Astro Offshore
An Adani Group Company



ASTRO AQUILA

65M MULTIPURPOSE SUPPORT VESSEL

GENERAL

Flag:	Singapore
Builders:	POET Shipbuilding & Engineering Pte. Ltd.
Year Built:	2022
Class:	ABS
Classification:	+ A1 (E) OFFSHORE SUPPORT VESSEL, FFV-1, SPS, UWILD, + AMS + DPS-2

PRINCIPAL PARTICULARS

Length OA:	65.00m
Length Waterline:	57.00m
Breadth Moulded:	16.20m
Depth Moulded:	6.00m
Draft (Scantling):	5.00m
Draft (Design):	4.50m
Summer Draft:	4.70m
Gross Tonnage	2,549T
Net Tonnage:	764T
Deadweight:	1,700T
Displacement:	3,543T
Dynamic Positioning:	DP2 | Konsberg K-Pos DP – 21, 2 x DGPS, 1 x CyScan, 1 x Radius

MACHINERY

Main Engines:	2 x Niigata engine 6L26HLX (1471kW) each | 750Rpm Medium Speed
Z-Peller Unit:	2 x ZP-31. Driven by main engine
Bow Thruster:	2 x KT-88B3 Kawasaki CPP Bow Thruster | 8T's
Main Generators:	4 x Caterpillar C32 590kWe diesel driven coupled with Leroy Somer Alternator 560EKW (415V/3/50Hz)
Emergency Generator:	1 x Volvo Penta D9-MG Emergency Diesel turbo-charged Generator set with after-cooler, ated approx 136 KW (415V/3/50Hz)
Main Switchboard:	1 x HY Technologies Main Switchboard (4 x C32 Generator, AC 415V 3Ph 50hZ) (IP23)
Emergency Switchboard:	1 x HY Technologies Switchboard Emergency Switchboard (1 x Volvo Penta D9-MG Generator, AC 415V 3Ph 50hZ)
Anti-Heeling:	1 x HOPPE marine Anti-Heeling System
Air Condition:	2 x Seawater-cooled main Systems air-conditioning unit c/w 2 x 100% Capacity | Compressor Capacity approx 280Kw
MGPS:	Shipset Cathelco MGPS for 5 Sea Chest
Fresh Water Maker:	2 x Quantum RO 30T SW Reverse Osmosis Fresh Water Maker c/w UV Steriliser System (QTM UV 1000P)
Air Compressor:	2 x Deno L2-25 Air-Compressor c/w control 415V/3Ph/50Hz
SCBA c/w Spare:	8 x YEAN SCBA Cylinder PSS3000 c/w Spare Cylinder
EEBID:	6 x YEAN EEBD

PERFORMANCE

Speed:	12 Knots

DECK EQUIPMENT

Main Crane (Man-Riding Certified):	40T Active Heave Compensated Telescopic Crane
Auxiliary Winch:	6T
Deck Load (Design):	5.0T / m^2
Deck Space:	370 m^2
SWL @ 5.5m-45m:	2 T (auxiliary winch)
SWL @ 5.5m-30m:	6 T
SWL @ 5.5m-17m:	10 T
SWL @ 5.5m-15m:	20 T
SWL @ 5.5m-8m:	40 T
Max. load @ 5.5-15m for AHC mode:	10T
Personnel lift @ 4-45m:	1T

CAPACITIES

Fuel Oil:	429.2m^3
Fresh Water:	520.7m^3
Ballast Water:	1,115.8m^3
Sewage Holding:	36.4m^3
Dirty Oil:	20.5m^3
Foam:	8.5m^3
Bilge Holding Tank:	20.5m^3
Dispersant Tank (P):	8.5m^3
Fuel Oil Purifier:	2 x 1,200L

