



VESSELS

Renewables

seaway<sup>7</sup>

# Seaway Ventus

## Vessel Info

*Full specification overleaf*

**Seaway Ventus** is a large self-propelled jack-up installation vessel designed to install offshore wind turbines and monopile foundations, able to accommodate up to 130 people on board.

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

The vessel is able to transport and install Monopile foundations as well as Transition Pieces, Anode Cages and Secondary Steel installation.

*Seaway Ventus* utilises a state-of-the-art electrical distribution system for the thrusters, main crane, energy storage system, and the option for a shore connection, to reduce the carbon intensity of its operations.



## Seaway Ventus

### GENERAL INFORMATION

DNV Self-elevating unit	
IMO MODU code	
SNAME-RP T&R 5-5A and/or ISO 19905-1	
Type	GustoMSC NG-14000XL-G
Flag	Cyprus
Built	2023

### MAIN CHARACTERISTICS

Hull length	142.0m
Hull width	50.0m
Hull depth	11.0m
Draft (max.)	9.4m
Dynamic positioning	DP2
Accommodation	130 persons
Helideck	suitable for Sikorsky S92/S61 (12.8t - 22.2m)
Variable load (max.)	10,931t
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

### POWER SYSTEM

Main generators	6 water cooled generator sets. Combined output 15MW. Emission class IMO Tier III
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	

### PROPULSION

Thruster type	Azimuth and tunnel thrusters
Thruster power	3x 3,500kW + 3x 3,000kW
Maximum speed	11.7 knots

### MAIN CRANE

Type	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)
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)
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



### JACKING SYSTEM

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



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