

Jsmea News

To commemorate the 100th issue of JSMEA News



No. 1
(Chairman, Tomio NOJIMA)



No. 50
(Chairman, Hideo WASHIO)



Chairman
Zenshichi AKASAKA

between the old JSMEA and The Ship-Machinery Manufacturers' Association of Japan.

The output value of marine equipment, which stood at ¥700 billion in 1979, rose to ¥1.3 trillion by 2008. The exported value of such equipment (separate products) increased from ¥150 billion in 1979 to over ¥400 billion by 2008. The growth of both production and export over these 30 years are traced in the statistical graphs for the 1979-2008 period on the following pages. We believe they will illustrate the business advancement of the Japanese marine

equipment industry.

This issue carries the first page of all the newsletters through No. 99. As the space allotted per issue is limited, you may not be able to read the text; but as the hot topic at the time of issue is featured as the lead article, you should get an idea of the social environment then surrounding the Japanese marine equipment industry.

JSMEA intends to continue to keep readers informed of the current situation in the Japanese marine equipment industry through JSMEA News. To enable us to continuously enhance the quality of this newsletter, we kindly request your candid opinions.

It is with great pleasure that I present this message on the auspicious occasion of the publication of the 100th issue of JSMEA News.

JSMEA News is an English-language newsletter inaugurated in 1979 by the then JSMEA (Japan Ship Machinery Export Association) to promote the Japanese marine equipment industry to maritime interests abroad, including those in the shipping, shipbuilding and marine equipment industries.

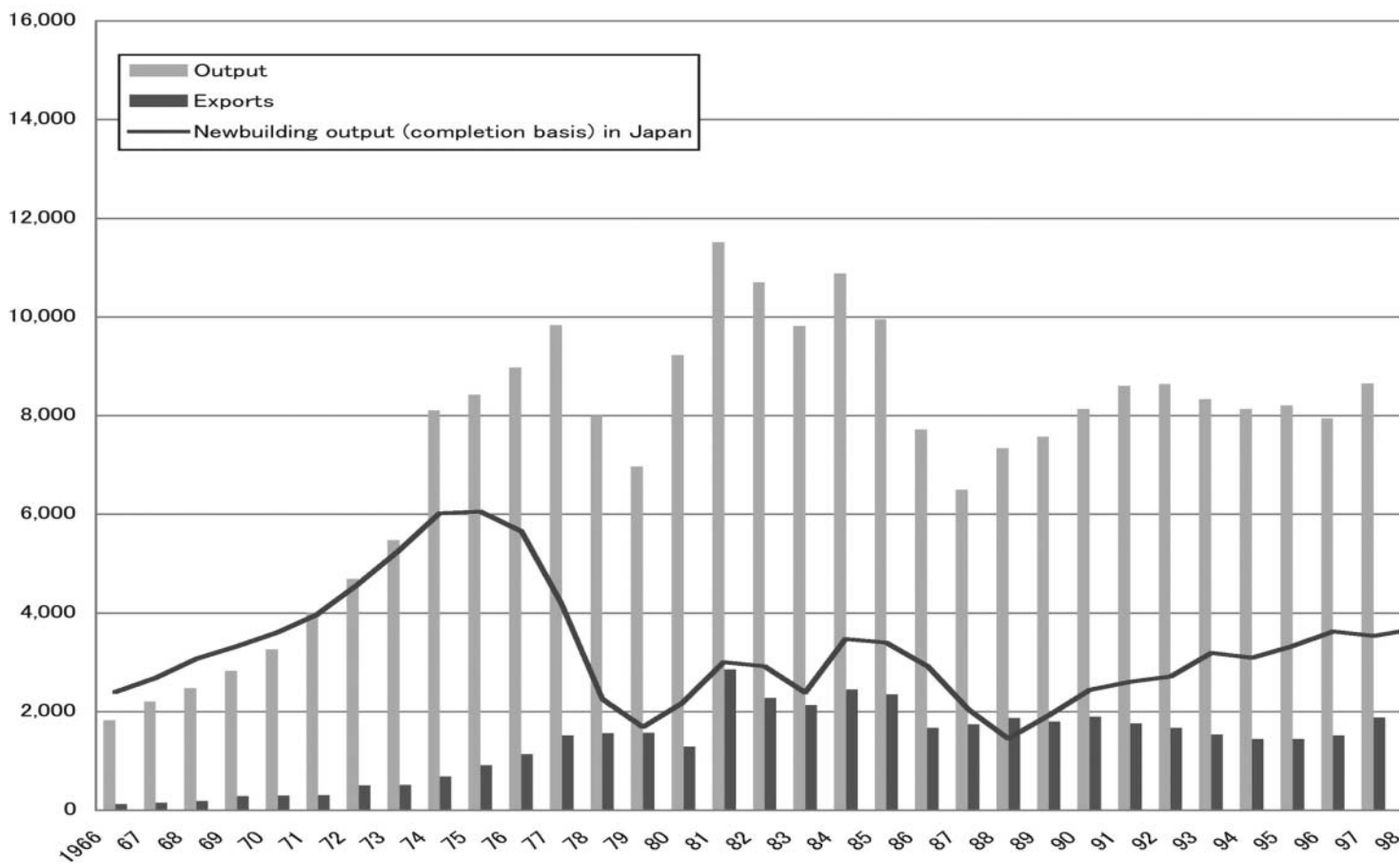
From 1979 to 1990 (Issues No. 1 to No. 49), the newsletter was published by the former JSMEA, and from 1991 to the present (No. 50 to No. 100 [this issue]), the newsletter has been in the hands of the new JSMEA, which resulted from a merger in 1991





