



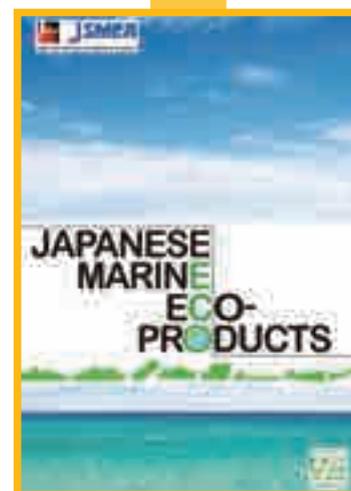
Jsmea News



Japan Ship Machinery and Equipment Association

JSMEA makes booklet of eco-friendly products available online

Japan Ship Machinery and Equipment Association (JSMEA) has produced a booklet to introduce the eco-friendly ship machinery and equipment products that are manufactured and sold by its members. Copies are distributed widely among attendees at participating international exhibitions and its seminars held worldwide. The association recently made the booklet available on the Internet. The online version contains information on products for offshore oil and gas development projects as well. JSMEA plans to actively demonstrate the Web site at the exhibitions it will attend and future seminars it plans to organize.



"Japanese marine equipment supporting for OFFSHORE"

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JSMEA participates in OTC 2015

Japan pavilion to be organized at OTC 2016

Japan Ship Machinery and Equipment Association (JSMEA) participated in Offshore Technology Conference 2015 (OTC 2015). OTC is one of the world's largest exhibitions for the offshore oil and gas business. The 47th conference was held on May 4-7 in Houston, Texas. JSMEA, which also attended the event last year, has now been to a total of three OTC exhibitions.

OTC 2015 welcomed 94,700 visitors, which was the sixth largest attendance in the exhibition's history, though down from the record 108,300 visitors registered last year. Declines in oil prices are thought to have had an adverse impact.

This year, JSMEA made use of its brochure and Web site (<http://www.jsmea.or.jp/offshore/>) to promote Japanese machinery and equipment for offshore development projects. It ran a booth together with Nippon Kaiji Kyokai (ClassNK). From the JSMEA side, member companies Kawasaki Heavy Industries, Ltd., Nitto Chemical Industry Co., Ltd. and Yamazaki Machinery Manufacturing Co., Ltd., marketed their respective products and

services.

JSMEA, which had a booth in the arena during its two prior attendances at OTC, promoted its presence this year at the tent pavilion, which attracts more people. Consequently, it greeted a greater number of visitors than last year. The association concluded that its products and services achieved successful marketing.

At OTC 2015, JSMEA organized a networking reception for offshore oil and gas businesses for the first time. In doing so, the association and New Wave Media, Inc. of the United States worked hand in hand to make the best of their respective networks. The reception was attended by approximately 120 people, leading JSMEA to view the event as highly successful. The attendees represented enterprises from a wide variety of business fields from many countries, such as offshore oil and gas developers Exxon Mobile Corporation, INPEX Corporation, Japan Petroleum Exploration Co., Ltd. (JAPEX) and Sakhalin Oil and Gas Development Co., Ltd. Others included

JSMEA mission visits MODEC International



Mr. Katsuyuki Imaizumi, vice-president, sales and marketing
 Dr. Osamu Niho, executive managing officer
 Mr. Hideki Shuto, general manager, Engineering Department
 Mr. Hajime Kanda of director, sales



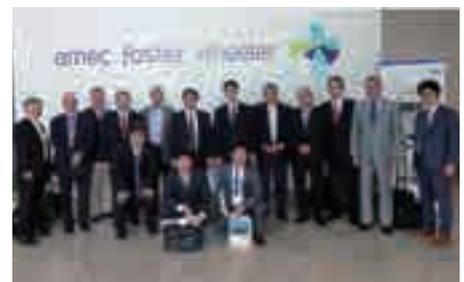
JSMEA meets Japanese Consul General Nozomu Takaoka



Mission members gave briefings on their products and services to Consul General Takaoka.



A JSMEA staff member introduces the "Japanese marine equipment supporting for OFFSHORE" brochure when calling at the Houston office of Amec Foster Wheeler Plc.



Executives of Amec Foster Wheeler
 Mr. Skip Alvarado, executive vice-president, Upstream Americas
 Mr. Kirk Barwick, vice-president, engineering
 Mr. Jim Collins, president, business development
 Mr. Steve Conway, vice-president, operations
 Mr. Rudolf Correa, procurement
 Mr. Steve Lam, senior project manager
 Mr. Jason Marques, construction management
 Mr. Daniel McInnis, engineering manager
 Mr. Javier Palencia, president, oil & gas, U.S. & Central and South America
 Mr. Bob Reilly, executive vice-president, Upstream Americas
 Mr. Ali Said, manager, engineering & operations
 Mr. Bob Salazar, vice-president, Central & South America
 Mr. Rosalvo Sales, director, business development & strategic planning
 Mr. Andy Sallis, president, oil & gas, Americas

JSMEA runs a booth at OTC 2015.

A JSMEA staff explains how to use the online version of the brochure, "Japanese marine equipment supporting for OFFSHORE" at the JSMEA booth.



Chiyoda Corporation, JGC Corporation, MODEC International, Inc., Noble Corporation and Sevan Marine ASA.

JSMEA held a meeting during this year's international exhibition with the Society of Petroleum Engineers, the organizer of OTC. The parties agreed that a delegation from Japan will have an area of 3,400 square feet at the tent pavilion next year to run the Japan pavilion at OTC 2016. Japan last operated a pavilion when it first attended OTC, 46 years ago.

This status means that the efforts of JSMEA have at last become fruitful. Convening meetings of its Offshore Working Group and other in-house units, it had begun exchanging views with the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) and member companies on projects that Japan can advance to enter into the offshore oil and gas development market. The association had also given explanations to and exchanged opinions with the OTC organizer on offshore business-related activities and future plans.

JSMEA intends to hold meetings of its Offshore Working Group and Global Strategic Plan Review Board to discuss ways to help member companies develop and enlarge their respective operations in the offshore oil and gas development business.

Outline of OTC 2015

Official name: Offshore Technology Conference 2015

Days: Monday-Wednesday, May 4-7, 2015

Venue: NRG Park

JSMEA's booth number: 11006 (tent pavilion)

Members of JSMEA mission: Fuji Trading Co., Ltd. Kawasaki Heavy Industries, Ltd., Nitto Chemical Industry Co., Ltd., Shinko Ind. Ltd., Taiko Kikai Industries Co., Ltd., Takatori Seisakusho Co., Ltd., Tokyo Rope Mfg. Co., Ltd. and Yanmar Co., Ltd.

Outline of networking reception

Time: 6-9 p.m.

