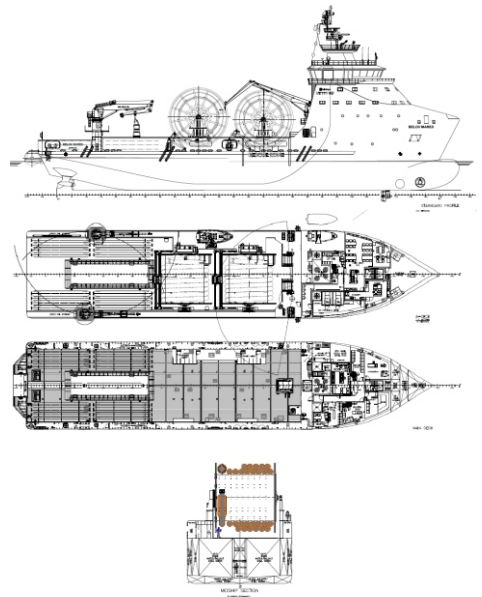


OTSV Belov Mares

Oceanic Terminal Supply Vessel



This OTSV is a Rolls-Royce design UT771 WP is a medium-sized offshore transfer supply vessel which undertakes supply duties between land bases and offshore installations. The model is designed for diesel electric medium or high-speed machinery and azipull propulsion system. The cargo deck area with two cranes, well protected and a deckload of 10 t/m².



REGISTRATION

Vessel Name: BELOV Mares
Builder: COSCO SHIPING HEAVY INDUSTRY (GUANGDONG) CO, LTD
Type: DP-2, Ut771 WP OTSV
Class: RINA. Offshore Supply Vessel; unrestricted navigation
Year: 2022
Flag: BRAZIL
Owner: BELOV Engenharia S.A.

MAIN PARTICULARS

DIMENSIONS

Length overall	88.45m
Breadth moulded	18.00m
Depth	7.80m
Summer Draft	5.80m
Deadweight	2998 T
Net tonnage	1299
Gross tonnage	4202

CAPACITIES

Deck capacity	10.0 t/m ²
Fuel oil	600m ³
Fresh water*	322m ³

ACCOMMODATIONS

Accommodation for	46 pax
Cabins	45
Hospital	1

2 mess rooms, laundry, galley, stores, CCM, 2 offices, change room, gym.

Diesel oil filtration system:
Alpha with CJC separator

*Includes redundant fresh water generators (reverse osmosis)

EXTRA RESOURCES

Offloading hose line flushing/pressure test system: flow 500 m³/h
Inerting system (Nitrogen): pressure 5kgf/cm² and volume 80m³

OPERATION

PROPULSION - MACHINERY

Main generators	2 x 1480 kW
Main generators	2 x 990 kW
Emergency generator	1 x 250 kW
Main propeler	2 x 1600 kW
Azimuth thruster	1 x 725 kW

PERFORMANCE

Trial speed	13 knots
Economic speed	10 to 13 knots

Remark: vessel is diesel-electric

SAFETY EQUIPMENT

Life raft: 6 x Self-inflating for 25 persons each • Life vests: 55 x class II

1 x Rescue Boat and Davit System Palfinger FRB 610 60HP

Type	Fast rescue boat
Building Material	GRP**
Capacity (max. FRB)	8 persons
Loa x Boa x H (m)	6.10 x 2.20 x 2.28
Boarding position	Inboard
Safe Working Load (SWL)	1800 kg
Trim/list conditions	10°/20°
Std. lowering height	19 m (at 0° / 0°)
Max. lowering/ hoisting speed	Hydraulically 18 m/min

1 x Work Boat and Davit System Viking Magnum-750MKII

Type	Fast rescue boat
Building Material	GRP**
Capacity (max. FRB)	15 persons
Loa x Boa x H (m)	7.70 x 2.90 x 2.85
Boarding position	In/outboard on deck level
Safe Working Load (SWL)	400 kg
Trim/list conditions	10°/20°
Max. lowering height	43 m***
Min. hoisting speed	Hydraulically 18 m/min

Glass fiber Reinforced Polyester; *Including 10°/20° trim/list condition

DECK EQUIPMENT

1 x Cylinder Luffing knuckle Jib Crane, Model GPK 115-3-16

Lifting capacity	3 T
Working radius MAX	16.0 m
Working radius MIN	2.1 m
Lifting speed with SWL	10.0 m/min
Lifting speed Light load	10 m/min
Lifting height	40.0 m
Luffing time	80 sec
Slewing sector	360° Unlimited
Slewing speed	0.6 rpm
Heel + trim conditions	5°/ 2°
Weight of crane	8.4 T

2 x Hydraulic Knuckle Boom Marine Crane, Model DMW-10T17M-KB

Lifting capacity	10 T at 17 m
Minimum working radius	3m
Maximum working radius	17m
Hoisting height	40m
Hoisting speed	0~12m/min
Slewing speed	0.7r/min
Slewing range	360°
First luffing time	90 sec
Second luffing time	75 sec

