

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

Heinrich Jungeblodt GmbH & Co. KG
Warstein, Germany

is an approved manufacturer of
Steel Forgings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Bolts and nuts
Product	Fasteners (bolts, screws, nuts, shafts, washers, etc.)
Steel type(s)	Carbon, Carbon-Manganese, Alloy, Austenitic stainless, 22Cr duplex stainless
Manufacturing method	Hot forming, cold forming, heat treatment
Dimensions	See page 2

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 **2018-11-28**

for **DNV GL**

This Certificate is valid until **2021-11-27**.

DNV GL local station: **Essen**

Approval Engineer: **Stefan Röhr**

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Thorsten Lohmann
Head of Section



Particulars of the approval

Fasteners (bolts, screws, nuts, shafts, washers, etc.)

Steel type / grade	Max. diameter [mm]	Delivery condition
ISO 3506-1, -2	M300	acc. to standard
ISO 898-1,-2,-3,-5		
EN 17100		
EN 10084		
EN 10083-1, -2, -3		
EN 10088-1, -3		
EN 10269		
EN 10025		
DIN 17240		
DIN 17280		
DIN 17440		
DIN 17200		
DIN 17210		