

# APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

**Josef Brechmann GmbH & Co. KG**  
**Schloß Holte-Stukenbrock, Germany**

is an approved manufacturer of  
**Iron Castings**

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

and the following particulars:

<b>Iron type(s)</b>	<b>Nodular cast iron</b>
<b>Max. weight</b>	<b>250 kg</b>
<b>Remarks</b>	<b>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.

This Certificate is valid until **2019-06-30**.

Issued at **Hamburg** on **2016-05-09**

DNV GL local station: **Magdeburg**

Approval Engineer: **Christian Wildhagen**

for **DNV GL**

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

Job Id: 263.11-003336-2  
Certificate No: AMMM00000JX

## Particulars of the approval

### Cast Iron

Grade	Product	Casting Method	Supply Condition	Weight [kg], max.
VL NCI-1	GGG	SC	F/AC	250
VL NCI-2	GGG	SC	F/AC	250
VL NCI370	GGG	SC	AC	250
VL NCI400	GGG	SC	AC	250
VL NCI500	GGG	SC	AC	250
VL NCI600	GGG	SC	AC	250
VL NCI700	GGG	SC	AC	250
VL NCI800	GGG	SC	AC	250
EN-GJS-350-22-LT acc. to EN 1563	GGG	SC	F	250
EN-GJS-350-22-RT acc. to EN 1563	GGG	SC	F	250
EN-GJS-400-18-LT acc. to EN 1563	GGG	SC	F	250
EN-GJS-400-18-RT acc. to EN 1563	GGG	SC	F	250
EN-GJS-350-22 acc. to EN 1563	GGG	SC	AC	250
EN-GJS-400-18 acc. to EN 1563	GGG	SC	AC	250
EN-GJS-400-15 acc. to EN 1563	GGG	SC	AC	250
EN-GJS-500-7 acc. to EN 1563	GGG	SC	AC	250
EN-GJS-600-3 acc. to EN 1563	GGG	SC	AC	250
EN-GJS-700-2 acc. to EN 1563	GGG	SC	AC	250
EN-GJS-800-2 acc. to EN 1563	GGG	SC	AC	250

GGG: nodular cast iron      AC: as cast      F: ferritized      SC: sand casting