo Electric Co., Ltd. and Takashina Life Preservers Co., Ltd.)

JSMEA opens Japan booth at International WorkBoat Show 2017



The Japan booth enjoys its good location near an entrance.



Many non-JSMEA enterprises from Japan are also present.



JSMEA inspects steamboat



In the engine room, steam pistons are on the left, while on the right are steam condensers.



Ships are operated on the Mississippi River route.

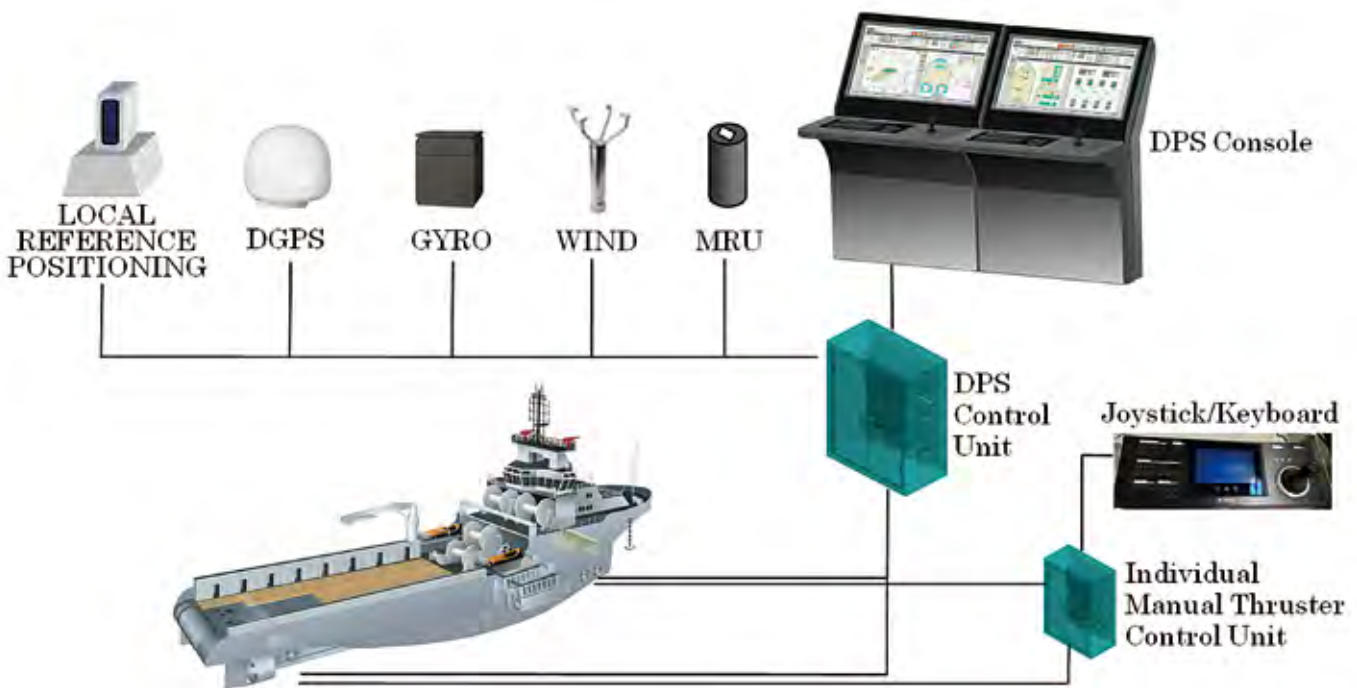
BEMAC

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.



Type Approval

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



DPS Control Mode

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

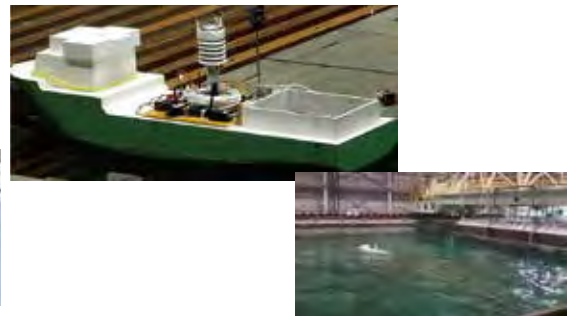
Overview of Display

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



Model Ship Test

We manufactured a 1/40 sized offshore support model ship and we ran a station keeping test in the tank against the wind and wave assumed on the real ocean.



