

Miura Co., Ltd.  
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March 31, 2014

## **Miura's ballast water management system receives approval from the Ministry of Land, Infrastructure, Transport and Tourism**

### **Joint development of a ballast water management system for medium-size to large vessels with Imabari Shipbuilding Co., Ltd.**

Miura Co., Ltd. (Head Office: Matsuyama, Ehime Prefecture, President: Yuji Takahashi), Japan's leading manufacturer of small once-through boilers, has announced the approval on March 27 by the Ministry of Land, Infrastructure, Transport and Tourism<sup>\*1</sup> of its ballast water management system, currently under development. The company also announced the joint development of a ballast water management system for medium-size to large vessels with Imabari Shipbuilding Co., Ltd.

Miura completed land-based testing of its ballast water management system in March 2013, followed by six months of onboard and performance tests from August, completing all tests required for approval. The system received approval from the Ministry of Land, Infrastructure, Transport and Tourism on March 27 this year.

Since the system meets the USCG (United States Coast Guard) ballast water management rules, Miura will submit an AMS<sup>\*2</sup> application. AMS approval is expected to take three to six months following the application. Miura aims to obtain approval for meeting the USCG regulations at the same time in fiscal 2016.

The company will exhibit the approved model at Sea Japan 2014, held from April 9 to 11.

#### **The features of Miura's filter and UV ballast water management system**

The system is easy to use. No chemicals are required, saving the trouble of obtaining, handling and mixing them. This reduces the workload of operators and crews.

The filter is equipped with an automatic cleaning function, so the system does not need to be disassembled for cleaning due to clog.

The system reduces the man-hours and time required for overhaul during regular docking and daily maintenance.

The unique filter system developed by Miura effectively removes organisms and particles of

size L and above.

Organisms and particles of size L and above that are captured by the filter element are flushed out with multistage cleaning.

Organisms and fungi sized S or smaller are killed with ultraviolet irradiation.

The amount of ultraviolet irradiation is controlled by sensor, achieving high sterilization performance combined with energy saving operation and longer UV tube life.

#### Product Lineup

Processing capacity lineup	200 to 6,000 m <sup>3</sup> /h *3
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#### **Joint development of a ballast water management system for medium-size to large vessels, with Imabari Shipbuilding Co., Ltd.**

Miura has teamed up with Imabari Shipbuilding Co., Ltd., one of the world's biggest shipbuilders, to develop a ballast water management system for medium-size to large vessels. Leveraging the extensive technical capabilities of Imabari Shipbuilding Co., Ltd., Miura is offering streamlined installation of the ballast water management system in both new and currently operational vessels, along with after-sales service.

The filter and UV ballast water management system was originally suitable only for small and medium-size vessels. However, the simple operation and the environmentally friendly system that requires no active substances are features that can also benefit operators of large vessels. Therefore the two companies are working to develop a system that can also be installed in large vessels.

The system is scheduled for release in January 2015.

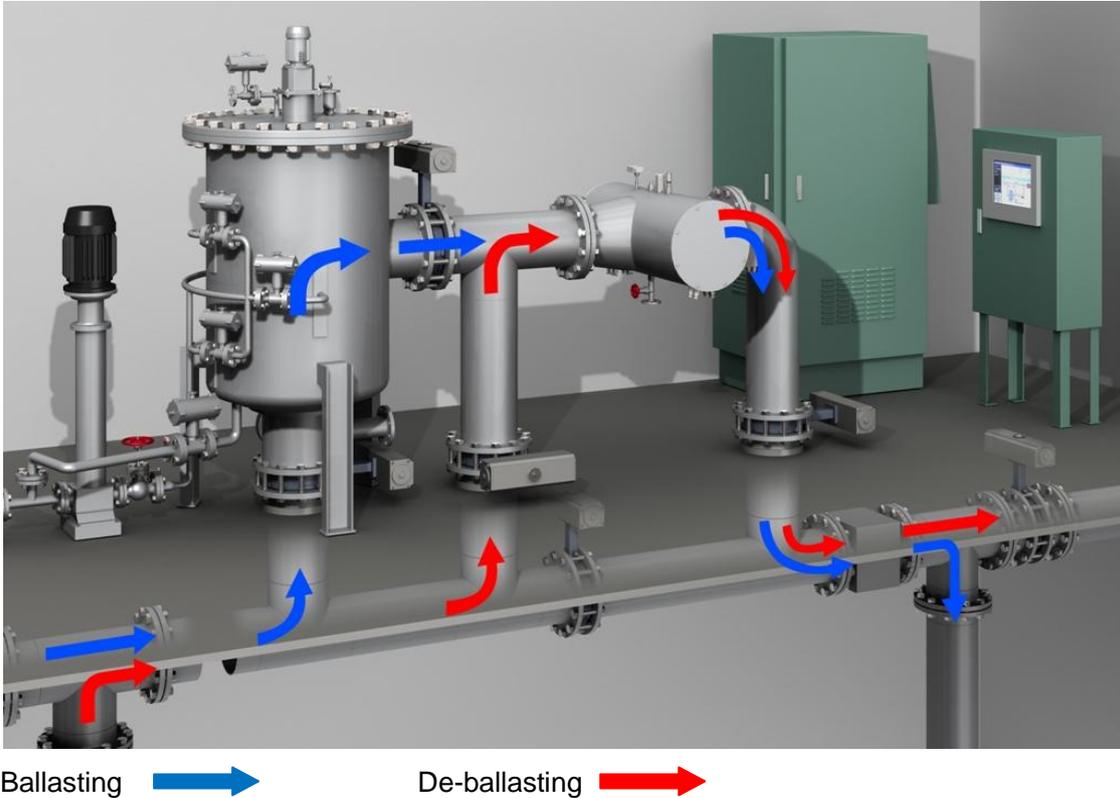
#### **Sales schedule**

Miura will begin marketing the system from October 2014. The sales target is 10 billion yen by fiscal 2018. Miura will market the system through existing channels including shipbuilders, distributors, shipowners and operators. The company will also develop sales channels overseas. Miura will undertake further development to enhance the product line and increase production.

#### **Maintenance and sales offices**

Miura is expanding its maintenance and sales offices. There are currently four centers in Japan (Matsuyama, Fukuyama, Tokyo and Fukuoka), and in addition to Singapore and the

Netherlands, three new centers are planned in China\*<sup>4</sup> (Qingdao, Shanghai, and Guangzhou) as well as Taiwan\*<sup>5</sup> and Houston\*<sup>6</sup>.



\*<sup>1</sup> For installation in ships, the approval specified by the Ministry of Land, Infrastructure, Transport and Tourism in the International Convention for the Control and Management of Ships Ballast Water & Sediments (BWM convention) adopted by the IMO (International Maritime Organization) is mandatory.

\*<sup>2</sup> Ballast water management systems approved by the IMO are measures called AMS (Alternate Management Systems) temporarily admitted by the USCG.

\*<sup>3</sup> The lineup will comprise various combinations of filter and UV reactor.

\*<sup>4</sup> Scheduled to open between October 2014 and March 2015.

\*<sup>5</sup> Established a representative office on November 1, 2013.

\*<sup>6</sup> Scheduled to open in fiscal 2015

## Enquiries

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