

VIET SHIP 2010 JAPAN NATIONAL STAND

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AKASAKA DIESELS LIMITED

AKASAKA DIESELS LIMITED

Company Outline

AKASAKA DIESELS LIMITED is a Japanese leading manufacturer of main engine for various kinds of vessels.

In 1910, we started our business as engine repairer in Yaizu, a town of fishery in Shizuoka prefecture. Since then we have been manufacturing a lot of engines for fishing boat and magnified our business along with the development of domestic fishery. Subsequently, we expanded our products' coverage to merchant vessels like cargos, tankers and bulk carriers.

Now our products are known worldwide by their highreliability and superior performances based on authentic technologies, which is being succeeded over generations since our foundation.

However, the situation and the demand are always changing and they never let us stop from challenging to the market. We will always support you with customer creed and sincerity, which will surely meet your expectations.

Main Products

- 4 Stroke diesel engine: Akasaka Diesel Engine A TYPE / AX TYPE (1,103kW~3,309kW) T TYPE / K TYPE (625kW~2,000kW) U TYPE (1,838kW~2,427kW)
- 2 Stroke diesel engine: UE Diesel Engine licensed by Mitsubishi Heavy Industries, Ltd.
 UEC50LSE / UEC45LSE (6,225kW~13,280kW)
 UEC50LS II / UEC43LS II / UEC37LS II / UEC33LS II (2,830kW~11,560kW)

Head Office (for Overseas Market)

14th Floor, South Tower, Yurakucho Denki Bldg., 1-7-1, Yurakucho, Chiyoda-Ku,

Tokyo, Japan

Tel: +81-3-6860-9081 Fax: +81-3-6860-9083 E-mail: info@akasaka.co.jp URL: http://www.akasaka-diesel.jp • 6UEC50LS II 8,670kW (127min-1)

• AX33 1,618kW (310min⁻¹)





6UEC50LS II

АХЗЗ

Product Features

Akasaka 4 stroke Diesel Engine

- Turbo charged diesel engine with 6 cylinders in-lined,
- Long stroke design for high efficiency
- Two valve system for high reliability
- Cage type valves (Air intake, exhaust & starting air valves) for easy maintenance
- · Compatibility with Heavy fuel oil

Akasaka-Mitsubishi UE Diesel Engine

- · High reliability as a world wide known brand
- Low specific fuel consumption
- High propeller efficiency
- · Compatibility with low-quality fuel oil
- Easy maintenance
- Space-saving design

DAIHATSU DIESEL MFG. CO., LTD.

DAIHATSU DIESEL MFG. CO., LTD.

Outline of Company

Since its establishment in 1907, Daihatsu Diesel Mfg. Co., Ltd. has pioneered the ages and has maintained a first rate position in the Diesel engine business. Our Diesel engines in the 50 to 7000kW range has been very popular in both the overseas and home markets, confirming Daihatsu Diesel as the leading company in this field. We believe our reputation is the result of our dedicated and consistent efforts to provide reliable products, and that it is our duty as an enterprise to uphold the Daihatsu principles and corporate attitude. Our constant efforts to achieve the highest quality can be seen in the industry-leading quality assurance systems of Daihatsu Diesel's Headquarter and Moriyama Plants, which has been certified by Lloyd's Register Quality Assurance Ltd. as satisfying the requirements of ISO9001.

Daihatsu Diesel, targeting the global market, will continue fostering a progressive business culture. Furthermore, we are fully determined to fulfill the trust and expectations of our valued customers, and to contribute to the society through technological innovations with emphasis on environmental consciousness and quality.