DISCHARGE RATES

Fuel Oil:	2 x 10m^3 / hr at 20m
F.W. Cargo Pump:	1 x 75m^3 / hr at 100m
Cargo Fuel Oil:	1 x 75m^3 / hr at 100m
Dirty Oil / Sludge:	1 x 5m^3 / hr at 45m
Ballast Water:	2 x 100m^3 / hr at 60m
Oily Water:	1 x 1.2m^3 / hr
Cargo Oil Flow:	1 x 12m^3 / hr (min.) / 150m^3 / hr (max.)
Cargo Water Flow:	0.5m^3 / hr (min.) / 170m^3 / hr (max.)
Emergency Fire:	1 x 45m^3 / hr at 55m
External Fire Pump:	2 x 1,200m^3 / hr seawater
Fire Monitors:	Water - 1 x 1,200m^3 / hr Foam – 1 x 300m^3 / hr

ACCOMMODATION

One Man Cabins:	7
Two Man Cabins:	2
Tripple Man Cabins:	3
Four Man Cabins:	20
Total POB:	100

NAVIGATION

GMDSS Station:	GMDSS A1 / A2 / A3
GMDSS Radio Area 3:	2 x INMARSAT-C- FURUNO FELCOM18
Radars:	1 x FURUNO X Band - FAR-2117-D 1 x FURUNO S Band - FAR-2117
AIS Systems:	1 x FURUNO FA-170
GPS Navigators:	1 x FURUNO GP-170 navigator 1 x NGR-3000
Gyro Compass:	3 x SIMRAD GC 80 / 85

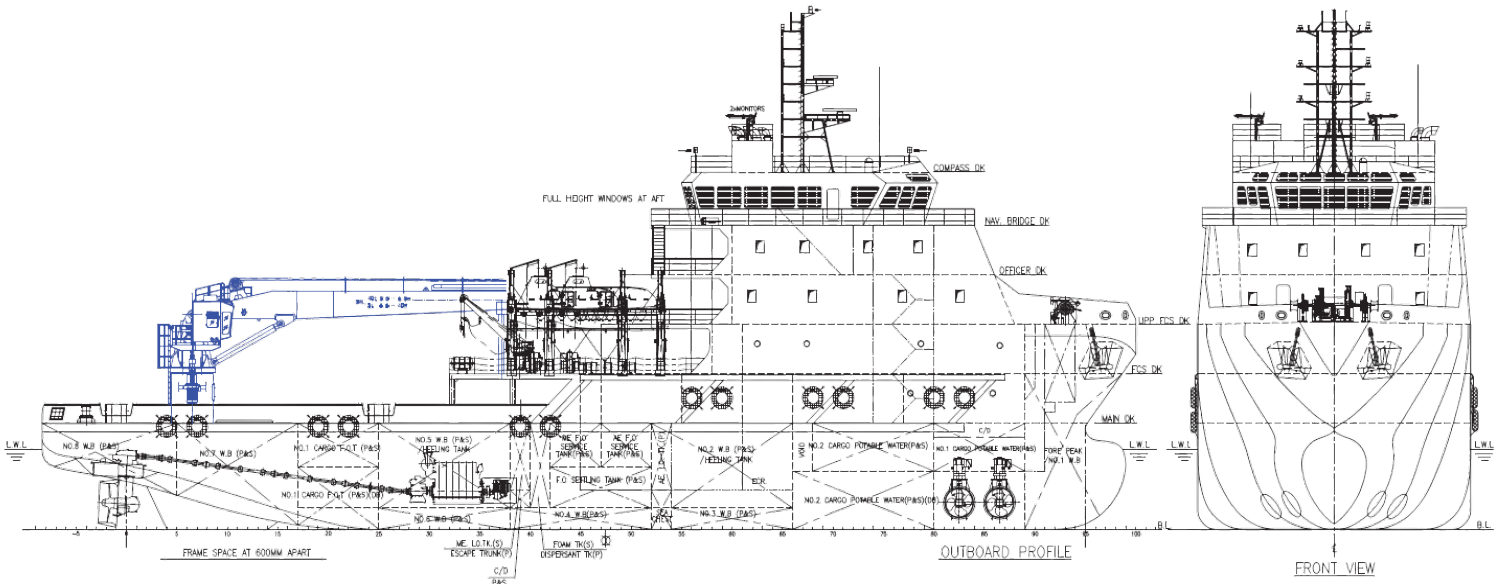
RESCUE EQUIPMENT

Life & Rescue Boat:	2 x SOLAS-certified type enclosed life boat c/w davit (SWL 65KN), 68 men, of rigid construction.

