

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00000W7**  
Revision No:  
**1**

## This is to certify:

That  
**Dongbei Special Steel Group  
Dalian Special Steel Co., Ltd.  
Dalian, China**

is an approved manufacturer of  
**Steel Forgings**

in accordance with  
**DNV GL rules for classification – Ships**

and the following particulars:

<b>Steelmaking</b>	<b>Basic Oxygen Converter, Ingot Casting</b>
<b>Desoxidation</b>	<b>Killed</b>
<b>Steel type(s)</b>	<b>Carbon, Carbon-Manganese Steel grades Alloy Steel grades</b>
<b>Max. weight</b>	<b>60000 kg (Carbon, Carbon-Manganese Steel grades) 20000 kg (Alloy Steel grades)</b>
<b>Max. thickness</b>	<b>900 mm (Carbon, Carbon-Manganese Steel grades) 600 mm (Alloy Steel grades)</b>
<b>Delivery Condition</b>	<b>Normalized, Normalized and Tempered, Quenched and Tempered</b>

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2016-12-06**

for **DNV GL**

This Certificate is valid until **2019-08-31**.

DNV GL local station: **Dalian**

Approval Engineer: **Stefan Röhr**

**Thorsten Lohmann**  
**Head of Section**