

INITIAL ESTIMATION

50+METERS SEMI DISPLACEMENT MOTORYACHT

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MENGI YAY YACHTS

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Yacht Specification 50+ Meters Motor Yacht

Design & Engineering

Type.....: Semi Displacement Motor Yacht
 Design & Styling.....: VYD Studio, Trieste Italy
 Interior Design.....: VYD Studio, Trieste Italy
 Naval Architect.....: Van Oossanen Naval Architecture
 Builder.....: Mengi Yay Yachts

Basic Particulars

Length hull overall: 50+ m
 Beam (max).....: 8.8 m
 Draught.....: 2,65 m
 Depth: 4.46 m
 Gross Tonnage.....: 499 GT
 Displacement (100%): 450 tonnes
 Hull construction.....: Steel ICE Class 1C notation
 Superstructure.....: Aluminium
 Exterior paint system: Akzo Nobel
 Classification Society & Notations : RINA Classification C+Hull o Mach Ych, Unrestricted Navigation, REG Yacht Code Compliance, DMS, Ice Class 1C, Comfort Class, Green Plus, Helicopter Landing Area Certification
 Helicopter Pad : Helicopter Landing Area Certification (permanent helicopter)

Speed, Range & Capacities

Speed (maximum / cruise).....: 15 knots / 12 knots
 Range.....: Transatlantic
 Fuel Total Capacity: 65.000+ L (approx.)
 Fresh Water Capacity.....: 15.000 L
 Black / Grey Water Capacity.....: 10.000 L
 Lube Oil Capacity: 500 litres
 Dirty Oil Capacity.....: 500 litres
 Sludge Oil Capacity: 500 litres
 Bilge Water Capacity.....: 500 litres
 Urea Capacity.....: TBD - Min. ECA region range equivalent

Propulsion Options

Virtus XP offers two propulsion options both complying with Green Plus and Ice Class 1C notation.

Conventional Propulsion

- 2 x Main Engines: CAT C32 1450 hp
- 3 x Generators.....: CAT C4.4 2 x 86 ekW, 1 x 51 ekW

Parallel Hybrid Propulsion

- 2 x Main Engines: CAT C32 1450 hp (MTU Option is available)
- 3 x Generators.....: CAT C4.4 3 x 86 ekW, or more (MTU Option is available)
- 2 x Electric Motors.....: ABB – Nudges the speed up to 6 knots (Acts as shaft generator when not used)
- Battery Bank: 1200 kWh (6 hours of silent cruise up to 6 knots & 10 hours of silent house mode)