



Certificate no.:  
**TAS00004TB**

# TYPE APPROVAL CERTIFICATE

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**This is to certify:**  
**that the Lifting Gear**

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with type designation(s)  
**TubeLock XL**

issued to  
**Global Gravity ApS**  
**Esbjerg N, Syddanmark, Denmark**

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

**Application:**  
**See next page**

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Issued at **Høvik** on **2025-04-29**

This Certificate is valid until **2030-04-28**.  
DNV local unit: **Esbjerg Verification**

Approval Engineer: **Peder Bendik Møll**

for **DNV**

*Per Esvall*

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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

Tubelock XL lifting poles and bottom lifting beam

## Application/Limitation

Categorisation: Loose gear  
 Design temperature: -20 °C  
 Safe working load, bottom beam: 3650kg  
 Safe working load, Lifting poles: 1825kg  
 Dynamic amplification factor: 1.92

The Tubelock XL lifting poles and bottom lifting beam are approved as individual loose gear parts according to DNV-ST-0378 when used as described in *TubeLock® Large – User Manual* revision 1. The TubeLock XL assembly/system is not part of the approval

Each TubeLock XL part shall be tested according to DNV-ST-0378, July 2019 “Standard for offshore and platform lifting appliances” Section 14. Minimum test load to be 2.88xSWL.

Fatigue life is not evaluated. Inspections should be carried out at sufficient intervals to detect any fatigue defects before they become critical.

Friction coefficients between the lifting beams and load is to be minimum 0.65. The friction coefficient is not validated by DNV and it is the end users responsibility to ensure this friction coefficient is obtained

## Type Approval documentation

Following documents are stamped “Approved”:

Drawing number	Revision	Title
B-0001-0000-GG-P-0012	0	Bottom plate
B-0020-0000-GG-P-0001	1	LP-20-AG Pipe
WD-0020-00AG-GG-P-0001	2	LP-20-AG weldment
B-0020-0000-GG-P-0002	1	LP-20-AU Pipe
WD-0020-00AU-GG-P-0001	2	LP-20-AU weldment
B-0001-0000-GG-P-0014	0	Padeye AG
B-0001-0000-GG-P-0015	0	Padeye AU

Following documents are stamped “For information”:

Drawing number	Revision	Title
ST-2000-1200-GG-X-0001	1	20" sticker bottom
ST-2000-1200-GG-X-0002	0	20" sticker top
AD-2000-1200-GG-P-0002	1	20" Tubelock Assembly
AD-2000-1200-GG-P-0001	3	20" Tubelock Assembly
B-0001-0000-GG-P-0016	1	Busing
B-0001-0000-GG-P-0011	0	Busing
GG-01-RA-00004	C	Calculation Documentation
B-0001-0000-GG-P-0010	0	Hook plate
WD-0000-000L-GG-P-0001	0	Hook weldment
T-0001-0000-GG-X-0012	A	LOADTEST PROCEDURE 20" LARGE
AD-0020-00AG-GG-P-0001	0	LP-20-AG Assembly
AD-0020-00AU-GG-P-0001	0	LP-20-AU Assembly
B-0001-0000-GG-S-0015	1	New sliding block
-	1	TubeLock Large - User manual
Tubelock Large MDR	A	Tubelock Large MDR
PD-0018-0000-GG-XD-0001	C	TubeLock XL Concept Drawing Overview
T-0001-0000-GG-X-0011	B	Lifting Pole Load test Procedure
WD-2000-1200-GG-P-0001	1	MODEL 1200 - 20" H-PROFILE WELDING DRAWING

## Marking of product

Each Handling tubular accessory shall be marked according to DNV-ST-0378, July 2019 “Standard for offshore and platform lifting appliances” Section 14. Se 14.5.1.2 for specific requirements for lifting accessories.



Job ID: **262.1-042957-1**  
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### **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.

### **Manufactured by:**

Global Gravity ApS  
Lillebæltsvej 37  
6715 Esbjerg N  
DENMARK

END OF CERTIFICATE