

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000JH
Revision No:
4

This is to certify:

That

Forgia Rezzatese S.r.l.

**Via Gavardina di Sopra Trav. III 20, 25011 Calcinato (BS),
Italy**

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	Forgings for hull structures and equipment Forgings for shafting and machinery
Steel type	Carbon and carbon-manganese, Alloy
Forging method	Open die forging
Max. weight	See page 2
Max. diameter / section	See page 2
Heat treatment condition	See page 2
Additional approval conditions	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 **2025-03-03**

This Certificate is valid until **2028-02-28**.

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Andreas Koch**



for **DNV**

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

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 hull structures and equipment

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Max. diameter / section [mm]	Heat treatment condition ²⁾
C and C-Mn	NV F400UW, NV F440UW, NV F480UW, NV F520UW, NV F560UW, NV F600UW	OD	10 000	800	N, NT, QT
Alloy	NV F550AW, NV F600AW, NV F650AW	OD	10 000	800	QT

Forgings for shafting and machinery

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	10 000	800	N, NT, QT
Alloy	NV F600A, NV F700A, NV F800A, NV F900A, NV F1000A, NV F1100A	OD	10 000	800	QT

Steels acc. other standards

Grade	Forging method ¹⁾	Max. weight [kg]	Max. diameter / section [mm]	Heat treatment condition ²⁾
Low-alloy chromium and chromium-molybdenum steel acc. EN 10083-3 up to 42CrMo4	OD	10 000	800	NT
Low-alloy chromium and chromium-molybdenum steel acc. EN 10250-3 up to 42CrMo4	OD	10 000	800	QT

Remarks:

- ¹⁾ OD: Open die forging (incl. bars)
- ²⁾ QT: Quenched and tempered
 N: Normalized
 NT: Normalized and tempered
- ³⁾ Incl. equivalent grades in acc. to other standards, see table "Steels acc. other standards"