

SURVEY VESSEL URBANO MONTI



VESSEL SPECIFICATIONS

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00	May 21
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The Survey Vessel Urbano Monti has been built in 2007 and converted in 2020 as multi-purpose platform supply vessel designed to carry out various services for the offshore industry. Designed to be easily adaptable to various operational requirements, the vessel can be fitted for other duties such as Pre-Lay Grapnel Run (PLGR) and Inspection Operation as well other marine services as better detailed below:

- **Survey:** After her acquisition, the ship has been equipped in 2020 with the most modern equipment for marine surveys: multi-beam echo sounder, side scan sonar, HiPap Acoustic System.
 - **Pre Lay Grapnel Run (PLGR) and Route Clearance Operation (RCO):** thanks to her 350 m² lower deck, a new forecastle deck with 250 m² of surface, a bollard pulls in excess of 40 T, DP2 capability and suitable fitting of specific equipment on board, the ship can perform Pre Lay Grapnel Run and Route Clearance Operations
 - **Inspection Operations / ROV** thanks to her 350 m² lower deck, 1.7T/m² deck cargo and a forecastle deck with 250 m², 1T/m², DP2 capability, the ship can be used as a platform for Post-Lay Inspection and Burial operations
 - **Research Vessel:** for biologic marine research
- Until now, she has performed 17,200 km of geophysical surveys and 4,600 km of geotechnical surveys. She has also been employed as ROV support vessel for about 200 days.*

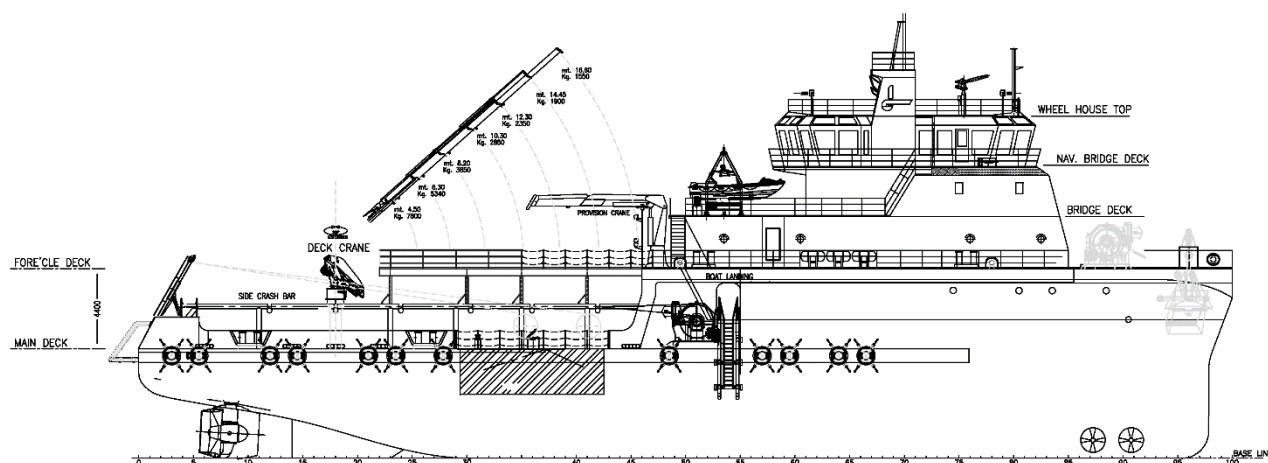
1. SV URBANO MONTI MAIN CHARACTERISTICS

1.1 Technical Specifications

Item	Description
Call Sign	IBFX
IMO Number	9344215
MMSI Number	247415100
Length overall	60.0 m
Length between perpendiculars	56.45 m
Breadth, moulded	15.60 m
Draft moulded	4,50 m
Draft extreme (including Gondola)	5,30 m
Gross tonnage	1,969 T
Net tonnage	590 T
Max Speed	8,620 T
Cable Deadweight	up to 3,000 T
Max speed	11 kts
Bollard pull	40 T
Flag	Italian
Year built	2007
Base Port	Catania (Italy)
Classification	R.I.N.A. *
Additional Class notations	AUT-UMS- IPD2-IWS-FI-Fi 1-Water spraying-Rescue-Diving
Capacities	Fuel oil : 550 m ³
Accommodation	Single cabins : 6
Upper Deck area	250 m ²
Upper Deck cargo	1.0 T/m ²
Lower Deck area	350 m ²
Lower Deck cargo	1.7 T/m ²

