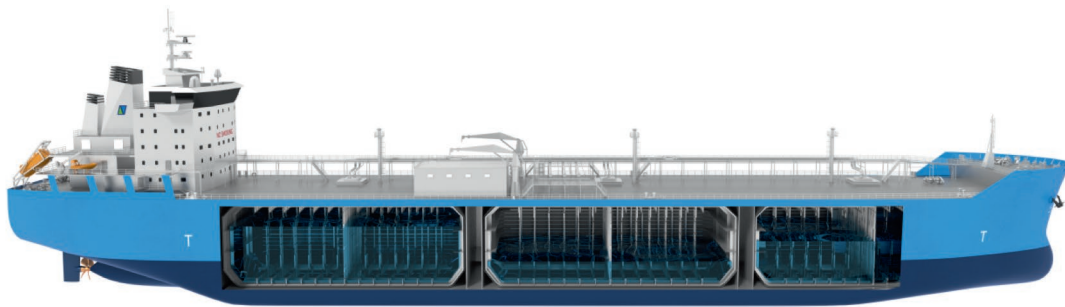




LNT45 – 45 000 m³ LNG Carrier

LNT45 is a state of the art 45,000m³ LNG carrier designed by LNT Marine. The design is based on the LNT A-BOX[®] containment system, which gives excellent volume utilization and allows for design of an efficient hull form. LNT45 is a building friendly and energy effective medium scale LNG carrier for world wide trade, and ideal for re-loading of cargoes for local and regional distribution.



Main Dimensions

Length o.a.:	195.3 m
Length b.p.:	184.8 m
Beam moulded:	30.0 m
Depth moulded:	20.0 m
Design draught (LNG):	9.0 m
Scantling draught:	10.3 m

Tonnage

Deadweight (scantling):	approx. 29,500 ton
Gross tonnage:	approx. 30,000 -

Speed & Range

Service speed:	16.5 knot
Range:	approx. 13,000 nm

Machinery & Propulsion

The propulsion system shall feature one dual fuel main engine mechanically connected to a single shaft and propeller. The auxiliary generator sets shall be able to burn natural gas.

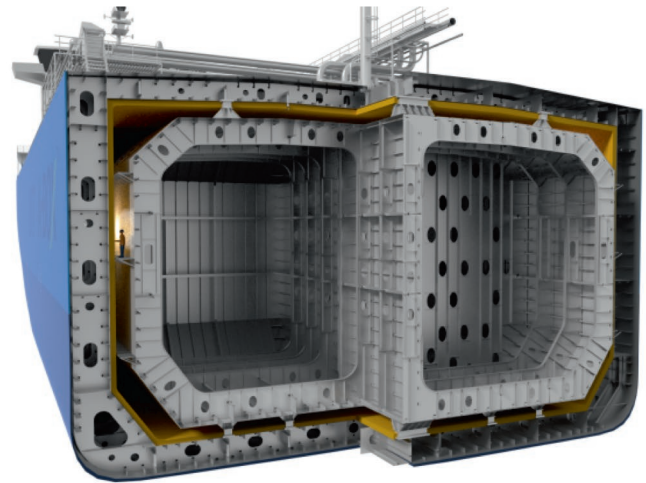
Dual fuel main engine:	approx. 11,700 kW
Auxiliary engines:	approx. 2,500 kW

Cargo System

No. of cargo tanks:	3 -
Total capacity:	45,000 m ³
MARVS:	0.4 bar g
Design density:	0.6 ton/m ³
Boil-off rate:	approx. 0.15% per day
Min.temp.:	- 163 °C

LNT A-BOX®

The unique LNT A-BOX® containment system has been developed by LNT Marine. The LNT A-BOX® system consists of an IMO independent tank type A placed in an insulated hold space. The system combines proven technologies in a safe and cost effective configuration. The idea was to develop and commercialize a simple and efficient cargo containment system that could enable more shipyards to build the LNG carriers. LNT A-BOX® offers a number of advantages compared to other containment systems for LNG/LEG.



Building capacity and costs

- Enabling more yards to build LNG carriers
- Independent tank construction
- Simple and cost-effective design

Safety

- Easy inspection and maintenance
- No filling restrictions
- Robust tank design
- Independent barriers

Efficiency

- Excellent volume utilization
- Excellent thermal insulation
- Hull form flexibility

LNT Marine

LNT Marine (LNT) is a technology provider and contractor within the LNG sector, gas carriers and other types of cold cargoes. We invent and develop new technologies. We provide design and engineering for marine solutions based on our proprietary technologies, and we offer system supply as well as technical support and installation services.

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