Day: Tuesday, May 5

Venue: Hotel Zaza (address: 5701 Main St., Houston, TX. 77005)

Attendees: 120

An address is given by Mr. Keisuke Sakamoto, director of Ocean Development Strategy Office, Ocean Development and Environment Policy Division, Maritime Bureau, Ministry of Land, Infrastructure, Transport and Tourism (MLIT).

Presentation given by General Manager Daichi Sato of Japan Oil, Gas and Metals National Corporation (JOGMEC)



Mr. Shoichi Kitamura, executive managing director of JSMEA (left), presents a commemorative plaque to Mr. Sato.



JSMEA makes debut at IMPA Singapore 2015

Japan Ship Machinery and Equipment Association (JSMEA) made its first-ever presence at IMPA Singapore. The international exhibition was launched in 2014 to provide those of ship owners in charge of procurement with information and other services. This year, JSMEA organized seminars during the event.

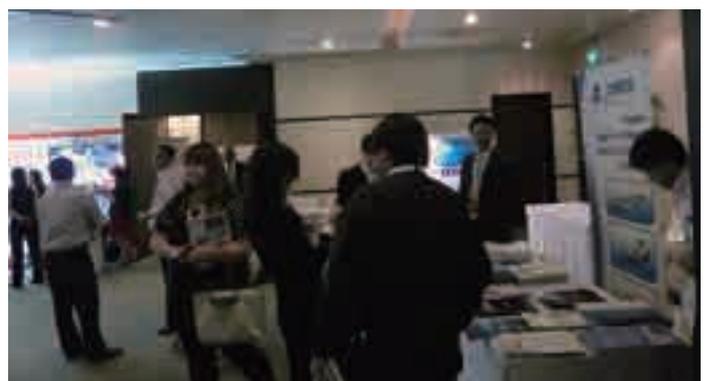
At the seminar given on May 26, Shinko Ind. Ltd.; Daihatsu Diesel Mfg. Co., Ltd.; Niigata Power Systems Co., Ltd.; Furuno Electric Co., Ltd. and Yanmar Co., Ltd. delivered presentations. In partnership with employees of these presenters, members of JSMEA's Counterfeit Product Council stressed to those attending the seminar that Japanese ship machinery and equipment manufacturers are making concerted efforts to promote the Genuine Product Label produced by the association and the dangers of using non-genuine products more widely.

On May 27, at another seminar, six JSMEA members, some of whom had made inroads in the Singaporean market—Uzushio Electric Co., Ltd.; Chugoku Marine Paints, Ltd.; Naniwa Pump Mfg. Co., Ltd.; Fuji Trading Co., Ltd.; Furuno Electric Co., Ltd. and Yanmar Co., Ltd.—introduced their respective energy-saving, eco-friendly and other products and up-to-date information on their after-sales services and other features.

The seminar hall was at capacity—with approximately 60 people—on both days, and questions were asked and answered, information was exchanged and other interchanges were made between the presenters and attendees.

JSMEA will continue to seize opportunities to meet many shipping and ship management companies to work to promote its Genuine Product Label and make other efforts to encourage them to use genuine ship machinery and equipment. It will also strive to help promote its member companies.

IMPA Singapore 2015



Outline of IMPA Singapore 2015

Time and dates: 10 a.m. to 7 p.m. on Tuesday, May 26 and 10 a.m. to 6 p.m. on Wednesday, May 27, 2015

Venue: Grand Copthorne Waterfront Hotel Singapore

Seminar 1

Time and date: 1 to 2:30 p.m. on May 26
 Title: Genuine vs. Non-Genuine Spare Parts
 Presenters: Shinko Ind. Ltd.; Daihatsu Diesel Mfg. Co., Ltd.; Niigata Power Systems Co., Ltd.; Furuno Electric Co., Ltd. and Yanmar Co., Ltd.

Seminar 2

Time and date: 1 to 2:30 p.m. on May 27
 Title: Introduction to Japan's New Technologies and High-Quality Products
 Presenters: Uzushio Electric Co., Ltd.; Chugoku Marine Paints, Ltd.; Naniwa Pump Mfg. Co., Ltd.; Fuji Trading Co., Ltd.; Furuno Electric Co., Ltd. and Yanmar Co., Ltd.

JSMEA seminars



JSMEA attends Nor-Shipping 2015, conducts research on Icelandic fishery market

Japan Ship Machinery and Equipment Association (JSMEA) attended Nor-Shipping 2015 with financial assistance from The Nippon Foundation. It took the record number of 13 member companies to the international exhibition, which was held in Oslo, Norway on June 2-5, 2015.

While in Norway, the JSMEA delegation also conducted the activities listed below:

(1) June 1

On the day before the opening of Nor-Shipping 2015, the JSMEA delegation visited the Japanese Embassy in Norway to meet Mr. Toshio Kunikata, Japan's ambassador to the Scandinavian kingdom. JSMEA gave a briefing on its activities and introduced its member companies, showing the brochure of products for offshore oil and gas development projects and booklet of eco-friendly products that it had published.

(2) June 2

The JSMEA delegation met with the Norwegian Oil and Gas Partners (INTSOK), in which Statoil ASA has a stake. The two parties introduced the respective efforts they make in the offshore development market business.

JSMEA mission visits Japanese Embassy in Norway



JSMEA used its brochure and Web site to introduce its members and their products. On behalf of INTSOK, meanwhile, Ms. Gunn Vik, who is in charge of the Asia region (i.e., China, Singapore and South Korea), was present at the meeting to explain its partners' activities. JSMEA exchanged views with Ms. Vik to better gauge the chances of JSMEA members doing business with local enterprises, among other subjects.

(3) June 3

The JSMEA mission took part in a round-table meeting between the Japanese and Norwegian public and private sectors. Again, the association promoted its members, using its brochure and Web site.

(4) June 4 (morning)

To deepen exchanges with parties concerned with maritime affairs, including major ship owners, the news media and others in Norway and other European nations, JSMEA presented a sushi luncheon party at the Japanese Pavilion in partnership with the Japan Ship Exporters' Association (JSEA). The party attracted so many visitors that the booths of JSMEA members were kept very busy.

Opening ceremony held for Japanese Pavilion



Round-table meeting convened between Japanese, Norwegian delegations



JSMEA exchanges views with INTSOK



(5) June 4 (afternoon)

JSMEA organized a Norway-Japan Maritime Green Innovation Seminar together with the JSEA. From JSMEA, six members gave presentations. The seminar enjoyed an attendance of some 110 people.

On June 9, after Nor-Shipping 2015 had brought down its curtain, JSMEA and companions visited fishery-related enterprises and other organizations in Iceland, which are listed in the upper right. The JSMEA delegation marketed Japanese ship machinery and equipment products and exchanged opinions with local partners on the Icelandic fishery market. Members of the mission were also allowed to board a vessel that the Icelandic Coast Guard operated 50 years ago.

