



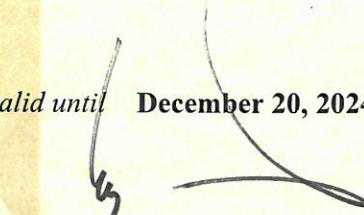
**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS
No. FAB182519PU**

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.

<i>Description</i>	Steel forgings
<i>Type</i>	Steel forgings for machinery including semi-built crankshafts
<i>Manufacturer</i>	SEAH BESTEEL CORPORATION
<i>Place of manufacture</i>	522, OEHANG-RO (SORYONG-DONG) 573-711 GUNSAN-SI, JEOLLABUK-DO REPUBLIC OF KOREA
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials

Issued in **BUSAN** on **January 13, 2020**. This Certificate is valid until **December 20, 2024**




RINA Services S.p.A.
Dong-Hun Lee

This certificate consists of this page and 1 enclosure



CERTIFICATE OF APPROVAL OF MANUFACTURERS OF MATERIALS

No. FAB182519PU

Enclosure - Page 1 of 1

**Steel forgings for machinery including semi-built
crankshafts**

APPROVAL CONDITIONS

Steel types: carbon, carbon - manganese, low alloy

Manufacturing process of steel : ingot casting

Forging process : open die forging.

Products max. weight : 110,000 kg

Condition of supply : normalizing, normalizing and tempering, quenching and tempering

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.

BUSAN January 13, 2020

