

# Normand Seven

PIPELAY VESSEL



The Normand Seven is a state-of-the-art subsea pipelay vessel fitted with an advanced flexible pipelay system capable of operating in water depths of up to 2,000 m with a top tension capacity of 300 t.

- Length 130 m
- Breadth 28 m
- Cargo Deck Area 2,000 m<sup>2</sup>
- Active heave compensated 250 t capacity offshore Crane
- 4 x Auxiliary cranes
- Up to ten storage reels for flexible pipe on deck
- 2 x Workclass ROVs rated to 3,000 m
- Two electrically driven stern mounted azimuth thrusters with controllable pitch propellers
- Two bow tunnel thrusters, a retractable azimuth thruster forward and one stern tunnel thruster
- Class III DP System

**General Information**

|                  |   |
|------------------|---|
| Classification   | DNV 1A1, DYNPOS AUTRO, E0, CLEAN DESIGN, COMF-V(3) C (3), HELDK-SH, SF, ICE C, CRANE; Register notations DK(+), TMON ; Compliance with NAUT OSV Class |
| Built            | Poland, Norway  |
| Flag             | Norwegian (NIS)   |
| Port of Registry | Skudeneshavn, Norway  |

**Dimensions**

|                |                   |
|----------------|-------------------|
| Length Overall | 130 m (approx)    |
| Breadth        | 28.0 m            |
| Depth          | 12.0 m            |
| Draft          | 8.8 m             |
| Draft (summer) | 8.2 m             |
| Gross Tonnage  | 14,000 t (approx) |
| Deadweight     | 10,000 t (approx) |

**Manoeuvring and Propulsion Systems**

|                        |  |
|------------------------|--|
| Main Engines/Generator | 4 x 2,760 kW<br>2 x 3,960 kW   |
| Manoeuvring            | 2 x 1,500kW tunnel thrusters fwd<br>1 x 2,000kW retractable azimuth thruster fwd |
| Propulsion             | 1 x 1,500kW tunnel thruster aft<br>2 x 5,000 kW azimuth thrusters                |

**Dynamic Positioning Systems**

|                   |  |
|-------------------|--|
| DP Classification | IMO DP Class III   |
| DP System         | Kongsberg Simrad   |
| Reference Systems | 2 x DGPS<br>1 x Fan beam<br>2 x HIPAP 500<br>1 x Radius 1000 |

**Speed / Consumptions**

|               |            |
|---------------|------------|
| Service Speed | 16.5 knots |
|---------------|------------|

**Tank Capacities (100%)**

|                          |                      |
|--------------------------|----------------------|
| Fuel Oil                 | 2,420 m <sup>3</sup> |
| Marine Diesel Oil        | 700 m <sup>3</sup>   |
| MF-HD Oil (dual purpose) | 450 m <sup>3</sup>   |
| Fresh Water (total)      | 900 m <sup>3</sup>   |
| Ballast Water            | 6,920 m <sup>3</sup> |

**Cargo Deck**

|                 |                      |
|-----------------|----------------------|
| Cargo Deck Area | 2,000 m <sup>2</sup> |
| Deck Strength   | 10 t/m <sup>2</sup>  |

**Deck Cranes**

|   |  |
|---|--|
| 1 x Heave Compensated Offshore Crane      | Capacity: 250 t @ 14 m<br>100 t @ 20 m<br>Wire Length: 2,000 m |
| 1 x Electro-hydraulic Knuckle-Boom Crane  | Capacity: 15 t @ 30 m<br>35 t @ 20 m                           |
| 2 x Electro-hydraulic Folding Cranes      | Capacity: 1.5t SWL @ 15 m                                      |
| 2 x Electro-hydraulic Knuckle-Boom Cranes | Capacity: 5.0t SWL @ 20 m                                      |
| 1 x Electro-hydraulic Telescopic Crane    | Capacity: 1.5t SWL @ 6 m                                       |

**ROV Systems**

Two Hercules workclass ROV's rated to 3,000 m with full support services, operated out of hangers on the port and starboard sides. One garaged unit (starboard side) and one free swimming unit (port side) are installed and both are operated and controlled from the ROV Control Room within the vessel.

**Pipelay System**

The vessel is fitted with a laydeck system, suitable for flexible product deployment and with a maximum tension capacity of 300 t at 500 m/hr paying in and 700 m/hr paying out. Two tensioners, each rated at 150 t, are installed, capable of handling flexible pipe from 96mm to 500mm.

Flexible product is stored on 10 reels, each with a capacity of 210 t. Reels can be 7.8 m, 8.6 m or 9.2 m diameter. The vessel can accept a 19.0 m diameter carousel (not currently fitted) in the cargo hold for flexible pipe.

There is one A&R winch of 300 t and an auxiliary which of 65 t, both fitted with 2,500 m of wire. There is also an active heave compensated winch of 20 t, fitted with 2,500 m of wire. An A-frame is installed at the stern and fitted with a 300 t winch for overboarding.

|                      |             |
|----------------------|-------------|
| <b>Accommodation</b> | 100 persons |
| Single Cabins        | 40          |
| Double Cabins        | 30          |
| Hospital             | 1           |

**Helideck**

The helideck is designed to helicopter D-value 22.2 m (Sikorsky S-92), with a design load of 12.7 t.