- (1) SH Skip
- (2) Skipataekni (a designer of fishery and other vessels)
- (3) Skypasyn (a ship designer)
- (4) Port of Hafnarfjordur (a port and harbor manager)
- (5) Japanese Embassy in Iceland

JSMEA has decided to report findings from its participation in Nor-Shipping 2015 and trip to Iceland to its Global Strategic Plan Review Board, Overseas Exhibition and Offshore working groups and other units, hoping they will be reflected in policies toward future business activities.



JSMEA members that exhibited products at Nor-Shipping 2015

Number of members: 13

Members: Daihatsu Diesel Mfg. Co., Ltd.; Fuji Trading Co., Ltd.; Hitachi Zosen Corporation; Kawasaki Heavy Industries, Ltd.; Musasino Co., Ltd.; Nakashima Propeller Co., Ltd.; Niigata Power Systems Co., Ltd.; Nishishiba Electric Co., Ltd.; Nippon Paint Marine Coatings Co., Ltd.; Sankyo Seisakusho Co., Ltd.; Shinko Ind. Ltd.; Taiyo Electric Co., Ltd. and Yanmar Co., Ltd.

JSMEA members that were included in the trip to Iceland

Members: Nippon Paint Marine Coatings Co., Ltd. and Yanmar Co., Ltd.

JSMEA holds sushi luncheon party jointly with JSEA



Ms. Hanna Lee Behrens, executive director of the Norwegian Shipowners' Association, gives the opening speech.

JSMEA, JSEA jointly organize seminar



JSMEA hold meeting with SH Skip, Skypasyn



Mr. Egill Poroarson, Japan liaison, SH Skip
Mr. Smari Hermannsson, general manager, SH Skip
Mr. Saovar M. Birgisson, naval architect, Skypasyn
Mr. Birgir Saevarsson, verkafnastjóri, Skypasyn

JSMEA meets Port of Hafnarfjordur executives



Mr. Mar Sveinbjornsson, director



JSMEA has meeting with Skipataekni



Mr. Barour Hafsteinsson
Mr. Alfred Tullinius

JSMEA visits Japanese Embassy in Iceland



Ms. Mitsuko Shino, Japan's ambassador to Iceland.
Mr. Yoichiro Takahashi, second secretary

JSMEA attends Marintec South America 2015

Japan Ship Machinery and Equipment Association (JSMEA) attended Marintec South America 2015 on Aug. 11-13, 2015 in Rio de Janeiro, Brazil, where in partnership with seven member companies, it opened a Japan pavilion. This was the association's sixth consecutive year of participation in Marintec South America since its first presence at the international exhibition in 2010.

JSMEA had created the online version of its brochures of machinery and equipment for offshore oil and gas developers, titled "Japanese marine equipment supporting OFFSHORE", and of eco-friendly products for ships operated on river routes and other commercial vessels, named "Japanese Marine Eco-Products". During Marintec South America 2015, it promoted Japanese machinery and equipment products at its booth with the Web sites available for visitors to browse.

On Aug. 10, a day before the opening of Marintec South America 2015, the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) of Japan organized a round-table meeting for parties representing the Japanese and Brazilian public and private sectors. From JSMEA, Mr. Masaharu Ono, vice-chairman of the association and many from member ship machinery and equipment makers joined the meeting, which was convened for the fifth time.

At the round-table meeting, five JSMEA members delivered presentations to local enterprises. Brazil was

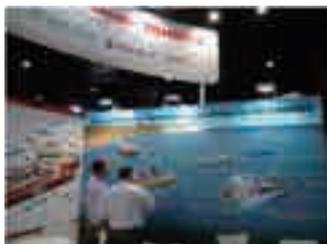
represented by officials of the Ministry of Development, Industry and Foreign Trade (MDIC) as well as executives of Petróleo Brasileiro S.A. (Petrobras), shipbuilders and other companies and organizations. Petrobras gave a briefing on its business and management plan for the five years from 2015 to 2019. Many questions were asked and answered enthusiastically during the meeting.

Following the round-table meeting, JSMEA held a reception jointly with Nippon Kaiji Kyokai (ClassNK). The co-hosts invited many parties from the local public and private sectors concerned with maritime affairs to the event, which was entitled "Japan Night". A total of 127 people, including approximately 80 locals, gathered at the reception to develop and deepen friendships. The attendance was an uptick over the 116 counted in 2014. Those attending this year were on behalf of the public and private sectors of Japan and Brazil, including the National Agency of Petroleum, Natural Gas and Biofuels (ANP); Petrobras; Petrobras Transporte S.A. (Transpetro); shipping companies; shipbuilders; ship machinery and equipment manufacturers.

Taking advantage of its trip to Brazil, JSMEA conducted the activities described below together with affiliated ship machinery and equipment manufacturers to vigorously promote Japanese products as well as to exchange information and forge relations with local enterprises.

Calling at companies and holding discussions with

JSMEA mission opens Japan pavilion



Japan's MLIT convenes a round-table meeting for the compatriot and Brazilian public and private sectors.



Front row: JSMEA Executive Managing Director Shoichi Kitamura (left) and Vice-Chairman Masaharu Ono (center)



MDIC officials visit Japan pavilion



Mr. João Luis Rossi, general coordinator, Oil, Gas and Shipbuilding Secretariat of Production Development (second from left)



JSMEA calls at AMEC Kromav



JSMEA Vice-Chairman Masaharu Ono (left) and AMEC Kromav Managing Director João L. de Deus Fernandes



A member of the JSMEA mission introduces products of his company

customers enabled JSMEA to understand the Brazilian maritime industry more deeply. Through the business trip to Brazil, in addition, it established favorable business relations with member companies that participated in Marintec South America for the first time. Members were contacted so many times after visiting local firms and products' users, which led JSMEA to conclude that its courtesy visits were also highly successful.

JSMEA carried out the following side activities while in Brazil:

- (1) Aug. 10: Visited the National Association of Naval Industry (SINAVAL);
- (2) Aug. 11: Visited designer firm AMEC Kromav S.A.;
- (3) Aug. 11: Delivered presentations to each other with the Industry Federation of the State of Rio de Janeiro (FIRJAN) at the venue of Marintec South America 2015 regarding possibilities of establishing relations of cooperation;
- (4) Aug. 11: Met with the FIRJAN to exchange views on concluding a memorandum of understanding;
- (5) Aug. 12: Visited designer firm Projemar S.A.;
- (6) Aug. 13: Met with Petrobras, Transpetro and the ANP to exchange views.;
- (7) Aug. 17: Visited the government of Amazonas' Secretariat for Planning and Economic Development (SEPLAN); and
- (8) Aug. 17: Visited shipyard Beconal—Bertolini Construção Naval da Amazonia Ltda.

