



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002HJ
Revision No:
2

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

DNV class programme – DNV-CP-0351 Manufacture of heat treated products - heat treatment workshop

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 **2025-03-27**

This Certificate is valid until **2028-06-11**.

DNV local unit: **Essen**

Approval Engineer: **Torben Schälicke**



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 300,000 USD.

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)