

# DSV BELOV HUMAITÁ

Air Diving with Light Work Class ROV

# BELOV



THE ROYAL  
INSTITUTION  
OF NAVAL  
ARCHITECTS

Awarded a  
2020 Significant  
Small Ship  
by RINA

DSV designed by Robert Allan – Naval Architects and Marine Engineers (RAL). First Brazilian diesel-electric diving support vessel. 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

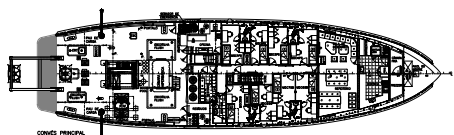
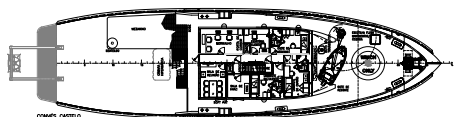
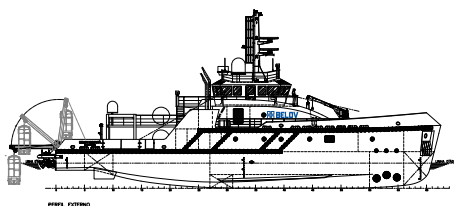
*Vessel Name:* BELOV Humaitá  
*Type:* Diving Support Vessel (Petrobras SDVS)

*Class:* RINA C<sup>+</sup>SPECIAL SERVICE-DYNAPOS-AM-R, DIVING SUPPORT, UNRESTRICTED NAVIGATION, AUT-UMS

*Year:* 2020

*Builder:* BELOV Offshore Industrial Ltda.

*Owner:* BELOV Group



MAIN PARTICULARS

DIMENSIONS

Length overall	40.50 m
Moulded breadth	10.98 m
Depth	3.85 m
Draft	2.80 m
Deadweight	518.10 t
Net tonnage	149
Gross tonnage	499

CAPACITIES

Deck capacity	5.0 t/m <sup>2</sup>
Fuel oil	90.5 m <sup>3</sup>
Fresh water*	23.5 m <sup>3</sup>

\*Includes redundant fresh water generators (reverse osmosis)

ACCOMMODATIONS

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

Diesel oil filtration system: GEA Westphalia with CJC separator	
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OPERATION

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

PERFORMANCE

Trial speed	11 knots
Economic speed	8 to 10 knots
Remark: vessel is diesel-electric	

EQUIPMENT & ELETRONICS

DECK EQUIPMENT

Main knuckle boom crane: 1 MELCAL Offshore Crane Foldable Telescopic Boom (Model FL20T1)			
Luffing (min/max boom angle)	-45/78°	Load capacity @ 6.15 m (max)	1.400 kg
Slewing range	360°	Load capacity @ 4.30	2.000 kg

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

ELETRONICS

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

GENERAL EQUIPMENT

Black water pump	1 x 5 m <sup>3</sup> /h
Gray water pump	1 x 5 m <sup>3</sup> /h
Ballast pump	2 x 130 m <sup>3</sup> /h
Bilge water separator	1 x 1 m <sup>3</sup> /h

SAFETY EQUIPMENT

Life raft: 1 x auto inflatable for 20 people	
Life vests: 47 x class 2	
Fire-fighting/black water pump 2 x 55 m <sup>3</sup> /h	
Emergency fire-fighting pump 1 x 25 m <sup>3</sup> /h	

DIVING EQUIPMENT

AIR DIVING EQUIPMENT (50 M DEPTH)

Diving A-frame with open bell	3.00 t
Man-rider Winches by Ekron model EKPH-MR-2,5T	2 x 2.50 t
Decompression chamber model Deco 1800 by Totalmat	1 each

Air quads, compressor, filters, etc.

ROV EQUIPMENT

ROV A-frame	2.00 t
ROV AHC Winch Ibercisa Model MO-E/75/1000-26,72	1 each

Light Work Class ROV:

Leopard by SAAB Seaeye, 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

PORTABLE CURRENT METER

Valeport 106 portable current meter	1 x 50 m depth
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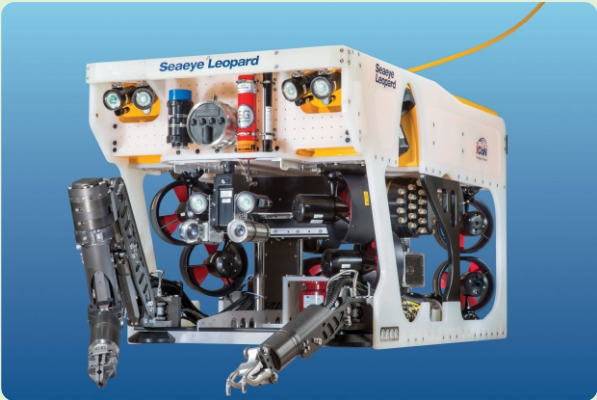
DYNAMIC POSITIONNING SYSTEM

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

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.





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