During its trip to Brazil, JSMEA realized that circumstances had changed drastically in the six years since it first attended Marintec South America in 2010. However, the association made sure the amicable business relations that it had developed with Brazilian enterprises still remained strong, when seeing examples such as local parties warmly welcoming its mission, attending the Japan Night reception and visiting the

Japan pavilion. JSMEA is now determined to continue discussions on what efforts it can make in the future to do more business in Brazil and with Brazilian partners, convening meetings of its Global Strategic Plan Review and Offshore Development Strategy Review boards.

Annex

(1) Members of the Japan pavilion

JSMEA

Members that exhibited services and/or products: Kawasaki Heavy Industries, Ltd.; Daihatsu Diesel Mfg. Co., Ltd. and Yanmar Co., Ltd.

Members that displayed panels: Uzushio Electric Co., Ltd.; Ecomarine Technology Research Association; Shinko Ind. Ltd. and Fuji Trading Co., Ltd.

(2) Enterprises that gave presentations at the round-table meeting

Brazil:

- MDIC
- Petrobras
- AMEC Kromav, Associação Brasileira das Empresas de Construção Naval e Offshore (ABENAV)
- Associação Brasileira de Máquinas e Equipamentos (AVIMAQ)

Japan:

- MLIT
- Japanese Consulate General in Rio de Janeiro
- ClassNK
- Ecomarine Technology Research Association
- Fukui Seisakusho Co., Ltd.
- Japan Radio Co., Ltd.
- Yanmar Co., Ltd.
- Kobe Steel, Ltd.

JSMEA mission calls Projemar



Front row from left: Projemar Director Marco Aurelio A. Barros, Mechanical Engineer Afonso Vianna, Mr. Renato M.S. Moura of the Procurement Engineering Department and JSMEA Vice-Chairman Masaharu Ono

The Japan Night reception is held at Marintec South America 2015.



From left: JSMEA Vice-Chairman Masaharu Ono, General Manager Hayato Suga of ClassNK's Natural Resources and Energy Department, SINAVAL Vice-President Franco Papini and Japanese Consul-General in Rio de Janeiro Tsuyoshi Yamamoto



Mr. Marcelo Mafrá Borges de Macedo of the ANP delivers the closing address.

JSMEA exchanges views with FIRJAN



JSMEA Vice-Chairman Masaharu Ono (left) and FIRJAN Vice-Chairman Carlos Mariani



Mr. Ricardo Maia of the FIRJAN

JSMEA pays courtesy call at SINAVAL



Mr. Franco Papini, vice-president, SINAVAL
Mr. Fernand Barbosa, president/CEO, Enseada Indústria Naval
Mr. Morihiro Katsumata, director, Enseada Indústria Naval
Mr. Cristiano Y. Baba, Brazil proposal manager, Keppel FELS Ltd.
Mr. Daniel Peres, president advisor, Engevix Construções Oceânicas S.A. (ECOVIX)
Mr. Nilson Cunha Furtado de Mendonça, Economou International Shipping Agencies (EISA)



The JSMEA mission visits Beconal—Bertolini Construção Naval da Amazonia.

JSMEA holds conference with Sasakawa fellows



Sasakawa Fellows sing WMU's school song.



Mr. Motoyoshi Nakashima, chairman of JSMEA, receives praise from a WMU faculty member.

Japan Ship Machinery and Equipment Association (JSMEA) held its first conference with Sasakawa fellows in Kobe on Friday, May 15, 2015, receiving support from The Sasakawa Peace Foundation and World Maritime University (WMU).

Sasakawa fellows are those who graduated from WMU on scholarships from The Nippon Foundation. WMU has been actively providing education and conducting research extensively on the ocean for over 30 years since it was established by the International Maritime Organization (IMO) in 1983.

Many WMU alumni and alumnae, who number more than 3,000 today, have assumed positions of great responsibility not only with ship owners, shipbuilding companies and other private enterprises, but also at governmental organizations in charge of maritime safety and other relevant affairs in many countries, including minister of transport, maritime affairs and communication of Turkey.

Sasakawa fellows come to Japan every year to exchange views with The Nippon Foundation; have interchanges with the Ministry of Land, Infrastructure, Transport and Tourism (MLIT); visit and inspect shipyards and ship machinery and equipment makers; and carry out many other activities.

In promoting global development, it is very important to build relations with ship owners and shipbuilders, as they are customers of ship machinery and equipment products. It is as important to meet with governmental parties in advancing and other economies where the maritime industry is projected to grow in the future.

When graduating from WMU, as described earlier, Sasakawa fellows return to the governmental organizations, ship owners, shipyards and others where they previously worked and commence important roles in developing the maritime industries of their respective nations.

As such, JSMEA had decided to meet with Sasakawa fellows as part of its initiatives to promote global development to forge long-standing relations between the Japanese ship machinery and equipment industry and the maritime industries of other economies in the world.

JSMEA held the May conference in two sessions, organizing (1) a seminar to introduce member companies and their respective products and (2) a buffet reception. It was accompanied by 22 staff members from 11 affiliated manufacturers, with eight of whom gave presentations. Twenty-two Sasakawa fellows were in attendance, while students from overseas studying at Kobe University participated unofficially in the conference as well. Including members of JSMEA companies, some 80 people gathered at the event.

At the beginning of the seminar, Mr. Yukio Furuno, vice-chairman of JSMEA, gave the opening address and a briefing on the association. "I hope today's conference will offer an opportunity to exchange information so vigorously that both sides will be able to understand each other more deeply," he said.

After Vice-Chairman Furuo's address, Mr. Reijiro Urabe, leader of JSMEA's Overseas Market Development Working Group, introduced the association's business activities, taking as an example the seminars that it has held worldwide. He successfully left the attendees with an understanding of its hard work toward establishing relations with parties concerned with maritime affairs of other countries.

Following Mr. Urabe, the aforementioned eight JSMEA member companies gave presentations to provide up-to-date information on their respective products as well as maintenance and other after-sales services.

When the reception began after the seminar, Mr. Motoyoshi Nakashima, chairman of JSMEA, delivered the opening speech. "To further develop the global maritime industry, it is inevitable for those having to do with maritime affairs in Japan and other economies, like those of you and us, to unite as one and help each other," he stressed.

During the reception, many JSMEA members and Sasakawa fellows were seen to exchanging opinions actively on overseas development and other subjects. The conclusion was that the conference was successful for the parties concerned with maritime affairs from Japan and other nations to become acquainted with one another.

The reception came to an end with Mr. Yoshitaka Teramoto, a member of JSMEA's Overseas Market Development Review Committee, giving the closing speech.

JSMEA hopes its May conference with Sasakawa fellows will help its member companies expand their business operations abroad. The association is determined to maintain relations with Sasakawa fellows in the future by, among other actions, inviting them to the global projects it will advance, and continue to promote the global development of the Japanese ship machinery and equipment industry.

