



Builder: L&T Ship Building, INDIA

## MAIN PARTICULARS

Length O.A.	:68.80 m
LBP	:61.20 m
Breadth MLD.	:18.00 m
Depth MLD.	: 6.80 m
Max. Draft	: 5.50 m
SPS Draft	: 5.20 m

Class: Lloyd's Register

Flag State: Qatar

Owner: Halul Offshore Services

# 90 T Bollard Pull AHTSSV (Hybrid Propulsion)

SPS 2008 Compliance

2 Vessels

## Classification

- \*100 A1 AHTS, Standby Ship, Fire-Fighting Ship 1 (2 x 1200 m<sup>3</sup>/h) with water spray, Oil Recovery,
- \*IWS, WDL (7.5t/m<sup>2</sup> from Aft to Fr.70), HNLS
- \*LMC, UMS, DP (AA)

## Rescue Standard

UKOOA ERRV-Group B

## Performance

Speed @ 85% MCR	: 12.0 knots
Bollard Pull	: 90 tonnes
Autonomy	: 30 Days

## Machinery

Main Engines (Hybrid):	2 x 2040 kW
Main D G Sets	: 4 x 1000 kW
Shaft Alternators	: 2 x 1000 kW
Emergency DG	: 1 x 150 kW
Propulsion (Hybrid)	: 2 x 3040kW
Rudders	: 2 x High Lift with Flap
Bow Thrusters	: 2 x 800 kW
Stern Thruster	: 2 x 400 kW

## Capacities

Fuel oil	: 800 m <sup>3</sup>
Fresh water	: 600 m <sup>3</sup>
DW/Water ballast	: 400 m <sup>3</sup>
Mud/Brine Tanks	: 600 m <sup>3</sup>
Lube Oil	: 4x 5 m <sup>3</sup>
Recovered oil	: 600 m <sup>3</sup>
Dry bulk	: 150 m <sup>3</sup>
Foam	: 19.6 m <sup>3</sup>
Dispersant	: 10 m <sup>3</sup>

## Deck Cargo

Deck Area	: 600 m <sup>2</sup>
Deck Loading	: 7.5 t/m <sup>2</sup>
Supply Vessel Mode	: 1000 Ton
SPS (2008) Mode	: 450 Ton

## Accommodation

Total	: 38 Men
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## Deck Machinery

Windlass	: 1 x hydraulic with double drum, waterfall type c/w spooling device for the towing drum
Capstans	: 2 x 5 T @ 15 m <sup>3</sup> / min.
AHT Winch	: 200t pull @ 0-6 m/min
	: 250 t brake holding
	: 2 x 1000 m, 60mm cable drums
	: 2 x 60 mm dia cable lifters
	: 1 x 1000m x 60mm
	: 1 x 300m x 60mm
Shark Jaw	: 1 x 300 t SWL
Tow Pins	: 2 x 300 t SWL
Gob eye	: Flush type 300 t
Towing Bollard	: 120 t SWL
Stern Roller	: 5.0 m long x 2.0 m diameter
Tugger Winches	: 2 x 10 t @ 15 m/min
Deck Crane	: 3 T SWL @ 20 m radius
Smit Tow Bracket	: 1 x 150 t SWL

Oil Dispersant system with spray arms  
Oil recovery System in modules



# WIN MARINE ENGINEERING SERVICES

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