

# Fugro Saltire

## Deep Water ROV Intervention, Light Construction & Survey Vessel



Delivered in 2008, the *Fugro Saltire* is Fugro's latest, purpose built ROV support vessel, that has been specifically designed to address the latest demands of the deep water Remote Intervention, Construction & Survey markets.

The DNV classified vessel is equipped with a 150T knuckle-boom crane with active heave compensation, capable of operating to 3000m, plus a separate 10T auxiliary subsea crane.

With two Work Class ROV systems located within the central hanger area, the full extent of the 1,000m<sup>2</sup> main deck can be made available for the exclusive use of the Client. A working moonpool measuring 7.2 x 7.2m is situated immediately aft of the hanger area overlooked by a large Deck Operations Room.

The full reach of the 46m x 22m timbered main deck is designed for deck loading of 10T/m<sup>2</sup> and offers our Clients the flexibility to both carry extensive deck cargos and to provide a platform for the deployment of substantial subsea loads using the 150T main crane.

The DP2 vessel features a Simrad SDP21 system interfaced to the Fugro Seastar DGPS, two Simrad HiPAP500 USBL acoustic systems, Seapath 200 and a Fanbeam laser system.

Dual Fugro *FCV3000* 150HP work-class ROV systems are deployed from the integrated ROV hangar via hydraulically operated doors on either side of the vessel, and purpose-built Launch & Recovery Systems (LARS) designed to minimise the effects of vessel motion. Work Class ROV deployment and recovery is controlled from a central area in the hangar.

This exceptionally well-appointed vessel has been designed to provide optimum working conditions. One of its key features is the co-location of all main internal work-spaces within one large central control room that houses well set-out Pilot control consoles for the two Work Class ROV systems an Inspection Class ROV system and an on-line survey/navigation/observation console. This area also provides ample space for observation desks for clients and/or subsea ROT operators. Four offices and off-line processing are located adjacent to the main control room.

With additional dedicated 800/500kVA electrical power, fuel, water and air supply points around the deck, the facilities are in place to support a wide variety of Client's construction, intervention, maintenance and installation support spreads.

The ample under-deck capacity allows future capacity upgrades such as additional tanks for pipeline commissioning fluids and chemicals.

- Angola
- Argentina
- Australia
- Azerbaijan
- Belgium
- Bermuda
- Brazil
- Brunel
- Canada
- China
- Congo
- Denmark
- Egypt
- France
- Gabon
- Germany
- Ghana
- Hong Kong
- India
- Indonesia
- Ireland
- Italy
- Japan
- Kazakhstan
- Kuwait
- Lebanon
- Luxembourg
- Malaysia
- Mexico
- Netherlands
- Netherlands Antilles
- Norway
- Nigeria
- Oman
- Pakistan
- Philippines
- Poland
- Qatar
- Russia
- Saudi Arabia
- Singapore
- South Africa
- Spain
- Switzerland
- Thailand
- Trinidad & Tobago
- Turkmenistan
- United Arab Emirates
- United Kingdom
- United States
- Venezuela
- Vietnam

# Fugro Saltire

## ROV Survey and Construction Support Vessel

NAME	M/V Fugro Saltire	POR	Bergen, Norway
CLASSIFICATION	DNV +1A1, E0, Dynpos AUTR, Comfort V(3) - C(3), Clean, HELDK-SH, Dk(+), SF, ICE C	GRT / NRT	9603 T / 2,881T
OWNER	E. Forland AS	CALL SIGN	LHOD
BUILDER	BMV A/S, Delivery May 2008	IMO	9377016
FLAG	Norway	MMSI	258401000

