



Marine & Offshore

Certificate number: 68833/A1 BV

File number: MAT 22788-2021

Product code: 8153I

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

RING MILL SPA

Dubino (SO) - ITALY

for the type of product

STEEL FORGINGS

Forgings in low alloy and stainless steels

Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 25 Feb 2027

For Bureau Veritas Marine & Offshore,

At BV NAPOLI, on 11 May 2023,

Sandro BRUSEGAN

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Forgings in low alloy steels with maximum weight 18 Tons.
Forgings in stainless steel with maximum weight 3 Tons.
Typical products are shafts and rings.

No steelmaking. Raw materials are delivered by approved steelmakers.
Forgings are made from ingot by open die forging. Heat treatment, as applicable.

2. DOCUMENTS AND DRAWINGS :

As per following document issued by Ring Mill Spa:

- "Technical documentation" dated January 2022.
- "NDT documentation" dated January 2022.
- "Technical documentation for martensitic certificate extension" submitted in May 2023.
- "NDT documentation for martensitic certificate extension" including PS610 rev.1 for UT, PS611 rev.0 for MT and PS612 rev.0 for PT dated 28/12/2022.

3. TEST REPORTS :

3.1 As per following reports issued by Ring Mill Spa:

- Ref. n° L08197-009 dated 06/12/2019.
- Ref. n° L08198-005 dated 11/09/2020.
- Ref. n° P01271-001 dated 11/11/2021.
- Ref. n° 2022-0-2421-0001 dated 27/02/2023.
- Ref. n° 2022-0-2421-0002 dated 24/02/2023.

3.2 - Typical tested grades are:

- 36CrNiMo4 according to EN10250-3.
- 34CrNiMo6 according to EN10250-3.
- Gr.630 according to ASTM A564.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules on Materials and Welding.

Chemical composition, tensile properties and Charpy-V notch test requirements are to be as per Bureau Veritas Materials Rules NR216 and/or alternative specification mentioned on reviewed documents and drawings, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by Ring Mill Spa in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules on Materials and Welding.

7. OTHERS :

This certificate replaces approval No.68833/A0 BV.

*** END OF CERTIFICATE ***