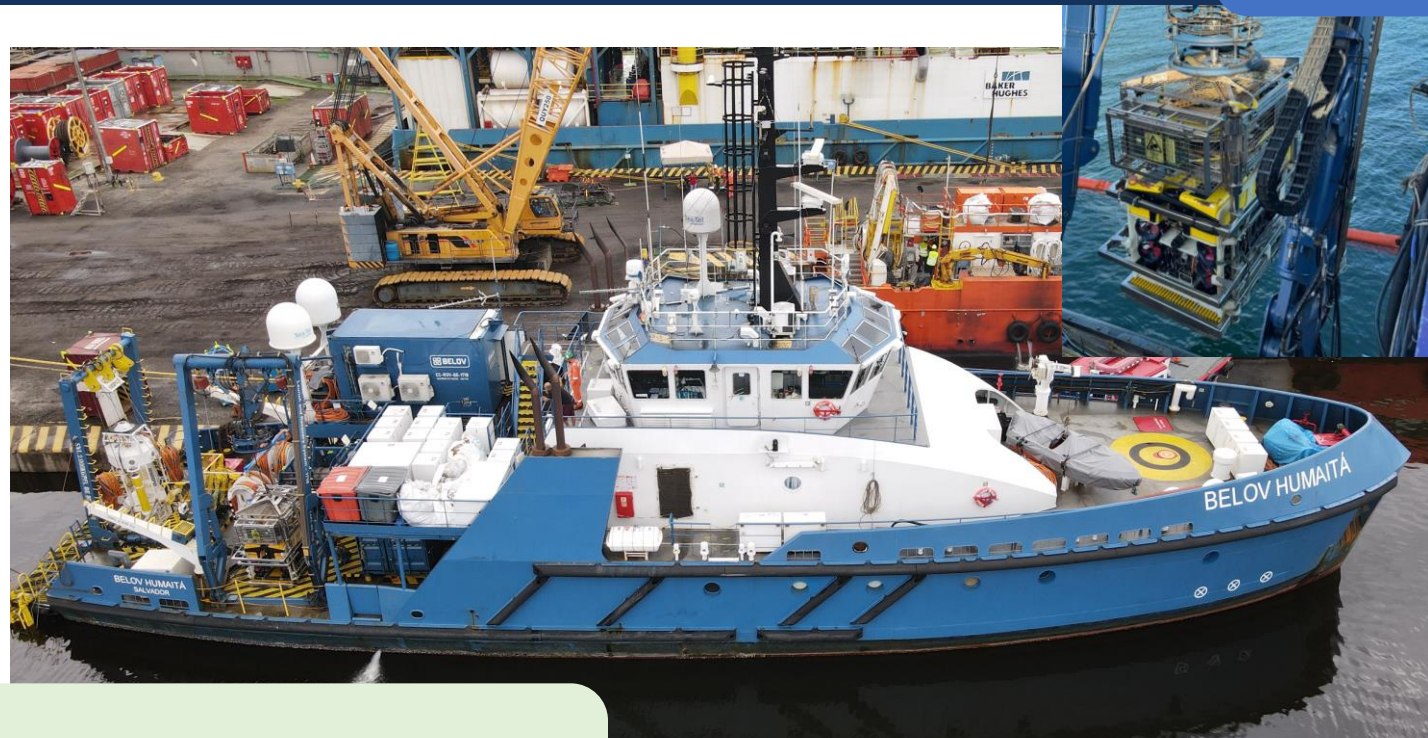


DSV Belov Humaitá

AIR DIVING WITH LIGHT WORK CLASS VEHICLE



This DSV, designed by Robert Allan – Naval Architects and Marine Engineers (RAL), is the first diesel-electric of its class in Brazil. The DP-2 rated vessel is fitted with air diving capabilities, a light work-class ROV and knuckle-boom crane to allow effective offshore operations. The propulsion includes three main waterjets and three tunnel thrusters, which allow safe diving conditions while divers are near the surface.

REGISTRATION

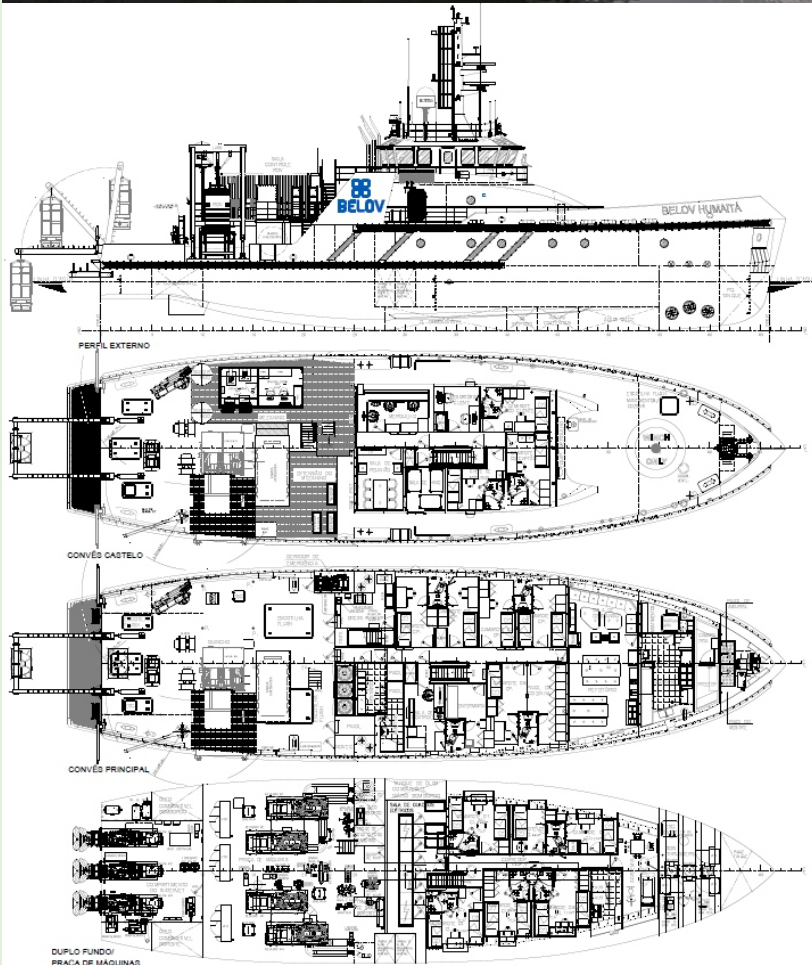
Vessel Name: BELOV AMARALINA
Builder: BELOV Offshore Industrial Ltda
Type: DP-2, RAL 218-010 (Petrobras SDSV).

