



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate no.:  
**AMMM00000WH**  
Revision No:  
**3**

## This is to certify:

that

**J.D. Brackelsberg GmbH**  
Heilenbecker Str. 117-121, 58256 Ennepetal,  
Germany

is an approved manufacturer of  
**Iron Castings**

in accordance with

**DNV rules for classification – Ships**  
**DNV class programme – DNV-CP-0249 Iron castings**

and the following particulars:

<b>Iron type</b>	<b>Grey cast iron, Nodular cast iron</b>
<b>Casting method</b>	<b>Sand casting</b>
<b>Max. weight</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2025-07-15**

This Certificate is valid until **2028-08-31**.

DNV local unit: **Essen**

Approval Engineer: **Andreas Koch**



for **DNV**

This document has been digitally signed and will  
therefore not have handwritten signature  
Christian Wildhagen

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

## Particulars of the approval

### Cast iron

Iron type	Grade <sup>3)</sup>	Casting method <sup>1)</sup>	Max. weight [kg]	Heat treatment condition <sup>2)</sup>
Grey	200	SC	120	AC
	250	SC	120	AC
	300	SC	120	AC
	350	SC	120	AC
Nodular	NV NCI-1	SC	120	AC, F
	NV NCI-2	SC	120	AC, F
	NV NCI370	SC	120	AC
	NV NCI400	SC	120	AC
	NV NCI500-7	SC	120	AC
	NV NCI600-3	SC	120	AC
	NV NCI700	SC	120	AC
	NV NCI800	SC	120	AC

#### Remarks:

- <sup>1)</sup> SC: Sand casting
- <sup>2)</sup> AC: As cast; F: Ferritizing
- <sup>3)</sup> Incl. equivalent grades in acc. to other standards, e.g. EN 1561 and EN 1563