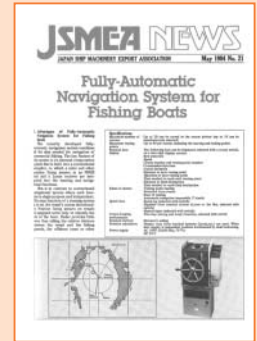
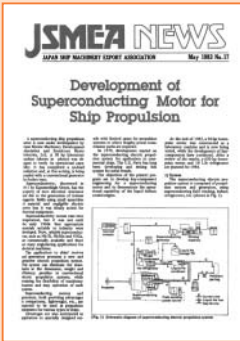
Output, Exports and Imports (all in values) of Marine Equipment in, from or to Japan and Newbuilding Output by Year

in hundred million yen

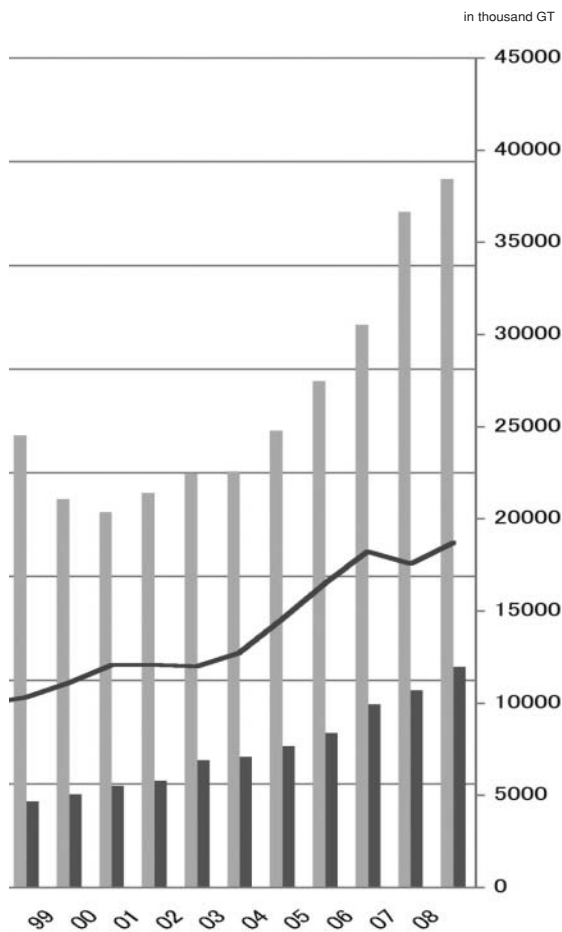


Source: Newly completed tonnage in Japan according to Lloyd's statistics (covering ships of 100 GT and over) in the Ministry of Land, Infrastructure, Transport and Tourism (MLIT)'s Maritime Bureau report "Trends of Japanese Marine Equipment Industry"

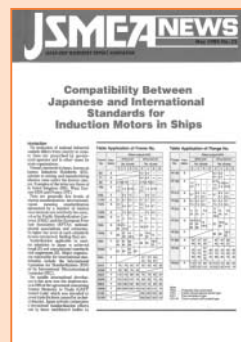


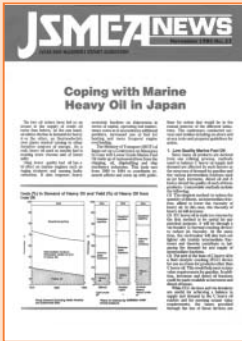


Chronology of Japan Marine Equipment Association (JSMEA)



- 1979 Tomio Nojima succeeds chairmanship
- 1980 Committee for Corporate Basis Strengthening Measures set up
- 1984 Study Committee for Long-Term Future Vision of Marine Equipment Industry set up
- 1985 Research Committee for Future Trends of Marine Equipment Industry established
- 1987 Anti-recession measures drawn up
- 1987 Large diesel engine cartel implemented (until September 1989)
- 1988 Hideo Washio succeeds chairmanship
- 1988 Secondhand Marine Engine Appraisal Committee launched
- 1990 Preparatory Committee for Formal Qualification of Marine Engine Service Technicians launched
- 1991 Merges with Japan Ship Machinery Export Association
- 1992 Desirable Future Orientation of Marine Equipment Industry Looking Ahead to 21st Century formulated
- 1992 Singapore Service Center closes
- 1993 Tadao Yamaoka succeeds chairmanship
- 1993 Measures for strengthening of international competitiveness set forth
- 1994 Succeeds technological development activities of Japan Ship's Machinery Development Association through liquidation
- 1995 Rotterdam Service Center closes
- 1995 Marine Engine Service Association of Japan launched
- 1995 New Long-Term Future Vision of Marine Equipment Industry formulated
- 1996 Research on Promotion of Advanced IT Orientation of Marine Equipment Industry begins (until 2001)
- 1997 Committee for International Competitiveness Strengthening Measures established
- 1998 Committee for Anti-recession Measures Related to Coastal Shipping and Fishing Fleet Set up
- 2000 JETRO Shanghai Office opens
- 2000 ZoHaku Web Ltd. established
- 2001 JSMEA Action Plan formulated
- 2001 Developmental Research on Practical Application of Engine Remote Diagnosing System for Coasting Ships starts (until 2003)
- 2002 Council for Anti-imitation Measures set up
- 2003 Yoshio Tamura succeeds chairmanship
- 2004 New product development activities started
- 2004 Membership grows
- 2005 Masahiro Tsuji succeeds chairmanship
- 2007 Zenshichi Akasaka succeeds chairmanship
- 2007 Promotion of retention and development of human resources started





JSMEA's Action Plan 2010

1. Promotion of communication and collaboration within industry and outside

<Response to reform of public-interest entity system>

• In view of the full implementation of the three laws regarding the reform of public-interest entities since December 2008, a Subcommittee for Studying the Public-Interest Entity Reform Issue (tentative name) shall be established under the Policy Committee to discuss the matters studied by the working group set up within the secretariat and thereby to make specific preparations for application for approval of the shift to a reformed status.