Main Products

Marine Propulsion and Auxiliary Diesel Engines

Tokvo Office

2-10, Nihonbashi-honcho 2-chome, Chuo-ku, Tokyo 103-0023, Japan Tel: +81-3-3279-0827 Fax: +81-3-3245-0395 http://www.dhtd.co.jp

Liaison Offices

 Daihatsu Diesel (Asia Pacific) Pte. Ltd. 128 Pioneer Road, Singapore 639586 Tel: +65-6270-7235 Fax: +65-6270-6236 e-mail: ddap@dds.com.sg

Features of New Model Engine

Developed as a large DC series engine, the DC-32 is reliable and strong, incorporating experiences gained in developing the DK en0gine, and is based on the DC series development concept.

The compression ratio is the highest of any engine in this class, and the piston combustion chamber is shaped optimally for heavy fuel oil combustion, using a highly efficient supercharger. These features ensure stable low-load combustion of heavy fuel oil.

Incorporating an optimal intake port shape, a fuel

injection pump with high injection pressure, and a noncooled fuel nozzle, Daihatsu has achieved low fuel consumption by matching these features to the most suitable conditions. The DC-32 meets increasingly strict environmental regulations by using a shape enabling clean combustion based on an analysis of the combustion chamber.

Taking into operability in projected maintenance, this engine enables the power unit — cylinder head, cylinder liner, piston, and connecting rod — to be opened from the engine by one operation.

Electronic Engine Control

To make engine handling easier and reduce exhaust emission performance, Daihatsu introduces control devices such as electronic monitoring in the engine, an electronic governor, and electronic fuel oil injection device.

Low Marine Auxiliary Engine Load

Using 2 fresh-water cooling systems — a cooler and a jacket for engine cooling — Daihatsu has kept jacket cooling water at a constant high temperature. For the air cooler, Daihatsu uses 2-stage cooling in which high-temperature jacket-cooling fresh water and low-temperature fresh water of the cooler system flow. Air is heated automatically to ensure stable heavy oil combustion at a low load.

Reliability, Durability, and Component Function

Daihatsu has reviewed the cooling water system, channel configuration, and engine lubrication, and have arranged the pump, cooler, and other auxiliary machinery in front of the engine to guard against component malfunction. The DC-32 is simple and excellent in

handling thanks to the significantly reduced number of piping and components. Advanced structural analysis has been introduced via new software for major operating sections and components. Daihatsu plans to confirm quality through continuous engine endurance ope-ration.



Pumps ISHII MACHINERY WORKS CO.,LTD.

ISHII MACHINERY WORKS CO.,LTD.

Company Outlines

Established in 1919
President: Tsuneo Ishii

Head Office

3-18-1, Awaji, Higashiyodogawa-ku, Osaka, Japan

Factory

7-6-13, Yumegaoka, Iga-city, Mie-pref, Japan

Main Facilities

Performance test equipments for pumps Numerically controlled machine tools

Our History

in 1915	Mr.E.Ishii studied marine machineries in
111111111111111111111111111111111111111	Great Britain and USA.
in 1919	He established "Ishii Iron Works" and started to manufacture marine machinery.
in 1941	Changed company name to "Ishii Machinery Works Co., Ltd."
in 1945	Company facilities were destroyed and burnt by air raid.
in 1947	Reconstructed and started manufacturing.
in 1962	Centrifugal pumps became main products in these day.
in 1980	Started manufacturing cargo oil pumps as subsidiary of MHI.
in 1990	Started manufacturing cargo oil pumps as license of MHI.
in 1997	Ueno Works started.
in 2000	ISO 9001Quality System certified.

Line of Business

Marine pumps Engine room pumps

Cargo oil pump

Stripping pump Pumps for Miscellaneous industries

Our Philosophy

- 1. We are the oldest marine pump manufactureing in Japan, enjoying customers satisfaction.
- 2. We offer new products to satisfy customers' needs.
- 3. We put great emphasis on R&D.
- 4. We are aiming to be an engineering company whose business include pumping system, maintenance and so on.



