

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM0000083**  
Revision No:  
**1**

**This is to certify:**

**That**  
**BEBITZ Flanges Works Pvt. Ltd.**  
**Maharashtra, India**

is an approved manufacturer of  
**Steel Forgings**

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

and the following particulars:

<b>Application area</b>	<b>Forgings for hull structures and equipment Forgings for shafting and machinery Stainless steel forgings</b>
<b>Steel type(s)</b>	<b>Carbon and carbon-manganese, Austenitic stainless, 22Cr duplex stainless</b>
<b>Forging method</b>	<b>Open die forging / closed die forging</b>
<b>Max. weight</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>
<b>Additional approval conditions</b>	<b>Including austenitic stainless steel for low temperature service</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 **2018-07-04**

This Certificate is valid until **2021-06-30**.

DNV GL local station: **Mumbai**

Approval Engineer: **Stefan Röhr**



for **DNV GL**

Digitally Signed By: Wildhagen, Christian  
Location: DNV GL Hamburg, Germany  
Signing Date: 06.07.2018, on behalf of

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



Job Id: **263.11-001285-3**  
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## Particulars of the approval

### Forgings for hull structures and equipment

Steel type	Grade <sup>3) 4)</sup>	Forging method <sup>1)</sup>	Max. weight [kg]	Delivery condition <sup>2)</sup>
C and C-Mn	VL F400UW, VL F440UW, VL F480UW, VL F520UW, VL F560UW, VL F600UW	OD, CD	135	N, NT, QT

### Forgings for shafting and machinery

Steel type	Grade <sup>3) 4)</sup>	Forging method <sup>1)</sup>	Max. weight [kg]	Delivery condition <sup>2)</sup>
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, CD	135	N, NT, QT

### Stainless steel forgings

Steel type / grade <sup>3) 5)</sup>	Forging method <sup>1)</sup>	Max. weight [kg]	Delivery condition <sup>2)</sup>
Austenitic stainless	OD, CD	135	SHT
22Cr duplex stainless	OD, CD	135	SHT

#### Remarks:

- 1) OD: Open die forging; CD: Closed die forging
- 2) N: Normalised; NT: Normalised and tempered; QT: Quenched and tempered; SHT: Solution heat treated
- 3) Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules
- 4) Incl. equivalent grades in acc. to other standards
- 5) Stainless steel forgings shall be in accordance with recognized standards, e.g. EN 10222, ASTM A473/A965/A1049 and JIS G 3214. Recognition of other standards is subject to submission to the Society for evaluation