BEMAC

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Spectacular Performance of CMP's High-end Antifouling

SEAFLO NEO CF PREMIUM, a premium antifouling of CMP has been on the market since last year 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 100 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 “Selektope?” (Medetomidine) developed by pharmacological approach.

In 2018 onward, **SEAFLO NEO CF PREMIUM** continues to be adopted 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.



CHUGOKU MARINE PAINTS, LTD.

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New material for exhaust valve spindle "DSA760"

Outline

Daido Steel Co.,Ltd. developed "DSA760" material. "DSA760" has superior properties such as high hardness and excellent corrosion resistance to many chemicals at high temperature.

Chemical composition [Table.1]

High Cr content and appropriate Al content achieve high hardness and good corrosion resistance at high temperature.

Corrosion resistance [Fig.1]

Excellent corrosion resistance against sulfur and vanadium salt in comparison to NIMONIC80A.

Mechanical strength [Fig.2]

Mechanical strength is almost equal as NIMONIC80A.

Production capability [Table.3]

Daido Steel Co.,Ltd. can supply various sizes of exhaust valve spindle.

Achievement

Daido Steel Co.,Ltd.has applied "DSA760" for exhaust valve spindle of ship 2-stroke diesel engine for several years.

"DSA760" is realized ;

- Smaller bottom burn off rate than NIMONIC80A.
- Excellent spindle seat condition with no dent mark.

[Manufacturing]



Initial product of DSA760 exhaust valve spindle



Table.1 Typical chemical composition of materials for exhaust valve spindle (wt%)

Material	Ni	Cr	Mo	Nb+Ta	Ti	Al
DSA760	Balanced	37.0-39.0	—	—	—	3.0-4.0
NIMONIC80A	Balanced	18.0-21.0	—	—	1.8-2.7	1.0-1.8
INCONEL625	≥ 58.0	20.0-23.0	8.0-10.0	3.15-4.15	≤ 0.40	≤ 0.40

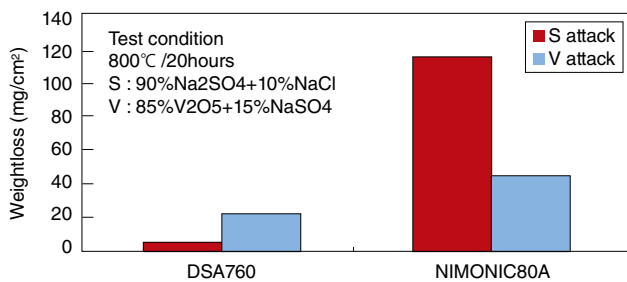


Fig.1 Corrosive weight loss by sulfur and vanadium salt coating tests at 800°C for 20hours.

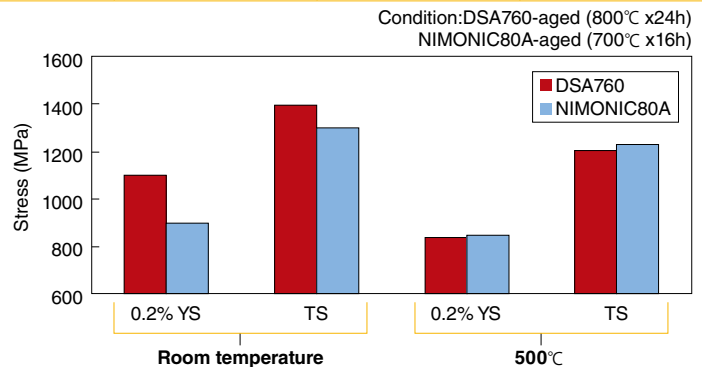
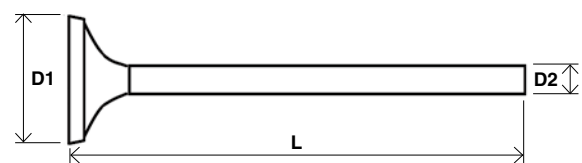


Fig.2 Tensile strength at room temperature and 500°C.

Table.3 Production capability of DSA760 valve spindle

Dimension	
D1	Max.540mm
D2	Max.120mm
L	Max.2200mm



Remarks:INCONEL and NIMONIC are trademarks of the Special Metals Corporation group of companies. DSA is trademarks of the Daido Steel Co.,LTD.



