



Certificate no.:
TAS00004M1

TYPE APPROVAL CERTIFICATE

This is to certify:

that the portable offshore unit

with type designation(s)
Hydraulic Hose Winch

issued to

Machinefabriek Emce B.V.
Voorhout, Zuid-Holland, Netherlands

is found to comply with

DNV standard DNV-ST-E273 – 2.7-3 Portable offshore units, April 2016 (Amended May 2022)

Application:

Max. gross mass (kg) **63000**
Max. payload (kg) **34000**
Max. sling leg angle **(see comment)**

Issued at **Aberdeen** on **2025-01-29**

This Certificate is valid until **2030-01-28**.

for **DNV**

DNV local unit: **Rotterdam**

Approval Engineer: **Elisabeth Legg**

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.

Manufactured by

Machinefabriek Emmen B.V.
Emmen, The Netherlands
DNV local office: Rotterdam

Responsibility

Machinefabriek Emce B.V. takes responsibility that both design and production are in compliance with the Rules, Standards and/or Regulations listed on page 1 of this Type Approval Certificate.

Product description

Maximum external dimensions (LxWxH)	: 7340 x 6446 x 6050 mm
Tare mass*	: 29000 kg
Type	: A
Operational Class	: R30

*) Tare mass is to be confirmed by weighing. The sum of tare and payload shall never exceed the maximum gross mass stated on the front page of this certificate.

Application/Limitation

Shackle size	: 55 t
Maximum Resultant sling force (RSF)	: 956 kN
Minimum design temperature	: -20 °C

DNV surveyor to witness important production and test events and issue Form no. MOP 201 "Certificate for Portable Offshore Unit" for each unit.

This design has been approved for two different lifting arrangements with different maximum gross weights. This information shall be transferred to the DNV product certificate and the information plate on each unit.

All structural bolted connections shall be inspected at regular intervals and prior to all transportation and lifting activities. Should any signs of significant wear or damage be evident, these items shall be replaced with equivalent fasteners. This information shall be transferred to each DNV product certificate issued.

Note: The bolted connections in this design are not intended to be disassembled on a regular basis. Disassembly and reassembly may be necessary for repair of the hose reel – this shall be considered a substantial repair.

Type Approval documentation

Tests carried out

Prototype tested in accordance with DNV-ST-E273.

Load testing shall be carried out for both lifting arrangements.

Marking of product

Marking is to be carried out in accordance with to DNV-ST-E273 section 6.

Periodical assessment

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNV-SE-0284 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonised with other surveys and audits carried out.

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>