UENO WORKS



PERFORMANCE TEST SHOP



VERTICAL DOUBLE SUCTON
CENTRIFUGAL PUMP



LUB. OIL PUMP TEST SHOP

Kawasaki KAWASAKI HEAVY INDUSTRIES, LTD.

KAWASAKI HEAVY INDUSTRIES, LTD.

Outline of Company

Since its establishment in 1878, Kawasaki Heavy Industries, Ltd. has dedicated itself to innovative technological development and has been active in business worldwide.

It has expanded from its origin in shipbuilding to rolling stock, aircraft, machinery, plants and equipment, bridges, motorcycles and more.

Now Kawasaki is engaged in areas such as transportation, the development of energy and of space and environmental protection; projects crucial to the lives and livelihoods of future generations.

Kawasaki is aggressive in its pursuit of technological developments – we are building dreams by staying in front.

Main Products

- Diesel Engine, Main Steam turbine, Reduction Gear
- C.P. Propeller, Side thruster, Azimuth thruster & Integrated control system

Head Office

World Trade Center Building,

4-1, Hamamatsu-cho 2-chome, Minato-ku, Tokyo 105-6116, Janan

Tel: +81-3-3435-2374 Fax: +81-3-3435-2022 http://www.khi.co.jp/

Kawasaki Precision Machinery Ltd.

Main products

- Steering gear
- Deck machinery
- Hydraulic equipment (hydraulic motor, pump, valve)

Tokyo office

World Trade Center Bldg., 4-1, Hamamatsu-cho 2-chome, Minato-ku, Tokyo

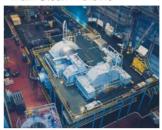
105-6116. Japan

Tel:+81-3-3435-6881

Fax:+81-3-3435-2023

URL:http://www.khi.co.jp/kpm

Main Steam Turbine



• Diesel Engine



Azimuth thruster



Steering Gear



Deck Machiner

Reduction Gear



Side Thruster





MANABE ZOKI CO., LTD.

MANABE ZOKI CO., LTD.

Outline of company

Registered Name: Manabe Zoki Co., Ltd.

Established: In 1955 Capital: 30 million yen Employee: 220 persons

Annual Turnover: 6.2 billion Japanese Yen

Main products

Deck Machinery

(Hydraulic Type and Electric Type) Windlass: Chain dia. ϕ 19 ~ 132mm

Mooring Winch: 19.6 ~ 315kN x 15~ 20 m/min Anchor Han. / Towing Winch: 294~ 3,920kN (Brake)

Deck Crane

(Electro-Hydraulic Type) and

(Electro-Hydraulic with Inverter Type) EHI Crane

Single Crane: 294 ~ 638kN Twin Crane: 491~ 1,275kN • Hose Handling Crane

(Hydraulic Type): 98 ~ 196kN

Head office

Address: 337-8 Takabe, Imabari, Ehime, 799-2113 Japan Tel: +81-898-41-9217 Fax: +81-898-41-6568

Tokyo office

Address: 27F, SHIROYAMA TRUST TOWER, 3-1, Toranomon, Minato-ku Tokyo, 105-6027 Japan Tel: +81-3-5404-8192 Fax: +81-3-5404-8194

E-mail: eigyou_2@manabezoki.co.jp URL: http://www.manabezoki.co.jp



Twin Crane

Type: MDW-13026T Hoisting Load: 130 (65x2)

Ton

Slewing Radius: Max. 26M,

Min. 4M



Anchor Handling / Towing Winch

Type: 2 Drums Water-Fall Winding Load: 300/ 130/ 83/ 6 tons Winding Speed: 7.5/ 10/ 30 m/min Brake Capacity: 400 tons (at first layer) Wire Winding Capacity: ϕ 72 x 2,000 m



MITSUBISHI KAKOKI KAISHA, LTD.

MITSUBISHI KAKOKI KAISHA, LTD.