Daido Steel Co.,Ltd.

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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

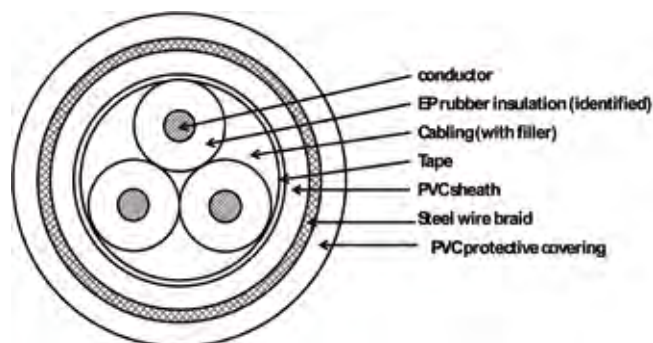
stringent specifications.

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)

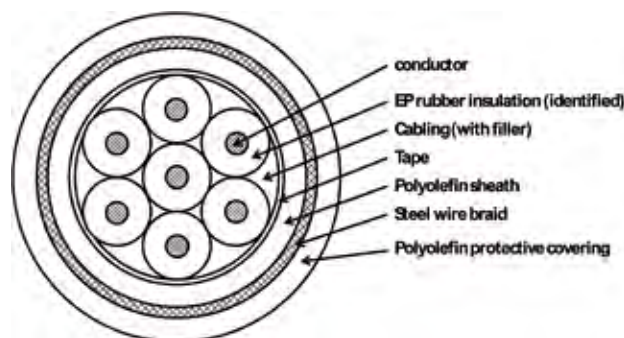
JIS TYPE cables

- 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.

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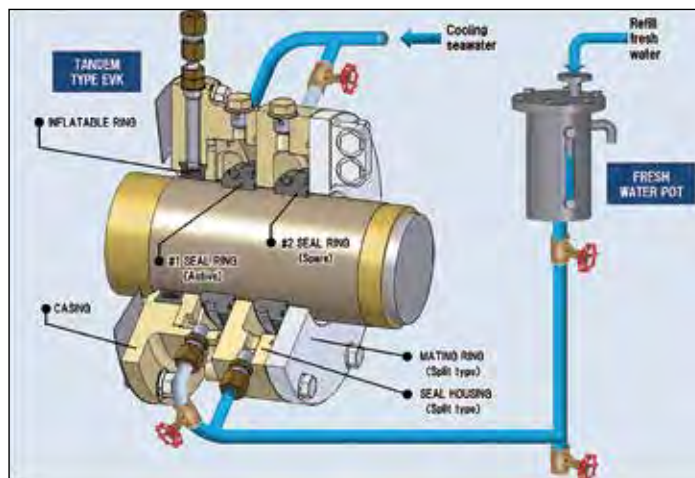
KEMEL

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**

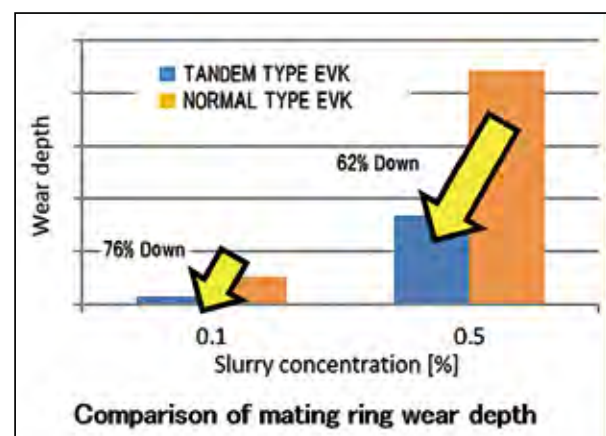
PATENTED

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)



KEMEL

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Low-grade waste heat utilization by ORC generator

Mitsubishi Organic Rankine Cycle (ORC) generator converts low grade waste heat of main engine jacket cooling water into electric power. Mitsubishi Heavy Industries Marine Machinery & Equipment Co., Ltd. (MHI-MME) has developed compact and highly efficient ORC generator for marine application in cooperation with Calnetix Technologies, a high-speed generator and magnetic bearing specialist in US. It can make electric power of 125kW (gross) by taking out heat of hot water from main diesel engine of about 10MW or larger.

