



HERCULES
Offshore

M/V BULL RAY 280 CLASS LIFTBOAT

SPECIFICATIONS



Dimensions

Length x Beam x Depth (Overall; w/protrusions)	243.8 ft x 123.0 ft x 13.0 ft [74.3 m x 37.5 m x 4.0 m]
Length x Beam x Depth (Moulded Regulatory)	176.5 ft x 113.3 ft x 13.0 ft [53.8 m x 34.5 m x 4.0 m]
Draft (Summer Load-Line to Base-Line)	9.58 ft [2.92 m] (add 1.0 ft [3.05 m] f/protrusion)
Water Depth Max. (f/0 ft Penetr., 10 ft Air Gap, 3 ft Tidal)	226.0 ft [68.9 m]; Op Man nominal 200 ft f/higher AG & Pen.
Displacement // Lightship // DWT // Leg + Pad	3,713.0 LT // 2,991.8 LT // 716.3 LT // 3 Buoyant Tubular
Leg Length (incl pad) x Outside Dia // Leg Qty & Type	280.0 ft x 102 inch [85.4 m x 2.6 m] // 3 Buoyant Tubular
Tower Height* // Pad Dimensions*	22.0 ft [6.7 m] // 49 ft x 29 ft x 5 ft [14.95 m x 8.85 m x 1.52 m]
Pad Pressures Preload (est. +30% disp; max bouy)	Varies w/depth & loading; approx. 1/3 of drilling rig

Machinery

Generators	2 x CAT 3412 @ 500 kW ea; parallel (480v/60hz); E Gen CAT 250kw
Main Engines // Propulsion	2 x CAT 3512 @ 1,575 bhp ea; tot 3,150 bhp // 2 x stern FPP
Speed Cruising // Max // Thrusters	7 knots // 7.5 knots // bow tunnel 500 bhp; SMI 500 DC rev mtr
Fuel Consumption Cruising // Idle	165.1 gal/hr [625 L/hr] // 11.1 gal/hr [42 L/hr]
Crane Port (static; max reeving)	<u>189.1 ST @ 40.0 ft [171.6 MT @ 12.2 m]</u> ; 48.6 ST @ <u>167.0 ft [44.1 MT @ 50.9 m]</u> lattice boom; 26.4 ST fast line
Crane Starboard (static; max reeving)	<u>200.1 ST @ 30.0 ft [181.5 MT @ 9.1 m]</u> ; 70.6 ST @ <u>127.0 ft [64.0 MT @ 38.7 m]</u> lattice boom; 26.4 ST fast line
Jacking System & Speed	Double Rack & Pinion (10/leg); 3 to 5 ft/min [0.9 to 1.5 m/s]; Separate 2 x CAT 3412D for jacking HPU, 4500 psig hyd closed; Fairfield T409

Capacities

Bunks Total	240 w/190 in PAMS's; permanent 50 in House (crew 11 / catering 6 / charterer 33); subtract for 24-hr crew etc.
Deck Area Total // Open & Clear	11,000 ft ² [1,022 m ²] // 8,997 ft ² [836 m ²]
Deck Cargo // Loading	446.4 LT [453.6 MT; 1,000,000 lbs] // 400 lbs/ft ² [1.95 MT/m ²]
Fuel Oil Tank	127,314 L [109.49 MT; 33,633 USG]; subtract 5% unfillable & 5% unpumpable
Fresh Water Tank	112,340 L [112.34 MT; 29,677 USG]; subtract 5% unpumpable

Regulatory

Registry // Class // Code // Route // Keel // Deliver	Panama // BV // SOLAS // International; Near Coastal Voyages // 15JAN07 // 02JUN08
Tonnage Gross & Net	2,559 & 767 Regulatory (2,559 & 767 ITC)
Shipyard // Hull # // Ex. Names // Mod. History	SEMCO LLC // 1014 // KS TITAN 2 // n/a

Additional Features

Jetting System: internal manifold type f/air or water at 1,200 psig
 Water Makers; 2 x 6,000 gal/day (Village Marine; RO Type)
 MSD/Sewage: f/250 POB (Severn Trent De Nora; Omnipure 12MXMP; GW110)
 Helideck: MODU Cert.; D=49.2 ft (15m); 12,000 lbs (5.4MT); Bristow Appr f/S-76
 Crane Bow-Stbd for Personnel Lifts (additional)
 * Pad Dim: Fwd shown abv; Aft = 38 ft x 40 ft x 5 ft [11.59 m x 12.2 m x 1.52 m]
 * Tower Height Dim: Aft shown abv; Fwd = 44ft [13.2m]

Safety Features

Liferafts: 200% (100% per side) for 120 total POB
 Fast Rescue Boat; Schat-Harding MOB 4.5 (6 POB); 40 bhp petrol outboard; davit
 Gangways: 53 ft [16.2m] & 40 ft [12.2 m]
 Split engine room for redundancy in: propulsion, jacking, and electrical generation
 Mechanically driven: props, jacking, & auxiliaries - for enhanced reliability
 Compressors: 2 x 175 psig fr/15 kw @ 67 CFM
 Crane Bow-Stbd for Personnel Lifts (additional)