



Deep Pioneer

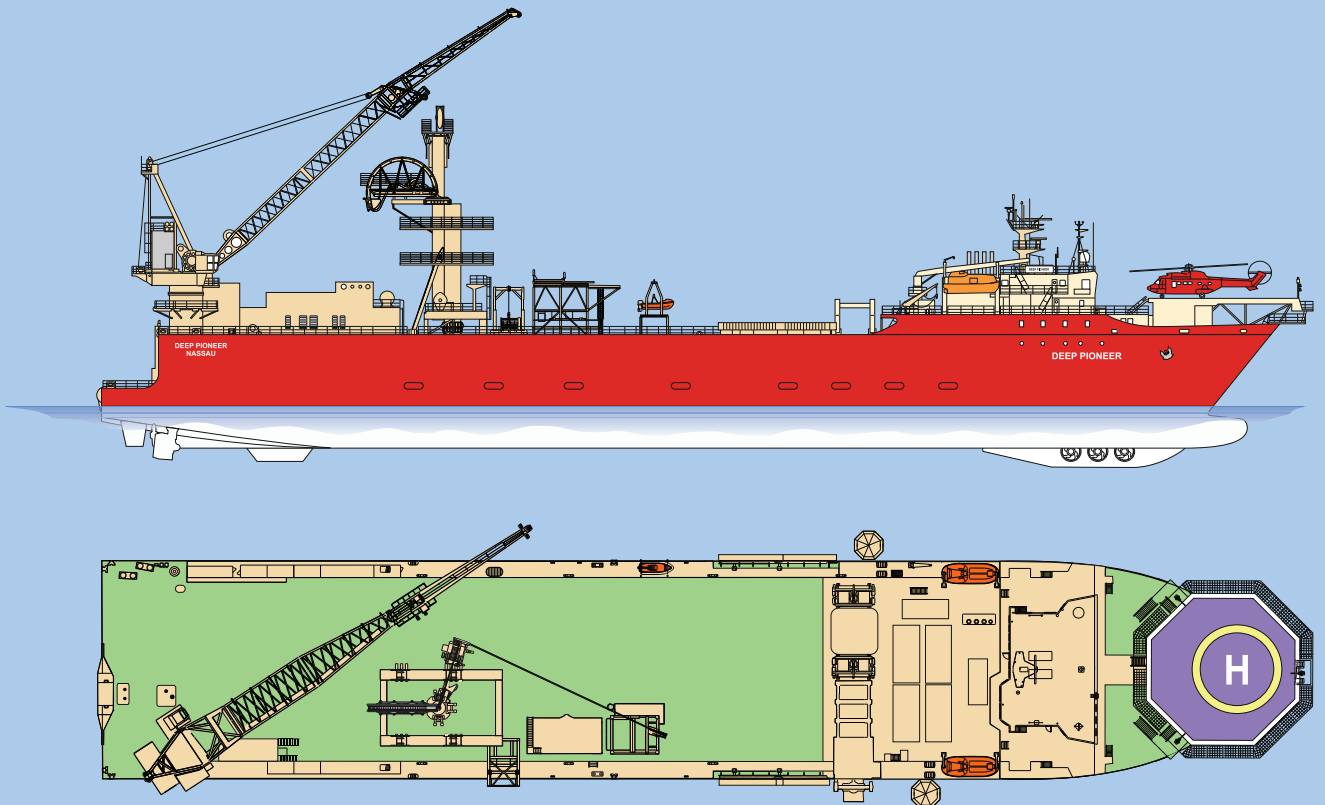
A multipurpose deepwater support vessel well suited to the requirements of the offshore industry worldwide



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take it further.

Deep Pioneer



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 Portable Pipelay System (PPS) through a moonpool, 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 m² and offers a uniform loading capacity of 10 Te/m². 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 300 Te offshore heave-compensated crane supported by a 3 Te Stores Crane and Fast Winch capable of lifting 8 Te from 1500 m water depth, 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 300 Te crane can 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 Dynamic Positioning System with six

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 (incl. thruster dome)	7.86 m

Displacement

18,129 te at 5.36 m draft

Gross tonnage

11,806 Te

Flexible pipe payload

■ Carousel	2,000 Te
■ Reels	3,000 Te

Portable Pipelay System

PPS01

■ Holding capacity	350 Te
■ Working water depth	2,500m

Craneage

Main lifting facility

- Kenz main pedestal crane (heave-compensated)

Offshore	250 Te
Calm water/harbour	300 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
- 1 x fast winch 8 Te @ 1,500 m
- 1 stores crane on stbd side forward of 3 Te SWL at 16m radius in single fall
- A stern roller (diameter 2.20 m, length 3.0 m) with conical fairings is fitted to allow anchor-handling activities. The SWL is 350 Te

Deck space

2,230 m²

Deck load

10-15 Te/m²

Capacities

- Marine diesel oil 2,700 m³
- Lube and hydraulic oil 97 m³
- Fresh water (potable) 1,000 m³
- Ballast water 13,000 m³

Service air

2 x compressors 1,600 N m³/hr at 7.5 bar each

DP system

Kongsberg SDP21

Reference Systems

- 1 x Sercel 203 DGPS
- 2 x Veripos Verify DGPS
- 1 x Laser fan beam
- 2 x HiPAP Kongsberg - APC 10

Power plant

- 3 x Caterpillar diesel generators (2 x 1,200 kW, 1 x 380 kW)
- 3 x Caterpillar diesel generators (440 v, 60 Hz, 1,300 kW)
- 1 x Ansaldo shaft generator (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 10.5 knots
- Economical 8 knots

Helideck

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

Accommodation

106 people in 65 cabins

Lifesaving Appliances

- Lifeboats 2 x 70 person
155 Immersion Suits
- Life rafts 4 x 20 person
2 x 12 person

ROV Systems

- Construction/Pipelay operations are supported by two dedicated work class TMRV 5 and TMRV 6 ROV's

Flag

Marshall Islands

Call sign

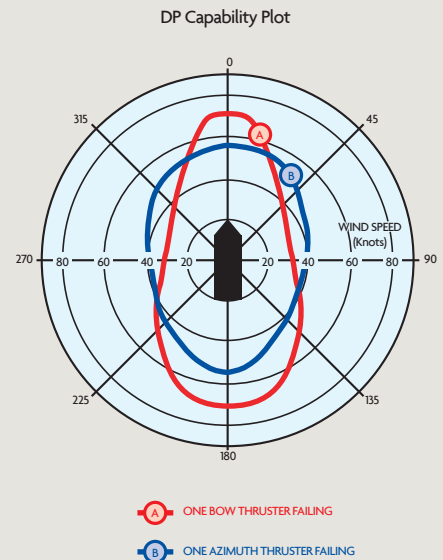
V7HK7

Classification

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

Year built/builder

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



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 8L230.12P and 2 x 8L230.8P) 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 25168 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 106 people in 65 one and two-berth, modern, air-conditioned cabins.



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