

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM0000070** Revision No:

This is to certify:

That

Forja Neptun S.R.L.

Str. Înfratirii Nr. 295, 105200 Baicoi, Romania

is an approved manufacturer of **Steel Forgings**

in accordance with

Forging method

DNV GL rules for classification - Ships

and the following particulars:

Products Forgings for hull structures and equipment

Forgings for shafting and machinery

Forgings for gearing

Forgings for boilers, pressure Vessels and piping systems

Stainless steel forgings

Steel type Carbon and carbon-manganese

Alloy

Martensitic stainless
Open die forging

Max. weight 1600 kg
Heat treatment condition See page 2 ff
Additional approval conditions See page 2 ff

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 2021-10-21
This Certificate is valid until 2024-09-30. for DNV

DNV local station: Bucharest

Approval Engineer: Andreas Koch

Thorsten Lohmann
Head of Section

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263.11-011713-1 AMMM0000070

Particulars of the approval

Forgings for hull structures and equipment

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Max. thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	VL F400UW, VL F440UW, VL F480UW, VL F520UW, VL F560UW, VL F600UW	OD	1 600	500	N, NT, QT
Alloy	VL F550AW, VL F600AW, VL F650AW	OD	1 000	500	QT

Forgings for shafting and machinery Forgings for gearing

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Max. thickness [mm]	Heat treatment condition ²⁾
C and C-Mn	VL F400U, VL F440U, VL F480U, VL F520U, VL F560U, VL F600U, VL F640U, VL F680U, VL F720U, VL F760U	OD	1 600	500	N, NT, QT
Alloy	VL F600A, VL F700A, VL F800A, VL F900A, VL F1000A, VL F1100A	OD	1 000	500	QT

Forgings acc. other standards

Grade ³⁾⁴⁾	Forging method ¹⁾	Max. weight [kg]	Max. thickness [mm]	Heat treatment condition 2)			
Steel acc. to EN 10250-2							
S235JRG2, S235J2G3, S355J2G3	OD	1 600	500	N			
C22, C25, C30, C35, C40, C45	OD	1 600	500	N, NT, QT			
Steel acc. to EN 10250-3							
25CrMo4, 34CrMo4,	OD	1 000	500	QT			
42CrMo4, 50CrMo4 ⁴⁾		1 000	1 000	L ~ .			
Steel acc. to EN 10250-4 and EN 10088-3							
X17CrNi16-2 (1.4057)	OD	1 000	160	QT			
Steel acc. to EN 10222-4							
P355QH	OD	1 600	500	NT			
Steel acc. EN 10083-3							
39NiCrMo3	OD	250	250	QT			

Remarks:

- OD: Open die forging
 QT: Quenched and tempered
 N: Normalised

 - NT: Normalised and tempered
- Incl. equivalent grades in acc. to other standards
- The use of alloyed steels with carbon contents of C > 0.45 % is in each case subject to special approval by DNV.

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