APPROVAL OF MANUFACTURER CERTIFICATE

Certificate no.:
AMMM000000H
Revision No:
3

This is to certify:

that

Gustav Grimm Edelstahlwerk GmbH & Co. KG
Ronsdorfer Str. 172-174, 42828 Remscheid,
Germany

is an approved manufacturer of
Wrought Aluminium and Aluminium Alloys

in accordance with

DNV rules for classification – Ships
DNV-OS-B101 – Metallic materials
DNV class programme – DNV-CP-0248 Wrought aluminium alloys

and the following particulars:

Products	**Forgings**
Grades	**5000 series alloys**
Manufacturing method	**Open die forging**
Max. weight	**10 000 kg**
Heat treatment condition	**O, H111, 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 **2025-06-26**

This Certificate is valid until **2028-06-30**.
DNV local unit: **Essen**

Approval Engineer: **Christian Wildhagen**

for **DNV**
Digitally Signed By: Lohmann, Thorsten
Location: DNV Hamburg, Germany
Signing Date: 26.06.2025

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 USD 300 000.

Particulars of the approval

Aluminium forgings

Grade [1)]	Forging method [1)]	Heat treatment condition
5000 series alloys	OD	O, H111

Remarks:
[1)] OD: Open die forging