<Further vitalization of sector-by-sector working groups, etc.>

• Communication and collaboration within the industry shall be strengthened, and steps shall be taken to further vitalize sector-by-sector working groups, etc.

<Next-Generation Conference>

• Regarding the Conference of Next-Generation Marine Equipment Business Managers, etc. (Next-Generation Conference, information exchange and personal contact shall be actively encouraged among young business managers, etc., who will lead the next generation of the industry.

<Anti-piracy measures>

• Regarding copyright infringement, activities meeting the needs of member-companies shall be continued including international information exchange, strengthened collaboration in each sector and use of anti-piracy tools.

<Responses to regulatory issues in and out of Japan>

• A Regulatory Problems Working Group (tentative name) shall be established under the Policy Committee to exchange information on regulatory problems in and out of Japan, including the issue of inter-class authorization of marine equipment, etc., by the EU, and study steps to be taken, as required, to address these problems appropriately.

<Shipping industry>

• Informal discussion meetings shall be held between officers in charge of engineering of the six major ocean shipping companies and members of JSMEA's Policy Committee to exchange information and opinions on common problems of the two industries.

• The possibility of holding informal discussion meetings regarding technical problems, etc., pertaining to coastwise ships, between engineering experts of coastwise shipping companies and specialists in the marine equipment industry shall be studied.

<Shipbuilding industry>

• Informal discussion meetings shall be held between the Planning Committee of The Shipbuilders' Association of Japan and members of JSMEA's Policy Committee to exchange information and opinions on common problems of the two industries.

• Informal discussion meetings shall be held between the Policy Committee of The Cooperative Association of Japan Shipbuilders and members of JSMEA's Policy Committee to exchange information and opinions on common problems of the two industries.

<Government agencies, etc.>

• "Informal Discussion Meetings on Smaller Vessel Technology" shall be held to exchange information on technical problems including functional upgrading of equipment mounted on patrol vessels.

• Informal discussion meetings shall be held with Nippon Kaiji Kyokai (NK) to exchange information and opinions regarding classification, both domestic and international affairs and problems pertinent to the marine equipment industry.

• Information regarding technical problems pertaining to coastwise ships shall be exchanged with the Japan Railway Construction, Transport and Technology Agency (JRTT) at the secretariat level.

• Information regarding technical problems pertaining to fisheries shall be exchanged with the Fishing Boat and System Engineering Association of Japan at the secretariat level.

• Specific actions in collaboration with client industries

<Research regarding functional integration of marine equipment> (FY2009-2010)

• Under this project implemented for two years from fiscal 2009 through 2010 with a grant from The Nippon Foundation, modularized designing of the whole engine room shall be accomplished and its commercial feasibility studied to verify the technical and economic effectiveness of modu-





larization and to spell out a proposal for the promotion of modularization.

2. Promotion of retention and development of human resources

<Recognition of Marine Equipment Meisters>

• Distinguished craftsmen supporting the marine equipment industry shall be officially recognized as Marine Equipment Meisters, and efforts shall be made to enhance the status of this system. Commendation systems of the national government and other authorities shall be actively utilized to reward recognized Meisters.

<Lecture donation, etc.>

• To enhance the public image of the industry as part of the initiative to secure human resources, donated lectures on the practical aspects of the marine equipment industry shall be given in fiscal 2010 as in the preceding year at the Tokyo University of Marine Science and Technology and Kobe University, and presentation meetings on the industry shall be held at both universities.

<Education of working adults>

• Opportunities for on-the-job training shall be given onboard Kobe University's training ship Fukae Maru and Yuge National College of Maritime Technology's Yuge Maru as in fiscal 2009, and consultation shall be held with the Tokyo University of Marine Science and Technology for a similar opportunity aboard its training ship Shioji Maru.

• A maritime learning course on "practical maritime English" shall be given as in 2009. Regarding the "outline of shipping and shipbuilding," the Subcommittee for Measures to Secure and Develop Human Resources shall formulate the contents to meet JSMEA members' needs on the basis of the results of the first year of implementation, and the WG shall determine the specifics of implementation.

3. Positive contribution to safety and environmental conservation

<Strengthened responses to regulation by IMO, etc.>

• Regarding safety and environmental regulations by the IMO and other authorities, positive actions shall be taken on an industry-wide basis by participating in the formation of the following international standards among others while helping form a consensus in the industry through working groups and

other channels.

- Ship exhaust gas control by IMO
- Ship-recycling under IMO rules
- Adaptation of marine equipment to rules of IMO, ISO, IEC, etc.

- Adaptation to IMO rules on bilge treatment, etc., in ships
- Inboard network standards, etc., prescribed by ISO and/or others

• Actively addressing environmental issues

<R&D of "Super-clean Marine Diesel"> (FY2007-2010)

• In response to the IMO's moves for tightened control of ship gas exhaust, the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) is promoting the "R&D project for environmentally sound engines," and the JSMEA shall actively cooperate in the promotion of this project.

• As part of this project, promotion of the R&D of "Super-clean Marine Diesel", an advanced environmentally sound marine diesel engine, shall be continued this fiscal year with a grant from The Nippon Foundation.

- The low-speed engine group shall undertake technological development regarding a post-treatment device (SCR denitrifying device), suitable for the low exhaust temperature (around 250 C) of low-speed engines, for low-speed two-stroke and four-stroke diesel engines to reduce NOx emissions by 60 percent to 80 percent.

