



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00001M9**  
Revision No:  
**2**

This is to certify:

That

**Sternberg GmbH**  
**Hockenheimer Straße 5, 09337 Hohenstein - Ernstthal,**  
**Germany**

is an approved manufacturer of  
**Bolt and Nuts**

in accordance with

**DNV rules for classification – Ships**  
**DNV class programme – DNV-CP-0247 Steel forgings**

and the following particulars:

<b>Application area</b>	<b>Bolts and nuts</b>
<b>Steel type</b>	<b>Carbon and carbon-manganese, Alloy, Austenitic stainless, Martensitic stainless, Ferritic stainless, See page 2</b>
<b>Max. weight</b>	<b>See page 2</b>
<b>Max. diameter</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>
<b>Additional approval conditions</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 **2023-05-19**

for **DNV**

This Certificate is valid until **2026-06-30**.

DNV local unit: **Essen**

Approval Engineer: **Torben Schälicke**

**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

### Bolts and nuts

Steel type	Grade	Max. weight [kg]	Max. diameter	Heat treatment condition
C and C-Mn, Alloy	ISO 898-1	-	M120	Acc. standard
	ISO 898-2	-	M120	Acc. standard
Alloy	EN 10269	50	130 mm	Acc. standard
	EN 10083-3 <sup>1)</sup>	50	130 mm	Acc. standard
Austenitic, Martensitic, Ferritic	ISO 3506-1	-	M120	Acc. standard
	ISO 3506-2	-	M120	Acc. standard
Austenitic	EN 10088-3 <sup>1)</sup>	50	130 mm	Acc. standard

Remarks:

<sup>1)</sup> Possible application and certification of any material to classed object is subject to case by case approval

Special conditions:

Heat treatment outsourced to "Härtewerk Chemnitz GmbH".