Companies attending the conference: Daihatsu Diesel Mfg. Co., Ltd.; Fuji Trading Co., Ltd.; Furuno Electric Co., Ltd.; Hanshin Diesel Works, Ltd.; Hien Electric Industries, Ltd.; Japan Radio Co., Ltd.; Kanagawa Kiki Kogyo Co., Ltd.; Nakashima Propeller Co., Ltd.; Taiyo Electric Co., Ltd.; Teramoto Iron Works Co., Ltd. and Yanmar Co., Ltd.



Mr. Yukio Furuno, vice-chairman of JSMEA, delivers the seminar's opening address.



Mr. Reijiro Urabe, leader of JSMEA's Overseas Market Development Working Group, introduces the association's business activities.



JSMEA member companies give presentations.



Many people attend the seminar.



Members of the JSMEA mission deepen their friendship with Sasakawa Fellows at the reception.



Mr. Yoshitaka Teramoto, a member of JSMEA's Overseas Market Development Review Committee, gives the closing speech.

BEMAC - Distributed Control System

Overview

We will introduce the dual distributed control system [BEMAC-DCS]. System controls and monitors each independence system such as voyage information, PMS (Power Management System), cargo handling equipments, ballast equipments, etc. Information is retrieved safely and speedy by using appointed network, and integrated operation status information are to be recognized by the system as one. The most advantage of the integrating information is not only to use for the maintenance like identifying the failure of the equipments, but also for the establishment of the advanced system for the environmental load reduction activities that is an EEOI analysis for SEEMP by using Big data.

① High Performance

High speed sampling by the high-performance CPU is established. System provides a highly accurate First alarm to judge the failure factors.

② High Control Functionality

Ship's equipment information are transferred

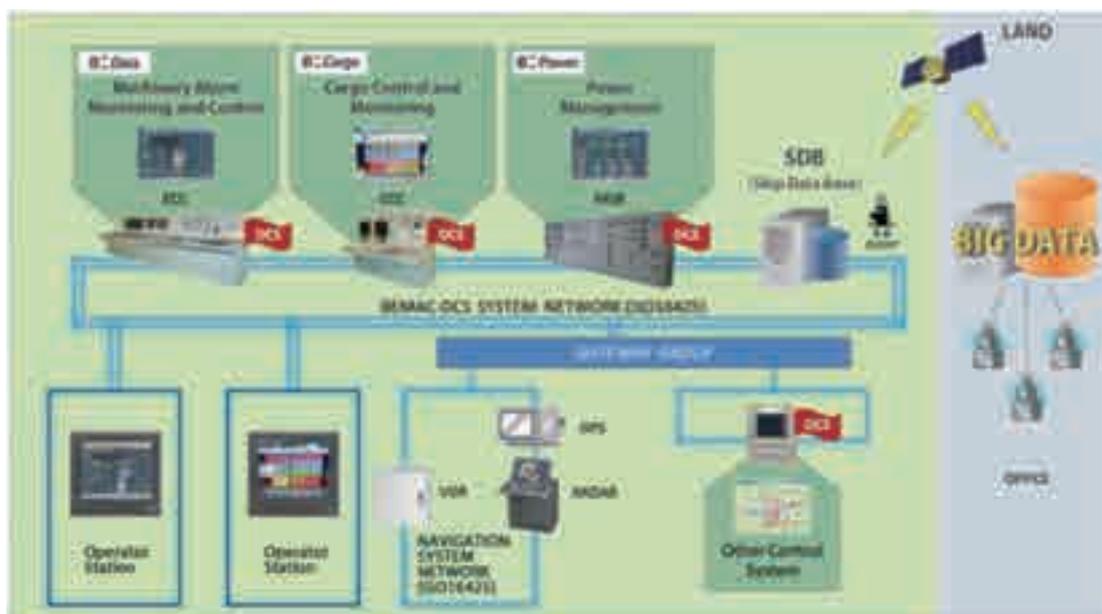
by high-speed and safety by redundancy. System stores customers' needed information as Voyage information, PMS, control for cargos, ballasts, valves, pumps and fans. For instruction on information which needed to be feedback, PID control system is equipped.

③ High Reliability

HOT SPARE and HOT SWAP are available for the needs to exchange CPU and unit without turning off the power.

④ Advantage

System accumulates the data of monitoring and control on the server. When retrieving the data, application for the maintenance like fault diagnosis and may set the unified operation order of the plant facilities. It provides high-performance service with the needs of customers like an EEOI analysis for SEEMP and the MRV of the greenhouse gas emissions. In addition, ship' data may be added into managing companies' Big data with its result to be applied for the energy saving management analysis.



Smart Digital Tuner Worldwide (KST-1000-W)

Product overview

Kyokuyo Electric Co., Ltd., a firm handling electrical equipment for marine vessels, has developed the Smart Digital Tuner Worldwide (KST-1000-W), a TV tuner supporting terrestrial digital broadcasts systems all over the world.

Smart Digital Tuner Worldwide enables viewing of terrestrial digital broadcasts, on ships in port or navigating along a coastline, simply by connecting it for ships to an existing TV and antenna.

Setup operation is simple, and no major work is necessary to install the equipment.

Background

In the field of terrestrial TV broadcasting, a worldwide shift is underway from analog broadcasting to digital broadcasting, but broadcasting standards for terrestrial digital broadcasting are not uniform throughout the world, and the various standards include the Japanese system (ISDB-T), Brazilian system (ISDB-TB), European system (DVB-T), second generation European system (DVB-T2), American system (ATSC), and Chinese system (DTMB). Therefore, in order to view terrestrial TV on ships traveling to various countries throughout the world, it has been necessary to prepare receivers (TVs or tuners) compatible with the different terrestrial digital broadcasting standards at each port of call. In addition, even if TVs or tuners compatible with the standards of each country are prepared, troublesome procedures have been necessary when viewing with a single TV, such as preparing multiple devices and switching the wiring each time.

To enable ship-owners to improve entertainment equipment and reduce the burden on ship crew under these conditions, Kyokuyo Electric has

developed a terrestrial digital tuner enabling reception of all terrestrial digital broadcasting standards with a single device



Main features

1: Compatible with terrestrial digital broadcasting standards worldwide

This system enables TV viewing while in coastal regions (or in port) in each country.

- ISDB-T: Japan
- ISDB-TB: South America etc.
- DVB-T: Europe, Australia, Taiwan etc.
- DVB-T2: UK etc.
- ATSC: North America, Korea etc.
- DTMB: China etc.

2: Intuitive, simple operation

Operation relating to TV viewing, such as region selection (broadcasting system selection) and channel scan, can be done simply and easily. Menu screens and the operation manual are provided in both Japanese and English.

