



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00000J5**  
Revision No:  
**2**

This is to certify:

That

**Stahlwerk Annahütte Max Aicher GmbH & Co. KG**  
**Max-Aicher-Allee 1+2, 83404 Ainring,**  
**Germany**

is an approved manufacturer of  
**Steel Forgings**

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

and the following particulars:

<b>Application area</b>	<b>Semi-finished products</b>
<b>Products</b>	<b>Rolled bars intended to be machined into components</b>
<b>Steel type</b>	<b>Alloy, see page 2</b>
<b>Manufacturing method</b>	<b>Hot rolling of continuous cast slabs</b>
<b>Max. diameter</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2022-04-25**

for **DNV**

This Certificate is valid until **2025-04-30**.

DNV local station: **Augsburg**

Approval Engineer: **Christian Wildhagen**

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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Particulars of the approval

---

### Semi-finished rolled round bars intended to be machined into components <sup>1)2)</sup>

Steel type	Product	Max. thickness [mm]	Heat treatment condition <sup>2)</sup>
Low alloy chromium, chromium-molybdenum and chromium-nickel-molybdenum steel	rolled round bars	50	AR
Boron alloyed steel grades with chemical composition according to DIN EN 10263-4 and DIN EN ISO 683-2 <sup>3)</sup>	rolled round bars	50	AR

Remarks:

- 1) Minimum rolling reduction ratio 6:1
- 2) Sampling, inspection and testing requirements shall be according to DNV-RU-SHIP-Pt.2-Ch.2-Sec.6
- 3) Application of boron alloyed steel grades is subject to special approval