Outline of Company

Mitsubishi Kakoki Kaisha, Ltd. (MKK) was established in 1935 financed by several companies in the Mitsubishi Group for the purpose of promoting the production of chemical machinery and equipment in Japan. Mitsubishi oil purifier, sludge separator and filters have been contributing to the considerable saving in maintenance and operation labor for the ship.

Main Products

- Oil purifier
- Sludge separator
- Oil filter (Mitsubishi MK filter)



Head Office

1-2, Miyamae-cho, Kawasaki-ku, Kawasaki 210-0012, Japan

Machinery Sales Dept. Tel: +81-44-246-7350 Fax: +81-44-246-7352

E-mail: mkkkikai@kakoki.co.jp URL: http://www.kakoki.co.jp

Features

Mitsubishi Selfjector Genius Series was developed under the concept of "more toughness and less maintenance labor by enhancing reliability" to which even higher purification performance and G-HIDENS system were added. Furthermore, with simplification of installation work by a semi-unit for the main body, and digitalization of detectors and gauges, daily inspection procedure has become easier.

A MITSUBISHI HEAVY INDUSTRIES, LTD.

MITSUBISHI HEAVY INDUSTRIES, LTD.

Mitsubishi's marine machinery, which are developed. using sophisticated and proprietary technology has a long track record. Our extensive product range meets and amazingly diverse range of customer's requirements.

Main Products

Main Engine

UE Diesel Engine (2-stroke)

MET Turbocharger

Main Propulsion Turbine

Main Boiler (for Steam Propulsion Vessels)

Fuel Saving

Mitsubishi Energy Recovery System

Propulsion Equipment

Fixed Pitch Propeller

Water Jet Propulsion Unit

Auxiliary Machinery

Aux. Boiler

Cargo Oil Pump & Turbine

Generator Turbine

Cable Engine

Maneuvering Equipment

Steering Gear

Fin-stabilizer

Deck Machinery

Deck Crane

Windlass

Mooring Winch

Head Office

Mitsubishi Heavy Industries, Ltd.

Marine Diesel & Machinery Business Section

3-1, Minatomirai 3-chome, Nishi-ku,

Yokohama 220-8401, Japan

Tel: +81-45-200-6193. Fax: +81-45-200-7189

E-mail: san-ene-catalog-senyo@mhi.co.jp

Representative

• Ho Chi Minh City Representative

Tel: +84-83-824-3279, Fax: +84-83-824-2874

Hanoi Representative

Tel: +84-43-933-3941. Fax: +84-43-933-3947

Licensee in Vietnam

Vietnam Shipbuilding Industry Group

Tel: +84-4-7711-212, Fax: +84-4-7711-535

Information of UE Diesel Engines

Mitsubishi UE engine, which has been developed by Mitsubishi's own technologies, are the most modern lowspeed two stroke diesel engines with single acting with crosshead, direct reversing, exhaust gas turbocharger, mechanically-driven camshaft. Bosch type fuel injection pump, exhaust valve actuator pumps.

UE Eco-Engine, new generation of Mitsubishi UE engine, is an electronically controlled engine, with below 4 concepts, which controls fuel injection, exhaust valve actuation and starting system electronically. UE Eco-Engine is more environmentally friendly than conventional one and brings huge operational benefits to the customer.

UEC ECO ENGINE CONCEPT

ECOLOGY

ECONOMY

EXCELLENT CONDITION

EASY CONTROL



UEC Eco-Enaine



NAKASHIMA PROPELLER CO., LTD.

NAKASHIMA PROPELLER CO., LTD.

Outline of company

Nakashima Propeller is the leading company of marine propulsion specialists in the world. Since founded in 1926, we have continuously been advancing to be the world's only comprehensive designers/manufacturers of marine propulsion equipment applicable to a wide range from smaller-sized pleasure boats and fishing boats up to large-sized merchant vessels including ULCC, mega container vessels, and LNG carriers, by utilizing experiences acculated.



