Astro Offshore
An Adani Group Company



ASTRO ATLAS

97M MULTIPURPOSE SUPPORT VESSEL

GENERAL

IMO No.:	9777307
Registry:	Aalesund
Year Built:	2021
Classification:	✠ A1, Offshore Support Vessel (FFV 2, SPS), ©, ✠ AMS, ✠ ACCU, ✠ DPS-2, BWT, CRC, RW DnV GL 1A1 Offshore service vessel(+) BIS BWM(T) Clean(Design, Tier III) COMF (C3, V3) DK (+) DYNPOS(AUTR, E) E0 ECA (SOxA) HELDK (S, H, CAAN) Ice (C) NAUT(OSV(A)) Recyclable SF SPS

PRINCIPAL PARTICULARS

Length OA:	97.20m
Length BP:	87.30m
Breadth Moulded:	22.00m
Draft (Max):	7.20m
Draft (Design):	6.70m
Gross Tonnage:	7,388T
Net Tonnage:	2,217T
Deadweight:	5,331T
Max Deck Load:	2,400T
Dynamic Positioning:	DP2 | KPOS DP – 21 | 2 x DGPS Fugro OCS GNSS | 1 x CyScan, 1 x RADius, 1 x Taut wire (LTW) SMT, 1 x HiPAP

CRANE EQUIPMENT

Deck Crane:	6T @ 15m
Provision Crane:	3T @ 12m
150T Subsea AHC Crane:	
Main Line:	150T SWL – 11m Offshore Mode
Total Wire Length:	3,323m Drum Capacity 3,500m, Hook Travel 3,000m / Ø72mm / weight in air 25.4KG 2T, DAF 1.3, AHC Capacity 2m/s, constant tension
Whip Line:	10T SWL @ 36m – 600m, personnel lift
Tugger Winches:	2 x 5T SWL w/ constant tension
Slow Sector / Speed:	360° / 0 - 0.8rpm
Operation Limits:	Max list 5°, Wind Speed: 25 m/s
25T Secondary Crane:	25T, 2,000m wire, personnel lift
Removable Bulwark Sections:	SB: 11m aft of Offshore Crane, 14m fwd of the Offshore Crane Port side: 14m aft of AUX crane. Stern section: 14m
ROV Lars System:	Peak Load: 36T Operating Speed: 1.0 / 1.4 m/s (inner / outer layer) ROV Power Distribution: 2 x 440V, 3 Phase 60hz, 630 Amp ROV Hanger Side Doors: 2 x MacGregor ROV Hangar aft door: Sliding Gate 3.46 x 2.8m

DECK EQUIPMENT

Deck Cargo Area:	1,100m² (40 x 19m)
Inside Deck Area:	WROV hangar 73m² | OBS ROV hangar 36m²
Deck Strength:	Aft of #3: 25T / m² | #3 - #72: 10T / m²
Tugger Winches:	2 x 10T
Capstans:	2 x 10T
Windlass / Mooring:	1 x Double with Mooring Winch
Height of Bulwark on Main Deck:	1,200mm
Removable Bulwark Sections:	SB: 11m aft of Offshore Crane, 14m fwd of the Offshore Crane Port side: 14m aft of AUX crane. Stern section: 14m
Moonpool	Prepared for 7.2 x 7.2
Helideck:	21m helicopter deck designed for Sikorsky (12.8T)
Working Air:	2 x compressors Capacity 284m² / h – 9.1 bar pressure Connection on Deck: CEJN 320 Female 5 off outlets on deck: Aft of ROV HPPS | By main crane boom rest (PORT) | By main crane pedestal (PORT) | By Auxiliary Crane (STBD) | By tank vents area of aft deck (STBD)
FO Deck Equipment:	Capacity: 5m³ / h – 4 bar pressure Connection on deck: 1" Cam-lock and ball valve One deck outlet on port side mezzanine deck – in front of FRC
Removable Bulwark Sections:	SB: 11m aft of Offshore Crane, 14m fwd of the Offshore Crane Port side: 14m aft of AUX crane. Stern section: 14m

MACHINERY

Main Engine:	4 x HIMSEN 6H32/40 2880 kW, 720rpm, 11,200 BHP
Harbour Gen:	1 x CAT, 968 bkW, 1,800rpm
Main Propulsion:	2 x SCHOTTEL SRP 3030 FP, each 3,000KW
Stern Tunnel Thruster:	1 x 1,400KW
Bow Tunnel Thrusters:	2 x SCHOTTEL STT 7FP, each 2,050KW
Bow Azimuth:	1 x SCHOTTEL STT 4 FP, 1,200KW

PERFORMANCE

Eco Speed:	10 Knots – 11.2T / day
Max Speed:	15 Knots – 34.5T / day
Service Speed:	12 Knots – 17.2T / day
DP Max:	6T / day
DP Min:	5T / day
DP Standby:	4T / day
Standby on field (non DP):	4T / day
Port Consumption:	3.4T / day

