

# TECHNICAL SPECIFICATIONS

Wind Turbine Installation Vessel (WTIV)

## Wind Osprey



**CADELER**

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### PRINCIPAL DIMENSIONS

|                       |          |
|-----------------------|----------|
| Length hull           | 161.3 m  |
| Breadth, moulded      | 49.0 m   |
| Depth to main deck    | 10.4 m   |
| Draught hull, max VDL | ~6.0 m   |
| Max. design speed     | ~13.0 kn |

### GENERAL

|             |                          |
|-------------|--------------------------|
| Delivery    | 2014                     |
| Shipbuilder | Samsung Heavy Industries |
| Flag        | Denmark                  |

### OPERATING CONDITIONS - ELEVATED

|                        |           |
|------------------------|-----------|
| Payload, jacking up to | ~11,000 t |
| Water depth            | ~8 - 60 m |

### ACCOMMODATION

|                       |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|
| Max. Capacity         | 111 People Onboard                                                                    |
| Cabins                | 111 Single Berth Cabins                                                               |
| Recreation Facilities | Cafeteria with seating for 68 personnel,<br>2 Day Rooms, Fitness Centre, 2 TV Lounges |
| Offices               | Operations Office, 2 Conference Rooms,<br>4 Multi-use Offices                         |

### CLASS

|                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------|
| DNV                                                                                                                  |
| 1A Self-elevating Crane unit Wind turbine installation unit, Clean Crane-offshore DPS(2) E0 HELDK, PMS(M, CBM) Clean |

### TANK CAPACITIES

|                       |                        |
|-----------------------|------------------------|
| Marine gas oil        | ~4,400 m <sup>3</sup>  |
| Fresh water - potable | ~1,500 m <sup>3</sup>  |
| Water ballast         | ~12,000 m <sup>3</sup> |

### LEGS & JACKING SYSTEM

|                     |                              |
|---------------------|------------------------------|
| Leg Length          | 105 m                        |
| Max. Leg below hull | 80 m                         |
| Number of legs      | 6 sets of 3-chord truss type |
| Jacking System      | High Speed Rack & Pinion     |
| Speed               | 0.1 - 2.4 m/min              |

### MAIN CRANE

|                   |                   |
|-------------------|-------------------|
| Main Hook SWL     | 1,600 t @ 40 m    |
|                   | 1,200 t @ 50 m    |
| Whip Hook SWL     | 425 t @ 92 m      |
| Utility Hoist SWL | 15 t (man-riding) |

### AUXILIARY CRANES

|                          |                          |
|--------------------------|--------------------------|
| Aux Crane 1 – main winch | 35 t @ 30 m (man-riding) |
| Aux Crane 1 – aux winch  | 10 t @ 41 m              |
| Aux Crane 2              | 25 t @ 45 m (deck)       |

### THRUSTERS

|                                  |            |
|----------------------------------|------------|
| Azipod Stern Thruster            | 4 x 3.4 MW |
| Bow Retractable Azimuth Thruster | 2 x 2.2 MW |
| Bow Tunnel Thruster              | 2 x 2.2 MW |

### DYNAMIC POSITIONING SYSTEM

|      |     |
|------|-----|
| Type | DP2 |
|------|-----|

### CARGO AREA

|                |                      |
|----------------|----------------------|
| Main Deck Area | 4,300 m <sup>2</sup> |
| Deck Loading   | 15 t /m <sup>2</sup> |

### HELICOPTER LANDING DECK

|            |        |
|------------|--------|
| D-value    | 22 m   |
| Max Weight | 12.8 t |