The first prototype was retrofitted on a large container ship owned by Maersk Line in April 2016 as shown in Figure 1, and has been running

on board, proving high reliability, efficiency and maintenance free operation.

After careful study of the generator skid layout, new arrangement has been designed by MHI-MME (Figure 2), in order to reduce footprint, overall dimension and manufacturing / installation cost.

Integrated Power Module (IPM) the heart of ORC integrates single stage expander turbine and high-speed synchronous alternator. The rotor, consist of a radial expander wheel and rotor with permanent magnet, is supported by friction free magnetic bearings. (Figure 3) This enables no oil supply, low noise and fully closed circuit for working fluid.



Figure 1 ORC generator on board

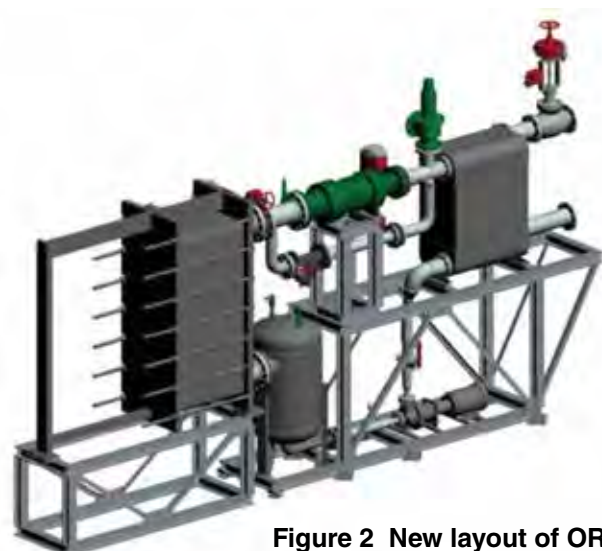


Figure 2 New layout of ORC

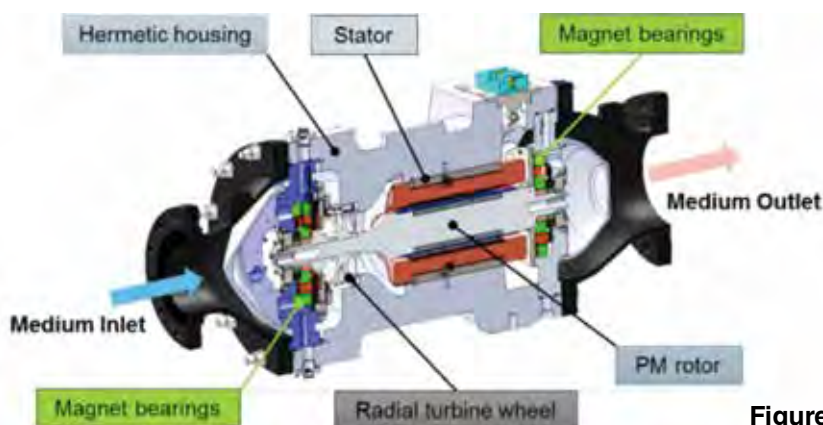


Figure 3 Construction of IPM



Sasakura's X Series Fresh Water Generators for Marine Use

The number of delivered Sasakura's Fresh Water Generator for marine use which the latest type is X Series has surpassed 13,000 units since their introduction to the market in 1961.

Since its foundation in 1949, Sasakura Engineering Co., Ltd. has been manufacturing and marketing seawater desalination plants for both marine and land applications, ranging in daily production capacity from hundreds of liters to hundreds of thousands of tons. X Series Fresh Water Generators for marine use constitutes one of its diverse categories of seawater desalination plants. Mainly installed aboard motor ships, they are Tubular Type Fresh Water Generators which utilize the waste heat of diesel engine jacket cooling water. The daily water production capacity ranges from three (3) tons to hundred (100) tons, and the cooling seawater and water ejector-driven seawater feeding system can be selected from two (2) different types (XE and XM types). Having the following notable features, Sasakura's Fresh Water Generators are well accepted by their users and are in active service over the seven seas:



Features of Fresh Water Generator series X

(1)Applying special heat transfer tube "XCOT"

"XCOT" achieves higher performance of Fresh Water Generator compared with previous series K. Also, Fresh Water Generator series X is smaller than previous series K.