1.2 Contact Details

- Mob. phone +393371449422
- Fleet voice +870773131361
- Master mail master.monti@elettratl.it
- Bridge mail deck.monti@elettratl.it
- FBB500..... +770773211430



2. MAIN ENGINE ROOM MACHINERY

2.1 Main Engine & Aux Diesel Generators

System	Details
Main Engines	2x ABC 6M DZC-1000-179-A: 1000 rpm 1400 kW (100%) each
Aux Diesel Generators	2 x Man D 2876 LE 301: 1800 rpm 320 kW (100%) each
Emergency Generator	Man D 0824 LE 201: 1800 rpm 118 kW
Shaft Generator	2 x 635 Kw each

2.2 Propulsion

System	Details
Main Propulsion	2 x Azi Schottel rudder-propeller type SRP1012 CP: 1200 kW each
Tunnel Thrusters	2 x Tunnel Thrusters HRP 4009 TT CP: 400 kw each

2.3. Speed and consumption

- In transit9 kn – 7 T/day
- Full speed 11 kn – 10 T/day
- In DP5 T/day
- In port.....1.5 T/day

Important note: the above figures are merely indicative and based on the elaboration of the vessel data collected along her operations performed in optimal weather conditions.

3. BRIDGE EQUIPMENT

3.1 Dynamic Positioning System

The vessel is classified DP2, equipped with Kongsberg K-Pos-DP-21 and is capable to operate, with the worst heading, in following limit weather conditions (vessel navigation only):

- Sea state 5
- Wind15.0 m/s
- Current1.0 m/s

3.2 GMDSS and Communication Equipment

Equipment	Details
Acoustic tracking	• 1 x HIPAP 502, Kongsberg
Inmarsat C	• 1 x Furuno Felcom 15; Furuno NBDP 1x Jrc jue-87
ECG terminal	• 1 x Furuno Felcom 15; N.1 Furuno NBDP
ECG rinter	• 1 x Furuno mod. PP-510 1x Jrcnkg-900
MF/HF	• 1 x Furuno FS5000
VHF (DSC)	• 1 x Sailor DSC-6222
VHF (RTX)	• 1 x Jhs 800
VHF (portable)	• 4 x Entel mod. HT 6492 x Sailor type SP3510
A.I.S.	• 1 x Nsr - NSI-1000 UAIS
L.R.I.T.	• 1 x Furuno Felcom15 W/IC-215 (LCD)
E.P.I.R.B.	• 1 x Mcmurdo mod. Smartfind G5
SART	• 1 x Pathfinder mod. PRO • 1x Sailor KLSS4-1
Fax	• 1 x JMC mod. FX-220
Navtex receiver	• 1 x Furuno NX 700°
Inmarsat F	• 1 x Thrane&Thrane mod. TT3670A
VSat	• 2 x Cobam Sailor 900 HP
FBB500	• Thrane & Thrane

3.3. Bridge Equipment

Equipment	Details
Acoustic tracking	• 1 x HIPAP 502, Kongsberg
Radars	• 2 x JRC-5410 X-band
BNWAS	• 1 x BNWAS Furuno BR-500
G.P.S.	• 2 x Furuno GP-90
Gyro Compass	• 3 x Anschuertz Raytheon mod. standard 22 type 110-233
Compass Monitor	• 1 x Anschuertz Raytheon
Echosounder	• 1 x Furuno FE-700
Navigation equipment	• 2 x Simrad PLECDIS900 MK5A W/ M5027
Weather instruments:	• 3 x wind sensors • 2 x Thermometer • 1 x barometer
Autopilot	• 1 x Anschuertz Raytheon type AP02-S01

