Astro Offshore
An Adani Group Company



ASTRO PROPUS

ANCHOR HANDLING TUG

GENERAL

Flag:	Liberia
IMO NO.:	9690755
Official No.:	25007
Call Sign:	5LVI9
Year Built:	2012
GRT:	1,019T
NRT:	305T
Class:	ABS+A1(E)
Classification:	Offshore Support Vessel + AMS (E) FI-FI ONE, (Anchor Handling & Towing Service)

PRINCIPAL PARTICULARS

Length OA:	49.95m
Breadth Moulded:	12.60m
Depth Moulded:	5.75m
Draft (Design):	4.50m
Draft Scantling:	4.80m
Deadweight:	831.0T
Bollard Pull:	65.0T

PERFORMANCE

Max Speed:	12.0 Knots

MACHINERY

Main Engine:	2 x high speed 4-stroke marine diesel engine, MCR of 2,575 BHP @ 1,600 rpm
Main Generator Sets:	2 x marine diesel generating sets, heat exchanger cooled approx 425 kW, 440V, 3 Phase, 60Hz, 0.8 P.F.
Emergency Generator:	1 x 56kW, 440V, 3 Phase, 60 Hz, 0.8 P.F
Bow Thruster:	1 x engine-driven transverse tunnel controllable pitch bow thruster unit to be fitted, about 5T thrust.
Gear Box:	2 x 415V / 3PH / 50Hz
Hydraulic:	1 x Caterpillar C18 TA-B | 357 kW @ 1800 rpm
AUX. S.W. Cooling Pumps:	2 x Horizontal self-priming centrifugal S.W. circulating pumps, and AH/T Winch power pack.
Starting Air Compressor:	2 x Air-cooled starting air compressors
Steering Gear:	2 x Independent electro-hydraulic steering gear units, capability of turning the rudders at 2 x 35 deg.

RESCUE EQUIPMENT

Rescue Boat:	1 x 6 men SOLAS
Life Raft:	4 x 15 men
Lifebuoys:	8
Lifejackets:	30
Pyrotechnics:	12 x Parachute Distress Rockets | 2 x Orange Smoke Signals
Line Throwing:	4 x Sets

DECK EQUIPMENT

Clear Cargo Deck:	200m²
Deck Crane:	1 x 2.0T @ 9m
Anchor Windlass:	5T @ 10m / min
Anchor Chain:	32mm, U2, 2 x 8 lengths
Towing Winch:	75T @ 7m / min @ 1st Layer 15T @ 7m / min @ 1st Layer
Drum Capacity:	1,000m x 52mm dia. Steel Wire per drum
Brake Load:	150T @ 1st Layer (static)
Tugger Winch:	2 x Electro-hydraulic 5T @ 15m / min 250m of abt 19mm dia. Steel Wire
Capstan:	2 x 5T @ 15m / min
Shark Jaw:	1 x Set 200T SWL
Tow Pin:	2 x Vertical Hydraulic Towing Pins
Storage Reel:	1 x 1,000m (length) of abt 52mm dia Pull of 3T @ 20m / min | 1.5T @ 40m / min
Airconditioning and Ventilation:	1 x Centeral AC Deck unit in the AHU room
Stern Roller:	1 x 120T SWL @ 3.5m (length) x 1.5m dia

CAPACITIES

Fuel Oil:	500.0m³
Fresh Water:	291.0m³
Drill / Ballast Water:	60m³
Bilge Holding Tank:	8.00m³
Dirty Oil:	8.00m³
Freezer & Chiller Room:	2 x 6.00m³
Sewage:	10.0m³ (for 22 people)
Foam:	15.00m³
Dispersant:	15m³
F.W. / S.W. Pressure Set:	1 x 300litres

