

PRYSMIAN MONNA LISA

THE MOST ADVANCED CABLE LAYING VESSEL IN THE WORLD



DESCRIPTION

Prysmian Monna Lisa is a DP3 ship built for the most challenging worldwide cable installation works. With her two carousels of 10,000 tons and 7,000 tons load capacity and her capstan able to sustain a maximum tension of 100 tons, the vessel is equipped to conduct the deepest power cable lay up to 3,000 m water depth.

Moreover, she can also be used on any kind of offshore projects - from shallow to deep waters - including cable burial with a wide range of ROV vehicles.

The vessel is designed with an operation endurance of 90 days and max speed 16 knots.

The accommodation for 120 people is designed to offer comfort, ample working spaces and recreational areas for all personnel, including fully equipped gym, auditorium, game room, dayroom and officers lounge.

TECHNICAL SPECIFICATIONS



BURIAL TOOLS

Prysmian Monna Lisa can be equipped with Prysmian's Hydroplow, Heavy Duty Plough and Seamole, to carry out simultaneous lay and burial or post lay burial operations, dependent upon project requirements. The vessel can also be a platform for state-of-the-art jet trenching ROVs and Mass Flow Excavator tools.



VESSELS KEY FEATURES

Classification:

CxHULL xMACH, Cable laying ship, DYNAPOS-DP3, HELIDECK, COMF-NOISE CREW A, COMF-VIB CREW C, COMF-AIR, PMS, GREEN PLUS, AUT-UMS, FATIGUE LIFE (30), MANOVR, CARGO HANDLING, DANGEROUS GOODS, SPS, HYB-E (20.93 / 9.6), INWATERSURVEY, HVSC-NB

Cable Laying capabilities:

- Bundled cable laying
- Simultaneous laying and burial
- Cable jointing facilities in a covered area of about 240 m² (30x8 m)
- Designed for laying power cables up to 3,000 m water depth

DP capabilities:

- DNV ST-0111 level 1 DP3 (9,7,7,6)
- RINA SKC DP3 (STD, 7, 6, 9, 8)

Green credentials:

- High Voltage Shore Connection
- Energy Storage System: 3 MW batteries
- NOx reduction: SCR
- Diesel Generators ready for biodiesel blends

Propulsion system:

- 3 x Aft Azipod® 3.2 eMW each
- 2 x Forward Retractable Azimuth Thrusters 2.4 eMW each
- 2 x Bow Tunnel Thrusters 2.5 eMW each

Carousels:

- Aft 10,000 tons load capacity
- Fwd 7,000 tons load capacity
- Max combined load above 14,000 tons

Cranage:

- 100 tons AHC offshore crane
- 20 tons offshore crane

A-frame assembly:

- 85 t A-frame with 200 t AHC towing winch

Two enclosed hangars for work class ROV's

Helideck certified for take-off and landing of Sikorsky S92 type (18 pax) and AW 101

TECHNICAL SPECIFICATIONS

PRINCIPLE DIMENSIONS

Length overall:	171 m
Breadth moulded:	34 m
Summer draught moulded:	8.5 m
Deadweight:	19360,80 tons
Max displacement:	36500 tons
Gross Tonnage:	27998 tons
Bollard Pull:	200 tons

CABLE OPERATIONS KEY FEATURES

Capacity:	10,000 tons 7,000 tons
Core Diameter:	6 m
Outer Diameter:	Aft carousel 28 m Fwd carousel 24 m
Tank Height:	9 m

CAROUSEL LOADING TOWER

3 m MBR Pick up Arm with motorised cable engine

STATIC TANK

Static tank for Fibre Optic cables 500 tons capacity

STARBOARD LAYING LINE

DOHB machine	Caterpillar "pads" type 5 tons and 3 tons
Capstan:	6 m diameter and 100 tons max pulling tension
Stern sheave:	6 m diameter fitted with dynamometer

PORTSIDE LAYING LINE

Linear machine:	Caterpillar "pads" type 25 tons
Stern sheave:	6 m diameter fitted with dynamometer