

ZEE RIG 1

Small Waterplane Area Twin Hull

- Ultra-stable vessel
- Length 237 Ft., Breadth 95 Ft.
Length 72.2 m, Breadth 29.0 m
- Top Deck Open Space 15,000 Ft.² (1,400 m²)
- Below Deck Open Space 16,500 Ft.² (1,550m²)
- Sea-keeping and motion characteristics up to Sea State 5
- Self-propelled and DP (DP-II capable upon request)
- Available for Charter within 6-9 months
- Located in Green Cove Springs, Florida
- Bare-deck will be configured to client requirements
- U.S. Flag Vessel, Jones Act compliant



Zee Rig 1 configured as 300 person Floating Hotel.

Zentech is the owner of Zee Rig 1, a Semi-SWATH technology vessel that is approximately 75% complete and in a bare-deck configuration. The vessel is berthed in Houston, Texas where it is undergoing outfitting. Zentech owns the design rights to this vessel and the related family of Semi-SWATH units.

Zentech is a Houston-based marine engineering and naval architecture consulting firm specializing in the offshore oil and gas and renewable energy industries.

The company has a thirty year history of providing innovative engineering solutions, and employs a professional staff of over 160 in six international locations. Zentech also owns five state-of-the-art drilling rig jackup and wind farm support vessel diagrams.

Ideally suited for:

- Offshore wind farm maintenance and service work
- Floating hotel • General offshore service support
- Sub-sea ROV or dive support work
- Commuter or shuttle passenger service



Zee Rig 1 in ROV Support configuration.

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SWATH Background

SWATH concept vessels have been used for many years in oceanographic research applications because of their superior stability characteristics. More recently, they have been used for offshore vessel crew changes and similar applications. The North Sea is now using SWATH vessels for harbor pilot transport due to their improved motion characteristics. The use and application of SWATH vessels is expected to grow due to their motion keeping advantages.

ZEE RIG 1 is a Semi-SWATH design that avoids the operational limitations of more conventional SWATH vessels, which typically have a circular pontoon cross section and deep draft. The Semi-SWATH design employs a variable draft concept with a more rectangular pontoon cross section. This variability allows for matching draft to sea conditions and more efficient transits in favorable weather with the pontoons only partially submerged, and providing steadier operation at slower speeds in heavy seas with the pontoons fully submerged. The rectangular pontoon cross section greatly reduces the amount of vessel motion in a seaway when operating fully submerged at slow speeds or holding station.

The ZEE RIG 1, by virtue of its Semi-SWATH design, exhibits a minimum of vessel rolling or pitching. Propulsion is by twin screws (one propeller in each pontoon) and bow thruster for ease of maneuvering. The vessel may be outfitted with DP-II upon request. The vessel employs dynamic positioning. It is ABS Class and SOLAS compliant.



Zee Rig 1 in Wind Farm Servicing configuration.



Vessel prior to outfitting.

Key Dimensions	U.S.	Metric
Length, overall	237 Ft.	72.2 m
Length of pontoons	225 Ft.	68.6 m
Breadth overall	95 Ft.	29.0 m
Breadth-pontoons	24 Ft.	7.3 m
Upper hull depth	13 Ft.	4.0 m
Depth to main deck	46 Ft.	14.0 m
Draft at design waterline	21.5 Ft.	6.6 m
Minimum draft	12.5 Ft.	3.8 m
Lightship displacement	1,570 L. Tons	1,595 mt
Loadline displacement	3,446 L. Tons	3,400 mt
Approximate deck load capacity	200 L. Tons	203 mt
Propulsion on each shaft	1,500 HP	1,200 kw
Emergency generator	350 KW	350 kw
Fuel capacity (95%)	38,265 US Gal.	144,849 l
Fresh water capacity (95%)	37,265 US Gal.	141,063 l
Service speed transit draft	12 Knots	12 knots
Service speed at loadline draft	9-10 Knots	9-10 knots

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