3: Can be connected with analog worldwide TV using through-out output

The main unit is equipped with an antenna through-out output terminal for connecting an analog worldwide TV, to enable viewing of analog TV in countries continuing to broadcast terrestrial analog TV.

Makita is the world's first manufacturer of MAN B&W S30ME-B9

In July 2014, Makita completed production of the world's first MAN B&W S30ME-B9. It got approved by the Type Approval Test from several classification societies in the world. Makita attained the first approval 33 years ago for the MAN B&W L35MC engine. Since its first manufacturing date, Makita has sold the most unites, worldwide.

While this new engine is being produced, Makita will continue to expand our knowledge and service, especially the after-sales service for engines, as well as strive to offer more choices to our loyal

customers. Makita are ready to face the field of small-bore engine with enthusiasm, and in doing so, promise to provide reliable service continuously.

Makita can now proudly provide a lineup of various electronically controlled engines: S46ME-B, S40ME-B, S35ME-B, and S30ME-B.

The Type Approval Test of MAN B&W S30ME-B9 at Makita Corporation was attended by several classification societies and Mitsui Engineering & Shipbuilding Co., Ltd.



6S30ME-B9
Bore : 300mm / Stroke : 1328mm / Output : 3840kW x 195 min-1 / MEP :2.10MPa /
IMO NOx regulation : Tier2 / SFOC : 176.0g/kW-h +5%margin at 100% load / Dry mass : 69ton



NIPPON PAINT MARINE COATINGS CO., LTD.



“QUEEN ELIZABETH” applied with A-LF-Sea

Description

Nippon Paint Marine Coatings Co., Ltd. has over 135 years history in paint industry and will provide everywhere worldwide with functional products. We are committed to make more contributions to all customers and human society with three key words of “Global”, “Ecology” and “Technology”.

① A-LF-Sea series

Nippon Paint’s successful ultra-low friction antifouling paint.

Reduction of ship’s frictional resistance with water trapping technology enables to achieve 10% fuel savings and equivalent reduction in CO2 emissions.

1,500 ships applied as of April 2015

② ECOLOFLEX series

The first TBT-free hydrolyzing self-polishing antifouling in the world, which contains a special acrylate copolymer developed with our patented

technology.

18,600 ships applied as of March 2014

Drilling Unit (D/V “Chikyu”) and FPSO applied.

③ NOA60HS

Pure epoxy resin based protective coating, designed especially for use in ballast tanks, cargo oil tanks and voids. Complies with the IMO Resolution MSC.215 (82) & MSC.288(87) “Performance Standard for Protective Coatings”

Has “SI (self-indication) function”, which allows the sprayer to confirm visually during application that the correct thickness is ensured.

Over 900 ships applied as of April 2015

Picture report of NOA60HS shows its excellent long-term corrosion protection performance on various kinds of ships.

Especially, a 10-year inspection picture report for WBT of LNG carrier has clearly proved its long-term corrosion protection performance.



NIPPON PAINT MARINE COATINGS CO., LTD.

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nipponpaint-marine.com

U-R Type

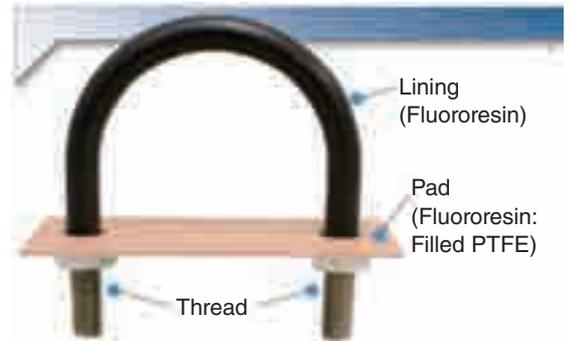
Pillar Lining U-bolt for Marine Pipe Applications

For replacing existing steel pipe U-bolts

Pillar's U-R type U-bolts reduce damage caused by contact wear between pipe support hardware and pipes resulting from the expansion and contraction and from vibration.

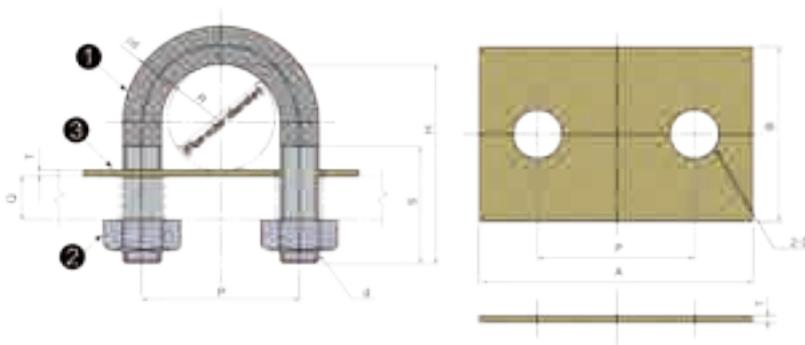
Structure

Pillar's Lining U-bolts consist of a metal U-bolt to which a fluororesin (PVDF) lining has been applied. The lining thickness is 0.7 mm (the same thickness as the outer diameter of the thread), and this is based on the dimensions of for shipboard pipes. The pad is made of filled fluororesin.



Features

- **Fluororesin (PVDF) lining** "Low Coefficient of Friction" & "Self-Lubricating without Oil Lubrication"
- **Fluororesin (PVDF) lining** Superior "Impact Resistance", "Load Resistance" & "Chemical Resistance" than ultrahighmolecular weight polyethylene and nylon.
- **Lining to whole body of U-bolts** "Superior Corrosion Resistance"
- SUS304 is applied to metal parts as the standard material for corrosion resistance.

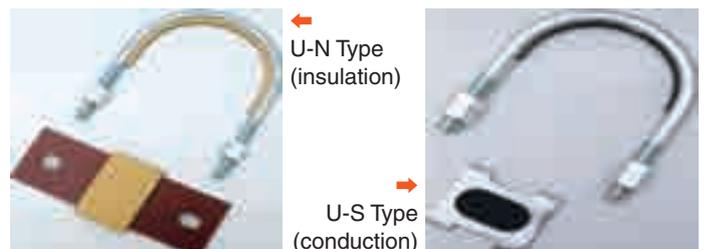


NO.	Part name	Material
1	U-bolt	SUS304 + PVDF
2	Hexagonal nut	SUS304
3	Pad	Filled PTFE

Other

U-N / U-S Type Pillar U-bolt

Pillar U-Bolt consist of metal U-bolt to which filled PTFE has been securely



Part No.	Size	U-bolt										Nut	
		H	W	H	W	W	W	W	W	W	W		
U-R-01	15A	21.7	13	34	46	M10	30	11.5	1.3	44	49	46	110
U-R-02	20A	27.2	15	40	51	M10	30	11.5	1.3	50	49	43	110
U-R-03	25A	34	18	48	58	M10	30	12.5	1.3	56	49	45	110
U-R-04	30A	42.7	23	58	68	M10	30	12.5	1.3	66	49	58	110
U-R-05	40A	48.8	28	67	74	M10	30	12.5	1.3	67	49	62	110
U-R-06	50A	55.5	32	74	80	M10	30	12.5	1.3	74	49	74	110
U-R-07	65A	75.3	39	90	107	M12	40	15.5	1.3	120	54	90	115

NIPPON PILLAR PACKING CO., LTD.

