

# APPROVAL OF MANUFACTURER CERTIFICATE

## This is to certify:

That  
**Schmiedewerke Gröditz GmbH**  
**Riesaer Straße 1**  
**01609 Gröditz, Germany**

is an approved manufacturer of  
**Steel Forgings**

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

and the following particulars:

<b>Steel type(s)</b>	<b>Carbon and carbon-manganese, Alloy, Martensitic Stainless, Austenitic stainless, 22CR duplex stainless</b>
<b>Max. weight</b>	<b>45 000 kg</b>
<b>Remarks</b>	<b>Including continuous grain flow (CGF) crankshafts and seamless rolled rings, Batch testing is accepted for quenched and tempered ring rollings / forgings with mass up to 1 000 kg each</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 **2017-06-15**

for **DNV GL**

This Certificate is valid until **2020-06-30**.

DNV GL local station: **Essen**

Approval Engineer: **Gabi Dau**

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

