DNV-GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00001S5** Revision No:

1

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 GL rules for classification - Ships

and the following particulars:

Iron type Grey cast iron, Nodular cast iron

Casting method Centrifugal casting,

see page 2

Max. weightSee page 2Max. wall thicknessSee page 2Heat treatment conditionSee 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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at Hamburg on 2020-11-16

for **DNV GL**

This Certificate is valid until **2023-10-31**.

DNV GL local station: 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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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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263.11-008142-2 Certificate No: **AMMM00001S5**

Revision No:

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	VL NCI 400	СС	5 000 kg	300	AC/F
	VL NCI 500		5 000 kg	300	AC
	VL NCI 600		5 000 kg	300	AC
	VL NCI 700		5 000 kg	300	AC/P
	VL NCI 800		5 000 kg	300	AC/P
	EN-GJS-400-18 acc. EN 1563		5 000 kg	300	AC/F
	EN-GJS-400-15 acc. EN 1563		5 000 kg	300	AC/F
	EN-GJS-450-10 acc. EN 1563		5 000 kg	300	AC/F
	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/P
	EN-GJS-800-2 acc. EN 1563		5 000 kg	300	AC/P
	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

³⁾ Possible application and certification of any material to classed object is subject to case by case approval

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