



VESSELS

Renewables

seaway<sup>7</sup>

# Seaway Ventus

## Vessel Info

*Full specification overleaf*

**Seaway Ventus** will be amongst the largest self-propelled jack-up installation vessels in the world.

The GustoMSC NG-14000XL-G vessel is designed specifically to transport and install the next generations of offshore wind turbines and XL monopile foundations, to the highest environmental standards

The vessel will be capable of installing wind turbine components in water depths of 65m, to a height of up to 182m above the sea and will feature a telescopic leg-encircling crane with a maximum lifting capacity of 2,500t in retracted mode and 1,600t in extended mode.

The vessel will be equipped with well-balanced DP2 capability and VSD driven jacking systems, providing a controlled ramp-up/rampdown, speed and torque control, for frequent, fast and secure jacking operations.

Special emphasis has been placed on providing a class-leading environmental footprint by way of energy and heat recovery, battery hybrid solutions as well as a sophisticated electrical and control system, reducing CO<sub>2</sub> emissions by 20% compared to similar units. The vessel will be prepared for hydrogen fuel cells which will cut emissions even further when such technology becomes available.

*Seaway Ventus* will be delivered Q2 2023.



## Seaway Ventus

### MAIN CHARACTERISTICS

Hull length	142.0m
Hull width	50.0m
Hull depth	11.0m
Draft (max.)	6.5m
Dynamic positioning	DP2
Accommodation	130 persons
Helideck	suitable for Sikorsky S92/S61 (12.8t - 22.2m)
Variable load (max.)	9,800t
Deck load capacity main deck	10t/m <sup>2</sup>
Free deck space (approx.)	4,600m <sup>2</sup>
Leg length under hull (max.)	84m
Leg type	x4 triangular open truss
Overall length	109m
Spud can area (approx.)	OR ≈ 160m <sup>2</sup>
Water depth	> 65m

### MAIN CRANE

Type	GLTC-2500/1600-ED telescopic truss boom
Location	Starboard aft leg

#### Retracted mode:

Lifting capacity (max.)	2,500t
Lifting height above deck (max.)	116.5m (at 30m radius)

Lifting height above LAT (max.)	142.5m (with 15m air gap) (at 30m radius)
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#### Extended mode:

Lifting capacity (max.)	1,600t
Lifting height above deck (max.)	155.4m (at 38.5m radius)

Lifting height above LAT (max.)	182 (with 15m air gap) (at 38.5m radius)
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#### Auxiliary hoist:

Lifting capacity (max.)	250t
Lifting height above deck (max.)	166m (at 26.6m radius)



### AUXILIARY CRANES

Type	Pedestal mounted knuckle boom
Crane capacity	20t at 35m radius 15t at 40m radius

Type	Pedestal mounted telescopic boom
Crane capacity	15t at 30m radius / 7.5t at 45m radius

### POWER SYSTEM

Main generators	6 water cooled generator sets. Combined output 15MW. Emission class IMO Tier III
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Emergency generator	750kW
Energy storage system	batteries rated at 4,000kWh

Heat recovery system

Regenerative energy recovery system

LOHC fuel system prepared

Full DC electrical system

Shore power hook up

### PROPULSION

Thruster type	Azimuth and tunnel thrusters
Thruster power	3x 3,500kW + 3x 3,000kW
Transit speed, empty deck	10 knots

### CLASSIFICATION, REGULATIONS

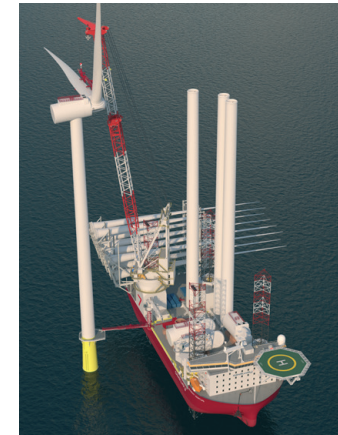
DNV Self-elevating unit	
IMO MODU code	
SNAME-RP T&R 5-5A and/or ISO 19905-1	
Flag	Norwegian International Ship (NIS)

### JACKING SYSTEM

Model	GLL-U2110-105-L
Type	Opposed rack and pinion
Number of pinions	4 layers of 24 pinions
Jacking speed (max. hull lifting)	0.8m/min
Jacking speed (max. leg handling)	1.2m/min
Drive	Electric, individual, VSD

### DELIVERY

Seaway Ventus	Q2 2023
VIND2	TBA



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