Fixed Pitch Propeller

Main Products

- Fixed Pitch Propeller
- Controllable Pitch Propeller
- Side Thruster
- Shafting Equipment
- Schottel Pump-Jet
- Becker Rudders

Head Office

688-1, Joto-Kitagata, Higashi-ku, Okayama 700-8691, Japan

Tel: +81-86-279-5160 Fax: +81-86-279-3107

URL: http://www.nakashima.co.jp

E-mail: npcwebmaster@nakashima.co.jp

Exhibits & Features

1. Fixed Pitch Propeller (F.P.P.) & Controllable Pitch Propeller (C.P.P.)

Nakashima Propeller's F.P.P. & C.P.P. with a variety of sizes/models available for a wide range of the applications.

2. Side Thruster

Nakashima Propeller's side thrusters to facilitate the vessels's operation sideways effectively and efficiently near a guay or a dockyard.

Liaison office

NAKASHIMA VIETNAM CO., LTD. Land Plot CN2. 2B, Dinh Vu Industrial Zone, Hai An Dist., Haiphong City, Vietnam

Tel: +84-31-3614325 Fax: +84-31-3614329

E-mail: sales@nakashimavn.com



NANIWA PUMP MFG. CO., LTD.

NANIWA PUMP MFG. CO., LTD.

Outline of Company

NANIWA PROVIDES WORLD CLASS RELIABILITY AND PERFORMANCE

Naniwa Pump Mfg. Co., Ltd., is a leading Japanese manufacturer of a wide variety of marine and industrial pumps.

Naniwa brand is known Worldwide for its superior quality and performance for all types of Marine Engine Room and Cargo Pumps.

Both the quality and design of Naniwa Pumps meet or exceed the global requirements of classification societies and national standards.

Naniwa Pump is capable of expediting all customers' needs.

Main Products

Pumps and Steam Turbines of all types and related systems and equipment for marine applications:

- (1) Engine room pumps:
 - Centrifugal pumps
- Piston pumps
- Rotary gear pumps
- Hydrophore tank unit
- Rotary screw pumps
- Central priming unit
- (2) Pump room pump package:
 - Cargo pumps: Centrifugal type or two-rotor screw type
 - Water ballast pumps: Centrifugal type
 - Stripping pumps: Steam driven reciprocating type or two-rotor screw type
 - Automatic priming, capacity regulating and stripping systems

Head Office

11-5, Shinmachi 3-chome, Nishi-ku,

Osaka 550-0013, Japan

Tel: +81-6-6541-6231 Fax: +81-6-6541-7492

E-mail: kaigai@naniwa-pump.co.jp Website: www.naniwa-pump.co.jp

Exhibits

Centrifugal Pump model FEWV-400D



Feature

Centrifugal Pump model FEWV-400D

		-
Item		
Pump type		Vertical single stage, double suction
Application		Centrifugal Pump
		Main Cool. S.W. Pump
		Ballast Pump, etc.
Bore	mm	400/400 (Suc./Dis.)
Capacity	m³/h	1,100 ~ 1,500
T. Head	m	20 ~ 30
Speed	rpm	1450/1750
Weight	kg	650

NIIGATA POWER SYSTEMS CO., LTD.

NIIGATA POWER SYSTEMS CO., LTD.

Outline of Company

Niigata Power Systems is one of the leading suppliers of diesel engines and azimuth thrusters. Our products NIIGATA DIESEL is famous for its innovative technologies and operational stability in hard conditions. Azimuth thruster named NIIGATA Z-peller has been delivered over 3000 units until today and acquired worldwide reputation.

Main Products (Marine field related)

- (1) Diesel engines
- (2) Z-pellers
- (3) Couplings and dampers
- (4) Remote control and monitoring system.

