



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM0000202
Revision No:
2

This is to certify:

That

LABEKOIA INDUSTRIAL, S.L.
Mandubia Eólicas Plant
Ezkio-Itsaso, Gipuzkoa,
Spain

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(s)	Carbon, Carbon-Manganese, Alloy
Forging method	Open die forging
Max. weight	See page 2
Max. thickness	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 **2024-09-24**

This Certificate is valid until **2027-03-31**.

DNV local unit: **Area NB/CMC Iberia**

Approval Engineer: **Stefan Röhr**



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.



Form code: AM 311

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Particulars of the approval

Forgings for hull structures and equipment

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Max. thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	NV F400UW, NV F440UW, NV F480UW, NV F520UW, NV F560UW, NV F600UW	OD	6 000	700	N, NT, QT
Alloy	NV F550AW, NV F600AW, NV F650AW	OD	6 000	700	N, NT, QT

Forgings for shafting and machinery

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Max. thickness [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	6 000	700	N, NT, QT
Alloy	NV F600A, NV F700A, NV F800A, NV F900A, NV F1000A, NV F1100A	OD	6 000	700	N, NT, 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

Additional approval conditions

Heat treatment accomplished by Baminar S.L (Grupo Riza)