



## TIV Turbine Installation Vessel

### General Information:

The vessel is designed in close co-operation between Mayflower Energy and Knud E. Hansen A/S. The vessel was built at Shanhaiguan Shipyard (SHG), Chenwei, China. It is a Turbine Installation Vessel (TIV) capable of transporting offshore wind turbines to the wind farm site from ashore by its own power. The vessel is transitioning from the afloat condition to an elevated construction mode when installing the turbine structure with its own onboard crane. These operations are carried out without assistance from other vessels.

### Main Particulars:

Length o.a.	130.00 m
Length p.p.	125.00 m
Breadth	38.00 m
Depth	8.00 m
Draught max.	5.50 m
Draught min. working condition	3.40 m

### Speed:

Service speed	10.50 kn
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### Propulsion:

Diesel electric azimuth propulsion	
Main engines	4 x diesel generators (1920 kW each)
Propulsion	4 x azimuth-thrusters (1500 kW each) 3 x bow-thrusters (700 kW each)
Endurance of the vessel	approx. 65 days

### Miscellaneous:

Installation capacity	10 x 2Mw Wind turbines
Max. crane capacity	300 t
Number of vessels built	1
Identification number	KEH 01023
IMO number	9260134

### Scope of Work:

The following work was carried out by Knud E. Hansen:

- Conceptual design developed for the owner.
- Basic design developed for the owner, including:
  - General design
  - Structural design
  - Machinery design
  - Outfitting design
  - Accommodation design

