



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF  
MATERIALS**  
No. **FAB130911TS**

**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 intended for hull and machinery components .Max weight 190.000 kg</b>
<i>Manufacturer</i>	<b>VITKOVICE HEAVY MACHINERY A .S.</b>
<i>Place of manufacture</i>	<b>RUSKA 2887/101 706 02 OSTRAVA - VITKOVICE CZECH REPUBLIC</b>
<i>Reference standards</i>	<b>RINA Rules for the approval of manufacturers of materials</b>

Issued in **TRIESTE** on **January 2, 2012**. This Certificate is valid until **December 19, 2016**



**RINA**  
M. Rinaldi

**RINA**

*M. Rinaldi*

This certificate consists of this page and 1 enclosure

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**Enclosure - Page 1 of 1**

**Steel forgings intended for hull and machinery components .Max weight 190.000 kg**

**APPROVAL CONDITIONS**

- **Steelmaking:** electric arc furnace.
- **Steel types:** carbon, carbon-manganese and alloy steels
- **Forging process :** open die and closed die forging
- **Heat treatment:** 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 .

**TRIESTE January 2, 2012**