WÄRTSILÄ

WÄRTSILÄ **Ship Design**

WSD80 3800

3800TEU Container Feeder

DATASHEET

Design highlights

- Wärtsilä integrated solution
- Latest dual fuel main engine technology
- Superior hull lines, CFD optimized
- Low fuel consumption, high propulsive efficiency
- High homogeneous container intake
- Reduced emissions in LNG operation: SOx (100%), CO_2 (20%), NOx (80%)
- LNG tanks arr't allows for conversion to/from LNG operation and efficient utilisation of cargo area
- Economical and friendly operation
- Flexible container stowage
- Ballast water treatment plant compliant with the latest MARPOL V
- Latest rules and regulations for container feeder
- Comply with EEDI Phase 3 acc. to MEPC.203(62)
- Approved in principle verified by DNV GL

SPECIFICATION IN BRIEF

Length over all, approx.	224.8 m
Deadweight, max	53,200 DWT
Gross tonnage	41,200 GT
Net tonnage	16,100 NT
Design speed	16.2 knots
Operation area	"Worldwide"
Main engine	2-stroke Wärtsilä 1 x 18,200 kW W6X72DF
Container capacity	3,840 TEU
Reefer capacity	674 FEU
ME daily fuel gas cons.	
Design draught, approx.	31.2 t

DNV·GL

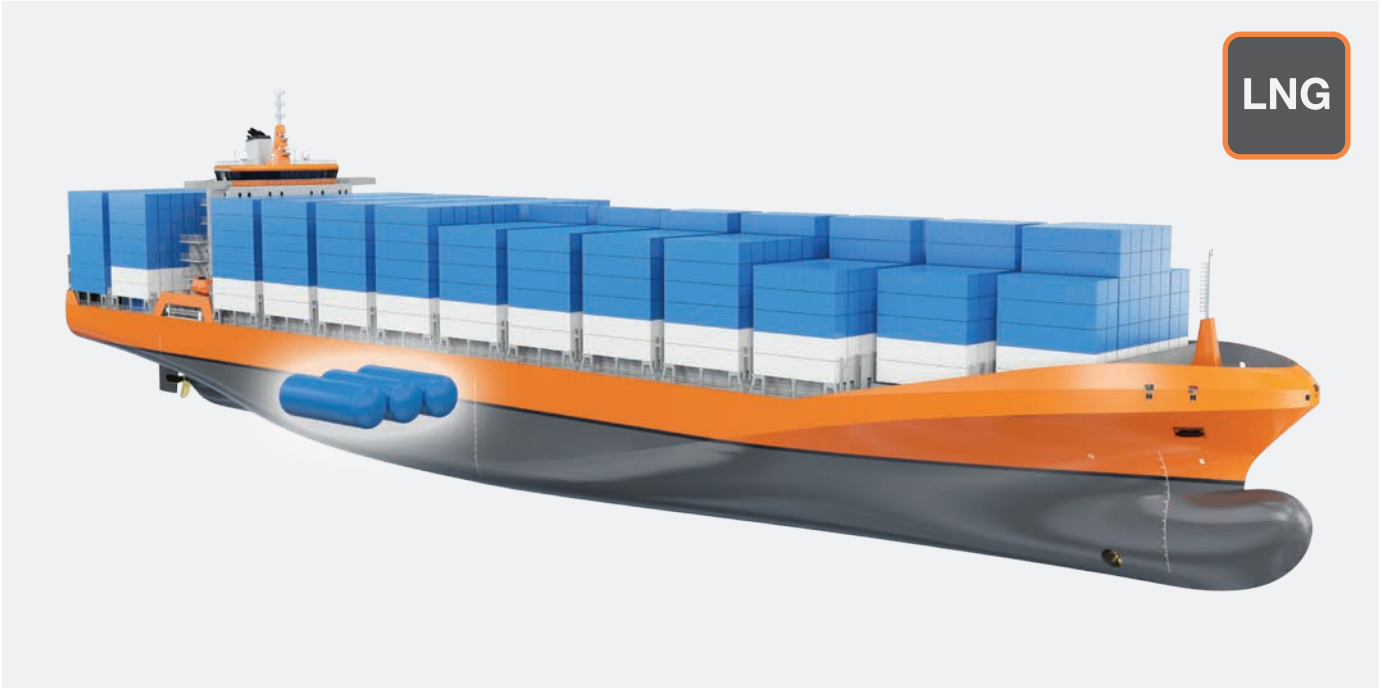
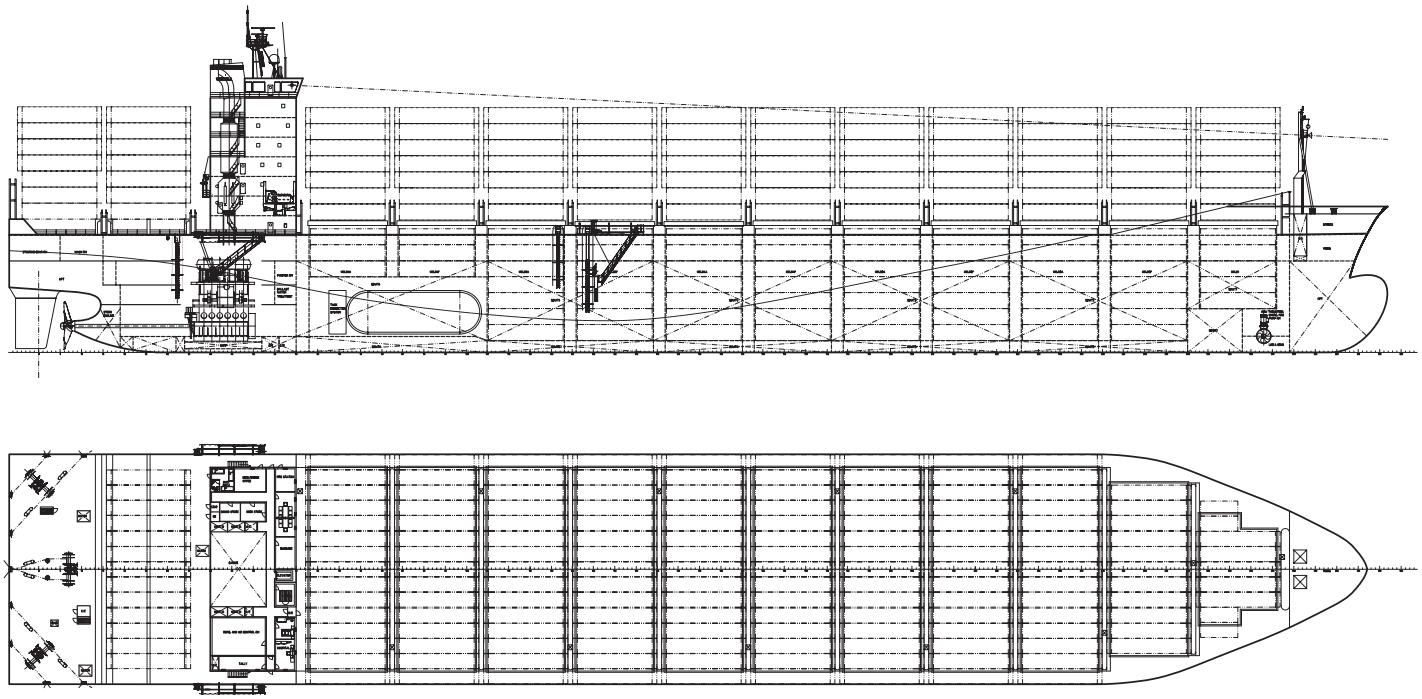


