

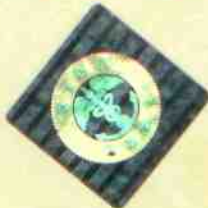
CERTIFICATE OF APPROVAL OF MANUFACTURERS OF  
MATERIALS  
No. FAB060209XG/001



**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 for machinery</b>
<i>Type</i>	<b>carbon; carbon-manganese; low alloy steel forgings: max. weight 40000 kg</b>
<i>Manufacturer</i>	<b>VON SCHAEWEN AG</b>
<i>Place of manufacture</i>	<b>SSK-VON SCHAEWEN GMBH RUHRSTR. 21 58300 WETTER</b>
<i>Reference standards</i>	<b>RINA Rules for the approval of manufacturers of materials</b>

Issued in **Hamburg** on **August 13, 2009**. This Certificate is valid until **August 10, 2014**



**RINA**  
**H. Brunk**

*H. Brunk*  
**RINA**  
**Henning Brunk**

This certificate consists of this page and 1 enclosure

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**APPROVAL CONDITIONS**

**Steel types:** carbon, carbon-manganese, low alloy steels.

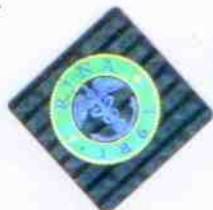
**Forging process:** open die forging.

**Heat treatment:** normalizing, quenching and tempering

**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.



RINA  
H. Brunk

Hamburg August 13, 2009