- The medium-speed engine group shall undertake technological development regarding combustion improvement of the engine itself and an SCR denitrifying device for medium-speed diesel engines to reduce NOx emissions by 80 percent.

- The small high-speed engine group shall undertake technological development regarding combustion improvement of the engine itself and an SCR denitrifying device for small high-speed main engines and small auxiliary engines to reduce NOx emissions by 80 percent.

• Also, design guidelines to ensure appropriate mounting of the denitrifying device onboard shall be set forth.

<Onboard tests of "Super-clean Marine Diesel"> (FY2009-2011)

• In order to confirm and demonstrate the performance of the SCR denitrifying device and other elements in "Super-clean Marine Diesel" with the grant from The Nippon Foundation, demonstration tests by the three groups for low-speed, medi-





um-speed and small high-speed engines shall be promoted. For this fiscal year, the production and onboard mounting of denitrifying devices for the tests are scheduled.

<Matters related to energy saving>

• Regarding the marine engine-building business, an autonomous action plan shall be set forth with a target of 30 percent reduction (compared with FY 1990) in energy consumption basic unit in diesel engine production, and CO2 emissions cuts encouraged accordingly.

<Ship recycling>

• In connection with the adoption of the Ship Recycling Convention in May 2009, efforts shall continue to make the convention extensively known and promote its understanding, and to ensure smooth implementation of the convention by participating in related committees of the national government and the Japan Ship Technology Research Association with the opinions of the industry and other relevant factors kept in mind.

4. Vitalization of technological development

<Projects of financial aid to new product development>

• In order to vitalize new product development activities in the industry, the following five projects for new product development shall be implemented with financial grants from The Nippon Foundation.

- Technological development for high-efficiency, low-cost propeller made of composite material (continued) (FY2009-2011)
- Technological development for containerized generator plant for regular use (continued) (FY2009-2010)
- Technological development for main engine fuel oil heating system utilizing exhaust heat of main diesel engine of coasting ship (new)
- Technological development for steering system operation monitoring device (new)
- Technological development for exhaust heat recovering type silencer (new) (FY2010-2011)

• Background improvement for vitalization of new product development

<FS projects>

• Feasibility studies (FS) regarding new product development shall be made in the following five areas with an eye to assisting in the exploration of themes for new product devel-

opment projects with grants from The Nippon Foundation.

- Research on waterproof LED lighting for marine use
- Research on applicability of highly anticorrosive ozone-oxidized coat to plate type heat exchangers
- Research on improvement of performance of self-sucking pumps
- Research on development of bearing wear sensor
- Research on starting method for induction motors for electrical propulsion use

<Study conferences>

• The following study conferences shall be held to conduct necessary research activities with the participation of outside knowledgeable persons among others and to put together the industry's proposals, etc.

- Inboard LAN study conference
- Engine room modularization study conference

• Also, on the basis of the results of the "Learning session regarding development of environmentally sound marine equipment" held last fiscal year, the possibility of setting up a new study conference shall be discussed.

<Marine Technology Forum>

• A Marine Technology Forum shall be held to help enhance knowledge of shipbuilding and ship-related technology and contribute to the exploration of new themes as well as the formulation of technological strategies.

<Discussion on vitalization of technological development>

• At the Subcommittee on Technological Development Strategy, the desirable orientation, vitalization and other aspects of technological development shall be discussed in a medium to long-range perspective.

5. Encouragement of global presence

<Promotion of international exchanges>

• Exchanges with the following maritime organizations overseas shall be maintained on a continuing basis with a view to closer collaboration.

- Korea Marine Equipment Association (KOMEA)
- China Association of the National Shipbuilding Industry (CANSI)
- European Marine Equipment Council (EMEC)

See page 12



Emergency Generator Module, Kitchen Module and Silencer

Taiko Sangyo Co., Ltd., based in Onomichi, Hiroshima Prefecture, has been in operation for 42 years, since its inauguration in 1968.

This article features emergency generator modules, kitchen modules and silencers from the company's broad range of products.

Emergency Generator Module, the Standard Bearer of Modules



(Fig. 1)

Since the onboard installation of the first unit of this kind of module 10 years ago, the product has found its way onto an increasing number of ships (Fig. 1).

This module is housed in a container of only 36 m³, representing a dramatic downsizing of the emergency generator room whose required cubic capacity used to average 175 m³.

Only by installing this module on a small part of the deck, the requirements for emergency power generation can be satisfied. Taiko can deliver this module meeting the client's different specifications including the power output, whether the generator is air-cooled or water-cooled.

The emergency generator module has the following notable advantages.

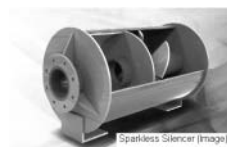
- 1) Permits a substantial cost saving (of 15%).
- 2) Requires no emergency generator room.
- 3) Needs only plug-in fitting with the yard equipment.
- 4) Simplified in related designing and outfitting tasks.
- 5) Quality enhancement and quicker construction through work improvement.

Taiko Sangyo took full advantage of its experience with this emergency generator module in developing the kitchen module, which is to be described below (Fig. 2).

As this module is to be installed inboard, its shape may be hexahedral or pentahedral without a bottom. Since it requires fitting of no utensils in the shipyard, the kitchen can have a extremely high precision finish.

Silencer Embodying Technology Built Up over 32 Years (Fig. 3)

The silencer has two roles: to reduce noise and to prevent sparks of fire from being scattered. Regarding noise, the main target of reduction is noise affecting the ear, especially noise in the low frequency range. A series of studies has resulted in an overall attenuation by as much as 35 dB(A).

