



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00000U7**  
Revision No:  
**3**

This is to certify:

That

**Lippische Eisenindustrie GmbH**  
Alter Weg 57, 32760 Detmold,  
Germany

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

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

and the following particulars:

<b>Application area</b>	<b>Bolts and Nuts</b>
<b>Products</b>	<b>Hexagon Nuts</b>
<b>Steel type</b>	<b>Carbon and Carbon-Manganese, Alloy, see page 2</b>
<b>Dimensions</b>	<b>Diameter max. M64</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 **2022-03-28**

This Certificate is valid until **2025-02-28**.

DNV local station: **Magdeburg**

Approval Engineer: **Stefan Röhr**



for **DNV**

Digitally Signed By: Wildhagen, Christian  
Location: DNV GL Hamburg, Germany  
Signing Date: 28.03.2022, on behalf of

**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

Revision: 2021-03

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## Particulars of the approval

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### Hexagon nuts

Steel types	Standards <sup>3)</sup>	Forging method <sup>1)</sup>	Max. diameter	Heat treatment condition <sup>2)</sup>
Carbon, Carbon-Manganese, Alloy	ISO 898-2, DIN 267-13, ASTM A194	HF	M64	N, QT

#### Remarks:

- 1) HF: Hot formed
- 2) N: Normalized; QT: Quenched and tempered
- 3) Nut materials complying with other standards may be accepted by the Society provided the materials are proved suitable