Equipment	Details
Doppler Log	1 x Furuno DS-80
Speed log	1 x Furuno DS-80
Sound reception system	1 x Zenitel Marine VSS-111

3.4. Positioning Reference System

System	Details
Dynamic Pos System	1 x Kongsberg K-POS 21 + CJOY
Acoustic tracking	1 x HIPAP 502, Kongsberg
DGPS	2 x Kongsberg type DPS 112, Kongsberg type DPS 114
Motion reference units	2 x KONGSBERG MRU-D Motion Reference Unit
Gyro compass	3 x Master Gyro Compass C. Plath Navigat X Mk 1, Mod 10
Wind sensors	3 x Gill Ultrasonic Wind Sensor

4. SURVEY EQUIPMENT

The installed Survey Equipment allows for an accurate inspection and Survey of the Seabed:

4.1 Offshore Survey Equipment

Equipment	Characteristic
Multibeam	- Kongsberg EM 122, 12 Khz full ocean depth - Kongsberg EM 2040 1x2, 400 Hz, up 300m wd 1x Single Swath + 1 x Dual swath
SVS(x2)	Valeport Mini SVS + Valeport-MIDAS-CTD
Positioning System Kongsberg	Seapath 380-5 + Seapath 385
Online Data Navigation System	QINSy Survey Planning, Acquisition, Real-time software
MRU	Kongsberg MRU 5-Motion Reference Unit
Acoustic Positioning System	Kongsberg Hipap 502 + HiPap 352 pole mounted
Dynamic Positioning system	Kongsberg K-POS-21 + CJOY
SSS/SBP	3x EdgeTech-2050-DSS-Combined-Sidescan-Sub-Bottom-System
SSS/SBP Acquisition / Mosaicking Software/CPT rep	Chesapeake Sonar Wiz.
MAG	3x Geometrics G882 interfaced with SSS
Offline MBES Data Processing System—	QPS QIMERA
Projecting software	Autochart - Autocad
Database management Software	Geomedia
Printer	AO Plotter
Core	2 x 450 head 3/6m Gravity core + winch with 2000 m cable length
CPT	2x Datem Neptune 3000, 1m to 10m rod penetration
CPT data processing	gINT / Datgel Geotechnical and Geoenvironmental reporting

Equipment	Characteristic
Geotechnical equipment	• Van Veen Box Corer: 2x5l, 1x25l, 1x40l
Geotechnical testing equipment	• Torvane, Pocket Penetrometer, Munsell color scale

4.2 Nearshore Survey Equipment

When the local conditions allow, the vessel can perform nearshore survey operations because it is equipped with a smallboat having the following characteristics:



