

Seven Eagle

Construction/
Flex-lay/
Diving

subsea 7



Seven Eagle is a construction, flex-lay and diving vessel for field development and construction activities.

- Length 138m x breadth 20m
- Main crane 250t
- 16-man twin-bell saturation diving system
- 90t top tension flexible lay system
- 1,200t below deck storage carousel
- Heave compensated 250t subsea A&R winch
- Accommodation for 106 persons
- 2 x work-class ROVs
- Special Purpose Ship Code 1983 Compliant

General Information

Type	Construction / Flex-lay
Classification	+1A1 DSV III SF DYNPOS (AUTR) EO
Flag	Liberian
Year Built	1997

Principal Dimensions

Length Overall (m)	138.44m
Breadth (m)	19.50m
Operating Draft (m)	6.50m
Gross Tonnage (t)	9556t
Transit Speed (knots)	12.5 knots (approx)

DP System

DP Classification	Class II (Det Norske Veritas registry) +1A1 DSV III SF DYNPOS (AUTR) EO
DP System	Kongsberg Simrad SDP21
Reference Systems	2 x Veripos DGPS, 2 x HiPAP 500 1 x Radius System, 1 x taut wire 1 x fanbeam

Power and Propulsion

Main Engines	
Number	4
Type	2430kW Wartsila Vasa type 6R32E four-stroke medium speed engines (720 rpm)
Power (hp)	11200kW
Generators	
Number	4
Type	Motors Alsthom, type S 3 HX 71040 / 3220kVA /6000V
Power (kW)	11230kW
Thrusters	
Aft Azimuth	3 x LIPS 2000kW
Fwd Side/Tunnel	3 x LIPS 1500kW

Speed / Consumptions

DP	22m ³ /day - Sea state 4
Full Transit Speed	13.5 knots (44m ³ /day) - Sea state 4
Normal Transit Speed	12.0 knots (35m ³ /day) - Sea state 4
Economical Speed	10.0 knots (27m ³ /day) - Sea state 4
In Port Consumption	5m ³ /day

Main Deck

Clear Deck Area (m ²)	Forward - 975m ² , aft - 398m ²
Deck Strength (t/m ²)	Forward - 5T/m ² , aft - 10t/m ²

Capacities

Fuel Oil (m ³)	1644m ³
Fresh Water (m ³)	570m ³
Ballast Water (m ³)	2448m ³

Accommodation

Berths (No.)	106
Cabins (No.)	59

Helideck

The helideck is certified to Civil Aviation Administration, CAA, rules for Super Puma. Kongsberg Maritime HMS 100 is fitted.

D-value	22.2m
Max Weight (t)	12.0t

ROV Systems

ROVs (No. and type)	2 x SCV3000 work-class
Operating Depth Rating (m)	3000m
Manipulators	5 & 7 functions

Cranes

Kenz Main Crane (Port side main deck)	
Main hoist - Subsea & Harbour Lift	250t
Whip hoist - Harbour Lift	20t
	2t man-riding rating
Main Hoist Operating Water	
Depth (m)	370m (single fall)
Hydralift Auxiliary Crane (Starboard side forward)	
Main hoist - Subsea and Harbour Lift	155t
Whip hoist - Subsea and Harbour Lift	8t
Main Hoist Operating Water	235m (single fall)
Depth (m)	
Hydralift Deck Handling Crane (movable)	5t
Knuckle boom Handling Crane in Hold 3	5.9t

Pipelaying System

Flexible Lay:	Tiltable Lay Tower (max 12°) with a rotating radius controller system on top (carousel or back deck position)
Max Tension (t)	90t
Tensioners (No. and type)	1 x IMECA 4 tracks
Tensioner Length (m)	6m
Min/Max product dia. (mm)	50mm / 600mm
Carousel (No.)	1
Carousel Capacity (t)	1200t
Reels	Back deck can accommodate up to 3 installation reels (dolly base or hub drive, none permanently on board) - as per stability checks and deck layout
A&R Winch Capacity (t)	250t double fall AHC capable
Operating Water Depth (m)	3000m (dependent on AHC)
Auxiliary Deep Water Winch	10t at surface / 4t at 2000m water depth

Dive System

Men (No.)	16
Bells (No.)	1 x aft, 1 x forward (3 men bells)
Depth Rating (m)	230m
Dive System Comments	Integrated saturation dive system with deployment through 2 moonpools. In addition to built-in gas storage capacity, a total of 78 additional 64 cylinder quads can be stored on board.

Chain Handling System

Chain Locker Description	Hold 4 has 6 segregated compartments accessible from hatch on the main deck. Chain gypsy needed to load and install chain from Hold 4.
Capacity (t)	1200t
Capacity (m ³)	600m ³
Shark jaws integrated forward of stern roller	