A-CLASS FIRE-TIGHT SEALING COMPOUND

PLASEAL NF-23

FEATURES

Nitto Chemical Industry Co., Ltd., specialized sealing compound/putty maker, produced and released "original Japan made" fire-tight putty product, PLASEAL NF-23, used for sealing electric cable penetrations in any commercial vessels and offshore.

PLASEAL NF-23 takes great initiative in complying with 2010 FTP Code and passing IMO Res. MSC. 307(88) -2010 FTP Code for A-class cable transits, which means applicable in global scale.

Also PLASEAL NF-23 helps saving vessel's weight with its low specific gravity (approximately 0.8) and, most importantly, ensures super easy-to-use application under any cable transit conditions with its one-component typed material and the features of its pliable, moldable and flexible performance.

As for actual record references, PLASEAL NF-23 has almost 100% Japanese marketing record for vessel use and gradually extends to abroad such as Asia and South-east Asia. Beside of 2010 FTP Code, PLASEAL NF-23 is certified by variety of ship classification society such as ABS, BV, CCS, DNV-GL, KR, LR, NK, MED, etc.

RECORD

Commercial vessel

Bulk carrier, Tanker, PCC, LNG/LPG carrier, Container ship, Passenger ship, etc

Offshore

Drillship, FPSO, PSV, AHTS



CERTIFICATIONS



Hitachi Nico Transmission has developed 20MW of Large size Hydraulic Clutch

Product descriptions

Hydraulic clutch was mainly used for reverse reduction gear of middle speed engine due to its operability. However, there have not been large size hydraulic clutches which are appropriate for 2 stroke engine.

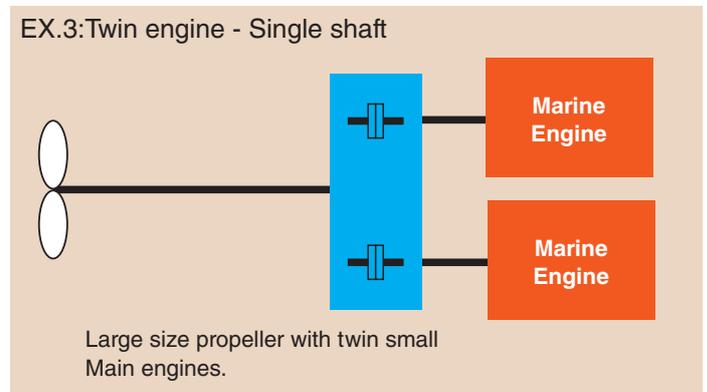
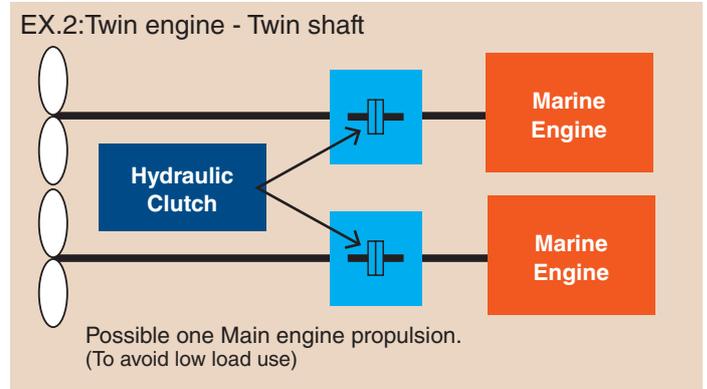
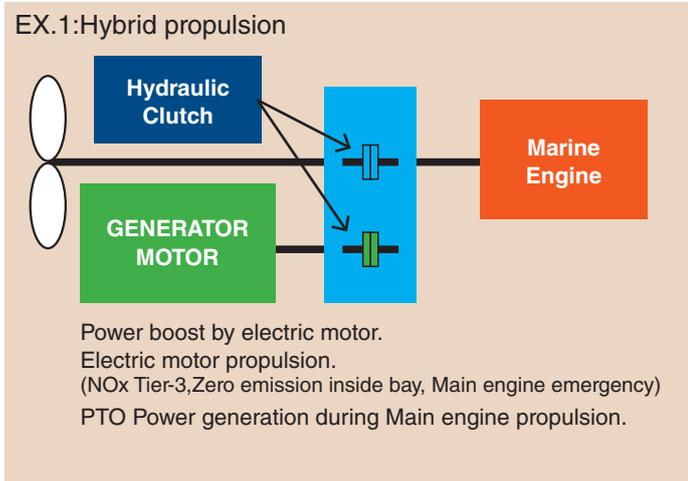
Hitachi Nico Transmission has newly developed a large size hydraulic clutch of 8.5MW to 20MW, which applicable to Handymax, Capesize bulk carrier as well as twin shafts LNG carrier.

Herewith it enables Hybrid propulsion vessel to switch between a main diesel engine propulsion and a generator/motor propulsion without dead ship or stopping of main engine(EX.1).

Besides it makes possible to connect/dis-connect main engine and propeller between single engine propulsion and twin engines propulsion of twin engines-twin shafts(EX,2),twin engines-single shaft(EX.3), without dead ship.

This development enlarges the possibility for large vessel to consider a variety of selection of propulsion systems. Hydraulic clutch enables a main engine to start with no load.

And propeller thrust bearing will not be necessary of engine, as it is already built-in the hydraulic clutch.





Silencer with waste-heat recovery capability



In addition to reducing noise, Hi Eco Silencer

cuts fuel consumption, CO2 emissions at the same time!

Introduction

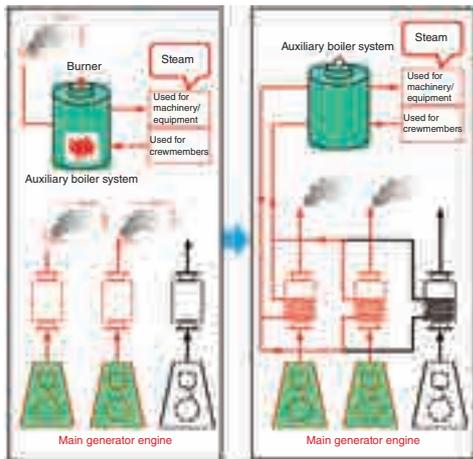
To reduce operating costs and arrest global warming, the shipping industry is, as with other fields of business, taking various actions to save energy. Presently, however, waste heat from main power generators is not recovered at all; it is released in the air untreated. As such, Taiko Engineering Co., Ltd. has added a new function of recovering waste heat (economizers) to its silencers for diesel engines the company's flagship product—7,300 units of which have been delivered to date. With the new capability, the Hi Eco Silencer can now recover waste-heat energy with high efficiency from main engines and make effective use of it. Consequently, fuel consumed in auxiliary boilers can be reduced quantitatively, leading to curtailing operating costs and greenhouse gas (GHG) emissions.