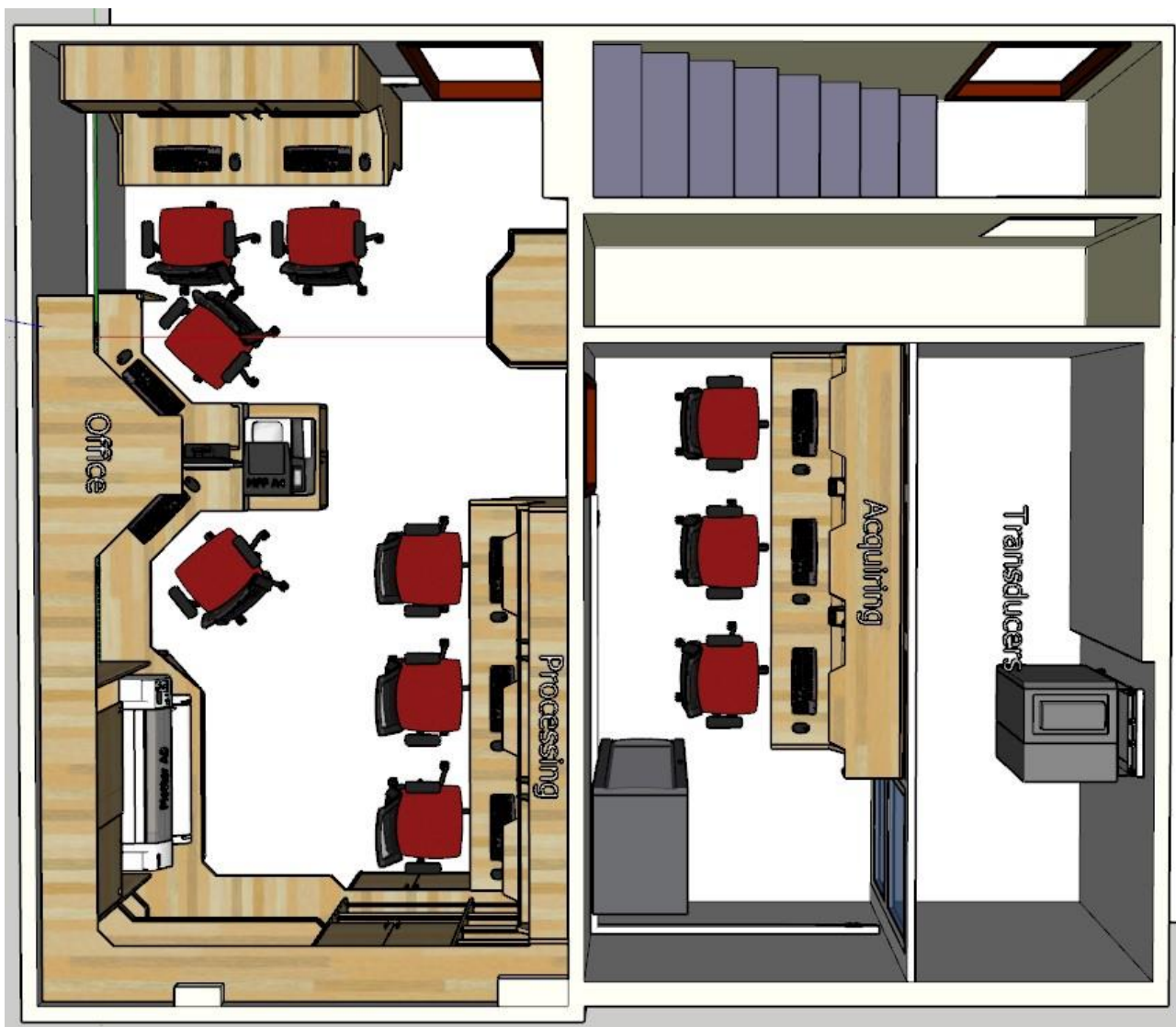
- Manufacturer: ICON MARINE
- Model: 19 S
- Dimensions: 5.90 m x 2.36 m
- Average draft: 0.45 m
- Engine Manufacturer: Mercury Marine
- Engine Model: 40ELPT CT
- Outboard Power: 29 kw@6000 rpm

During the nearshore operation the smallboat will work using the following dedicated survey equipment

Equipment	Characteristic
Multibeam/SSS	• Geoswath GS4R 250Khz
Positioning, heading and motion	• RTK POS MV SurfMaster SFF IP68
SBP	• Geopulse Compact OTS

4.3. Survey Room Layout

Very large and technological Survey data processing and acquisition rooms are located inside the Vessel, in the forecastle deck.



5. DECK EQUIPMENT

5.1. Deck Cranes and Lifting Equipment

Crane	Lifting Capacity [SWL]
Electro-hydraulic Stbd crane Fore castle	1.5 T @ 15 m
Electro-hydraulic Port side telescopic	7.8 T @ 4.5 m 1.5 T @ 16.6 m
A-Frame (located at Port side)	9.0 T

5.2. Cable sheave

Sheave	Diameter
Stern sheave	2.0 m

5.3. Winches

Crane	Lifting Capacity [SWL]
Anchor Mooring winches	2 Fore – 1 Aft
CPT	MacArtney CPT Winch – 2 km CPT umbilical
SSS/SBP	SEATOW 6000 electrical – 6 Km cable length
CORING	Motive Offshore 2020 – 2 km cable length
SVP	F Castle deck Tugger winch

