

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00002HJ**Revision No:

This is to certify:

That

Ortlinghaus-Werke GmbH Kenkhauser Straße 125,

42929 Wermelskirchen, Germany

is an approved manufacturer of **Heat treatment**

in accordance with DNV rules for classification – Ships

and the following particulars:

Application area Heat treatment workshop Heat treatment process Induction hardening

Salt bath hardening

Product type Clutches

Steel type Carbon and carbon-manganese,

Alloy

Max. dimensions 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 2022-08-29

for DNV

This Certificate is valid until 2025-06-11.

DNV local station: Essen

Approval Engineer: Stefan Röhr

Thorsten Lohmann
Head of Section

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Job Id: **263.11-009519-2** Certificate No: **AMMM00002HJ**

Revision No: 1

Particulars of the approval

Approval scope for Independent Heat Treatment Company

Item	Description
Product type	Clutches
Steel Type	Carbon and carbon-managese, Alloy
Heat Treatment Type	Induction hardening Salt bath hardening
Furnace Details	Salt bath: max. Ø 700 mm Tempering: max Ø 1 100 mm
Heat Treatment Procedure	Doc. No. V-70503 Version 1.1 (Induction hardening) Doc. No. V-7050301 Version 1.0 (Salt bath hardening)

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