

EDDA FREYA

VESSEL SPECIFICATION SHEET



OFFSHORE CONSTRUCTION VESSEL

The Edda Freya is a state of the art construction vessel 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 IMR operations, and also with a focus on redundancy, excellent maneuverability and station keeping.

In addition to the hybrid battery system, Edda Freya's environmentally friendly credentials are enhanced by the adoption of Siemens' BlueDrive PlusC concept. The system significantly reduces fuel consumption, the emissions of nitrogen oxides (NOx) and greenhouse gases (CO₂ and methane). The use of selective catalytic reduction systems further reduces emissions.

The vessel has 2300 m² of deck space and is equipped with a 400 Te AHC offshore crane (600 Te double fall), a 70 Te AHC auxiliary offshore crane, a fully integrated Huisman 150 Te dual tensioner VLS, a 3000 Te carousel located below deck, and two moonpool launch and recovery systems for WROVs.

KEY VESSEL FEATURES

- DP3 BATTERY HYBRID VESSEL
- 2 300 m² DECK AREA
- 400/600 Te AHC OFFSHORE CRANE
- 70 Te AHC OFFSHORE CRANE
- 150 Te VLS
- 3 000 Te CAROUSEL BELOW DECK
- 2 X WROVS IN HANGAR
- 2 X MOONPOOL FOR L&R OF WROV
- SIEMENS BLUEDRIVE PLUSC POWER MANAGEMENT REDUCING YEARLY FUEL CONSUMPTION WITH 15 - 20%
- ACCOMMODATION FOR 140 PERSONS
- HELIDECK

CLASSIFICATION

DNV +1A1, BIS, CLEAN(DESIGN)
COMF(C-3, V-3), CRANE DK(+),
DYNPOS(AUTRO), E0,
HELDK(S, H, CAA-N), ICE(IC),
NAUT(ICS, OSV(A)), SF, TMON
DP3 - ERN 99.99.99.95

FLAG NOR

POSITIONING

DYNAMIC POSITIONING Kongsberg Maritime DP system

REFERENCE SYSTEMS 2 x DPS 232, 2 x Seapath 330
1 x CyScan system, 1 x RADIUS 1 000
2 x Kongsberg redundant HiPAP®
502 system

MOTION REFERENCE UNITS 3 x Gyro
3 x Motion reference unit
3 x Wind sensors

DECK EQUIPMENT

OFFSHORE MAIN CRANE 400 Te AHC on single fall lift mode
600 Te AHC on double fall lift mode:
400 Te AHC on special lift mode
Aux winch 25 Te AHC
Personnel lift SWL 5 Te

AUX. CRANE Single fall liftmode: 70 Te AHC
Aux winch 10 Te AHC
Personnel lift SWL 1.5 Te

FRC AND LIFEBOATS

LIFE BOATS/RAFTS 2 x 108 persons Lifeboats capacity
2 x 35 persons Liferrafts capacity
Davit launched

RESCUE/MOB BOAT 1 x Weedo 700 FRC
1 x Weedo 17 RB

HELIDECK

Helideck designed for
helicopter load of 16 Te
D-value - 22.8
Helideck monitoring system

ROV

WROV 2 x 220 hp Kystdesign Constructor in
hangar
Launch/recovery in 6.3 m x 4.2 m
moonpools

CONSUMPTION

ECONOMY SPEED 9.5 KTS 26 - 27 m³/day

DP OPERATIONS 14 - 15 m³/day

IN PORT 6 - 7 m³/day

DIMENSIONS

LENGTH (LOA) 149.8 m

BEAM 27.0 m

DRAFT, MIN/DESIGN/MAX 6.1 m / 7.2 m / 8.5 m

DEAD WEIGHT 10 000 Te

GROSS TONNAGE 17 078 GT

DECK CAPACITIES

FREE DECK AREA 2 300 m²

DECK CARGO CAPACITY 15 Te/m² (aft of main crane)
10 Te/m² (forward of main crane)

PROPULSION

MAIN ENGINES 2 x 4 400 kW MAK 8 M32 E
2 x 4 400 kW MAK 8 M32 E
2 x 1 140 kW MAK 6 M20 C

THRUSTERS 2 x 1 500 kW Brunvoll retractable
azimuth thruster,
4 x 2 050 kW Brunvoll tunnel thruster

ELECTRICAL POWER 4 x 135 kW Battery packs

ACCOMMODATION

140 PAX
64 single cabins
38 double cabins
2 conference rooms
18 offices (incl. 2 client offices)

TANK CAPACITIES

DRILL / BALLAST WATER 6 085 m³

FRESH WATER 1 017 m³

FUEL 2 250 m³

PIPE LAYING CAPABILITY

VLS 150 Te Huisman VLS
2 x 75 Te 4-track tensioners
Electric Driven retractable tensioners
185 Te below deck A&R winch
Service crane 18 Te @ 8 m
2 x 10 Te Hoisting beams
2 x 5 Te Moonpool tugger winches
2 x 2 Te Product handling winches
7.2 x 7.2 m moonpool

CAROUSEL 3 000 Te IMECA below deck carousel
6 m Ø core, 24.3 m Ø overall,
6 m height