

M/V BULL RAY

280 Class Liftboat



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/o 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 Fuel Consumption Cruising // Idle	7 knots // 7.5 knots // bow tunnel 500 bhp; SMI 500 DC rev mtr 165.1 gal/hr [625 L/hr] // 11.1 gal/hr [42 L/hr]
Crane Port (static; max reeving)	189.1 ST @ 40.0 ft [171.6 MT @ 12.2 m]; 48.6 ST @ 167.0 ft [44.1 MT @ 50.9 m] lattice boom; 26.4 ST fast line
Crane Starboard (static; max reeving)	200.1 ST @ 30.0 ft [181.6 MT @ 9.1 m]; 70.6 ST @ 127.0 ft [64.1 MT @ 38.7 m] lattice boom; 26.4 ST fast line
Jacking System & Speed	Double Rack & Pinion (10/leg); 3 to 5 ft/min (0.9 to 1.5m/s); separate 2 x CAT 3412S for jacking HPU, 450 psig hyd closed; Fairled T409

CAPACITIES

Bunks Total	114 in total, including permanent 51 in House and 65 in PAM ; subtract for 24-hr crew etc.
Deck Area Total // Open & Clear Deck Cargo	9,149.32 ft ² [850 m ²] // 5,920.15 ft ² [550 m ²]
Deck Cargo // Loading	446.4 LT [453.6 MT; 1,000,000 lbs] // 400 lbs/ft ² [1.95 MT/m ²]
Covered Fabrication Shop:	914.93 ft ² [85 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 // ABS // SOLAS // International; Near Coastal Voyages // 15JAN07 // O2JUN08
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; 1 x 25m³/day (Village Marine; RO Type); 1 x 50m³/day (Advanced Watertek; RO Type)
 MSD/Sewage: f/114 POB (Severn Trent De Nora; Omnipure 12MXMP; GW110 and Sea Horse SMSD 750)
 Helideck: NCAA 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

Safety Features Liferrafts: 200% (100% per side) for 114 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: 2x 175 psig fr/15 kw @ 67 CFM