Head Office

2-9-7 Yaesu Chuo-ku Tokyo 104-0028 Japan

Tel: +81-3-6214-2836 Fax: +81-3-6214-2839

URL: http://www.niigata-power.com

Exhibits

- Operatable scale model of NIIGATA DIESELcoupled Z-pellers
- (2) Scale model of our next generation NIIGATA DIESEL 28AHX

Features

-Z-peller: Big advantage features excellent bollard pull and maneuverability, and easy maintenance with robust structure under a single responsibility throughout shafting with NIIGATA DIESEL.



NHE NIPPON HAKUYO ELECTRONICS, LTD.

NIPPON HAKUYO ELECTRONICS, LTD.

Outline of Company

Nippon Hakuyo electronics, Itd. (NHE) was founded in 1981 as a company focusing on system engineering and sales of shipboard equipments in OKI group which is the leading company in the field of Information Technology and Network Solution. Since then NHE has been providing not only domestic market but also world market with inter communication, fire detection/alarm equipments and satellite data acquisition/processing system by utilizing OKI group's rich and high level technical resources with additional unique technical expertise and know -how of its own. NHE does not manufacture the equipments. Instead NHE outsources them by teaming up and under the partnership with Shizuoka OKI Electric for inter communication equipments and OKI DENKI BOSAI for marine fire detection/alarm systems and we have achieved solid supply record of these products.

Main Products

- Marine Intercom Systems
- Public Addressing Systems
- Fire Detection and Alarm Systems
- Marine CRYSTAL clock
- Cargo loading computer system
- CCTV systems

Head Office

2-40-7, Higashikanagawa, Kanagawaku, Yokohama, 221-0044, Japan

Tel: +81 45 453 6911 Fax: +81 45 453 6910 H.P.: http://www.nhe.co.jp E-mail: nippaku@nhe.co.jp

Exhibits



Features

a) Automatic Telephone Exchanger OAE-7100

- Extensions:16~80 Lines
- Trunk lines:0~4 Lines
- Busy Override, Group Paging, Call Pickup, DTMF, Emergency Call, Wireless Connection, Shore Connection

b) Fire Alarm Panel FF-3062

- Number of Line:5/10/15/20/30 Lines
- Available detectors, etc.:
 Fixed temperature type spot fire detectors
 Optoelectric smoke detectors
 Intrinsically safe optoelectric smoke detectors
 Infrared type flame detectors
 Manual call points
 Sub alarm panel

c) Marine Crystal Clock TXS-12S

- Slave clocks:Max. 140 (30 sec/3 wire)
- Slave clocks:Max. 30 (0.5 sec/2 wire)
- GPS Signal Input (NMEA0183)

TAIKO KIKAI INDUSTRIES CO., LTD.

TAIKO KIKAI INDUSTRIES CO., LTD.

Outline of company

TAIKO, as a general manufacture of pumps and environment equipments, has produced various kinds of marine pumps, bilge separator, sewage treatment device and the cargo pump system for tankers. We continue to contribute the modernization of marine industry under motto of "Clean the sea and friendly to the earth".

Maine products

Gear pump

Screw pump

Centrifugal pump

Sewage Treatment Device

Oily Water Separator

Piston pump

Rotary blower

Vacuum pump

Head office

Oversea Business Sect.

209-1 Shimotabuse, Tabuse-cho, Kumage-gun,

Yamaguchi 742-1598, JAPAN

Tel:81-820-52-3113 Fax: 81-820-53-1001

E-mail: business@taiko-kk.com

CENTRIFUGAL PUMP ### Range of Supply Cpains: 0.0-08 raths Promote: —2-0.0 Milk Promote:

Exhibits

Panel display of all pump line up, certificates, and service network.

Features

E/R Centrifugal Pump: TAIKO has amassed a vast reservoir of technical know-how and expertise.

E/R Gear Pump: The gear is characterized by its innovative one-point continuous contact, introduced to the market by Japan for the first time.

E/R Screw pump: The acquisition of new knowledge and new technology has enable TAIKO to develop a series of Screw Pumps consisting of one-rotor, two-rotor, and three-rotor.

