



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000038B

This is to certify:

That

BAMINAR, S.L.(GRUPO RIZA)

**Barrio Santa Lucía s/n 20709 Ezkio-Itsaso, Gipuzkoa,
Spain**

is an approved manufacturer of
Heat treatment

in accordance with

DNV rules for classification – Ships

DNV class programme – DNV-CP-0351 Manufacture of heat treated products - heat treatment workshop

and the following particulars:

Application area
Heat treatment process
Product type
Steel type
Dimensions
Remarks

Heat treatment workshop
Case Hardening
Forgings for Gearing
See page 2
See page 2
Approved as Independent Heat Treatment Workshop

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 **2024-12-03**

This Certificate is valid until **2027-12-02**.

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.

Particulars of the approval

Approval scope for Heat Treatment Workshop

| Item | Description |
|----------------------------|---|
| Product type | Forgings for gear wheels and gear shafts |
| Heat Treatment Type | Carburizing (Layer 0.8 - 4.2 mm) |
| Steel Type | Alloy: 18CrNiMo7-6 according EN 10084 and equivalent standards |
| Max. Dimensions | Workpiece sizes: \varnothing 100 mm - \varnothing 1800mm |
| Furnace types (electrical) | Pit -type furnaces (No. C1, C2, C3, C4, C5, C6, C7, C8, H12, H15, R1, R2, NR2 and R4) with max. dimensions: \varnothing 2400 mm x 3 000 mm Chamber-type furnaces (No. 42, 43) with max. dimensions: 900 mm x 1 200 mm x 600 mm |