

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM0000070**  
Revision No:  
**2**

**This is to certify:**

**That**  
**Forja Neptun S.R.L.**  
**Str. Infratirii Nr. 295, 105200 Baicoi, Romania**

is an approved manufacturer of  
**Steel Forgings**

in accordance with  
**DNV GL rules for classification – Ships**

and the following particulars:

|                           |  |
|---------------------------|--|
| <b>Products</b>           | <b>Forgings for Machine Construction and Shipbuilding<br/>Forgings for Gears<br/>Forgings for Boilers, Pressure Vessels, Process Equipment and Pipelines</b> |
| <b>Steel type(s)</b>      | <b>Carbon and carbon-manganese<br/>Alloy<br/>Austentic stainless</b>   |
| <b>Max. weight</b>        | <b>1600 kg</b>   |
| <b>Delivery Condition</b> | <b>Normalized, Normalized + Tempered, Quenched + Tempered</b>  |
| <b>Remarks</b>            | <b>Including grades according to international standards for approved applications, see particulars of the approval</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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2016-10-25**

for **DNV GL**

This Certificate is valid until **2018-09-30**.  
DNV GL local station: **Bucharest**

Approval Engineer: **Christian Wildhagen**

**Thorsten Lohmann**  
**Head of Section**

Job Id: **263.11-006520-1**  
 Certificate No: **AMMM0000070**  
 Revision No: **2**

## Particulars of the approval

### Forgings

| Grade   | Product | Supply Condition | Thickness<br>[mm], max. | Weight<br>[kg], max. |
|---|---------|------------------|-------------------------|----------------------|
| <b>Forgings acc. to EN 10250-2</b>                  |         |                  |                         |                      |
| S235JRG2, S235J2G3, S355J2G3                        | FF      | N                | 500                     | 1600                 |
| C22, C25, C30, C35, C40, C45                        |         | N, N+T, Q+T      |                         |                      |
| <b>Forgings acc. to EN 10222-4</b>                  |         |                  |                         |                      |
| P355QH acc. to EN 10222-4                           | FF      | N+T              | 500                     | 1600                 |
| <b>Forgings acc. to EN 10250-3</b>                  |         |                  |                         |                      |
| 25CrMo4, 34CrMo4,<br>42CrMo4, 50CrMo4 <sup>1)</sup> | FF      | Q+T              | 500                     | 1000                 |
| <b>Forgings acc. to EN 10083-3</b>                  |         |                  |                         |                      |
| 39NiCrMo3   | FF      | Q+T              | 250                     | 250                  |
| <b>Forgings acc. to EN 10088-3</b>                  |         |                  |                         |                      |
| 1.4057  | FF      | Q+T              | 160                     | 1000                 |
| <b>Forgings acc. to EN 10250-4</b>                  |         |                  |                         |                      |
| 1.4057  | FF      | Q+T              | 250                     | 1000                 |

FF: open die forgings      N: normalized      N+T: normalized and tempered      Q+T: quenched + tempered

### Remarks:

<sup>1)</sup> The use of alloyed steels with carbon contents of C > 0.45 % is in each case subject to special approval by DNV GL.