Class: RINA. Special Service – Dynapos-AM/AT-R, Diving Support, unrestricted navigation, AUT-UMS

Year: 2020 / Flag: Brazilian

Diving Support Vessel, Unrestricted navigation,

Owner: BELOV ENGENHARIA S.A.



TECHNICAL SPECIFICATIONS

BELOV AMARALINA



MAIN PARTICULARS

DIMENSIONS

Length overall:	40.50 m
Breadth moulded:	10.98 m
Depth:	3.85 m
Draft:	2.80 m
Deadweight:	518.1 t
Net tonnage:	149
Gross tonnage:	499

CAPACITIES

Deck capacity:	5.0 t/m2
Fuel oil :	90,5 m3
Fresh water*:	23,5 m3

Diesel oil filtration systemGEA Westphalia with CJC separator

*Includes redundant fresh water generators (reverse osmosis).

ACCOMMODATIONS

Accommodation for:	35 pax
Cabins:	14
Hospital:	1
1 mess room, laundry, galley, stores, diving control room, ROV control room, 1 office, change room, gym.	

MACHINERY / PERFORMANCE

PROPULSION - MACHINERY

Main generators:	4 x 565 kW
Emergency generator:	1 x 96 kW
Main waterjets:	3 x 520 kW
Bow tunnel thruster:	3 x 150 KW

REMARK: Vessel is diesel-electric

PERFORMANCE

Trial speed :	11 knots
Economic speed:8 to10 knots

EQUIPMENT & ELECTRONICS

DECK EQUIPMENT

Main knuckle boom crane: 1 MELCAL Offshore Crane Foldable Telescopic Boom, Model FL20T1:

- Luffing:	Min/Max boom angle (degrees) - -45/78°
- Slewing range:	360°
- Load capacity @ 6.15 m (max):	1400 kg
- Load capacity @ 4.30 m:	2000 kg

AIR DIVING EQUIPMENT (50 m depth)

Diving A-frame with open bell	3.0 ton
Man-rider Winches by Ekron model EKPH-MR-2,5T.....	2 x 2.5 ton
Decompression chamber model Deco 1800 by Totalmat	1 each
Air quads, compressor, filters, etc	

ROV EQUIPMENT

ROV A-frame	2.0 ton
ROV AHC Winch Ibercisa Model MO-E/75/1000-26,72	1 each
Light Work Class ROV: Leopard by SAAB Seaeeye, 2000 m depth* rated, payload up to 205 kg, FW thrust 500 kg, vertical thruster 200 kg, including 2 x 7 f manipulators (Orion), waterjet, cavitation cleaning, CP probe, UTM, hydraulic circuit 40 l/min @ 200 BAR, various tools, etc.	

*Ibercisa winch drum limited to 1000 m of cable

SAFETY EQUIPMENT

Life raft:	2 x auto inflatable for 20 persons each
Life vests:	47 x class 2

PORTABLE CURRENT METER

Valeport 106 portable current meter	1 x 50 m depth
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ELECTRONICS

NAVIGATION
Radar / ECDIS,
Gyrocompass,
Magnetic compass,
Speed log,
Autopilot,
GPS,
2 DGPS (for DP),
Echo sounder,
AIS,
GMDSS,
Inmarsat C
Radio VHF Class A
VSAT



DYNAMIC POSITIONNING SYSTEM

- 1 Kongsberg DP system (class 2) comprising:
- 2 DGNSS (combined GLONASS and DGPS), including Follow target function, motion prediction and DP capability analysis functions.
 - 1 Cyscan
 - 1 RadaScan,
 - 2 UPS
 - 4 MRU-PD, 3 wind sensor
 - 2 INS (inertial navigation system) MGC R1

ALARM & MONITORING SYSTEM

1 WEG IAMCS system control: Engines, main and emergency generators and thrusters
1 K-IMS (Kongsberg Information Management System): heading, wind, motions, DP alerts

CCTV

CCTV system covering:
Deck, ROV LARS, diving LARS, wheelhouse, engine room, subsea images from ROV and diving, DP system supervision and engine room control

Particulars may change without previous notice.

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