



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM0000138**  
Revision No:  
**2**

This is to certify:

That

**ACERIA DE ALAVA, S.A.**  
**Plg.Ind.Saratxo, S/N, 01470, Amurrio (Álava),**  
**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:

<b>Application area</b>	<b>Stainless steel forgings</b>
<b>Steel type</b>	<b>Ferritic-austenitic (duplex) stainless</b> <b>Austenitic stainless</b>
<b>Forging method</b>	<b>Open die forging</b>
<b>Max. weight</b>	<b>4 000 kg</b>
<b>Max. diameter / section</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 **2023-05-15**

for **DNV**

This Certificate is valid until **2025-12-20**.

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

Approval Engineer: **Andreas Koch**

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**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.



Form code: AM 311

Revision: 2022-12

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## Particulars of the approval

### Stainless steel forgings

Steel type	Grade <sup>4)</sup>	Forging method <sup>1) 5)</sup>	Max. weight [kg]	Max. diameter/section [mm]	Heat treatment condition <sup>2) 3)</sup>
Ferritic-austenitic	22 Cr Duplex	OD	4 000	430	SHT
	25 Cr Duplex			400	SHT
Austenitic	316, 316L, 317	OD	4 000	482	SHT

Remarks:

- 1) OD: Open die forging
- 2) SHT: Solution Heat Treated (Solution Annealing)
- 3) Heat treatment carried out by Tratamientos Térmicos Yurre, S.A. or Acería de Alava, S.A.U. (max. 3600 Kg)
- 4) 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
- 5) Actual reduction ratio: 4.6