



Marine & Offshore

Certificate number: SMS.W.II./62152/D.0

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RECOGNITION FOR BV MODE II SCHEME

ZDAS, a.s. Divize Metalurgie - výroba vykovku
Zdar nad Sazavou - CZECH REPUBLIC

Summary of the range of the recognition which is detailed in the subsequent page(s):

Production of forgings made of carbon, carbon-manganese, low alloyed and alloyed steels in weight from 12 upto 1 000 Kgs.

This certificate is issued to attest that Bureau Veritas Marine & Offshore has performed, at the above company's request and in compliance with the requirements of NR320, a satisfactory assessment of the manufacturing facilities and associated quality procedures related to the range of the recognition.

This certificate will expire on: 24 Jan 2026

For BUREAU VERITAS,
At BV ULM, on 03 Aug 2023,
Bernd Schaechterle

This certificate was created electronically and is valid without signature



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The electronic version is available at: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfRecognition.jsp?id=yi4i72qa87>

THE SCHEDULE OF RECOGNITION

1. RANGE OF THE RECOGNITION

The products corresponding to the categories listed in the table below are to be certified individually or per batch by Bureau Veritas Marine & Offshore in compliance with the applicable requirements (IBV products as defined in NR320).

Generic product	Description
FORGING	C; C.Mn; low alloyed and alloyed steel forgings in weight from 12 to 1 000 Kgs

2. LIMITATIONS

The certificates listed in the range of recognition are to be valid, as applicable.

Bureau Veritas Marine & Offshore is to be informed immediately of any modification to manufacturing facilities and associated quality procedures in order to agree on appropriate actions.

ZDAS, a.s. Divize Metalurgie - výroba vykovku has to apply for the periodical audits as agreed with Bureau Veritas Marine & Offshore.

3. PERIMETER OF CERTIFICATION

Quality system of following site(s) has been assessed:

ZDAS, a.s. Divize Metalurgie - výroba vykovku - Zdar nad Sazavou - CZECH REPUBLIC

4. REMARKS

Production of C; C-Mn; low and high alloyed electric steels with LF and VD/VOD processes casted to ingots or moulds. Made forgings are intended for shipbuilding applications

Works address: Strojírenská 6
591 01 Zdár nad Sázavou - Czech Republic

*** END OF CERTIFICATE ***



Marine & Offshore

Certificate number: 73792/A0 BV

File number: MAT 62152-2022

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

ZDAS, a.s. Divize Metalurgie - výroba vykovku
Zdar nad Sazavou - CZECH REPUBLIC

for the type of product

STEEL FORGINGS

Forgings in carbon, carbon-manganese 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: 16 May 2029

For Bureau Veritas Marine & Offshore,

At BV PRAGUE, on 16 May 2024,

Pavel Jr. Stepanek

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 carbon, carbon-manganese steels of maximum weight 11300 kgs.

Steelmaking by EAF-LF-VD/VOD. Ingots having weight up to 14550 kg. Forgings are made by open die forging from ingots and with minimum total reduction ratio of 5.8:1. Heat treatment as applicable.

2. DOCUMENTS AND DRAWINGS :

2.1 – Documents issued by ZDAS, a.s. Divize Metalurgie - výroba vykovku:

- Manufacturing process and company data according to "Master document for TAC 73792_v0" dated 12/04/2024.

3. TEST REPORTS :

3.1 - Typical tested grade:

- S355J2G3 according to EN10250-2 , Normalizing condition.

3.2 – Documents issued by ZDAS, a.s. Divize Metalurgie - výroba vykovku:

- Test certificates issued for forging serial No.790590 – Heat No. 65906 dated 01/04/2022.

- Test certificates issued for forging serial No.790591 – Heat No. 65892 dated 01/04/2022.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification. Steel grade specification for chemical composition and mechanical properties is to be as per Bureau Veritas Materials Rules for Classification and/or material specification reviewed by the Society, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by ZDAS, a.s. Divize Metalurgie - výroba vykovku 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.

5.4 - For information, ZDAS, a.s. Divize Metalurgie - výroba vykovku has declared to Bureau Veritas the following production site:

ZDAS, a.s. Divize Metalurgie - výroba vykovku
Strojirenska 6
591 01 Zdar nad Sazavou
CZECH REPUBLIC

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

It is ZDAS, a.s. Divize Metalurgie - výroba vykovku's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***