

CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS

No. FAB142819WS

This is to certify that the manufacture of the product identified below is in compliance with the applicable requirements of the RINA Rules for the Approval of Manufacturers of Materials.

Description Steel forgings

Туре Carbon; Carbon-Manganess; Low-Alloy; Austenite

stainless steel Forgings

Manufacturer Iraeta Energy Equipment Co., Ltd.

Place of manufacture No.9001 Jiwang Road, Guanzhuang Sub-district Office,

Zhangqiu District Jinan (Shandong)

CHINA

Reference standards RINA Rules for the approval of manufacturers of materials

Issued in SHANGHAI on September 4, 2019. This Certificate is valid until August 19, 2024



This certificate consists of this page and 1 enclosure



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Enclosure - Page 1 of 1
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Low-Alloy
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stainless steel Forgings

APPROVAL CONDITIONS

- Manufacturing process of steel: Open die forging from ingot & billet supplied by RINA approved manufacturers;
- Max. weight: 4,000 kg for Ring forged pieces (flanges);
- Condition of supply:

Steel grade	Carbon & carbon-manganese	Low-alloy	Austenite stainless steel
Delivery condition	Normalizing Normalizing + tempering	Quenching + tempering	Solution treatment

- Survey conditions: all forgings to be used for construction of ships classed with RINA shall meet the requirements of the RINA Rules and shall be tested accordingly.

General conditions for the approval

- -The approval is granted on condition that the RINA Rules for the approval, manufacture, testing and certification of materials are complied with in all respects.
- -RINA is to be notified of any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate.

SHANGHAI August 19, 2019

