



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF  
MATERIALS**

**No. FAB031721PU/002**

**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>	<b>Steel forgings</b>
<i>Type</i>	<b>Steel forgings for machinery - max. weight 120000 kg</b>
<i>Manufacturer</i>	<b>SEAH CHANGWON INTEGRATED SPECIAL STEEL CORPORATION</b>
<i>Place of manufacture</i>	<b>147 JEOKHYEON-RO (SHINCHON-DONG), SEONGSAN-GU 51708 CHANGWON-SI, GYEONGNAM REPUBLIC OF KOREA</b>
<i>Reference standards</i>	<b>RINA Rules for the approval of manufacturers of materials</b>

*Issued in* **BUSAN** on **April 12, 2021**. *This Certificate is valid until* **April 24, 2026**



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

This certificate consists of this page and 1 enclosure





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**Steel forgings for machinery - max. weight 120000 kg**

**APPROVAL CONDITIONS**

**Steel types:** carbon, carbon-manganese.

**Steel making process :** ingot casting.

**Forging process:** open die forging.

**Heat treatment:** normalizing and tempering by manufacturer

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

**General conditions for the approval**

- o 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.
- o RINA is to be notified of any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate.



A handwritten signature in black ink, consisting of a stylized 'S' followed by a horizontal line and a small flourish.

**BUSAN April 12, 2021**

