

## APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM0000046 Revision No: 3

This is to certify:

## That Klaus Kuhn Edelstahlgiesserei GmbH Otto-Hahn-Str. 12-14, 42477 Radevormwald, Germany

is an approved manufacturer of **Steel Castings** 

in accordance with DNV rules for classification – Ships DNV rules for classification – Naval vessels

and the following particulars:

Application area	Stainless steel castings
Steel type	Austenitic stainless,
	22Cr duplex stainless,
	25Cr duplex stainless
	Martensitic stainless,
	Ferritic stainless
Casting method	Centrifugal casting
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 2022-10-10

This Certificate is valid until **2025-06-30**. DNV local station: **Essen** 

Approval Engineer: Christian Wildhagen

for **DNV** 

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.





## Particulars of the approval

## Stainless steel castings acc. other standards

Grade	Casting method <sup>1)</sup>	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>	
Stainless steel acc. to EN 10283 and/or EN 10213					
1.4308, 1.4309, 1,4347, 1.4408, 1.4409, 1.4412, 1.4416, 1.4446, 1.4468, 1.4469, 1.4470, 1.4517, 1.4552, 1.4557, 1.4581, 1.4584, 1.4588, 1.4008, 1.4011, 1.4111, 1.4317, 1.4405, 1.4525	сс	6 000	100	SHT, QT	
Stainless steels acc. to SEW 410					
1.4306, 1.4317, 1.4404, 1.4468, 1.4469, 1.4517, 1.4536, 1.4569, 1.4405	СС	6 000	100	SHT, QT	
Non magnetizable steels acc. to SEW 395					
1.3940, 1.3955, 1.3960, 1.3967	СС	6 000	100	SHT	
Stainless steels acc. customer specification <sup>3)</sup>					
1.4312, 1.4448	СС	6 000	100	SHT	

Remarks:

1)

CC: Centrifugal casting SHT: Solution Heat Treated (Solution Annealing) 2)

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