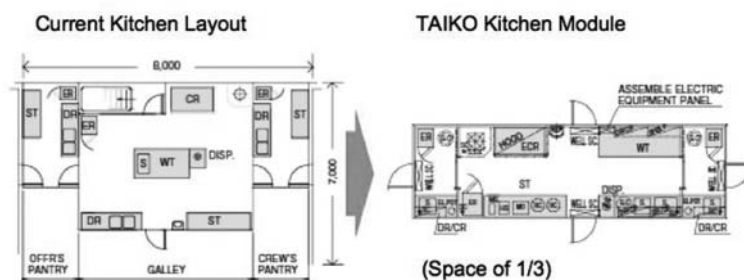


(Fig. 3)

Concerning the prevention of sparks from scattering, it is well known that coasting tankers known as "white oil tankers" are not allowed to enter any port unless provision is made for this prevention.

As such, noise is typically addressed with a silencer and spark control with a spark arrester. What meets both requirements is a spark-free silencer suitable for smaller vessels. Taiko's technology is derived from its experience with the HZME silencer, whose basic development was achieved by Hitachi Zosen Manufacturing & Engineering (HZME). TAIKO SANGYO succeeds to this technology, and it has made it to the solidified one. In the past, the company has released a number of reports on the achievements of its joint research with the National Maritime Research Institute. Over the last 32 years, the company has delivered a total of more than 6,000 units of such products for practical use. Some of them were delivered to the Japanese Ministry of Defense.

Any of the products featured in this article is always ready for delivery. For further information, please inquire with Taiko Sangyo Co., Ltd.



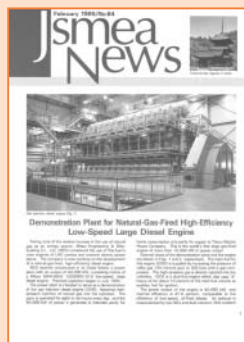
(Fig. 2)



TAIKO SANGYO CO., LTD.

Address: 9515-1, Mukaishima-cho, Onomichi-shi, Hiroshima, 722-0073 Japan
 Tel: +81-484-44-5000 Fax: +81-848-44-5779
 E-mail: info@taiko-jpn.com URL: http://taiko-jpn.com





AALBORG INDUSTRIES K.K.

Makler Kobe Bldg., 2-2, 4-chome, Kumoi-dori, Chuo-ku, Kobe 651-0096, Japan
 TEL: 81-78-2715720, FAX: 81-78-2715741, E-mail: sal@aalborg-industries.co.jp, URL: www.aalborg-industries.com
 Exhibit: Steam Boiler, Exhaust Gas Economizer, Thermal Fluid Heaters, Inert Gas Systems, Green Technology

AKASAKA DIESELS LIMITED

5F Center Bldg., 670-6 Yanagiaraaya, Yaizu-shi, Shizuoka-ken 425-0074, Japan
 TEL: 81-54-685-6080, FAX: 81-54-685-6079, URL: www.akasaka-diesel.jp/
 Exhibit: New model four-cycle engine"AX33B", AKASAKA-MITSUBISHI UE"LSE"Series, Diesel particulate filter (heavy oil)

CONHIRA CO., LTD.

Boueki Biru 6F 123 Higashimachi Chuo-ku, Kobe 650-0031, Japan
 TEL: 81-78-332-2130, FAX: 81-78-321-2190, E-mail: info@conhira.com, URL: www.conhira.com/
 Exhibit: Newly developed Automatic Back wash Strainer, Countermeasure Machine against Poor Fuel oil contained Almina,Silica

DAIHATSU DIESEL MFG. CO., LTD.

1-30, Oyodo Naka 1-Chome, Kita-ku, Osaka 531-0076, Japan
 TEL: 81-6-6454-2393, FAX: 81-6-6454-2680, URL: www.dhtd.co.jp
 Exhibit: e-Diesel, OIL MIST DETECTOR (MODEL:MD-SX)

FUJI TRADING CO., LTD.

6, Fukaehamamachi, Higashinada-ku, Kobe 658-0023, Japan
 TEL: 81-78-413-2601, FAX: 81-78-413-1386, E-mail: mhq@fujitrading.co.jp, URL: www.fujitrading.co.jp
 Exhibit: IMPA Guide Book & CD-ROM, Technical and IT Services with our Global Network

GEISLINGER K.K.

505 KIBC 5-5-2 Minatojima-Minamimachi, Kobe, Hyogo 650-0047, Japan
 TEL: 81-78-3028128, FAX: 81-78-3028129, E-mail: info@geislinger.jp, URL: www.geislinger.com
 Exhibit: Geislinger Coupling, Geislinger Gesilco Coupling, Geislinger Carbotorq Coupling, Geislinger Vdamp, Geislinger Monitoring

HITACHI NICO TRANSMISSION CO., LTD.

405-3, Yoshinocho, 1-chome, Kita-ku, Saitama 331-0811, Japan
 TEL: 81-48-652-6708, FAX: 81-48-652-8719, URL: www.hitachi-nico.jp
 Exhibit: Marine Gears for CRP at Electrical Propulsion, QuickShift Marine Gears

HSN-KIKAI KOGYO CO., LTD.

5-30, Furuta 1-Chome, Harima-cho, Hyogo Pref. 675-0146, Japan
 TEL: 81-79-4363002, FAX: 81-79-4363014, URL: www.hsn-kikai.com/
 Exhibit: MODULE UNIT

IBUKI KOGYO CO., LTD.

