APPROVAL OF MANUFACTURER CERTIFICATE

Certificate no.:
AMMM00001JV
Revision No:
4

This is to certify:

that

Wilhelm Maass GmbH
Zeche Ernestine 18, 45141 Essen,
Germany

is an approved manufacturer of
Steel Forgings

in accordance with

DNV rules for classification – Ships
DNV-OS-B101 – Metallic materials
DNV class programme – DNV-CP-0247 Steel forgings

and the following particulars:

Application area	**Stainless steel forgings,** **Forgings**
Steel type / material type	**Austenitic stainless,** **Ferritic-austenitic (duplex) stainless,** **Nickel-base alloy,** **See page 2**
Forging method	**Closed die forging**
Max. weight	**See page 2**
Max. thickness	**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 **2026-07-24**

This Certificate is valid until **2029-07-31**.
DNV local unit: **Essen**

Approval Engineer: **Stefan Röhr**

for **DNV**

This document has been digitally signed and will therefore not have handwritten signature

Martin Wenning

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

Stainless steel forgings

Steel type	Grade [3]	Forging method [1]	Max. weight [kg]	Max. thickness [mm]	Heat treatment condition [2]
Austenitic		CD	250	750	SHT
Ferritic-austenitic	22 Cr Duplex	CD	250	750	SHT
	25 Cr Duplex	CD	250	750	SHT

Nickel-base forgings

Alloy type	Grade [4]	Forging method [1]	Max. weight [kg]	Max. thickness [mm]	Heat treatment condition [2]
Ni-base	2.4856 acc. to DIN 17744 (UNS N06625 acc. to ASTM B564 Grade 1 and 2)	CD	250	750	SHT

Remarks:

1) CD: Closed die forging
2) SHT: Solution Heat Treated (Solution Annealing)
3) Stainless steel forgings shall be in accordance with recognized standards, e.g. EN 10222, ASTM A473/A965/A1049 and JIS G 3214, provided that supplementary requirements contained herein are also met. Recognition of other standards is subject to submission to the Society for evaluation.
4) Possible application and certification of any material to classed object is subject to case by case approval