DISCHARGE RATES

Fuel Oil:	65m³ / hr @ 60m
Fresh Water:	60m³ / hr @ 60m
Drill / Ballast Water:	60m³ / hr @ 60m
L.O. Storage:	2 x 4.5m³ @ 1-2m³ / hr
Dirty Oil:	2m³ / hr @ 29m
Reverse Osmosis:	5T / day
Oily Bilge Separator:	1 x MARPOL Standard | 0.5m³ / hr @ 1kg / cm²
F.W. / S.W. Pressure Set:	2m³ / hr @ 35m pump
Fuel Oil Transfer Pump:	10m³ / hr @ 20 mwc

ACCOMMODATION

One Man Cabins:	2
Two Man Cabins:	8
Four Man Cabins:	1
Total POB:	22

NAVIGATION

Radars:	1 x (IMO & SOLAS) 1 x non IMO
Gyro Compass:	2 x Console mounted steering repeaters (1 at WH Fwd, 1 at WH Aft, 1 at each bring wings) 1 x Steering gear room 1 x Azimuth circle (bearing sight)
Speed Log:	1
Echo Sounder:	1
Magnetic Compass:	1
Autopilot:	1
GPS:	1
AIS:	1

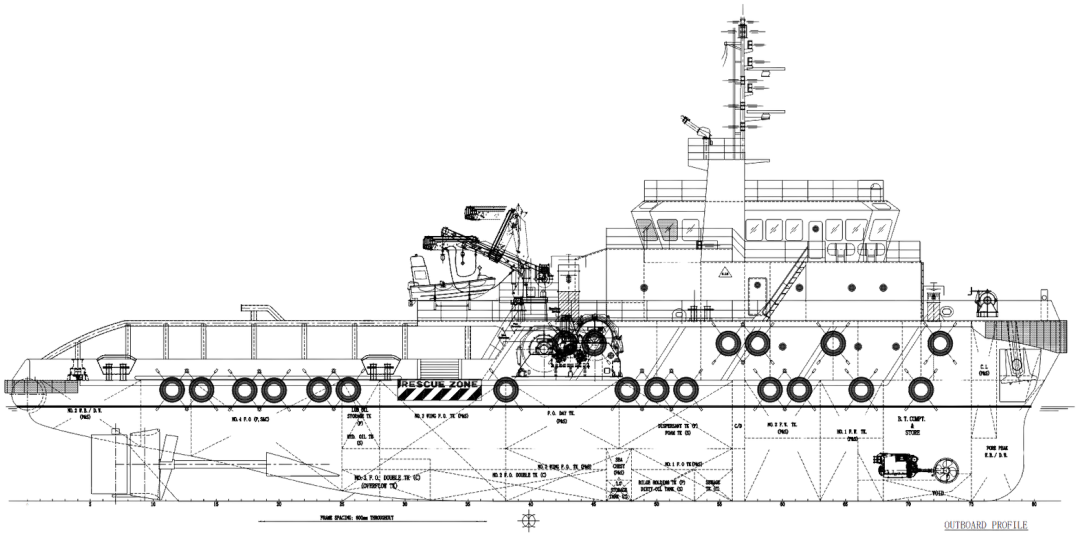
COMMUNICATION

GMDSS Area:	3 x GMDSS Portable VHF Radio Sets
Inmarsat C:	2
MF / HF:	1
VHF Radio Telephone:	2
EPIRB:	1
SART:	2
SSAS:	1
Air Horn:	1
International Code of Signals	1

