

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That
Chr. Höver & Sohn GmbH & Co. KG
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:

Application area	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(s)	Carbon and carbon-manganese, Alloy, Austenitic stainless, Austenitic-ferritic (Duplex) stainless, Austenitic chromium-nickel stainless steel for use in non-magnetic applications.
Forging method	See page 2
Max. weight	See page 2
Delivery Condition	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 **2018-02-09**

for **DNV GL**

This Certificate is valid until **2021-02-08**.

DNV GL local station: **Essen**

Approval Engineer: **Andreas Koch**

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Thorsten Lohmann
Head of Section



Job Id: **263.11-007986-1**
Certificate No: **AMMM00001YJ**

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 ³⁾	Forging method ¹⁾	Max. weight [kg]	Delivery condition ²⁾
C and C-Mn	OD, RB	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
- 2) QT: Quenched and tempered
N: Normalised
NT: Normalised and tempered
S+Q: Solution annealed and quenched
- 3) Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules