



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001U4
Revision No:
2

This is to certify:

That

Stahlwerk Augustfehn Schmiede GmbH & Co. KG
Am Kanal 134, 26689 Apen ,
Germany

is an approved manufacturer of
Steel Forgings

in accordance with

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

and the following particulars:

Application area	Forgings for shafting and machinery, Forgings for gearing
Steel type	Carbon and carbon-manganese, Alloy, See page 2
Forging method	Open die forging, closed die forging
Max. weight	See page 2
Max. diameter /section	See page 2
Heat treatment 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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2023-12-14**

for **DNV**

This Certificate is valid until **2026-11-29**.

DNV local unit: **Leer**

Approval Engineer: **Dechun Lou**

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

Forgings for shafting and machinery

Forgings for gearing

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Max. diameter / section [mm]	Heat treatment condition ²⁾
C and C-Mn	NV F400U, NV F440U, NV F480U, NV F520U, NV F560U, NV F600U, NV F640U, NV F680U, NV F720U, NV F760U	OD, CD	6 000	900	N
Alloy	NV F600A, NV F700A, NV F800A, NV F900A, NV F1000A, NV F1100A	OD, CD	6 000	900	QT

Remarks:

- 1) OD: Open die forging
CD: Closed die forging
- 2) QT: Quenched and tempered
N: Normalised
- 3) Incl. equivalent grades in accordance to other standards, e.g. ISO 683-1, ISO 683-2, EN 10250-2 and EN 10250-3