



Certificate No:
TAS00003S8

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Slewing Bearing

with type designation(s)
Double ball bearing

Issued to

Galperti Tech Forged Products S.p.A.
Colico LC, Italy

is found to comply with

DNV standard DNV-ST-0378 – Offshore and platform lifting appliances
DNV standard DNV-ST-0358 – Offshore gangways

Application :

Slewing bearing intended for offshore gangways

Issued at **Høvik** on **2023-01-25**

This Certificate is valid until **2028-01-24**.

DNV local unit: **Italy/Malta CMC**

for **DNV**

Approval Engineer: **Khurram Saeed Khaliq**

Per Esvall
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

Pitch diameter 2025 mm	Bearing material 42CrMo4 Q+T	Bolts – outer ring 72 x M30 – 10.9	Bolts – inner ring 72 x M30 – 10.9
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Application/Limitation

The slewing bearing, with drawing no. V81-2304-000-COMM, has been evaluated and found to comply with respect to structural strength to DNVGL-ST-0378 and DNVGL-ST-0358.

Design temperature: -20°C

Slewing bearing is approved for the loads specified below which are including all dynamic and safety factors, including SF1 given in 8.2.2.4, as specified in DNVGL-ST-0378, Section 8.

Load case	Axial Load Fa [kN]	Radial Load Fr [kN]	Overturning moment [kNm]
1	562	232	3528
2	562	251	3532
3	573	255	3868
4	562	266	398

The slewing ring and slewing ring fastener material needs to be delivered with 3.2 material certificate and signed by DNV surveyor, documenting compliance with DNV material requirements.

Each slewing bearing being marked/sold as “type approved by DNV” is to be certified by DNV surveyors as outlined in DNV-ST-0378. A Product Certificate endorsed or issued by DNV surveyor is to accompany each slewing bearing/delivery.

Flanges and adjacent structure have not been evaluated, nor covered by this Type Approval.

It is the end user's responsibility that design parameters are not exceeded in practice.

Type Approval documentation

Tests carried out

Separate test of slewing bearing is not required. The slewing bearing is to be tested together with offshore gangway.

Marking of product

Slewing bearing is to be marked with manufacturers trademark, type designation and serial number. The surveyor shall stamp each unit with VL mark and with the DNV Product Certificate number or reference to Type approval.

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 DNVGL-CP-0338.