
90M SELF-ELEVATING UNIT

(HULL NO.: DSME1205)



Specifications are subject to change without notices.

GENERAL INFORMATION

Type: DSSEU300 (B) 90m Self-Elevating Unit

Building Year: Due for delivery 2017

Class: American Bureau of Shipping

Class Notation:

⊗A1, Self-Elevating Unit, Accommodation Services,

⊗AMS-NP, ⊗DPS-1, CRC, CPS, UWILD

Flag: Panama

MAIN DIMENSIONS

Hull

Length overall approx. 85.1m

Width overall approx. 51.0m

Length moulded 63.6m

Breadth moulded 40.0m

Depth moulded 5.8m

Design draught 3.2m

Leg and Spudcans

Leg length (including spudcan) 91.5m

Spudcan 11.7m X 11.7m X 1.5m

Effective area per spudcans 136.89m²

MAIN PERFORMANCE DATA

Maximum operating water depth 60 m

Normal lifting capacity of jacking system 6400t

Average up & down jacking speed ~1m/min

Sailing speed ~4.5kn

Free deck area approx. 1400m²

DESIGN CONDITIONS

Working Condition 1

Water depth 60m

Max. wave height 6.3m

Wave period 7s

Wind velocity 25.7m/s

Current at surface 1.03m/s

Current at seabed 0m/s

Air gap 8m

Working Condition 2

Water depth 32m

Max. wave height 6.3m

Wave period 8.3s

Wind velocity 36m/s

Current at surface 1.03m/s

Current at seabed 0m/s

Air gap 20m

Storm Condition

Water depth 30m

Max. wave height 9.5m

Wave period 10.2s

Wind velocity 51.5m/s

Current at surface 1.8m/s

Current at seabed 1.03m/s

Air gap 9m

Crane Working

Water depth 60m

Max. wave height 6m

Wave period 7s

Wind velocity 15.5m/s

Current at surface 1.03m/s

Current at seabed 0m/s

Air gap 8m

DESIGN VARIABLE LOAD

Elevated abt. 1900t

Jacking abt. 1800t

Towing abt. 1600t

DECK LOAD

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Main deck	5.0 t/m ²	Dirty oil tank	12.77m ³
Main deck (Fr.30~53, 12.44m (P/S))	7.5 t/m ²	Bilge water tank	12.77m ³

HELIDECK

Diameter	22.2m
Capable for landing helicopter Sikorsky S92 or equivalent	

ACCOMMODATION

Living Cabins

One-man room	16 nos
Two-man room	10 nos
Four-man room	66 nos
Total complement	300 men

Other Spaces

Public space	Mess room, meeting room, offices, lounge, prayer room, gym, helicopter waiting room, library, change room, cinema
Service space	Galley, laundry, medical & ward room

TANK CAPACITY

Fresh water tank 1	456.72m ³
Fresh water tank 2	527.88m ³
Fuel oil store tank 1	148.77m ³
Fuel oil store tank 2	233.78m ³
Fuel oil day tank 1	21.25m ³
Fuel oil day tank 2	21.25m ³
No.1 SWballast tank (PS/SB)	241.11m ³
No.2 SWballast tank (PS/SB)	187.23m ³
No.3 SWballast tank (PS/SB)	223.40m ³
No.4 SWballast tank (PS/SB)	146.45m ³
No.5 SWballast tank (PS)	170.89m ³
No.5 SWballast tank (C)	371.33m ³
Em'cysewage watertank	51.06m ³
Seawater reservoir	322.69m ³

JACKING SYSTEM

Supplier	Hydraquip, USA
Type	Hydraulic rack and pinion
Number	Four (4)
Total number of jacking unit	64 sets
Number of jacking units per leg	16 sets

Item	Per jacking unit	Per leg
Normal jacking (vertical push on rack)	100t	1600t
Preload lifting capacity	140t	2240t
Normal holding	140t	2240t
Storm holding	200t	3200t

POWER STATION

Supplier	Caterpillar
Model	C32
Main generator	4 X 830 kW 50Hz 3φAC400V
Emergency generator	1 X 250kW 50Hz 3φAC400V

PROPULSION SYSTEM

Main engine	2 X 1760kW @ 1000rpm
Rudder propeller	2 X 1600kW @ 1000rpm
Bow thruster	1 X 80kN @ 600kW

CRANE

Main Crane

Main hook:	200t @ r=9.5m; 40t @ r=40m
Aux. hook:	10t @ r=10.5m ~ 43m
With man riding	

Auxiliary Crane

Main hook:	20t @ r=5.6m~20m; 10t @ r=30m
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