DNV·GL

Certificate No:
TAS00001D5

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Portable Offshore Units

with type designation(s)
232" Dual Swivel DID Powerstand 3. gen

Issued to
Dwellop AS
Sandnes, Norway

is found to comply with
DNV GL standard DNVGL-ST-E273 – 2.7-3 Portable offshore units, December 2016

Application :

DNV 2.7-3 Type C R30
Max. significant wave height during offshore lift: 3.0 m
Only certified lifting equipment shall be used.

Max. gross mass (kg)	**15100**
Max. payload (kg)	**0**
Max. sling leg angle	**30**

Issued at **Høvik** on **2018-03-02**

This Certificate is valid until **2023-03-01**.

for **DNV GL**

DNV GL local station: **Bergen & Stavanger - Cranes & Lifting Verification**

Approval Engineer: **Steinar Hernes**

Stig Johannes Johannesen
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.

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Job Id: **262.1-028300-1**
Certificate No: **TAS00001D5**

Holder of certificate
Dwellop AS, Koppholen 25 4313 Sandnes, Norway

Manufactured by
Maskinering og Sveiseservice AS, Vardheivegen 66, 4344 Bryne, Norway

Responsability
The Holder of the Certificate takes responsability 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
POU TYPE / CLASS	:	DNV 2.7-3 Type C R30
TARE WEIGHT	:	15 100 kg
POU external dimensions (LxWxH)	:	5787x2946x4776 [mm]

Application/Limitation
Maximum Gross Weigth (MGW)	:	15 100 kg
Max H_s during offshore lift	:	3.0 m
Min. temperature	:	-20 °C
Max. sling angle from vertical	:	30°
Shackles (WLL)	:	8.5 mT ($Ø_{pin}$=28 mm)

Lifting:
Lifting of these units shall be carried out as planned operations. Specific lifting procedures shall be available. The procedure shall include all relevant information required to ensure safe handling of the unit. Reference to the procedure (doc.no. 15000-DWP-O-MB-0001, Rev. 02) shall be clearly stated on the information plate.

Lifting set to be used:

2 of 2-part lifting set – 2570mm, WLL 17 T v/33° as 4-part:

Item		WLL (MBL)	Comment
Top Master link assembly	:	17.1 T (85.5) T	Safety factor: 5
Ø26mm Wire Slings	:	- T (48.11) T	
Shackles	:	8.5 T (51) T	Safety factor: 6



The certificates are valid only when the units are fitted with certified lifting set.

Sea transport
Requirements for seafastening shall be assessed by the transport contractor for each transport taking into consideration vessel particulars, position of POU, transport route and expected weather conditions. Lashing/seafastening arrangement shall be as indicated in the operational procedure (doc.no. 15000-DWP-O-MB-0001, Rev. 02).

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

Production strength tests to be carried out according to DNVGL-ST-E273 (December 2016) and after agreement with the DNV GL Surveyor.

Type Approval documentation

Tests carried out

Prototype testing according to DNVGL-ST-E273, Sec. 5.

All point lift test according sec. 5.2.3, total load (table 5-2): **32 000 kg**.

Marking of product

Each unit to be marked with:

- Safety marking according to DNVGL-ST-E273 (December 2016), sec. 6 including
  - Operational Class Identification
  - "OPERATIONAL RESTRICTIONS"
- Data plates according to DNVGL-ST-E273 (December 2016), sec. 6
- Reference to operational procedure shall be clearly stated on information plate
- The general DNV GL hard stamp "VL" shall be hard stamped on frame
- Manufacturer's serial number to be welded on frame
- DNV GL emblem for Portable Offshore Units

Periodical assessment

Periodical assessment to be carried out at intervals not exceeding 12 months and after substantial repair or alteration according to DNVGL-ST-E273 (December 2016), sec. 8.

END OF CERTIFICATE