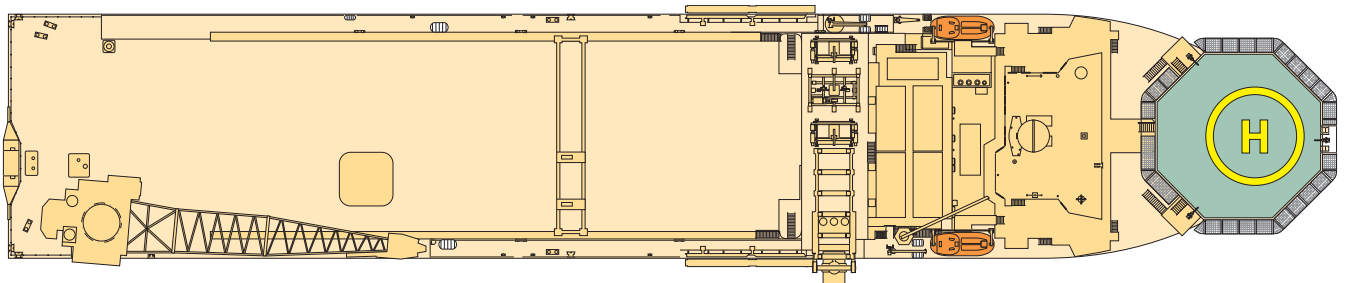
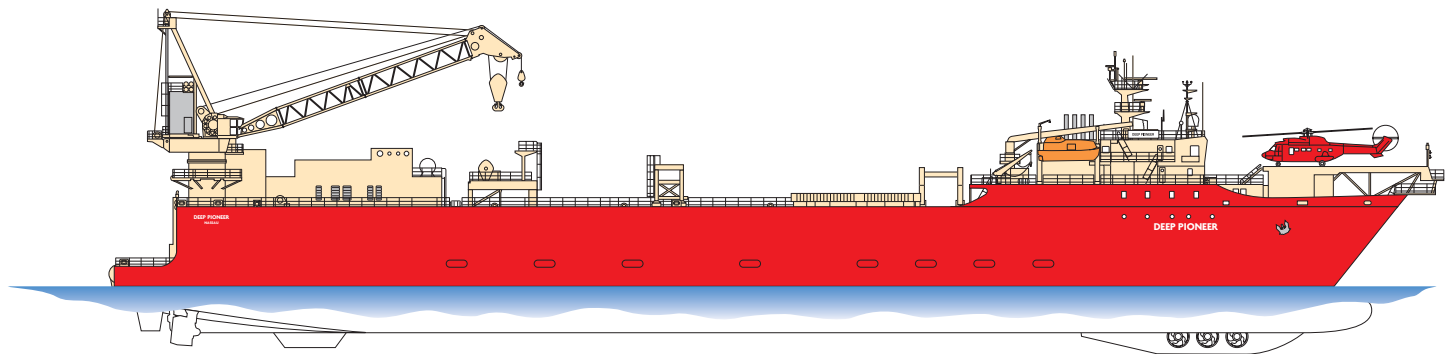


# Deep Pioneer



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The Deep Pioneer is a multipurpose deepwater support vessel that is well suited to the current and future requirements of the offshore industry worldwide.

## CAPABILITIES

Offering versatility, stability and the ability to work in deepwater locations, the Deep Pioneer provides cost-effective solutions for a variety of offshore activities.

The large aft deck enables the vessel to add modular components to suit clients needs, from a Vertical Lay System (VLS) through a moon pool, to laying mooring chains under tension over the stern roller.

### Seakeeping characteristics

The Deep Pioneer is a large vessel with motion characteristics, which allow for safe working in most weather conditions.

The high freeboard and dock walls almost eliminate the potential of water on deck, therefore protecting the crew and cargo in adverse weather conditions.

### Working decks

The main deck has an exceptionally large working area of 2,230 m<sup>2</sup> and offers a uniform loading capacity of 10 te/m<sup>2</sup>. The stern area is additionally strengthened and therefore able to support a J-Lay spread or other heavy equipment. The vessel is

equipped with two KARM Fork Chain Stopper Units, rated to 500 te and two Towing Pins rated to 240 te.

### Cranage

Fitted with a main 150 te offshore heave-compensated crane supported by a 40 te (2 x 20 te) overhead gantry crane and 3 t stores crane, the Deep Pioneer is more than adequately equipped to support the most demanding of ultra deepwater support and construction work. In harbour conditions the main crane can be uprated to 250 te to allow the loading of flexible reels.

### ROV

The vessel is fitted with one moon pool launched "heavy duty" work class Triton-MRV® and one overside A-frame launched "heavy duty" work class Triton MRV®. Both systems are heave-compensated and rated for operation to a working depth of 3,000 m in conditions up to Sea State 6.