<p><b>Dimensions</b></p> <p>LOA / LBP 111.00m; LBP 100.20m          Breadth 24.0 m (Moulded)          Draft 7.50m (Max) ; 6m (50% DW)          Tonnage Gross: 9603, Net: 2881          Freeboard 2.10m (Min) ; 3.5m (50% DW)</p> <p><b>Machinery</b></p> <p>Main Power Plant 4 x Rolls Royce Bergen Diesel each driving Marelli Generators          Total Power 15,750 kW / 16.800 kVA, 60Hz          Auxillary 1 x Mitsubishi/Stamford , 685kVA          Main Propulsion Diesel-Electric :          2 x ducted CPP main propellers with variable frequency electric drive, 4200kW each          Bow thrusters 2 x Tunnel; Super Silent, Variable Pitch, 2000kW electric AC drive          1 x Retractable Azimuth, variable pitch, 1400kW electric AC drive          Stern thrusters 2 x Tunnel Pitch controlled 1400kW electric AC drive          Speed Service 16 knots          Endurance 60-90 days</p> <p><b>Deck &amp; Machinery</b></p> <p>Deck area 1030m<sup>2</sup>          Free timbered area 960m          Deck loading 10T/m<sup>2</sup>          Deck crane Hydramarine 150T AHC, Single Fall 150Te @ 10m ; 75Te @ 20m ; 25Te@35m          Main Lift Wire: 3000m x Ø70mm, Whip Line (Aux Winch) : 10Te @ 36m ; Hook Travel : 450m          Auxiliary crane Hydramarine 10Te @ 15m ; Hook Travel : 1000m          Capstans 4 x Mooring capstans (2 aft)          Moonpool 7.2m x 7.2m located on aft deck</p>	<p><b>Helideck</b></p> <p>Type Sikorsky S61          D-Value : 24 (24m Diameter);          Max. landing load : 12,800kg;</p> <p><b>Capacities</b></p> <p>Fresh water 472m<sup>3</sup>          Water maker 2 x WF generators, 25T/day each          Ballast water 2,291m<sup>3</sup>          Marine Diesel oil 2,943m<sup>3</sup>          Lube oil 185,7m<sup>3</sup>          Chemical Tanks Space available for tank capacity up to 250m<sup>3</sup></p> <p><b>Control and Navigation</b></p> <p>DP system <i>Simrad</i> SDP21          DP references Dual DGPS;          2 x HiPAP500  <i>Fanbeam</i>  <i>Seapath</i> 200          Gyrocompass <i>3x SGB Meridian</i> Gyrocompass          VRU 2 x Kongsberg MRU</p> <p>Radars 1 x 10cm ARPA radar          1 x 3cm ARPA radar</p> <p>Echosounder 1 x <i>Kongsberg Simrad</i> EA 600          1 x <i>Furuno</i> FE 700          2 x <i>Furuno GP150</i>          DGPS <i>Fugro Seastar</i> DGPS receiver          Speed log 1 x <i>Furuno</i> DS80</p> <p><b>Communications</b></p> <p>Satellite Dual KU-Band / C-Band systems          128Mbit/s, Max Capacity 1Mbit/s          MF/HF <i>Furuno</i> FS 2570          VHF <i>Furuno</i> FM 8800S / FM 2721</p> <p><b>Safety</b></p> <p>Lifeboats 2 x Eide Marine Tech A/S          6 X 40per          Liferrafts 1 x Strome FRC 750, Waterjet          MOB boat 212HP</p>	<p><b>Accommodation</b></p> <p>Total complement 105 persons          Cabins 31 x Single ; 37 x Double          Hospital Medical treatment room &amp; rest room          Offices Online survey room - 12m x 12m          Offline survey room - 7m x 12m          3 x Client office – 23m<sup>2</sup>, 15m<sup>2</sup>, 25 m<sup>2</sup>          Conference room - 37m<sup>2</sup>          Auditorium/ Cinema – 54 seats          Recreation 2x Gymnasium / 2 x Sauna          2 x Lounge areas, Internet Cafe</p> <p><b>WROV Systems</b></p> <p>Type &amp; Quantity 2 x FCV3000 150HP ROV systems          Deployment Locations 1 x Port side, 1 x Starboard side,          viadoors in enclosed Hangar Area          TMS 9.3 Te SWL, 600m tether capacity          System Depth rating 3,000msw          LARS 2 x Hydramarine, SS6 rated (DF=3)          Telescoping A-frame, 15T SWL          Lift Umbilical winch 2 x Active Heave Comp. ( 2.0 m/s )          High Speed (0-100m/min) : 15T LP          4000m capacity, 3500m fitted          Vehicle Dimensions 3m x 1.7m x 1.7m          Vehicle Power 150HP          Hydraulics Propulsion Circuit : 220lpm @ 225bar          Tooling Circuit : 70lpm @ 210bar          Vehicle Payload 400kg weight exchange inc lower skid          Tooling Skid Capacity Max 3,000kg @ DAF=3.0          Manipulators 2 x <i>Schilling Titan</i> 4 master-slave          2 x <i>Schilling Rigmaster</i> Grabber          Cameras 8 x Video channels per system          Sonar <i>Kongsberg</i> 675kHz Digital head          Heading/Altitude <i>Ixsea OCTANS</i> 3          Depth <i>Digiquartz</i> 8CB4000-I</p> <p><b>OBSROV Systems</b></p> <p>Type &amp; Quantity 1 x <i>Seaeye Lynx</i> (optional)          System Depth rating 1500msw          TMS <i>Seaeye Type 8</i> Side Entry, extendible          height , 200m Tether capacity          LARS Integrated Crane, Winch &amp; HPU on          4.8m x 2.8m skid, 3m outreach @          DAF= 3.0</p>
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