



HARKAND



SWORDFISH **DP2, MULTI-PURPOSE, SATURATION** **DIVING, ROV AND SURVEY VESSEL WITH** **AN SPHL AND DEDICATED HRF**

DIMENSIONS

Length 103.7 m & Beam 19.7 m

MAIN DECK AREA

1,150 m² with 10 Te / m²

MAIN CRANE

150 Te active heave compensated
70 Te active heave compensated

DIVING

Integrated 15-Person SAT system, 300 m rated
Self-propelled hyperbaric lifeboat (18-man capacity)
Surface dive system
Dedicated, self contained hyperbaric rescue facility

ROV

Triton XLS heavy duty work class ROV
Capacity for a second workclass ROV

SURVEY

Full high specification survey spread

TECHNICAL SPECIFICATIONS

VESSEL IDENTIFICATION, MAIN PARTICULARS

The Swordfish is specifically designed for saturation diving, ROV, survey and crane operations in adverse weather conditions. This modern design ensures economical fuel consumption, maneuverability, stability and station keeping. The Swordfish is ideally suited for offshore installations of subsea hardware, complex deepwater Inspection, Repair and Maintenance (IRM), and well intervention services.

Built	2007
Flag	Republic of Marshall Islands
LOA	103.7 m
Breadth	19.7 m
Draft	6.2 m
Gross Tonnage	4,800 Te
Accommodation	100 persons
Class	ABS - A1, Ice Class CO, AMS, ACCU, DPS-2, ES

DECK EQUIPMENT

- 150 Te active heave compensated crane with 3,000 m wire
- 70 Te active heave compensated crane with 2,050 m wire
- 2 x auxiliary cranes, boat deck, 5 Te @ 15 m
- 2 x capstan/mooring winches aft: 10 Te each
- 2 x Tuggerwinch 15 Te
- 4 x cargo securing winches

DECK

Clear Area	1,150 m ²
Strength	10 Te/m ² Frame #1 - #84 5 Te/m ² Frame #84- #109
Moon pool	7.2 m x 7.2 m (SAT Dive Deployment)

ROV

Manufacturer	Forum (formerly Perry)
Type	XLS
Quantity	1*
Horse Power	150 hp
Vertical Thrust	900 Kgf
Depth Rating	3,000 m
Payload Capacity	200 Kg
Excursion	350 m
Deployment	Starboard Side LARS

*Capacity for second workclass ROV

DIVING SYSTEMS

- IMCA compliant, ABS classed A1 dive dystem
- Upgraded in 2015
- Integrated 15-person SAT System, 300 m rated depth
- 18-person self-propelled hyperbaric lifeboat with a dedicated, hyperbaric rescue facility
- 3-man diving Bell
- 400,000 ft³ diving gas storage
- Divers and system gas reclaim
- Located midship, bell deployed thru moon pool
- Surface dive system

POSITION SYSTEMS

DP Type	Kongsberg
DP Class	SDP21 KPOS DP2
Acoustics	Kongsberg HiPAP 500
DGPS	700
Other	1x Tautwire System

MAIN PROPULSION SYSTEM

Diesel electric propulsion plant	
2 x azimuth thrusters for main propulsion - 2.2 kW output each	
MAX Speed	16 kts
Cruise Speed	10.5 kts

APPROX. FUEL CONSUMPTION

Transit (10.5kn)	18 m ³ /day
DP	9 m ³ /day
In Port	3 m ³ /day

TUNNEL THRUSTERS / AZIMUTHS

2 x electric driven tunnel thrusters in bow - each 1,050 kW
1 x electric driven azimuth thruster in bow - 800 kW

POWER GENERATING PLANT

4 x main generators - each 2,100 kW
1 x auxiliary generators - 910 kW
1 x emergency generator - 160 kW

HELIDECK

Type	Sikorsky S-92 rated
Max Load	12.8 Te

SURVEY

Harkand provides innovative technological solutions, highly skilled, competent offshore personnel led by an experienced onshore management team. The vessel is permanently mobilised with dual DGPS, dual online navigation, online sensor acquisition, offline processing and online reporting packages. Advanced survey equipment and software can be installed then calibrated onboard for any project specific work scope.

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