



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAS000020C
Revision No:
1

This is to certify:

that the **Hook**

with type designation(s)
HHH 2.5

issued to

H. Henriksen AS
TØNSBERG, Norway

is found to comply with

DNV standard DNV-ST-0378 – Offshore and platform lifting appliances

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2024-05-07**

for **DNV**

This Certificate is valid until **2029-05-06**.

DNV local unit: **Norway Fleet in Service, East-South**

Approval Engineer: **Axel Janson**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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.



Product description

Equipment type: Hitch hook

- Maximum line-pull: 2500 kg (Safety-factor: 4)
- Application: Offshore
- Minimum Design temperature: -20 °C
- Operating condition: 0-45 degree upwards relative to horizontal plane

It is the operator's responsibility to ensure that the above parameters are not exceeded.

Application/Limitation

- All materials are to be delivered with 3.1 certificates (EN 10204:2004), documenting mechanical properties and chemical composition in accordance with the Type Approval documentation, and shall comply with DNV-ST-0378 Standard for offshore and platform lifting appliances.
- Support- and connections to deck structure are not covered by this approval.

Type Approval documentation

<u>Drawing Number</u>	<u>Rev.</u>	<u>Title</u>
HH000235	-7	Henriksen Hitch Hook 2,5
M000762	-1	User Manual - HHH 2,5 (ID 11905)
HH378052	-5	Welded Housing HHH 2,5
HH378058	--	Main Hook Element HHH 2,5
HH040189	A-	Main bolt hook element
HH378054	-4	Sideplate HHH 2,5 Left
HH378053	-1	Sideplate HHH 2,5 Right

Tests carried out

<u>Description</u>	<u>Report</u>	<u>Date</u>	<u>Witnessed by</u>
Prototype testing	N141SSCF	2019.03.26	DNV Sandefjord

Marking of product

Each hook shall be marked according to DNV-ST-0378 Standard for offshore and platform lifting appliances, and shall contain:

- Manufacturer's name or mark
- Type designation
- Part number
- Serial number
- Additional technical data as applicable

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNV-CP-0338.

END OF CERTIFICATE