(2)Applying Turning Style Heater

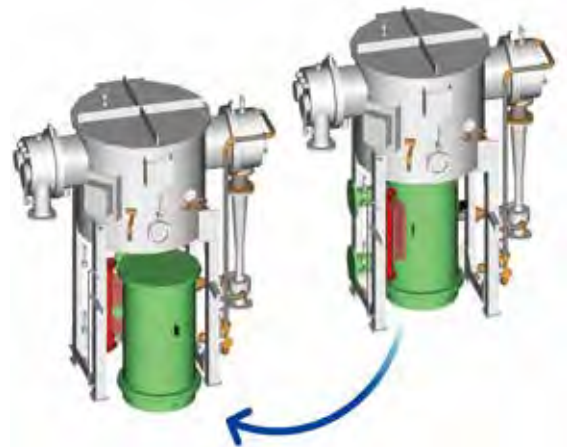
Turning Style Heater enables easier checking and/or maintenance of heater tube.

(3)Distilled water of high purity

A double-structured mist separating mechanism in the evaporation chamber, consisting of a deflector and a mesh separator, ensures stable supply of distilled water of high purity.

(4)Simple operational procedure

Only simple actions are needed at the time of starting and stopping. Once the generator shifts into steady state operation, neither monitoring nor manipulation is required. In addition to it, Fresh Water Generator series X can apply 95°C of jacket cooling water temperature.



Sasakura continues to try their best to improve their products which quality is high in order to meet clients'/market's needs.



SASAKURA ENGINEERING CO., LTD.

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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 LTD.

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Wärtsilä introduces its Smart Marine Ecosystem vision

Wärtsilä Marine Solutions enhances the business of its marine and oil & gas industry customers by providing innovative products and integrated solutions that are safe, environmentally sustainable, efficient, flexible, and economically sound. Being a technology leader, and through the experience, know-how and dedication of its personnel, Wärtsilä is able to customise solutions that provide optimal benefits to its customers around the world.

Wärtsilä is leading the industry's transformation into a new era of efficiency with a Smart Marine Ecosystem comprising high levels of connectivity and digitalisation. The Smart Marine Ecosystem is about efficient use of resources, least climate impact and highest safety. Our purpose is to enable sustainable societies with smart technology. By eliminating the inefficiency 'waste' that hampers the industry's growth and profitability, Wärtsilä aims to create a smarter way of operating and maintaining assets. The company is dedicated to optimising performance, and achieving the safest, most environmentally sustainable and efficient operating profiles for its customers.

Our strong development in product offering combined with know-how and vast installed base gives us a unique platform for that leap. We have the vision, a strong legacy and the expertise of our people. We continue to develop products and services together with customers, for the benefit of our customers. By doing so we will be shaping the industry together.



Our evolution from today takes us from a product and total solutions supplier to leading the industry transformation towards a Smart Marine Ecosystem.



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JSMEA sets up new WG for developing overseas fishing vessel markets

Japan Ship Machinery and Equipment Association (JSMEA) set up a new in-house working group (WG) earlier this fiscal year to consider developing fishing vessel markets overseas. It took the step in response to growth in recent years in demand for constructing fishing vessels in newly industrialized economies in Asia and other regions.

To find such markets, it is important to gather and exchange information. The Overseas Fishing Vessel Market Development WG intends to conduct market research and hold study sessions in the future to expand the sales of Japanese machinery and equipment products for fishing vessels not only in the Japanese market, but also in fishing vessel markets in other countries and regions.

WG members attended the International Fishery Congress in October 2017 in Vladivostok, Russia, where fishing industry insiders gathered from all over the country, to market said products. They also plan to take part in Nor-Fishing, an international gathering of fishery industries in Trondheim, Norway, in August 2018. The members hope to partake in a variety of activities, including getting a firsthand look at some of the Nordic nation's leading-edge fishing vessels.



A list of Japan-made machinery and equipment for fishing vessels is also available on JSMEA's website.

http://www.jsmea.or.jp/index_en.html



Product Name	Model	Capacity	Power	Remarks
...
...

Manufacturer	Product Name	Model	Capacity	Power	Remarks
...
...



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