

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Cranes, gen.**with type designation(s)
Personnel Emergency Recovery Crane

Issued to

A. Olufsen Ship & Offshore AS
HAUGESUND, Norwayis found to comply with
DNV GL standard DNVGL-ST-0378 – Standard for offshore and platform lifting appliances**Application :****Crane for emergency recovery of personnel****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2019-05-31**This Certificate is valid until **2024-05-30**.for **DNV GL**DNV GL local station: **Haugesund**Approval Engineer: **Khurram Saeed Khaliq**

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.



Product description

The crane is approved for emergency recovery of personnel working in tanks or cargo holds, and not intended to be regularly used for lifting of personnel or access purposes.

Safe working load: 150 kg

Application/Limitation

- The crane frame has been approved according to DNVGL-ST-0378 with regard to structural strength and according to DNV GL Rules for Classification – Ships - Part2 Chapter 2 Sec.10 with regard to material quality.
- All material qualities are to comply with mentioned Rules and are to be delivered with 3.1 certificates.
- All welding are to be carried out by qualified welders and according to welding procedures acceptable to the attending surveyor.
- The manufacturer is required to have a DNV GL surveyor witness all important production and tests as required. Based on this witnessing, the surveyor should personally stamp the units, sign the reports and issue product certificates.
- The strength of the deck structure where the crane is mounted is not part of this approval.
- The winch is accepted based on overload test 2 x SWL and functional testing.

Type Approval documentation

Tests carried out

Prototype test carried out 2013-12-04, at the manufacturers premises, witnessed by DNV GL Haugesund.

Marking of product

Each unit to be marked with Manufacturer's name, Safe Working Load and Type Approval Certificate Number.

Periodical assessment

For retention of the Type Approval, a DNV GL 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 DNVGL-CP-0338.

END OF CERTIFICATE