7-28 Takadono1Chome, Asahiku, Osaka 535-0031, Japan
 TEL: 81-6-69225115, FAX: 81-6-69243567, E-mail: ibukimk@ibukikogyo.co.jp, URL: www.ibukikogyo.co.jp
 Exhibit: LED Lighting Device, Bridge Navigational Watch Alarm System (BNWAS), WHISTLE SYSTEM, Ex-proof Alarm Equipment

JAPAN HAMWORTHY CO., LTD.

Omodaka Bldg., 1-15-1 Shigino-nishi Joto-ku Osaka 536-0014, Japan
 TEL: 81-6-6962-8877, FAX: 81-6-6962-8899, E-mail: jhc@japanham.co.jp, URL: www.japanham.co.jp
 Exhibit: Rudder Angle Indicator with monitor, Vectwin Rudder System, Schilling Rudder, Mariner Schilling Rudder

JAPAN RADIO CO., LTD.

Fujisawa Bldg. 30-16, Ogikubo 4-chome Suginami-ku, Tokyo 167-8540, Japan
 TEL: 81-3-6832-1807, FAX: 81-3-6832-1844, URL: www.jrc.co.jp/
 Exhibit: Radar, ECDIS, GMDSS, Inmarsat, Remote Maintenance System





JFE ENGINEERING CORPORATION

2-1, Suehiro-cho, Tsurumi-ku, Yokohama 230-8611, Japan
 TEL: 81-45-5056538, FAX: 81-45-5057469, E-mail : teranishi-masahiro@jfe-eng.co.jp, URL: www.jfe-eng.co.jp
 Exhibit: JFE BallastAce

JRCS CORPORATION

1-2-14 Higashiyamato-machi, Shimonoseki, Yamaguchi, 750-8515, Japan
 TEL: 81-83-2610300, FAX: 81-83-2610330, E-mail : jrccs@jrccs.co.jp, URL: www.jrccs.co.jp
 Exhibit: New Power Management System, New Alarm Monitoring System, New Soft Starter

KANAGAWA KIKI KOGYO CO., LTD.

NO.19-1, OKAMURA 8 CHOME, ISOGO-KU, YOKOHAMA 235-0021, JAPAN
 TEL: 81-45-7533800, FAX: 81-45-7550089, E-mail : sales@kanagawa-kiki.co.jp, URL: www.kanagawa-kiki.co.jp/
 Exhibit: DUPLEX TYPE STRAINER, AUTOMATIC BACKWASHING FUEL OIL STRAINER

KEI SYSTEM CO., LTD.

1-5, 1-CHOME, IKUNONISHI IKUNO-KU, OSAKA 544-0024, JAPAN
 TEL: 81-6-67121151, FAX: 81-6-67121311, E-mail : info3@kei-system.co.jp, URL: www.kei-system.co.jp
 Exhibit: DATA LOGGER SYSTEM, LOCAL BOX, ILS I/O module, HAZERD ROBOT

MANABE ZOKI CO., LTD.

337 Takabe, Imabari-City, Ehime 799-2113, Japan
 TEL: 81-898-419217, FAX: 81-898-416568, E-mail : eigyou_2@manabezoki.co.jp, URL: www.manabezoki.co.jp/en/
 Exhibit: EH-CRANE (Eco High performance), Deck Crane, Horse Handling Crane, Deck Machinery (Hydraulic Driven)

mitsubishi KAKOKI KAISHA, LTD.

Miyamae-cho, Kawasaki-ku, Kawasaki, Kanagawa 210-0012, Japan
 TEL: 81-44-2467260, FAX: 81-44-2467280, E-mail : hp@kakoki.co.jp, URL: www.kakoki.co.jp/
 Exhibit: Ballast Water Treatment System 'Mitsubishi VOS System', Mitsubishi Oil Purifier 'SJ-G series'

MITSUI ENGINEERING & SHIPBUILDING CO., LTD.

3-16, Nihonbashi 1-chome, Chuo-ku, Tokyo 103-0027, Japan,
 TEL: 81-3-52023985, FAX: 81-3-52023988, E-mail : hiro@mes.co.jp, URL: www.mes.co.jp/english/index.html
 Exhibit: Optimized Navigation Support Service, Fleet Monitor, Fleet Navi, Ship Performance Analysis

MURAYAMA DENKI LTD.

2-13-1, Gohongi, Meguro-ku, Tokyo 153-0053, Japan
 TEL: 81-3-37115201, FAX: 81-3-37193600, E-mail : info@murayama-denki.co.jp, URL: www.murayama-denki.co.jp/eng
 Exhibit: Multipoints Alarm Capture unit MAC-6000, Graphic Recorder MKR-3, Shipboard LAN output type jointbox LB-3000

NABTESCO CORPORATION

1617-1 Fukuyoshidai 1-chome, Nishi-ku, Kobe 651-2413, Japan
 TEL: 81-78-967-5361 FAX: 81-78-967-5362, URL: www.nabtesco.com
 Exhibit: New Type Governor Controller, Bridge Maneuvering System For Next Generation, FIVA, MPC

NAKASHIMA PROPELLER CO., LTD.

688-1, Joto-kitagata, Higashi-ku, Okayama 709-0625, Japan
 TEL: 81-86-2795111, FAX: 81-86-2793107, E-mail : npcwebmaster@nakashima.co.jp, URL: www.nakashima.co.jp
 Exhibit: Side Thruster, BMS TLFKSR Rudder, NAKASHIMA Pod Propulsion System, SCHOTTEL Rudder Propeller

NANIWA PUMP MFG. CO., LTD.

