



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001S5
Revision No:
2

This is to certify:

That

M. Jürgensen GmbH & Co. KG
Markschell 3, 24966 Sörup,
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:

Iron type	Grey cast iron, Nodular cast iron
Casting method	Centrifugal casting, see page 2
Max. weight	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2

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 **2023-10-16**

for **DNV**

This Certificate is valid until **2026-10-31**.

DNV local unit: **Hamburg**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

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 300,000 USD.



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Particulars of the approval

Cast iron

Iron type	Grade	Casting method ¹⁾	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Grey	200	CC	5 000 kg	300	AC
	250				
	300				
	350				
Nodular	NV NCI400	CC	5 000 kg	300	AC
	NV NCI500-7		5 000 kg	300	AC
	NV NCI600-3		5 000 kg	300	AC
	NV NCI700		5 000 kg	300	AC
	NV NCI800		5 000 kg	300	AC
	EN-GJS-400-18 acc. EN 1563		5 000 kg	300	AC
	EN-GJS-400-15 acc. EN 1563		5 000 kg	300	AC
	EN-GJS-450-10 acc. EN 1563		5 000 kg	300	AC
	EN-GJS-500-7 acc. EN 1563		5 000 kg	300	AC
	EN-GJS-600-3 acc. EN 1563		5 000 kg	300	AC
	EN-GJS-700-2 acc. EN 1563		5 000 kg	300	AC
	EN-GJS-800-2 acc. EN 1563		5 000 kg	300	AC
	Special cast iron acc. customer specification ³⁾		5 000 kg	300	Acc. spec.

Remarks:

- ¹⁾ CC: Centrifugal Casting
- ²⁾ F: Ferritizing annealing
P: Perlitization annealing
AC: As Cast (or stress relieved)
- ³⁾ Possible application and certification of any material to classed object is subject to case by case approval