



## Wind Turbine Installation Ship

### General Information:

The vessel is a Wind Turbine Installation Vessel designed for Blue Ocean Ships, Denmark. The vessel is able to jack on 60 m water depth and is fitted with a DP-2 dynamic position system. The main feature of the vessel is the 1200 t leg-mounted crane, capable of fitting 500 t heavy nacelles on the top of turbine towers 120 m above the sea. The features include a moon pool and a below-deck garage for a ROV. The heavy-duty open deck has room for fourteen 3.6 Mw wind turbines. The accommodation block holds 68 single crew cabins and all kinds of crew facilities. Contract negotiation will start late 2008.

### Main Particulars:

Length o.a.	161.20 m
Length p.p.	154.20 m
Breadth	42.00 m
Depth to Main Deck	11.10 m
Draught max.	6.00 m
Deadweight-jacking mode	8.400 t
Deadweight at max. draught	10.300 t

### Speed:

Service speed	14.00 kn
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### Propulsion:

Diesel electric	
Main generator sets	4 x 4300 kW
Harbour generator sets	2 x 1500 kW
Stern thrusters	4 x azimuth 3000 kW
Bow thrusters	3 x tunnel thrusters 2200 kW

### Miscellaneous:

Capacity of main crane's main hoist	1.200 t @ 35 m / 600 t @ 65 m
Capacity of main crane's aux. hoist	500 t @ 80 m
Capacity of aux. crane	300 t

Identification number	KEH 07086
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### Scope of work:

- Conceptual design developed for the owner
- Basic design developed for the owner, including:
  - General design and contract specification
  - Lines plan supervision of wind tunnel and towing tank testing
  - Stability and lightweight calculation
  - Structural design
  - Machinery arrangement and piping system