11-5, Shinmachi 3-chome, Nishi-ku, Osaka 550-0013, Japan
 TEL: 81-6-65416131, FAX: 81-6-65351884, E-mail : info@naniwa-pump.co.jp, URL: www.naniwa-pump.co.jp
 Exhibit: Main Cool. Sea Water Pump, Cargo Pump





NIPPON HAKUYO ELECTRONICS, LTD. 2-40-7, Higashi-kanagawa, Kanagawa-ku, Yokohama 221-0044, JAPAN

TEL: 81-45-4536911, FAX: 81-45-4536910, E-mail : nippaku@nhe.co.jp, URL: www.nhe.co.jp

Exhibit: MARINE DIGITAL TELEPHONE EXCHANGER IP-PBX, LAN TYPE MASTER CLOCK, BATTERYLESS TELEPHONE

NISHISHIBA ELECTRIC CO., LTD. SHIBA SIA BLDG. 6-10, SHIBA 1-CHOME, MINATO-KU TOKYO 105-0014, JAPAN

TEL: 81-3-34546411, FAX: 81-3-34546340, E-mail : masami.ishino@nishishiba.toshiba.co.jp, URL: www.nishishiba.co.jp

Exhibit: ELECTRIC PROPULSION SYSTEM, TURBO CHAGER GENERATING SYSTEM, SHAFT GENERATING SYSTEM

NYK TRADING CORPORATION YS Kaigan Bldg. 2-2-6, Kaigan, Minato-ku, Tokyo 105-0022, Japan

TEL: 81-3-57651822, FAX: 81-3-57651872, E-mail : salespromotion@yusenchoji.co.jp, URL: www.yusenchoji.co.jp/

Exhibit: Fire Detection System (Autro Prime), Marine Fuel-Consumption Indicator (FUELNAVI), IP68 Grade Electric Type Butterfly Valve

SEKIGAHARA SEISAKUSHO LTD. 2067, Sekigahara, Fuwa-gun, Gifu-pref. 503-1593, Japan

TEL: 81-584-431211, FAX: 81-584-431218, E-mail : marine@sekigahara.co.jp, URL: www.sekigahara.co.jp

Exhibit: Electric Free-fall Lifeboat Launching System, Electric Rescueboat Launching System, PALSEK Foldable Crane

SHONAN CO., LTD. 6-5-3, Omori-Nishi, Ota-ku, Tokyo 143-0015, Japan

TEL: 81-3-37622431, FAX: 81-3-37622435, E-mail : head-of@the-shonan.co.jp, URL: www.shonanlighting.com/

Exhibit: LED floodlight, Exprosin type metalhalide handy light

SUCTION GAS ENGINE MFG. CO., LTD. No.10-4, 6-Chome Higashisuna Koto-Ku Tokyo 136-0074, Japan

TEL: 81-33646-5131, FAX: 81-33646-5357, E-mail : info@suction.co.jp, URL: www.suction.co.jp

Exhibit: Air Compressor

TAIKO KIKAI INDUSTRIES CO., LTD. 209-1, Shimotabuse Tabusecho Kumagegun Yamaguchi Pref. 742-1598, Japan

TEL: 81-820-523113, FAX: 81-820-531001, E-mail : business@taiko-kk.com, URL: www.taiko-kk.com

Exhibit: 3 screw pump

TAIKO SANGYO CO., LTD. 9151-1, Mukaishima-cho, Onomichi-si, Hiroshima 722-0073, Japan

TEL: 81-848-445000, FAX: 81-848-445779, E-mail : info@taiko-jpn.com, URL: taiko-jpn.com

Exhibit: Emergency Generator Module, Thermal Energy Storage Module System, A-60 Class Electric cable fire prevention system

TANABE PNEUMATIC MACHINERY CO., LTD. 2-14-6, Senrioka Settsu-shi, Osaka 566-0001, Japan

TEL: 81-6-63881331, FAX: 81-6-63884400, E-mail : info@tanacomp.co.jp, URL: www.tanacomp.co.jp

Exhibit: Diesel Engine Starting Air Compressor

TEIKOKU MACHINERY WORKS, LTD. 4-31, Utajima 2-chome, Nishiyodogawa-ku, Osaka 555-0021, Japan

TEL: 81-6-64721664, FAX: 81-6-64749303, E-mail : sales@teikokupump.co.jp, URL: www.teikokupump.co.jp

Exhibit: Self Priming Pump

TERASAKI ELECTRIC CO., LTD. 7-2-10 Hannancho, Abenoku, Osaka 545-0021, Japan

TEL: 81-6-66921241, FAX: 81-6-66945490, E-mail : hakuei-osaka@terasaki.co.jp, URL: www.terasaki.co.jp

Exhibit: Distributed Integration System, Circuit Breaker





TOKYO KEIKI INC.

2-16-46, Minami-Kamata, Ohta-Ku, Tokyo 144-8551, JAPAN
 TEL: 81-3-37378631, FAX: 81-3-37378666, URL: www.tokyo-keiki.co.jp/marine/e/index.html
 Exhibit: AUTOPILOT (HCS), ECDIS, Marine Radar, Radio Communications, Inmarsat, Radar Level Gauge, Valve Remote Control

UTSUKI KEIKI CO., LTD.

3530, Kamiyabe-cho, Totsuka-ku, Yokohama 245-0053, Japan
 TEL: 81-45-8131239, FAX: 81-45-8110425, E-mail : overseas-sales@utsukikeiki.co.jp, URL: www.utsukikeiki.co.jp/
 Exhibit: Ballast M-Valve Control System, Detector, Valve (OKM), Inclinometer for Determining Center of Gravity

VOLCANO CO., LTD.

