



Certificate No. 02-003204/025238

## TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

### Marine Reduction Gear for Diesel Propulsion *type* YXH-240L

MANUFACTURER:

**KANZAKI KOKYUKOKI Mfg. Co., Ltd.**  
18-1, Inadera 2 Chome  
Amagasaki-shi, Hyogo  
JAPAN

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

**CRS: Rules for the classification of ships, Part 9. - Machines.**

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2025-04-27**

Place and date: Split, 2021-04-20

Seal

Marinko Popović, dipl.ing.

**NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.**

**DETAILED PRODUCT DESCRIPTION:**

Marine propulsion reversible reduction gear with built-in hydraulic clutches.

**DETAILED PRODUCT DESCRIPTION:**

Max. input power: 610 kW  
Max input speed: 1900 rpm  
Reduction Ratios: 6.95, 6.57, 5.91, 5.36, 4.89, 4.48, 4.13  
The approval status is based on application factor 1,30.

**TYPE APPROVAL DOCUMENTATION:**

Drawings and calculations approved by CRS with letter:	822/TSE/IA/024125	2017-04-27
	742/TSEv/KF/025238	2021-04-20

**MARKING OF PRODUCT:**

- manufacturer's mark
- serial No.
- location and year of manufacturing
- CRS mark

**CONDITIONS FOR CERTIFICATION:**

The manufacturer shall make arrangements for the CRS Surveyor to attend the relevant tests and examinations at manufacturer's works or to perform the relevant audits in case an alternative survey scheme has been approved. Relevant CRS certificate for each particular reduction gearbox will be issued after satisfactory completion of the procedure.

Measuring devices, sensors and alarms shall be subject to CRS approval in each particular case and will depend on service applied and the degree of automation of the propulsion plant.