

# 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 2 x 3,960 kW
Manoeuvring	2 x 1,500kW tunnel thrusters fwd 1 x 2,000kW retractable azimuth thruster fwd
Propulsion	1 x 1,500kW tunnel thruster aft 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 1 x Fan beam 2 x HIPAP 500 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 100 t @ 20 m Wire Length: 2,000 m
1 x Electro-hydraulic Knuckle-Boom Crane	Capacity: 15 t @ 30 m 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.

**Accommodation**

	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.