Certificate no.:
TAS000052W

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Offshore Container

with type designation(s)
8 Cylinder Cascade Rack

issued to
Master Line Mechanical Equipment Works LLC
Abu Dhabi, **United Arab Emirates**

is found to comply with
DNV standard DNV-ST-E271 – 2.7-1 Offshore containers, March 2023 (Amended December 2024)
IMO/MSC Circular 860

Application:

Max. gross mass (kg)	**1700**
Max. payload (kg)	**1000**
Max. sling leg angle	**45**
Enhancement factor	**N/A**

Issued at **Aberdeen** on **2025-11-24**
This Certificate is valid until **2030-11-23**.
DNV local unit: **Abu Dhabi**

for **DNV**

Approval Engineer: **John McCallum**

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

Maximum external dimensions (LxWxH) : 1308 x 1200 x 2137 mm
Tare mass* : 700 kg

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

Application/Limitation

Design temperature : 0 °C
Minimum shackle bolt diameter : 21.7 mm

The DNV surveyor shall witness all important production and testing events and issue a certificate for each container. The certificate is only valid when the container is fitted with a DNV-ST-E271 certified lifting set.

This type approval does not apply to the gas cylinders transported in this frame. If gas cylinders are to be installed and connected to manifolds, the unit as a whole (frame and payload) shall be approved and certified in accordance with the IMDG Code Ch. 6.2 by an authorised certifying body.

Type Approval documentation

Tests carried out

Prototype tested in accordance with DNV-ST-E271.

Marking of product

Each container to be marked in accordance with DNV requirements, including:

- Data and inspection plates
- DNV emblem for offshore containers
- NV mark to be hard stamped on the data plate
- Manufacturer's Serial Number to be welded on frame
- Design shall be certified for use in a temperate climate only and shall be marked in accordance with DNV-ST-E271 section 10 when design temperature of 0ºC is selected

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