Certificate no.:
TAS00004BB

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Winch - General Application

with type designation(s)
Winch EPV-3620-SGP

issued to
Dromec B.V.
Rhenen, Utrecht, **Netherlands**

is found to comply with
DNV standard DNV-ST-0378 – Offshore and platform lifting appliances
DNV standard DNV-ST-0358 – Offshore gangways

Application:

See next page

Issued at **Høvik** on **2024-10-07**

This Certificate is valid until **2029-10-06**.

for **DNV**

DNV local unit: **Netherlands CMC**

Approval Engineer: **Fredrik Per Olof Höglund**

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

Electric telescoping winch, EPV-3620-SGP, for gangway system.
EPV-3620-SGP is part of a two-winch system enabling telescopic function of an offshore gangway.

Application/Limitation

The electric telescoping winch is approved for the following conditions:

Maximum dynamic wire pull*	105 kN
Maximum dynamic radial load on drum, from both wire ropes	124 kN
Number of wire layers	1
Wire pitch diameter, bottom of groove	363 mm
Wire rope diameter	19 mm
FEM class	M5-L2-T5
Minimum design temperature	-20 deg. C.

*It is the designer’s responsibility to ensure that the static capacity of the winch is adequately established based on the intended application.

Note:

1. Control system, gear boxes and brakes are not part of the Type Approval. Control system shall be covered in a separate design approval. Gears and brakes shall be delivered with DNV product certificate.
2. All load-bearing materials are to be delivered with 3.1 certificates, documenting mechanical properties and chemical composition in accordance with the DNV-ST-0378 Sec.3.
3. Bearings lifetime have not been evaluated. It is assumed the bearings are delivered with sufficient capacity documented.
4. Bolts/screws shall be preloaded according to the manufacturer's recommendations.
5. There shall always be minimum 3 turns of the wire left on the drum at all conditions.

Type Approval documentation

Tests to be carried out

In order to obtain a DNV Product Certificate, the winch shall be tested according to the DNV-ST-0378 Table 14-1.
Test load in wire rope: 98.4 kN.
NDT to be carried out according to DNV-ST-0378 Sec.3.
Testing shall be witnessed by DNV representative.

Marking of product

Each winch is to be marked according to DNV-ST-0378 Sec.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