



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00002FC**  
Revision No:  
**3**

This is to certify:

That

**OFAR S.P.A**  
**Via dell'Artigianato, 57**  
**33043 Cividale del Friuli, UD,**  
**Italy**

is an approved manufacturer of  
**Steel Forgings**

in accordance with  
**DNV rules for classification – Ships**

and the following particulars:

<b>Application area</b>	<b>Forgings for hull structures and equipment</b> <b>Forgings for shafting and machinery</b>
<b>Steel type</b>	<b>Carbon and carbon-manganese,</b> <b>Alloy</b>
<b>Forging method</b>	<b>Open die forging</b>
<b>Max. weight</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>

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 **2022-05-03**

for **DNV**

This Certificate is valid until **2025-03-31**.

DNV local station: **Venice**

Approval Engineer: **Stefan Röhr**

**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.



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## Particulars of the approval

### Forgings for hull structures and equipment

Steel type	Grade <sup>3)</sup>	Forging method <sup>1)</sup>	Max. weight [kg]	Heat treatment condition <sup>2)</sup>
C and C-Mn	NV F400UW, VL F440UW, NV F480UW, NV F520UW, NV F560UW, NV F600UW	OD	44 000	N, NT, QT
Alloy	NV F550AW, NV F600AW, NV F650AW	OD	20 000	QT

### Forgings for shafting and machinery

Steel type	Grade <sup>3)</sup>	Forging method <sup>1)</sup>	Max. weight [kg]	Heat treatment condition <sup>2)</sup>
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	44 000	N, NT, QT
Alloy	NV F600A, NV F700A, NV F800A, NV F900A, NV F1000A, NV F1100A	OD	20 000	QT

#### Remarks:

- 1) OD: Open die forging
- 2) QT: Quenched and tempered  
N: Normalised  
NT: Normalised and tempered
- 3) Incl. equivalent grades in acc. to other standards