Certificate no.:
TAS00004KS

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Lifting Gear

with type designation(s)
Eye Catcher EC5

issued to
Breman Innovation B.V.
GENEMUIDEN, **Netherlands**

is found to comply with

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

Application:

Included on second page of this document.

Issued at **Høvik** on **2025-01-22**
This Certificate is valid until **2030-01-21**.
DNV local unit: **Netherlands VMC**

for **DNV**

Approval Engineer: **Luisa Brites**

.....

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 USD 300 000.

Product description

Remote-operated lifting system with an automatic hook equipped with a spring-return mechanism, integrated into a frame.

Application/Limitation

Safe working load (SWL): 5 metric tonnes
Maximum design dynamic factor: 1.3
Minimum design temperature: -20 °C
Maximum number of lifting cycles: 30 000

The equipment is to be properly protected against corrosion. Regular inspections and all necessary maintenance shall be carried out to ensure equipment functionality and corrosion prevention.

Type Approval documentation

Fabrication and testing procedures

All materials are to be delivered with 3.1 certificates, documenting mechanical properties and chemical composition in accordance with the Type Approval documentation, and shall comply with Sec.3 of DNV-ST-0378.

This Type Approval is limited to design approval, including the control system. The Type Approval does not directly grant a Product Certificate but may be used as a basis for obtaining one.
If a DNV Product Certificate is required, each Eye Catcher shall be subjected to overload testing as per DNV-ST-0378 Table 14-2.

Marking of product

Each Eye Catcher shall be marked according to DNV-ST-0378, section 14 [14.5].

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.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com

END OF CERTIFICATE