1-3-38, Nonaka-kita, Yodogawa-ku, Osaka 532-0034, Japan
 TEL: 81-6-6392 5541, FAX: 81-6-6396 7809, E-mail : m-adachi@volcano.co.jp, URL: www.volcano.co.jp
 Exhibit: BURNER FOR BOILER, INCINERATOR

WOODS CORPORATION

4-105, Moritomo, Nishi-ku, Kobe 651-2132, Japan
 TEL: 81-78-9215000, FAX: 81-78-9288322, E-mail : sales@woods-corp.co.jp, URL: www.woods-corp.co.jp
 Exhibit: Oil Mist Detectors by Schaller Automation, Integrated INS & Machinery AMCS on Multi-Function Workstation

YAMASHINA SEIKI CO., LTD.

525, Higashisaka, Ritto-city, Shiga Prefecture 520-3001, Japan
 TEL: 81-77-5582311, FAX: 81-77-5582319, E-mail : info@yasec.co.jp, URL: www.yasec.co.jp
 Exhibit: Lubricating System MPL, Lubricating System EDL, Heat Exchanger, Exhaust Valve Grinding Machine, NC-Facing Machine

YAMATAKE CORPORATION

1-12-2, Kawana, Fujisawa-shi, Kanagawa 251-8522, Japan
 TEL: 81-466-527049, FAX: 81-466-202334, URL: jp.azbil.com
 Exhibit: Marine Fuel-Consumption Indicator "FUELNAVI", Energy Management System "EneSCOPE"

YANMAR CO., LTD.

1-1-1, Nagasu Higashi-dori, Amagasaki, Hyogo 560-0056, Japan
 TEL: 81-6-64898069, FAX: 81-6-64891082, URL: www.yanmar.co.jp
 Exhibit: Marine Diesel Engine 6EY18, Electric Propulsion System, Marine Engine Condition Watch and Diagnosis System

YOKOGAWA DENSHIKIKI CO., LTD. 2F Minami Shinjuku Hoshino Bldg., 5-23-13, Sendagaya, Shibuya-ku, Tokyo 151-0051, Japan

TEL: 81-33225-5391, FAX: 81-33225-5325, E-mail : navigation_info@ydk.yokogawa.co.jp, URL: www.yokogawa.com/ydk/
 Exhibit: Gyrocompass, Autopilot, Electromagnetic Log, Peripheral Equipment

SHIPBOARD LAN PROJECT

Exhibit: Research on construction of LAN of ship

The Shipbuilders' Association of Japan

2-2, Toranomon 3-chome, Minato-ku, Tokyo 105-0001, Japan
 TEL: 81-3-5425-9521, FAX: 81-3-5425-9533
 Exhibit: Japanese pavilion organizer group

Japan Marine Equipment Association Kaiyo Senpaku Bldg., 15-16, Toranomon 1-chome, Minato-ku, Tokyo 105-0001, Japan

TEL: 81-3-3502-2041, FAX: 81-3-3591-2206, E-mail : info@jsmea.or.jp, URL: www.jsmea.or.jp
 Exhibit: Japanese pavilion organizer group



To participate in Posidonia 2010

JSMEA will take part in Posidonia 2010 to be held in Athens, Greece, on June 7-11, 2010 with the following 8 member companies.

- Azuma Kako Co., Ltd.
- Daihatsu Diesel Mfg. Co., Ltd.
- Fuji Trading Co., Ltd.
- Heishin Pump Works Co., Ltd.
- NABTESCO CORPORATION
- Taiko Kikai Industries Co., Ltd.
- Uzushio Electric Co., Ltd.
- Yanmar Co., Ltd.



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<Surveys on foreign market trends, etc.>

- With grants from The Nippon Foundation and utilizing the Shanghai and Singapore offices of JETRO and the Ship Machinery Department of the Japan Ship Centre in London, Asian and European maritime information shall be collected. Also, the following surveys shall be made as a special project by JETRO's joint office.

- Shanghai: Survey on realities of technological capabilities of China's marine equipment industry
- Singapore: Survey on market for marine equipment for off-shore engineering use
- London: Survey on business situations and strategies of major European marine equipment enterprises

<Discussion of medium to long-term global perspective>

- The Subcommittee on Global Strategy Discussion shall address desirable orientations of medium to long-term global business development with a view to strengthening the capabilities for global development.
- Reinforcement of international public relations and publicity

<International exhibitions>

- An Exhibition Working Group shall be set up under the Subcommittee on Global Strategy Discussion to discuss more effective display methods, etc., regarding projects to partici-

pate in international exhibitions.

- JSMEA shall exhibit in the following exhibitions overseas with grants from The Nippon Foundation in Japan Booths set up jointly with the Japan Ship Exporters' Association.
 - Posidonia 2010 (June 2010 in Greece)
 - SMM Hamburg 2010 (September 2010 in Germany)
 - SMM Istanbul (January 2011 in Turkey)
- JSMEA shall exhibit in Sea Japan 2010 (April 2010 in Tokyo) at a Japan Booth set up on its own.
- JSMEA shall make preparations for participation as an exhibitor in the following exhibitions overseas with grants from The Nippon Foundation.
 - NOR-SHIPING 2011 (May 2011 in Norway)
 - Marintech China 2011 (December 2011 in China)

<International seminars and international newsletter>

- Consideration for holding international seminars shall be made on the basis of situations of overseas markets for marine equipment and the needs of JSMEA members, among other factors.
- JSMEA News, an international newsletter to make the Japanese marine equipment industry better known, shall be published twice a year with a grant from The Nippon Foundation.

JSMEA

Japan Marine Equipment Association

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21st Floor, Shanghai International Trade Centre, 2201, Yan An Xi Road, Shanghai 200336, P.R.C.
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Hong Leong Building, #38-01 to 05 #37-02A 16 Raffles Quay, SINGAPORE 048581
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