



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00001YJ**  
Revision No:  
**1**

This is to certify:

That

**Chr. Höver & Sohn GmbH & Co. KG**  
**Oberleppe 14, 51789 Lindlar,**  
**Germany**

is an approved manufacturer of  
**Steel Forgings**

in accordance with

**DNV GL rules for classification – Ships**  
**DNV GL rules for classification – Naval vessels**

and the following particulars:

<b>Application area</b>	<b>Forgings for hull structures and equipment</b> <b>Forgings for boilers, pressure vessels and piping systems</b> <b>Ferritic steel forgings for low temperature service</b> <b>Stainless steel forgings</b>
<b>Steel type(s)</b>	<b>Carbon and carbon-manganese,</b> <b>Alloy,</b> <b>Austenitic stainless,</b> <b>Austenitic-ferritic (Duplex) stainless,</b> <b>Austenitic chromium-nickel stainless steel for use in non-magnetic applications</b>
<b>Forging method</b>	<b>See page 2</b>
<b>Max. weight</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 **2021-04-29**

for **DNV**

This Certificate is valid until **2024-02-08**.

DNV local station: **Essen**

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.



Form code: AM 311

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## Particulars of the approval

**Forgings for hull structures and equipment**  
**Forgings for boilers, pressure vessels and piping systems**  
**Ferritic steel forgings for low temperature service**  
**Stainless steel forgings**

Steel type	Forging method <sup>1)</sup>	Max. weight [kg]	Delivery condition <sup>2)</sup>
C and C-Mn	OD, RB, RR	2 500	N, NT, QT
Alloy			QT
Austenitic Stainless			S+Q
Austenitic-ferritic (Duplex) stainless (UNS S32750 - X 2 CrNiMoN 25-7-4)			
Austenitic Stainless - Non-Magnetic Applications (X2CrNiMnMoNNb21-16-5-3)			

Remarks:

- 1) OD: Open die forging  
 RB: Rolled bars  
 RR: Rolled rings
- 2) QT: Quenched and tempered  
 N: Normalised  
 NT: Normalised and tempered  
 S+Q: Solution annealed and quenched