Odense Maritime Technology
Innovation. Expertise. Experience

LNG BUNKER TANKER
Small-scale
The OMT series of LNG bunker tankers are designed for the regional small-scale LNG bunker market, conveying the LNG from terminals and liquefaction plants to the consumers. The LNG capacity is suitable for distribution to ships with low LNG capacity stretching to cruise liners.

To take care of the LNG shipping’s dynamic nature and the individual requirements of each owner, OMT has configured the cargo section as a flexible module that can be customised to the specific requirements but still using the developed standard aft ship and forward ship, which is for the benefit of the owner and production yards. See opposite page for different layouts.

The design is drafted with focus on production cost and facilitation of building process for yards without gas experience. The modulated design allows yards to consider the vessel itself as a platform and source major equipment packages designed and specified by OMT such as:

- LNG equipment, including commissioning
- Propulsion plant, including engines, switchboards, gas fuel supply system and thrusters (propulsion and transverse)
- Other large packages can be agreed upon

The main dimensions have been selected in order to allow operation along the shore and estuary where shallow draught is required.

The beam has been selected to allow the ship to enter most inland ferry ports.

One of the designs introduces the swift containers located on the deck. These 40” ISO tank containers allow swift delivery of LNG to ferry ports between ferry departure and arrival, superseding transport of LNG by lorries.

The ship is fitted with a gas electric power line consisting of two 4-stroke dual-fuel engines powering two steerable thrusters and consumers.

The dual-fuel engines fulfil TIER III as well as ECA requirements when running on gas.

An advantage of the engines is the double wall gas pipe design eliminating the need for separated gas tight engine spaces.
**Main particulars**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length overall*</td>
<td>95.3 m</td>
</tr>
<tr>
<td>Length between perpendiculars</td>
<td>93.1 m</td>
</tr>
<tr>
<td>Breadth mld.</td>
<td>18.0 m</td>
</tr>
<tr>
<td>Depth mld.</td>
<td>6.0 m</td>
</tr>
<tr>
<td>Air draught above baseline</td>
<td>21.6 m</td>
</tr>
<tr>
<td>Design draught</td>
<td>3.5 m</td>
</tr>
</tbody>
</table>

* The length of the ship can be altered to suit the wanted arrangement

**Class notification**

ABS A1 LIQUEFIED NATURAL GAS CARRIER WITH INDEPENDENT TANKS, ACCU, ICE-CLASS 1C

Tank notation as appropriate for the respective tank design

**Propulsion**

- **Main engine**
  - 2 x Wärtsilä 6L20DF
  - alternative 8L20DF

- 2 steerable thrusters with fixed pitch 4-bladed propeller and nozzle

**Other**

- Bow thruster
  - 1 x 640 kW

**Performance**

- Service speed (subject to final model test)
  - 8.0-9.0 kn

**Accommodation**

- Number of crew cabins
  - 9

- 2 officer cabins with adjacent bedroom and toilet/bath.
- Up to 7 separate crew cabins with own toilet/bath

*All information and figures are given in good faith but without any guarantee or liability and do not include any engineering nor procurement margins.*
Odense Maritime Technology traces its heritage back to 1917 when Odense Steel Shipyard was founded by A.P. Moller in Odense, Denmark. OMT was founded in 2010 as a spin-off from Odense Steel Shipyard. In 2013, OMT acquired Grontmij Marine (formerly known as Carl Bro Marine), a design company with a strong bulk carrier product portfolio tracing back to Burmeister & Wain Shipyard.

Key focus areas for OMT are design of cost-effective and fuel-efficient ships. The product range includes container ships, bulk carriers, gas tankers, offshore supply vessels, tugs and navy ships. Another key focus area is retrofitting of existing vessels to improve fuel efficiency and ensure compliance with new regulations.

Our solutions are based on new technology that ensures optimal energy efficiency and improved environmental performance. The result is proven quality solutions, reliability and operational high performance. OMT’s supply scope involves full design packages and can be extended to include procurement and production optimisation. OMT has offices in Denmark, China, India and Canada.

Visit www.odensemaritime.com for more information.