

Seven Falcon

Diving

subsea 7



The *Seven Falcon* is one of the most advanced diving vessels in the world, featuring a 24-man twin bell saturation diving system operationally rated to 300m, and a heave compensated 250t crane.

- Length 120m x breadth 23.45m
- 24-man twin bell saturation diving system
- Heave compensated 250t crane
- Accommodation for 120 persons
- Ice-class hull, high transit speed
- Deck area 1,050m²

General Information

Type	Diving
Classification	1A1 ICE-C SF COMF-V(3) HELDK-SH DSV-SURFACE and SAT E0 DYNPOS-AUTRO NAUT-AW CLEAN DESIGN DK(+)
Flag	Isle of Man
Year Built	2010

Principal Dimensions

Length Overall (m)	120m
Breadth (m)	23.45m
Depth Main Deck (m)	10.04m
Summer Max Draft (m)	8,25
Normal Operating Draft (m)	7,50
Gross Tonnage (t)	11,071t
Transit Speed (knots)	16 knots

DP System

DP Classification	Kongsberg K-POS DP 21 with back-up K-POS DP II NMD DP Class 3 (ERN 99.99.99) DP HIL certification
Reference System	2 x taut wires, 2 x DGPS/Seapath 200, 2 x HiPAP 500, 1 x fanbeam

Power and Propulsion

Main Engines	
Number	8
Type	Caterpillar 3516C HD
Power (kW)	2,188kW
Generators	
Number	8
Type	SES MJR560
Power (kW)	2,100kW
Propulsion	
Number	2
Type	AZP 120
Power (kW)	3,500kW
Thrusters	
Number	3
Type	Rolls Royce UL-2001 FP (retractable azimuth)
Power (kW)	1,500kW
Location	1 x aft , 2 x forward
Number	
Number	2
Type	Rolls Royce TT-2400 (tunnel)
Power (kW)	1,500kW
Location	Forward

Main Deck

Clear Deck Area (m ²)	1,050m ²
Deck Strength (t/m ²)	10t/m ²

Accommodation

Berths (No.)	120 + 24 in SAT
Cabins (No.)	28 x single cabins 46 x double cabins

Helideck

Type	Suitable for S-92, c/w environmental, meteorological and vessel data system
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Cranes

Main Crane Capacity (t)	250t @ 10m (double fall) 200t @ 15m (single fall)
Manufacturer	MacGregor
Operating Water Depth (m)	2,000m (single fall)
AHC	Yes
Location	Main deck, port side
Main Crane Comments	20t auxiliary hoist, certified for man-riding. 'Red Book' compliant
Auxiliary Crane 1 Capacity (t) 40t	
Location	C-deck, port side
Auxiliary Crane Comments	5t auxiliary hoist, certified for man-riding 'Red Book' compliant
Auxiliary Crane 2 Capacity (t) 10t	
Location	C-deck, starboard
Auxiliary Crane Comments	Active Heave Compensated (AHC)

Moonpool

Moonpool (No.)	2 x diving
Dimensions (m)	4.8m x 4.8m

Dive System

Men (No.)	24
Bells (No.)	2
Dive System Comments	Fully computerised with dual redundancy dive control system. Individual monitoring of divers. Heave compensated bell handling system. 2 x 24 man hyperbaric lifeboats. Fully certified for Norwegian operations.

ROV System

ROVs (No. and type)	1 x WROV Herc 31 1 x OBSROV Lynx 1101
Operating Depth Rating (m)	WROV 3,000m OBSROV 1,500m
ROV Comments	WROV installed in large ROV hangar on starboard side. Tether 850m Max (650m Standard). OBSROV installed on a mezzanine deck on starboard side just aft of accommodation. Length of TMS Tether 220m Max (190m Standard).