Steam supply systems for ships at anchor

Contrasted in Chart 1 are conventional and waste-heat recovery systems in which steam is supplied while ships are at anchor.

Chart 1

Steam supply systems



(1) Conventional system

A conventional steam supply system, which generates steam by working an auxiliary boiler, is described on the left side of Chart 1. In this system, all waste-heat energy from the main power generators is released in the air, because the silencers are not capable of recovering exhaust heat.

(2) Waste heat recovery system

Shown on the right is the steam supply system with a silencer, which Taiko Engineering has developed, that is capable of recovering waste heat. Heat-transfer tubes (heat exchangers) in the silencers function to recover energy from waste heat (and generate steam), enabling users to obtain a sufficient quantity of heat (steam) that can be used for on-board comforts for crewmembers and other purposes.

Features of Hi Eco Silencer

- (1) Recovers waste-heat energy and turns it into steam for reuse.
 - (i) Curtails fuel costs for using auxiliary boilers.
 - (ii) Reduces carbon dioxide (CO₂) emissions.
- (2) Capable of recovering waste heat.
 - (i) Saves space as users no longer need to have both silencers and waste-heat recovery instruments.
- (3) Adopts a water-tube system for exchanging heat.
 - (i) Achieves higher efficiencies (higher heat-recovery rates).
 - (ii) Reduces pressure losses (an advantage when scrubbers and others are added)

Results of on-board tests for Hi Eco Silencer

When construction work was completed for installing Hi Eco Silencers, Taiko Engineering made sure that machinery and equipment, plumbing, meters and other parts and components were all working properly. After that, it started power generators, auxiliary boilers and other existing machinery and equipment on board a vessel, and activated the waste-heat recovery silencers. The company then conducted on-board tests while confirming there were no problems adapting the Hi Eco Silencer to an existing steam system. Immediately after the installation work, the first on-board test was carried out. In a period of two years, the company visited the ship a total of seven times to take measurements for changes made over time in performance, fuel reduction and other aspects. As a result of investigating the quantity of fuel oil consumed in boilers from the vessel's log book, Taiko Engineering learned that the ship with Hi Eco Silencers installed consumed 0.8 kiloliters of fuel oil per day, a reduction of 0.4 kiloliters from 1.2 kiloliters used without the waste-heat recovery silencers.



Chart 2

<Results of on-board tests>

(1) Quantity of steam generated

The numerical performance target of 100 kilograms per hour or more was cleared. Taiko Engineering also confirmed that applying soot blowers was effective to lessen secular changes.

(2) It confirmed that the Hi Eco Silencer performed even higher than needed to achieve the goal of reducing pressure losses to 1.5 kilopascals or lower and attenuations to 15 decibel A or lower.

(3) With reductions in fuel costs for operating auxiliary boilers, the initial costs for installing Hi Eco Silencers can be recovered in a period of three to five years (depending on ship type).

Taiko Engineering is deeply grateful to Japan Ship Machinery and Equipment Association (JSMEA) for helping it develop the Hi Eco Silencer with financial support from The Nippon Foundation.

TAIKO SANGYO CO., LTD.



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<http://www.taiko-jpn.com>

About JSMEA Genuine Product Label



To eliminate non-genuine products

For ship owners, operating their ships safely is essential when offering services to customers and having crewmembers fulfill their on-board duties. Japanese ship machinery and equipment makers assist ship owners by manufacturing products of high quality and providing professional after-sales services.

In recent years, however, products of poor quality that are counterfeits of Japanese ship machinery and equipment parts and components have been used widely. It is feared that such non-genuine products could cause defects of ship machinery and equipment, and inviting ship accidents and subsequently pollution of the marine environment.

In addition, ships could be banned from operating if discovered in ship, port-state-control (PSC) and other inspections to have machinery and equipment products that do not comply with international conventions (i.e., the SOLAS and MARPOL conventions).

JSMEA Genuine Product Label

In some cases, ship owners use non-genuine products, believing they are genuine products, when non-genuine products are delivered together with genuine products, making them hard to differentiate.

As such, the JSMEA has come up with the JSMEA Genuine Product Label. Currently, the label is used by the member companies listed below.



Application on product
(Pump sleeve)



Application on packing material
(Pump seal cage)



Application on
letter of transmittal

Companies using JSMEA Genuine Product Label:

Akasaka Diesels Ltd.
Conhira Co., Ltd.
Daihatsu Diesel Mfg. Co., Ltd.
Furuno Electric Co., Ltd.
The Hanshin Diesel Works, Ltd.
HEISHIN Ltd.
HSN-kikai kogyo Co., Ltd.
Ishii Machinery Works, Co., Ltd.
Japan Hamworthy & Co., Ltd.
Kanagawa Kiki Kogyo Co., Ltd.

KEI System Co., Ltd.
Matsui iron works Co., Ltd.
Misuzu Machinery Co., Ltd.
Nakakita Seisakusho Co., Ltd.
Naniwa Pump Mfg. Co., Ltd.
Niigata Power Systems Co., Ltd.
Osaka Blower Mfg. Co., Ltd.
Sanshin Electric Corporation
Sasakura Engineering Co., Ltd.
Shimada & Co., Ltd.

Shinko Ind. Ltd.
Shoyo Engineering Co., Ltd.
Taiko Kikai Industries Co., Ltd.
Tanabe Pneumatic Machinery Co., Ltd.
Teikoku Machinery Works, Ltd.
Tokyo Keiki Inc.
Uzushio Electric Co., Ltd.
Wakefield Corporation
Yanmar Co., Ltd.
Yamashina Seiki Co., Ltd.

JSMEA to attend following international exhibitions in FY2015

IMPA London 2015	Days: Wednesday-Thursday, Sept. 9-10, 2015 Place: London, the U.K.
Kormarine 2015	Days: Tuesday-Friday, Oct. 20-23 Place: Busan, South Korea
Marintec China 2015	Days: Tuesday-Thursday, Dec. 1-4 Place: Shanghai, China
SMP World Expo 2016	Days: Thursday-Saturday, March 3-5, 2016 Place: Mumbai, India
Asia Pacific Maritime 2016	Days: Wednesday-Friday, March 16-18 Place: Singapore



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