Strauss Hydraulic Work Winch

Traction Capacity	100 tf
Cable Diam	97 mm
Cable Capacity	5000 m
Nominal Speed	0-9 M/Min

2 x Rope storage Winch

Nominal Speed	0 - 15 M/Min
Rope Capacity Ø97mm	500m
Brake Capacity	8ton
Rotation	right/left
Command	local
Drive	electric
Work Power	40cv

2 x Offloading Hose Reel with spooling gear

Static Brake Capacity: 70 ton
 Dynamic Traction Capacity on First Layer: 50 ton @ 13m/min
 Dynamic Brake Capacity in First Layer: 60 ton @ 52m/min
 Hose Capacity: 400m - 20" Double Carcass Floating Hose with 20" HEV

2 x Deck Capstan

10 tonnes' pull	at 0 - 12 m/min
Light line	at 0 - 14 m/min

2 x Tugger Winch

10 tonnes' pull	at 0 - 19 m/min
Slack rope	at 0 - 73 m/min
Lowering speed	at 0 - 75 m/min

2 x Stern Winch EKRON

15 tonnes' pull	at first layer
10 tonnes' pull	at first layer

Crude Oil Recover area (16 m x 4 m)

Capacity	200 m ³
Discharge flow rate	250 m ³ /h at 40 mca
Drainage flow rate	200 m ³ /h

Offloading Hose Storage area

Capacity: 2 piles DN 20 inches at each board side

Two combined Karm Fork & Towingpins

Safe Work Load: 160t

EQUIPMENT & ELETRONICS

SEA CONDITIONS MEASUREMENT INSTRUMENTS

Valeport 106 portable current meter
Wave Height Measurement

1 x 50 m depth
1 x WS-PD Atlantec Drakkar

DYNAMIC POSITIONNING SYSTEM

1 Rolls Royce DP system (class 2) comprising:

- 2 DGNSS (combined GLONASS and DGPS), including Follow target function, motion prediction and DP capability analysis functions
- 2 Cyscan
- 2 UPS
- 3 VRU-PD, 3 wind sensor
- 3 Gyrocompass

ALARM & MONITORING SYSTEM

1 Rolls Royce ACON IAS MU system control: Main engines, propellers and thrusters, UPS

CCTV

CCTV system covering: deck, wheelhouse, engine room, bridge and engine room control

ELECTRONICS / NAVIGATION EQUIPMENT

AIS	1x Furuno FA-170
Auto Pilot	1x Raytheon NAUTOPILOT 5100
DGPS	2x Furuno GP-170
Echo Sounder	1x Furuno FE-800
ECIDS	1x Furuno FMD 3300
EPIRB	2x Jotron TRON 60GPS
GYRO	3x Raytheon Digital Gyro STD 22
GMDSS Radio Console	1x Furuno RC-1800T
GMDSS VHF	2x Furuno VHF FM-8900S
TWO-WAY VHF	3x Mcurdo R5
GSM	1x Terminal 2N EasyGate Fax
HF/MF/SSB	1x Furuno FS-1575
Inmarsat-C	1x Furuno FELCOM 18
Magnetic Compass	CASSEN E PLATH BBC180
Odometer	1x Furuno DS-80
Radar	2x X Band Furuno FAR-3320 / S Band FAR-3330S
SART	2x Mcurdo S5
SSAS	1x Furuno FELCOM 18
Portable VHF	3x ICON/ IC- M73
VDR	1x Furuno Vr7000
Portable UHF	4x ICON F4032T
DMC	1x ICON Ic350
Marine VHF	1x ICON/ IC- M200
Fixed UHF	5x Motorola Gm338
Portable UHF	2x Entel Ht583
Telegraph	1x Rolls Royce MT1-144
Whistle	1x Zöllner Makrofon M75F
Anti-roll system	1 x Hoppe Marine
InterCom System	1x MPA1600 & LOUDHAILER & ICS6200 PA/GA System & Loudhailer System & Auto



www.belov.com.br

Matriz - Escritório Central

Rua Quinta dos Lázaros, nº 50 - Quintas, Salvador - BA
CEP: 40303-300
Telefone: (71) 3416.1900

Canteiro Marítimo de Mapele - CMM

Rua do Túnel s/n, Mapele - Simões Filho - BA
CEP :43727-050
Telefone: (71) 3416.1970

Base Macaé

Avenida Nossa Senhora da Glória nº1181 - 4º andar - Praia Campista
Macaé - RJ - CEP: 27923-215
Telefone: (22) 2773.4023

Base Guapimirim

Estrada Martha Alcântara Fares nº3000, Lote 40, Bairro/Distrito Cotia
Guapimirim - RJ - CEP: 25947-040
Telefone: (21) 2632.4683