NAVIGATION

S-Band Kongsberg K-Bridge Radar:	1
X-Band Kongsberg K-Bridge Radar:	1
DGPS for navigation Sailor 6570:	2
Kongsberg K-Bridge ECDIS:	2
Gyro:	4
Echo Sounder Skipper GDS 102:	1
HMS 900 Helideck Monitoring System:	1
Skipper DL 850 Doppler Log:	1
AIS TRON AIS TR-8000:	1
DP System Kongsberg k-POS:	1
MRU:	4
Wind Sensors:	4
Kongsberg Spottrack System:	1
Radius 1,000 incl 1 x Interrogator and 2 x Radius 700:	1
DGNSS Kongsberg DPS 232:	1
DGNSS Kongsberg DPS i4:	1
Kongsberg HIPAP 502 aft Port:	1
Sonardyne Ranger 2 fwd stbd:	1
Spare Trunk for HPR / Hydr Acoustic System:	1

ACCOMMODATION

One Man Cabins:	26
Two Man Cabins:	33
Four Man Cabins:	2
Total POB:	100

3 x Lounges | 1 x Day Room | 1 x Galley | 1 x Messroom (50 persons) | 1 x Conference | 1 x Gym | 1 x Hospital

COMMUNICATION

Sailor 6301 MF / HF:	1
Sailor 6222 GMDSS VHF with DSC:	2
Sailor SP3520 GMDSS VHF Portable:	3
Sailor 6210 VHF:	2
TRON 60s:	2
TRON 40 VDR GMDSS EPIRB:	1
TRON SART20 GMDSS SART:	3
Sailor 6110 mini-C GMDSS Inmarsat-C:	2
Motorola DP 4401 EX (Handheld) UHF:	8
Entel HT833 (handheld) UHF Array Satellite System:	4
GSM System Mobile Telephone Array Sat TV System:	3
Jotron TR-810 Helicopter Communication:	2

RESCUE EQUIPMENT

Life Rafts:	4 x Viking 25DKF + 30s (25 persons) davit launched
Life Saving Appliances:	For 100 people
Fast Rescue Craft:	1 x Merlin 615, 1 off (SOLAS approved) Davit for FRC 2 x 50 person Lifeboat JYN75 | 2 x Norsafe LH140

CAPACITIES

Fuel Oil:	1,263m³
Drill Water / Ballast Water:	4,506m³
Fresh Water:	1,147m³
Fresh Water Maker:	2 x 18m³

DISCHARGE RATES

Fuel Oil:	2 x 250m³ / hr
Drill Water / Ballast Water:	2 x 0 - 150m³ / hr
Fresh Water:	2 x 0 - 50m³ / hr HP: 60 bar @ 75m³ / hr

All particulars are believed to be correct but without guarantee

MILLENNIUM PLUS ROV (2 QTY)

VEHICLE SPECIFICATIONS

Weight in Air:	8,800 lb / 4,000 kg
Dimensions:	10.8 x 5.5 x 6.3 ft / 3.3 x 1.7 x 1.9m
Depth Rating:	10,000 ft / 3,000m (standard) 13,000 ft / 4,000m (optional)

POWER AND PERFORMANCE

Hydraulic Power Units:	2 x 110 hp(E)
Propulsion:	4 x vectored horizontal 4 x vertical
Thrust:	
Forward / Reverse:	2,000lb / 900kg
Lateral:	2,000lb / 900kg
Vertical:	2,080lb / 950kg

MANIPULATORS AND TOOLING

Manipulators (2):	5 or 7 function: rate, SC, or hybrid control
Luffing Speed (0 – Max Angle):	Multiple directional control valves with proportional pressure and flow control Maximum 40 gal / min

CAMERAS AND LIGHTING

Cameras:	Standard definition (SD) High definition (HD) 3D HD (optional)
Lighting:	Up to 8 x 250 W (quartz halogen or high-intensity LED)

CONTROL AND NAVIGATION

Automatic Control:	Fly-by-wire station keeping system Auto heading / depth / altitude / pitch cruise control
Heading and Altitude Sensors:	Survey-grade gyro backup flux gate compass
Depth Sensor:	High-resolution digiquartz backup analog depth sensor
Navigation Sensor:	Doppler velocity log
Obstacle Avoidance Sonar:	Kongsberg 1071 or 1171, Tritech SeaKing

OPTIONAL POWER AND DATA INTERFACES

Data Links:	Multiple RS232 and RS485 Ethernet Optical fiber
Power:	24 V DC and 110 V AC

TETHER MANAGEMENT SYSTEM (TMS)

Type:	Side entry cage or top-hat
Propulsion:	2 x horizontal (cage only)
Hydraulic Power Unit:	1 x 110 hp(E)
Electro-optical Tether:	2,000 ft / 600m (cage) 4,000 ft / 1,200m (cage) optional 1,300 ft / 400m (top-hat)
Cameras:	2 x charge-coupled device (CCD)
Lighting:	2 x 250 W (quartz halogen or high intensity LED)

LAUNCH AND RECOVERY SYSTEMS (LARS) (choice of)

Overboarding
A-frame w/ or w/o docking head
Heavy-weather overboarding system
Cursor
Winch
Heavy lift winch with conventional or OHRA level wind

The **Millennium**® Plus ROV is a side entry cage deployed, dual manipulator 220 hp heavy work class ROV. The cage or Tether Management System (TMS) supplies an additional 110 hp and is capable of powering skids, and has thruster control and auto heading.



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For enquiries, please contact commercial@astro-offshore.com
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