

efficient production lines and comprehensive

heat exchangers, Hisaka aims to maintain close contact with comprehensive maintenance programs.



Large plate type heat exchanger being assembled by a large automatic tightening device



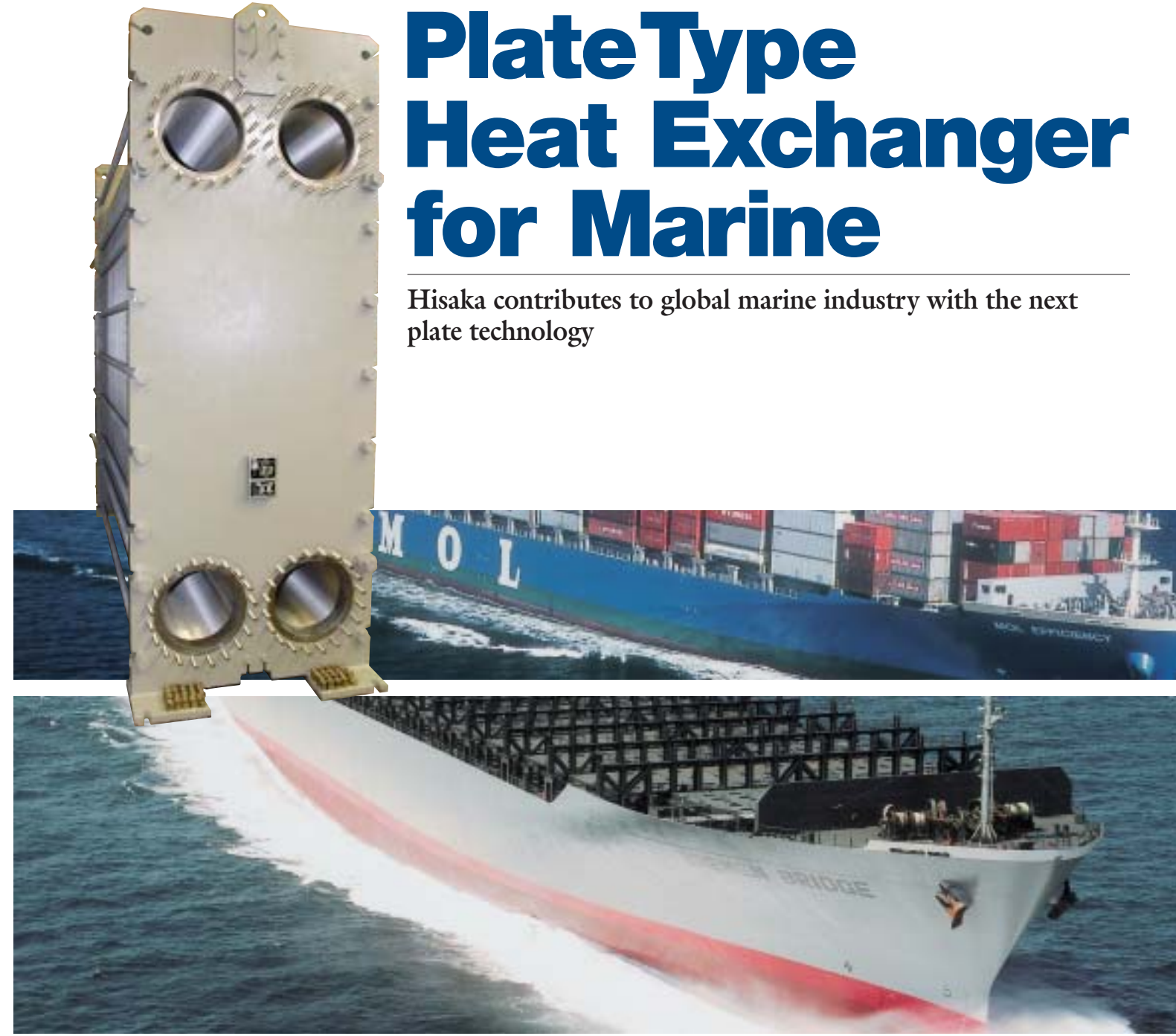
Inspection of pressing depth



Assembling a large plate type heat exchanger



Frame components stock



# Plate Type Heat Exchanger for Marine

Hisaka contributes to global marine industry with the next plate technology



## HISAKA WORKS, LTD. Heat Exchanger Div

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All the specifications, data and photographs shown in this catalogue may be differed depending on the conditions. Please send us an inquiry for your particular condition.

