

HYBRID LIFTBOAT DESIGN

CLASS 320



Dimensions

Length x Beam x Depth [Overall; w/protrusions]	272 ft x 123 ft x 17 ft (89.3 m x 37.5 m x 5.2 m)
Length x Beam x Depth [Moulded Regulatory]	228 ft x 105 ft x 17 ft (69.5 m x 32.0 m x 5.2 m)
Draft Load-Line / Lightship	12 ft (3.66 m) / 10 ft (3.05 m) [add 0.00 ft for rudder / prop protrusion]
Depth Max. [f/0 ft Penetr., 10 ft Air Gap, 3 ft Tidal]	258.1 ft (78.7 m) [w/min. sway via Lattice legs f/max. environmental workability]
Displacement / Lightship / Dead Wgt [Ops. Man.]	6,308 LT / 4,993 LT / 1,315 LT
Leg Qty x Type; Length x Outside Diameter	4 leg (3 x Lattice & 1 x Tubular); 320ft long; 16ft span & 10ft dia. respect. (97.6 m; 4.9m & 3.0m) [NO PRELOADING]
Pad Dimensions	48 ft x 24 ft x 6 ft (14.64 m x 7.32 m x 1.83 m); w/skirt f/anti-sliding/scour & flat btm. f/min. penetr. w/impact tip
Tower Height [M. Deck to Bottom of Grease Cup]	25.85 ft (7.88 m) [incl. 8.5 ft raised collar for upper rack guides]

Machinery

Generators	4 x Main Engine PTO @ 750 kW each; paralleling [400v / 50hz]; Emerg. x 2 @ 300kW ea [min. electronics]
Main Engines / Propulsion	4 x CAT 3512 @ 1,689 hp each; total 6,748 hp; 4 x Voith 18R Azimuth CPP @ 780kW ea [safest maneuvering]
Bow Thruster	2 x Berg BTT 111 CP @ 300 kW ea. (AC Motor Driven; CPP)
Speed Cruising (Range & Endurance) / Max.	5 knots (1,152 nm & 10-days) / 6 knots [calm seas]
Fuel Consumption Cruising / Idle	224.81 gal/hr (852 L/hr) / 25.10 gal/hr (95 L/Hr)
Crane Port	400 ST or 160 ft radius (363 MT or 48.8 m) [Leg-Encircling 360deg & side-ship mounted for heavy-lifts]
Crane Starboard	58 ST or 100 ft radius (52 MT or 30.5 m) pedestal box boom [can be relocated to 1 of 4 preinstalled/conn. pedestals]

Capacities

Bunks Total	240 w/temp. modules; 150 perm. via 1 or 4-man rms. [crew 8 / caterer 17 / charterer 125; subtract for 24-hr crew]
Deck Area [Open & Clear]	10,880 ft ² (1,011 m ²); with NO: manholes, plugs, vents; w/M. Dk. always free f/hot-work (no: FO tanks; joinery)
Deck Load / Strength	1,000 MT / 5.0 MT/m ² (indiv. max; or at 12ft draft in comb. w/others = 470 MT)
Fuel Oil Tank	459.8 MT; subtract 5% unfillable & 5% unpumpable (indiv. max; or at 12ft draft in comb. w/others = 134 MT)
Fresh Water Tank	647.3 MT; subtract 5% unpumpable (indiv. max; or at 12ft draft in comb. w/others = 271 MT)
Drilling Fluid	570.9 MT; at 1.7 S.G. (max. 2.0 S.G.) (indiv. max; or with Work-Over Unit in service = 400MT)

Regulatory

Registry / Class / Endorsement / Route / Keel Laid	Panama or Liberia / ABS, LR, or DnV / MODU w/ vol. SOLAS, SPS, & DP2 / Oceans / 01JAN15 (Del. 31DEC15)
Tonnage Gross & Net	4,500 & 3,100 Regulatory (4,500 & 3,100 ITC)
Shipyard / Hull # / Ex. Names / Mod. History	TBD / TBD / Proj. HLE-012A

Additional Features

- * Harsh Environment: near natural wave period, hard-bottom, 22ft max. wave; 4-knot current;
- * Alt. Environment: i.a.w. SNAME 5-5A for Central North Sea 50-year storm at 40m water-depth or for 10-year storm at 65m water-depth
- * Public spaces (6) adaptable to charterer; 3 full offices; all staterooms w/en suite WC & office suitable; hospital & change rms.; * Weld / Cut-Gear
- * Helideck CAP 437 rev. 7 f/Sikorsky S92A; * Water Maker x 2 Alfa Laval ORCA 30 @ 30,000 L/Day ea.; * H2S field ready (w/pos. press. HVAC)
- * Jetting f/Pads (high perf.); * Current, Bottom, Sub-Bottom, Sub-Surface Current Survey Equipment; * Moon-Pool 4.6 x 12ft; * Zero-Pollution Tks; * FiFi Class I (optional)
- * Work-Over Unit: Cantilever X-Y skidding (45' / +-15'), 220MT Pull, 2200 liter/min @ 5000psi (optional 3rd party equipment; ready-to-install)