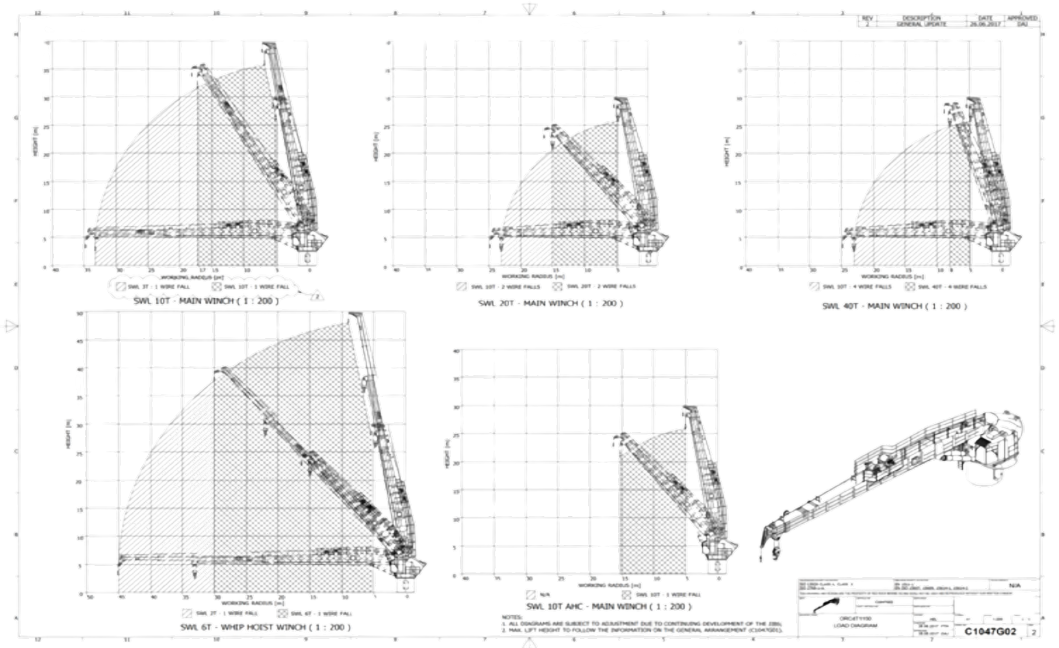
SAFETY EQUIPMENT

Fire Fighting:	FiFi Class 1
Fire Pump:	2 x Remote Operated Monitor, capacity 1,800m³ / h
Oil Dispersant:	1 x Oil Systems Dispersant Concentrate inductor, c/w 2 x off-centre Flat Spray VeeJet Nozzle
Water Spray System:	1 x FFS Water Spray (Curtain type) Capacity approx. 1,100m³/h
Fire Extinguisher:	1 x Shipset fire extinguishers as per ABS Safety Plan
Co2 Systems:	1 x Shipset CO2 system
Fire Detection System:	1 x Shipset Fire Detection alarm system
Fixed gas Detection:	1 x Shipset Fixed Gas System Detection system
Fixed Local:	1 x Shipset Fixed Local Application System Application system (6 zone - covering 02x Main Engines + 4 x Generator)
Wet Chemical System:	1 Shipset Wet Chemical system (Galley - Deep Fat Fryer)

GENERAL ARRANGEMENTS



LOAD CHART



All particulars are believed to be correct but without guarantee