

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM0000GB** Revision No:

This is to certify:

That

ASOFORGE s.r.l. Unipersonale

Via Verginello, 29/31 25045 Castegnato BS, Italy

is an approved manufacturer of **Steel Forgings**

in accordance with

DNV GL rules for classification – Ships

DNV-OS-B101 – Metallic materials

and the following particulars:

Application area Forgings for hull structures and equipment

Forgings for shafting and machinery

Stainless steel forgings

Steel type Carbon and carbon-manganese,

Austenitic stainless,

Ferritic-austenitic (duplex) stainless

Forging method Open die forging Max. weight 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 2022-12-22

for DNV

This Certificate is valid until 2025-12-31.

DNV local unit: Italy/Malta CMC

Approval Engineer: Stefan Röhr

Thorsten Lohmann
Head of Section

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Job Id: **263.11-002118-6** Certificate No: **AMMM00000GB**

Revision No: 4

Particulars of the approval

Forgings for hull structures and equipment

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	NV F400UW, NV F440UW, NV F480UW, NV F520UW, NV F560UW, NV F600UW	OD	42 000	N, NT, QT

Forgings for shafting and machinery

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	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	42 000	N, NT, QT

Stainless steel forgings

Steel type / grade ⁴⁾	Forging method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Austenitic stainless	OD	42 000	SHT
Ferritic-austenitic (duplex) stainless	OD	42 000	SHT

Remarks:

- 1) OD: Open die forgings
- ²⁾ QT: Quenched and tempered; N: Normalized; NT: Normalized and tempered; SHT: Solution Heat Treated (Solution Annealing)
- 3) Incl. equivalent grades in acc. to other standards
- 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.

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