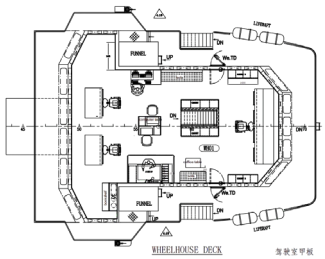
SAFETY EQUIPMENT

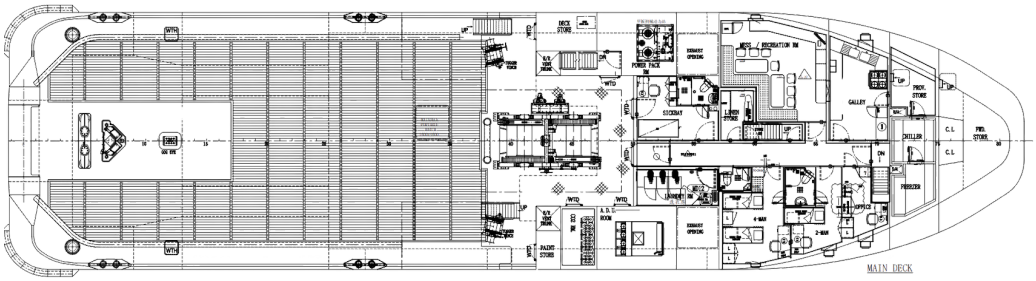
FiFi Monitor:	Full Flooding CO2 System for Engine and Bow Thruster Room
Firemain:	10 Hydrants
Fireman Outfit:	6 x Complete Sets
Dispersant:	15m³
Emergency Fire Pump:	25m³ / hr @ 45m
EEBD:	6

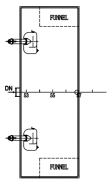
GENERAL ARRANGEMENTS

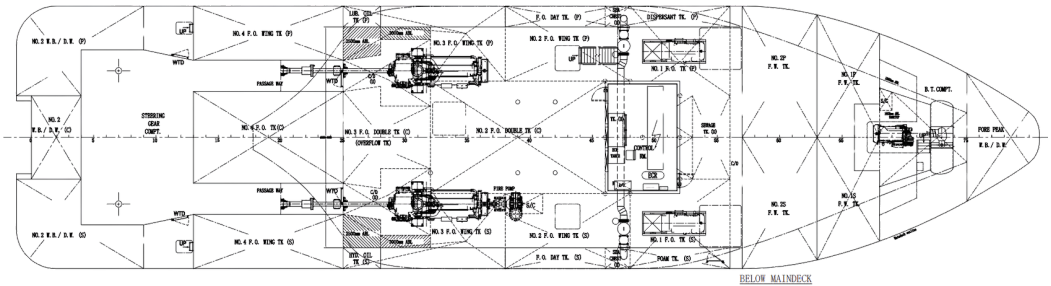


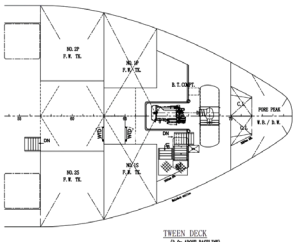
OUTBOARD PROFILE

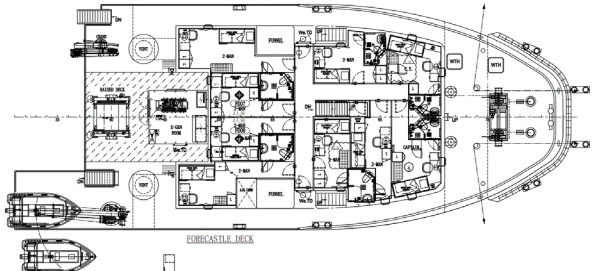

WHEELHOUSE DECK


MAIN DECK


FUNNEL PLATFORM


BELOW MAINDECK


TWEEN DECK


FORECASTLE DECK

DATE	MODIFICATION	REV.	BY

ZHONGSHAN JINHUI SHIP REPAIR & BUILDING FACTORY CO. LTD.
NEARBY THE DANANSHA BRIDGE,GANGKOU TOWN,ZHONGSHAN CITY,GUANGDONG, CHINA
TEL: (86) 0760-88480881 E-MAIL: JH_DESIGNROOM@126.COM

CLASS	ABS +A1(D) HAB OFFSHORE SUPPORT VESSEL FIFI CLASS ONE
BUILDER	ZHONGSHAN JINHUI SHIP REPAIR & BUILDING FACTORY CO. LTD.
HULL NO.	JH2020
SHIP:	50M AHT VESSEL
TITLE:	GENERAL ARRANGEMENT

DRAWN	CHECKED	FINISHED	SCALE	DRAWING NO.	REV.
M.LI	J.Y.ZHENG	S.S.LI	1:115	VJH2020-100-001	
20121216	20121216	20140711			

All particulars are believed to be correct but without guarantee