### Dynamic positioning system

The Deep Pioneer is fitted with a fully redundant Kongsberg SDP21

## SPECIFICATIONS

### Principal dimensions

Length overall	156.75 m
Length between pp	140.03 m
Breadth moulded	29.00 m
Depth moulded (to main deck)	7.79 m
Extreme breadth (helideck)	29.40 m
Length extreme	158.60 m

### Operating draft

Maximum draft	5.36 m
	(to baseline)
Max nautical draft	7.86 m
	(incl. thruster dome)

### Displacement

18,129 te at 5.36 m draft

### Gross tonnage

11,856 t

### Flexible pipe payload

■ Carousel	2,000 te
■ Reels	3,000 te

### Cranage

#### Main lifting facility

- Kenz main pedestal crane (heave-compensated)
  - Offshore 150 te
  - Calm water/harbour 250 te
- Overhead gantry crane
  - Offshore 2 x 20 te
  - Calm water/harbour 2 x 25 te

#### Additional lifting facilities

- 2 x hydraulic anchor winches fwd 10 te
- 1 x hydraulic mooring winch SB aft 10 te
- 1 x capstan winch PS aft 10 te

### Deck space

2,230 m<sup>2</sup>

### Deck load

10-15 te/m<sup>2</sup>

### Capacities

■ Marine diesel oil	2,700 m <sup>3</sup>
■ Lube and hydraulic oil	97 m <sup>3</sup>
■ Fresh water (potable)	1,000 m <sup>3</sup>
■ Ballast water	13,000 m <sup>3</sup>

### Service air

2 x compressors 1,600 N m<sup>3</sup>/hr at 7.5 bar each

### DP system

Kongsberg SDP21

### Reference Systems

- 1 x Simrad HiPap system (Type APC-10)
- 2 x Sercel 203 DGPS
- 1 x Taut wire
- 1 x Laser fan beam

### Power plant

- 3 x Caterpillar diesel generators (2 x 1,200 kW, 1 x 456 kW)
- 3 x Caterpillar diesel generators (440 v, 60 Hz, 1,300 kW)
- 2 x Ansaldo shaft generators (680 kW)
- 1 x Ansaldo emergency generator (96 kW)

### Propulsion

- 2 x Main propellers 40 te total
- 2 x Azimuth propellers 88 te total
- 3 x Transverse tunnel thrusters 42 te total

### Bollard pull

- 120 te max
- 80 te operational in DP

### Endurance

- Max period on DP 100 days
- Max period between port calls 90 days

### Service speed

- Transit average 12 knots
- Economical 8.5 knots

### Helideck

Certified helideck for 9.3 te take off weight (Super Puma class helicopters)

### Accommodation

105 people in 58 cabins

### Lifesaving appliances

- Lifeboats 2 x 50 person
- Life rafts 4 x 20 person
- 2 x 12 person

### Flag

Marshall Islands

### Call sign

V7HK7

### Classification

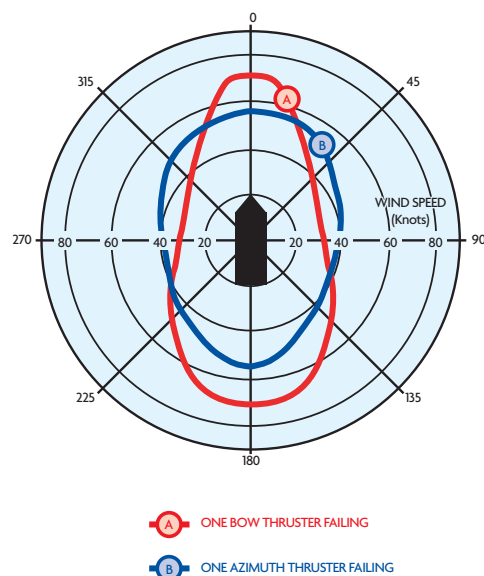
DNV 1A1 DYNPOS-AUTR, HELDK-SH CRANE, DK (+)

### Year built/builder

- 1984 Cantieri Navale Breda, Italy
- Converted 1999 by A&P Tyne, Newcastle, UK
- Accommodation/ROV upgrade June 2003



DP Capability Plot



Dynamic Positioning System with five independent reference systems, enabling her to maintain position during a variety of offshore installation activities.

### Machinery/propulsion

The Deep Pioneer is powered by four GMT engines (2 x BL 230.12P and 2 x BL 230.8P) with a total power of 4,118 kW. These main propellers are

not used in normal DP operations but can be used to provide a constant pulling tension as required. Additionally, there are two azimuthing thrusters aft, each powered by a 2,600 kW, Wartsila 8L26 engine. At the fore end, the transverse thrust for DP is provided by three tunnel thrusters directly driven by 3 x Caterpillar 3516 engines, each producing 1,566 kW power.

ROV/Deck electrical supplies are provided by three x 1,300 kW, 440 V, 60 Hz Caterpillar 3512B diesel generators.

### Accommodation

Accommodation is available for 105 people in 58 one- and two-berth, modern, air-conditioned cabins.



Technip is a world leader in the fields of project management, engineering and construction for the oil & gas industry, offering a comprehensive portfolio of innovative solutions and technologies.

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Present in 46 countries, Technip has operating centers and industrial assets (manufacturing plants, spoolbases, construction yard) on five continents, and operates its own fleet of specialized vessels for pipeline installation and subsea construction.

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