



TYPE APPROVAL CERTIFICATE

Certificate No:
TAS0000134
Revision No:
1

This is to certify:

That the Hook

with type designation(s)
HPHA 2.5

Issued to
H. Henriksen AS
TØNSBERG, Norway

is found to comply with
DNV standard DNV-ST-0378 – Standard for offshore and platform lifting appliances

Application :

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

Issued at **Høvik** on **2022-01-10**

for **DNV**

This Certificate is valid until **2027-01-09**.

DNV local station: **Sandefjord**

Approval Engineer: **Mats Asvald Innstø**

Aldo Matteucci
Head of Section

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: Catch Hook for Towing

Application: Offshore

Design temperature: -20 degrees Celsius

Operating condition: 0-45 degree upwards relative to the horizontal plane

Maximum dynamic tension in towing line, in relation to line-angle from horizontal plane:

Angle	Max. dynamic tension (SF=4)
0-10 °	2500 kg
10-20 °	2100 kg
20-30 °	1600 kg
30-45 °	1450 kg

The operator is responsible to ensure that the line pull does not exceed the above parameters. Dynamic effects shall also be considered when calculating the above.

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 Offshore and platform lifting appliances – Edition July 2019.
- Support and connection to the deck structure are not covered by this approval.

Type Approval documentation

<i>Drawing No</i>	<i>Rev.</i>	<i>Title</i>
M000443	--	User Manual - HPHA (ID 6353)
HH110505	B3	HPHA 2,5 house welded
HH040189	A-	Main bolt hook element
HH020091	B-	Sideplate HPHA 2,5 right 8 mm
HH020090	B-	Sideplate HPHA 2,5 left 8 mm
HH010025	A1	Main hook element
HH000164	A4	HPHA 2,5 On-load Capture claw

Tests carried out

Testing performed according to DNV GL statement N141DTYT. Testing witnessed by DNV GL Sandefjord 2017-04-06.

Marking of product

Each hook shall be marked according to DNV-ST-0378 Offshore and platform lifting appliances – Edition July 2019.



Job Id: **262.1-026256-2**
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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