Fig.1 Detailed elavation drawings



TECHNICAL SPECIFICATION

MAIN DIMENSIONS

Length over all, approx. ..... 224.80 m
Length PP ..... 213.80 m
Breadth moulded ..... 37.50 m
Depth to main deck ..... 19.10 m
Draught, design ..... 11.00 m
Draught, scantling ..... 12.50 m
Deadweight (T= 12.50 m) ..... 53,200 t

SERVICE SPEED & ENDURANCE

Max. Speed ..... 19.2 knots
Service Speed ..... 16.2 knots
Eco Speed ..... 15.1 knots
Endurance (MDO), approx ..... 21,000 nm
Endurance (LNG), approx ..... 7,750 nm
(service speed, design draught, with 15% SM)

TANK CAPACITY

LNG capacity, approx. ..... 1,950 m^3
MDO capacity, approx. ..... 3,000 m^3
FW capacity, approx. ..... 500 m^3
Ballast capacity approx. ..... 18,000 m^3

STACK WEIGHT

Hatch cover 20'/40' ..... 70t/105 t
In holds 20'/40' ..... 150t/180 t
Hatch cover 45'/48'/49' ..... 95 t
Lashing bridge arranged at all bays

CONTAINER CAPACITY

Container position
On Deck ..... 2,396 TEU
In Hold ..... 1,444 TEU
Total ..... 3,840 TEU

Reefer plug position
(on deck/in hold) ..... 267/407 FEU

Dangerous cargos in all of cargo holds

Container intake at Design draught
HOMO 11t/TEU ..... 3,192 TEU
HOMO 14t/TEU ..... 2,715 TEU

Container intake at Scantling draught
HOMO 11t/TEU ..... 3,497 TEU
HOMO 14t/TEU ..... 3,039 TEU
Based on ISO standard container, a rel. VCG of 45%

ACCOMMODATION

26 persons full HVAC in single cabins, plus one Suez Crew cabin for 6 Suez

E-PLANT 230 V/450 V

Power ..... 450 V, 60 Hz
Lighting ..... 230 V, 60 Hz
Automation ..... 230 V, 60 Hz / 24 VDC

MACHINERY

Main engine (6X72DF), MCR ..... 18,200 kW
NCR (50% MCR) ..... 9,100 kW
Generator sets ..... 3 x 1,600 + 1 x 2,770 kWe
Emerg. generator ..... 1 x 200 kWe
Bow thrusters ..... 1 x 1,200 kW
Propeller ..... 1 x FPP, dia. 7,800 mm

LNG FUEL CONSUMPTION, DESIGN DRAUGHT

Service speed, no reefers ..... 36.4 t/day
Service speed, all reefers ..... 50.6 t/day
Eco speed, all reefers ..... 44.6 t/day

PERFORMANCE, SERVICE SPEED, SCANTLING DRAFT

ME FOC 14t/TEU [g/TEU/nm] 26.7
ME FOC 11t/TEU [g/TEU/nm] 23.2

CLASSIFICATION

LR +100A1, Container Ship, ShipRight (SDA, FDA, CM, ACS(B)), *IWS, LI, BoxMax(V,W), ECO(BWT, EEDI-3, IHM), +LMC, UMS, NAV1, GF with descriptive notes: "ShipRight(BWMP(T), SERS, SCM), CSA"

Or equivalent

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WSD ID: 60074

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