

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001Y0
Revision No:
1

This is to certify:

That
HÁMOR Zrt.
Kiss Ernő u.17, H-3531 Miskolc,
Hungary

is an approved manufacturer of
Steel Forgings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Forgings for hull structures and equipment Forgings for shafting and machinery Forgings for gearing
Steel type	Carbon and carbon-manganese, Alloy
Forging method	Open die forging, ring rolling
Max. weight	See page 2
Max. diameter/section	See page 2
Heat treatment condition	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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules

Issued at **Hamburg** on **2020-07-27**

for **DNV GL**

This Certificate is valid until **2023-06-30**.

DNV GL local station: **Budapest**

Approval Engineer: **Christian Wildhagen**

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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **263.11-010882-1**
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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. diameter / section [mm]	Delivery condition ²⁾
C and C-Mn	VL F400UW, VL F440UW, VL F480UW, VL F520UW, VL F560UW, VL F600UW	OD, RR	5000	500	N, QT
Alloy	VL F550AW, VL F620AW, VL F650AW	OD, RR	5000	500	N, QT

Forgings for shafting and machinery Forgings for gearing

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Max. diameter / section [mm]	Delivery condition ²⁾
C and C-Mn	VL C400U, VL C440U, VL C480U, VL C520U, VL C560U, VL C600U, VL F640U, VL F680U, VL F720U, VL F760U	OD, RR	5000	500	N, QT
Alloy	VL C600A, VL C700A, VL C800A, VL C900A, VL F1000A, VL F1100A	OD, RR	5000	500	N, QT

Remarks:

- 1) OD: Open die forging
RR: Ring rolling
- 2) QT: Quenched and tempered
N: Normalised
- 3) Incl. equivalent grades in acc. to other standards