Agent in Viet Nam: P&P Korea Co., Ltd

Hanoi Branch:

Room 11.8, floor 11th, VIMECO Building, Pham Hung Str.,

Cau Giay Dist., Hanoi

Tel: 0915 900 339

Hai Phong Branch:

Unit 1+2, Floor 3rd, Thanh Dat Building, No.3 Le Thanh Str.,

Ngo Quyen District, Haiphong

Tel: 031 3686 718 Nha Trang Branch:

40 Le Hong Phong Street, Nha Trang City, Khanh Hoa

Province

Tel: 058 872 132



Outline of Company

Yanmar, ever since its foundation, has been developing versatile energy and labor-saving diesel engines with output ranging from 2kW to 3,500kW through its unique diesel technologies, contributing to the community through energy conservation.

Our ceaseless efforts to produce ever higher quality products were rewarded with ISO9001 certification by Lloyds (LRQA) of Britain for the Amagasaki Plant of the Large Power Products Operations Division in July 1992, confirming international recognition for the excellent quality assurance system of the plant. The Large Power Products Operations Division of Yanmar has been a pioneer in tackling environmental problems and in June, 1997, the Amagasaki Plant became the first large industrial and marine diesel engine plant in Japan to be certified under ISO14001. The marine diesel engines produced by the Amagasaki Plant were also the first in Japan to clear the emission (NOx) control regulations of the IMO. The far-sighted efforts and excellent technologies of the Large Power Products Operations Division protect our environment and are highly evaluated in the world.

The Amagasaki Plant of Yanmar aims to ensure beautiful harmony with the global environment and to contribute widely throughout industry and society to create a better future for all

Head Office

Export Dept. Large Power Products Operations Division 1-1,Yaesu 2-chome, Chuo-ku, Tokyo 104-0028, Japan. Tel: +81-3-3275-4909 Fax: +81-3-3275-4969 http://www.yanmar.co.jp

Overseas Subsidiary

Yanmar Asia (Singapore) Corporation Pte Ltd.

- Head Office
- 4 Tuas Lane, Singapore 638613 Tel: +65-6861-3855 Fax: +65-6862-5189 http://www.vanmar.co.jp/vasc
- Resident Répresentative Office in Ho Chi Minh City No.875 Tran Hung Dao St, Digtrict 5, Ho Chi Minh City Vietnam

Tel: +84-08-9238063 Fax: +84-08-9235602

Main Products

Marine auxiliary diesel engine

Exhibits



6EY18 (A) L

• Features of 6EY18 (A) L

- The low sac type fuel valves, variable jacket water temperature control and valve stem seal with backpressure lip, are technologies included to reduce soiling of the combustion chamber which occurs with the use of low-grade heavy oil.
- With the introduction of a new "stay clean" design turbocharger maintenance intervals will be lengthened while the automatic back washing LO filter allows for maintenance-free operation.
- Compact design allows simplicity in the engine room lavout.
- 4. With concentration of the pipe connections at the front of the engine, piping construction man-hours are reduced.
- 5. The intercooler and stand of turbocharger have been designed as a single compact unit. The number of parts has been reduced by 30%, further increasing ease of maintenance.
- 6. High probability of corresponding to future environmental regulations.

Memo

JSMEA's Head and Overseas Offices

Head Office

Japan Marine Equipment Association

6th Floor, Kaiyo Senpaku Building,

15-16, Toranomon 1-chome, Minato-ku, Tokyo 105-0001,

Japan

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Overseas Offices

• Shanghai

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London

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Fax: +44-20-7680-9416
E-mail: info@jsc.org.uk
URL: http://www.jsc.org.uk

Singapore

JETRO Singapore, Ship Machinery Division Hong Leong Building, #38-01 to 05 #37-02A 16 Raffles Quay, SINGAPORE 048581

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