WSD80 1400 1400TEU Container Feeder

**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%), CO₂ (20%), NOx (80%)
- LNG tanks allow 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)
- Approval in principle verified by Lloyd’s Register

**SPECIFICATION IN BRIEF**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Length over all, approx.</td>
<td>162.9 m</td>
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<tr>
<td>Deadweight, max</td>
<td>19,900 DWT</td>
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<tr>
<td>Gross tonnage</td>
<td>16,800 GT</td>
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<tr>
<td>Net tonnage</td>
<td>5,000 NT</td>
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<tr>
<td>Design speed</td>
<td>18.0 knots</td>
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<tr>
<td>Operation area</td>
<td>“Worldwide”</td>
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<tr>
<td>Main engine</td>
<td>2-stroke Wärtsilä 1 x 10,080 kW 7RT-flex50 DF</td>
</tr>
<tr>
<td>Container capacity</td>
<td>1,420 TEU</td>
</tr>
<tr>
<td>Reefer capacity</td>
<td>334 FEU</td>
</tr>
<tr>
<td>ME daily fuel gas cons.</td>
<td>29.0 t</td>
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</tbody>
</table>

Design draught, approx. 29.0 t
TECHNICAL SPECIFICATION

MAIN DIMENSIONS
Length over all, approx..............................162.90 m
Length PP.............................................153.85 m
Breadth moulded ...................................26.00 m
Depth to main deck ................................14.20 m
Draught, design ......................................8.50 m
Draught, scantling ...................................9.50 m
Deadweight (T= 9.50 m)............................19,900 t

SERVICE SPEED & ENDURANCE
Max. Speed.............................................18.7 knots
Service Speed........................................18.0 knots
Eco Speed ............................................16.0 knots
Endurance (MDO), approx.........................8,600 nm
Endurance (LNG), approx.........................8,800 nm
(service speed, design draught, with 15% SM)

TANK CAPACITY
LNG capacity, approx.................................1,600 m³
MDO capacity, approx.................................1,140 m³
FW capacity, approx.................................350 m³
Ballast capacity approx..............................9,100 m³

STACK WEIGHT
Hatch cover 20'/40'/45'..............................70t/105 t
Main deck 20'/40'/45'.................................70t/105 t
In holds 20'/40'/45'..................................150t/180 t

CONTAINER CAPACITY
Container position
On Deck.............................................948 TEU
In Hold.............................................472 TEU
Total................................................1,420 TEU
Reefer plug position
(on deck/in hold).................................176/158 FEU

Dangerous cargos in all of cargo holds
Container intake at Design draught
HOMO 11t/TEU.................................1,064 TEU
HOMO 14t/TEU.................................914 TEU
Container intake at Scantling draught
HOMO 11t/TEU.................................1,164 TEU
HOMO 14t/TEU.................................1,024 TEU

Based on ISO standard container, a rel. VCG of 45%

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 (7RT-flex50 D), MCR..................10,080 kW
NCR (85% MCR).................................8,560 kW
Generator sets...2 x 1,420 kWe + 2 x 1,065 kWe
Emerg. generator......................1 x 150 kWe
Bow thrusters..............................1 x 1,081 kW
Propeller..............................1 x FPP, dia. 5,900 mm

LNG FUEL CONSUMPTION, DESIGN DRAUGHT
Service speed, no reefers .........................31.5 t/day
Service speed, all reefers.................42.7 t/day
Eco speed, all reefers......................32.4 t/day

PERFORMANCE, SERVICE SPEED, SCANTLING DRAUGHT
ME FGC 14t/TEU [g/TEU/nm].............67.4
ME FGC 11t/TEU [g/TEU/nm].............59.3

ACCOMMODATION
24 persons full HVAC in single cabins plus one
Suez Crew cabin for 6 Suez

CLASSIFICATION
LR +100A1, Container Ship, ShipRight (ACS(B)),
*1WS, Li, BoxMax(V,W), ECO/BWT, EED-3,
IHM, LMC, UMS, NAV1, GF with descriptive
notes: ShipRight(BWMP(T), SERS, SCM), CSA*
Or equivalent

wartsila.com/shipdesign  shipdesign@wartsila.com

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