

# EDDA FREYA

## VESSEL SPECIFICATION SHEET



Photo: Tor-Erik Kvalsvik

### OFFSHORE CONSTRUCTION VESSEL

The Edda Freya is a state of the art construction vessel suited for operations worldwide and utilising an environmentally friendly, fuel-saving diesel-electric hybrid propulsion system. Edda Freya was designed with a focus on cable laying operations, offshore construction and inspection, and maintenance and repair (IMR) operations, and also with a focus on redundancy, excellent maneuverability and station keeping.

The vessel has 2300 m<sup>2</sup> of deck space and is equipped with a 400 T AHC offshore crane that can lift 600 T in double-fall mode, a 70 T AHC offshore crane which is bolted, and can easily be moved to secondary position, a Huisman 150 T dual tensioner VLS located over the main moonpool, a system for quick mobilisation of reels and reel drive systems, an integrated skidding system for modules, two moonpool launch and recovery system for WROVs and a 3000 T carousel is located below deck.

In addition to the hybrid battery system Edda Freya's environmentally friendly credentials are enhanced by the adoption of Siemens' BlueDrive PlusC concept, which was implemented by Siemens in co-operation with Østensjø Rederi.

### KEY VESSEL FEATURES

By using variable rotational speed with optimal operation of the diesel generators in combination with the battery system, the system will significantly reduce fuel consumption and the emissions of nitrogen oxides (NOx) and greenhouse gases (CO<sub>2</sub> and methane). The use of selective catalytic reduction systems further reduces emissions.

- LENGTH 149,8 M
- BEAM 27 M
- DP3
- 600 T AHC OFFSHORE CRANE
- 70 T AHC OFFSHORE CRANE
- 150 T HUISMAN VLS
- 3000 T CAROUSEL BELOW DECK
- 2 X 220 HP KYSTDESIGN WROVS MOONPOOL HANDLING, L&R 6-7MHS
- SIEMENS BLUEDRIVE PLUSC POWER MANAGEMENT REDUCING YEARLY FUEL CONSUMPTION WITH 15 - 20%
- ACCOMMODATION FOR 140 PERSONS
- 2300 M<sup>2</sup> DECK AREA
- SCR CATALYTIC REACTORS FOR REDUCED NOX EMISSION TO AIR

## CLASSIFICATION

	“+IA1, SF, EQ, DYNPOS AUTRO, COMF C(3), Comf V(3), Clean Design, BIS, ICE 1C, DK(+), TMON, CRANE, NAUT OSV(A)-ICS, HELDSK-SH (CAA-N) ERN 99.99.99.99
<b>DYNAMIC POSITIONING</b>	Kongsberg Maritime DP system
<b>REFERENCE SYSTEMS</b>	2 x DPS 232, 2 x Seapath 330, 1 x CyScan system, 1 x RADIUS 1000 2 x KONGSBERG Redundant HiPAP® 502 system
<b>MOTION REFERENCE UNITS</b>	3 x Gyro, 3 x Motion Reference Unit, 3 x Wind Sensors

## DECK EQUIPMENT

<b>OFFSHORE CRANE</b>	Main Crane NOV Knuckle Boom Crane Single Fall lift mode: 400 t @ 20m AHC, 150 t @ 40 m AHC 2-Fall Lift Mode: 600 t @ 14 m AHC Special Lift Mode: 400 t @ 18 m AHC Water Depth Main Crane Single fall: 3000 m Main Offshore Crane Aux hook: 25 t @ 43 m AHC
	Auxiliary Crane NOV Knuckle Boom Crane Single Fall lift mode: 70 t @ 21m AHC, 14 t @ 45 m AHC Water Depth Auxiliary Crane: 2000 m Auxiliary Crane Aux Hook 10 t @ 50 m
<b>MOONPOOL</b>	7,2 x 7,2 m

## FRC AND LIFEBOATS

	2 x Covered Lifeboats with capacity 130 persons Life boats and rafts 100% each side MOB Boats, 1 x Weedo 700 FRC 1 x Weedo 17 RB
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## HELIDECK

	26,1 m - 16 t
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## ROV

<b>SURVEY</b>	N/A
<b>WROV</b>	2 x 220 Hp Kystdesign Constructor
<b>OBS-ROV</b>	N/A

## DIMENSIONS

<b>LENGTH (LOA)</b>	149,80 m
<b>BEAM</b>	27,00 m
<b>DRAFT, MIN/DESIGN/MAX</b>	6,1 m / 7,2 m / 8,5 m
<b>DEAD WEIGHT</b>	10000 t
<b>GROSS TONNAGE</b>	17078 GT

## DECK CAPACITIES

<b>FREE DECK AREA</b>	2300 m²
<b>LENGTH</b>	93 m
<b>WIDTH</b>	27 m

## PROPULSION

<b>GENERATOR CAPACITY</b>	17096 kW
<b>THRUSTERS</b>	2 x 1500 kW Brunnvoll Retractable Azimuth Thruster 4 x 2050 kW Brunnvoll Tunnel Thruster

## ACCOMMODATION

	64 single cabins
	38 double cabins
	2 conference rooms
	1 client offices
	11 offices

## TANK CAPACITIES

<b>DRILL / BALLAST WATER</b>	6085 m³
<b>FRESH WATER</b>	1017 m³
<b>FUEL</b>	2250 m³

## PIPE LAYING CAPABILITY

<b>VLS</b>	150 t Huisman VLS 2 x 75 t 4-track Tensioners Electric Driven Retractable Tensioners 185 t Below Deck A&R winch Service Crane 18 t @ 8 m 2 x 10 t Hoisting Beams 2 x 5 t Moonpool Tugger Winches 2 x 2 t Product Handling Winches
<b>CAROUSEL</b>	3000 t IMECA Below Deck Carousel 6m Ø Core, 24, 3m Ø Overall 6 m Height Spooling arm 8 t SWL Modular partitioning