# High quality and reliability assured by the large-scale, efficient production lines and comprehensive maintenance programs.

To ensure customers' satisfaction and the continuous production of high-quality marine plate type heat exchangers, Hisaka aims to maintain close contact with our customers as well as establishing the latest cutting edge production lines and implemented the comprehensive maintenance programs.

## Manufacturing

### Advanced manufacturing technology that ensures the best quality

Hisaka is constantly striving to manufacture the best possible products to build solid bonds of trust with our customers. The quality of pressed plates, in particular, directly decides the performance of the plate type heat exchangers. Therefore we use the 40,000-ton pressing machine, which are among the world largest in its class, and the 20,000-ton pressing machine for the production of the plates. We are able to press with precision even on very thin titanium sheets of 0.5 mm thickness, which was considered very difficult. Our production lines employ the latest equipments to ensure high quality outputs. Recently we have installed a dedicated 4,000-ton high-speed "automated high precision pressing line" to increase production speed and capacity for small to medium plates size. It is expected to respond effectively to future customers' demand.

We conform to ISO 9001 program from procurement of materials to completion of products and delivery. ISO 9001 is the most stringent quality assurance program.



World's largest 40,000-ton pressing machine



20,000-ton pressing machine



The latest 4,000-ton high-speed automatic precision pressing line

## Service Agent Network

Hisaka is a world leader in the production of Plate type Heat Exchanger and has extensive experience in licensing its technology, mainly to Europe and North America. We have exported to over 70 countries worldwide and have earned a very good reputation from all our overseas customers. We have established a global service agent network and we are committed to respond to the confidence placed in our products. We are also committed to constant innovation and improvement of our technologies as well as responding effectively to protect our global position and projecting our HISAKA Brand globally.



## Maintenance

### We offer advanced and innovative maintenance technology and solutions.

To ensure that our customers' plate type heat exchangers are maintained optimum conditions, we provide the following key services:

1. A "comprehensive parts stock program" so as to ensure rapid shipment of spare parts
2. On-site maintenance "on board repairs and maintenance work program".
3. Convenient "plate rotation contract service program" where we exchange the customers' plates now in service with the customers' plates held in our warehouse.

The above programs save gasketing as well as cleaning time for the plates, therefore the turn around time is short and the plate type heat exchanger can be put back into operation quickly. It is most suitable for ships in port for relatively short time.

We assist our customers to obtain optimum efficiency through our rapid supply of spare parts, on-board maintenance work and consultation of maintenance services.

The above programs offer our customers several options to select the required service depending on their requirements and circumstances. This ensures that our customers' plate type heat exchangers are maintained best operating conditions even during long voyages.



Comprehensive parts stock



On site service

**SPARE PARTS & MAINTENANCE**

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→ Please let us know the Mfg No.

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Sticker for maintenance call



## Various ships employing Hisaka plate type heat exchangers

(Alphabetical order)

EVER GREEN 4948TEU Container Carrier



Mitsubishi Heavy Industries, Ltd. / S1241

K-LINE 6000Cars Pure Car Carrier



Imabari Shipbuilding Co., Ltd. / S1399

MOL 4500TEU Container Carrier



Mitsubishi Heavy Industries, Ltd. / S1246

NYK 6200TEU Container Carrier



Koyo Dockyard Co., Ltd. / S2147

TEPCO 135,000m³ LNG Carrier



Mitsubishi Heavy Industries, Ltd. / S2176