

PRYSMIAN ALESSANDRO VOLTA

DP3 CABLE LAYING VESSEL



DESCRIPTION

Prysmian Alessandro Volta is a DP3 ship built for the most challenging worldwide cable installation works. With her three carousels for a total load capacity of 19,000 tons and her system of tensioners able to sustain a maximum tension of 60 tons, the vessel is equipped to conduct the power cable lay up to 1500 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 tools.

The vessel is designed with an operation endurance of 90 days and max speed above 16 knots. The accommodation for 130 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

SPECIFICATIONS

Propulsion system:

- 3 x Aft Azipod® 4 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 10,000 tons load capacity
- Below deck 6,000 tons load capacity
- Max combined load above 19,000 tons

Craneage:

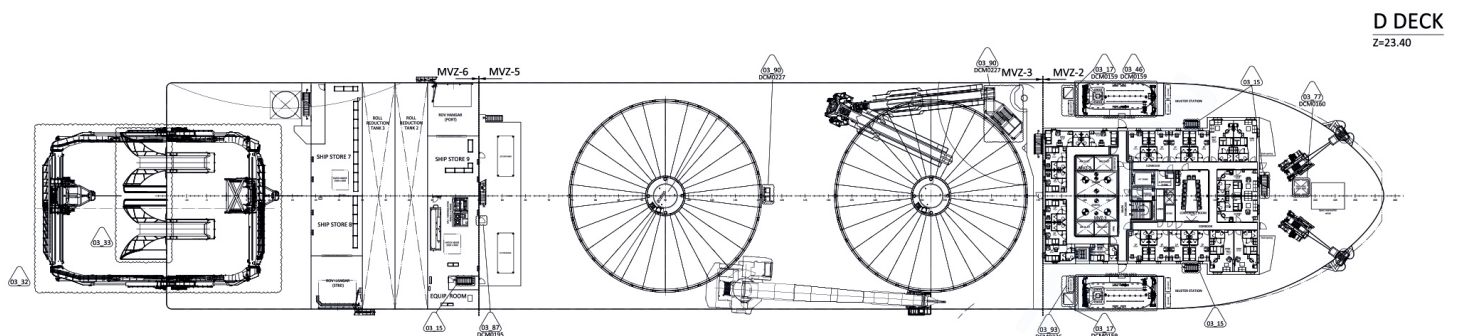
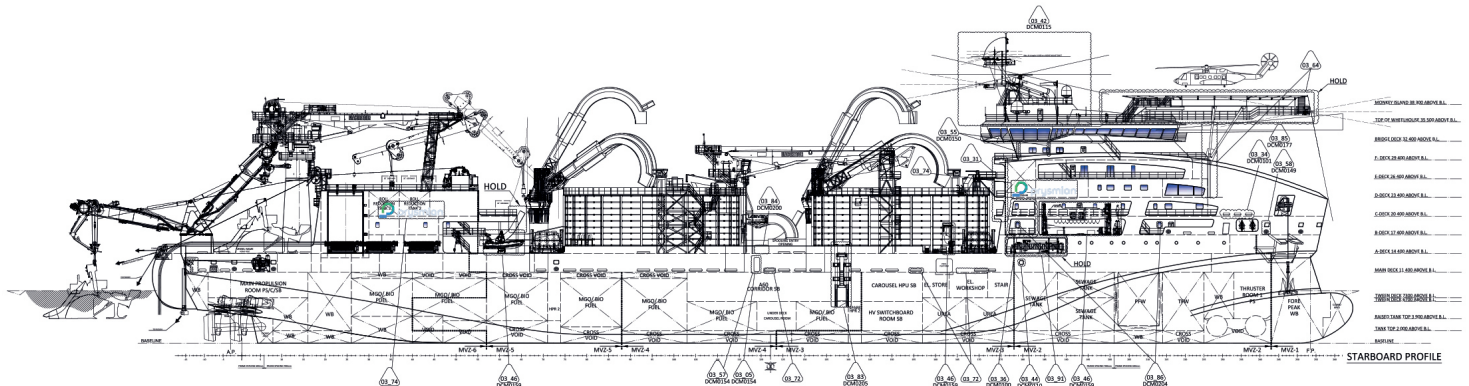
- 100 tons AHC offshore crane
- 20 tons offshore crane

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



D DECK
Z=23.40

TECHNICAL SPECIFICATIONS



VESSELS KEY FEATURES

Classification:

C&HULL &MACH, 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 (22.13 / 12), INWATERSURVEY, SHORE CONNECTION (HVSC-NB)

Cable Laying capabilities:

- 3+2 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 1,500 m water depth

DP capabilities:

- DNV ST-0111 level 1 DP2 (8,7,7,6)
- DNV ST-0111 level 1 DP3 (8,7,7,5)

Green credentials:

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



PRINCIPLE DIMENSIONS

Length overall:	192.8 m
Breadth moulded:	34 m
Summer draught moulded:	8.4 m
Deadweight:	21500 tons
Gross Tonnage:	34215 tons
Bollard Pull:	220 tons



BURIAL TOOLS

Prysmian Alessandro Volta 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.

CABLE OPERATIONS KEY FEATURES

Aft Carousel

Capacity:	10,000 tons
Core Diameter:	10 m
Outer Diameter:	28 m
Tank Height:	10 m

Fwd Carousel

Capacity:	10,000 tons
Core Diameter:	10 m
Outer Diameter:	28 m
Tank Height:	10 m

Below Carousel

Capacity:	6,000 tons
Core Diameter:	6 m
Outer Diameter:	Aft carousel 24 m
Tank Height:	4 m

CAROUSEL PICK UP ARM (fore and aft)

5 m MBR Pick up Arm with motorised cable engine

CAROUSEL PICK UP ARM (below)

3 m MBR Pick up Arm with motorised cable engine

STATIC TANK

Static tank for Fibre Optic cables 500 tons capacity

STARBOARD LAYING LINE

Linear machine	Caterpillar "pads" type 60 tons
Stern sheave	10 m diameter fitted with dynamometer

PORTSIDE LAYING LINE

Linear machine:	Caterpillar "pads" type 25 tons
Stern sheave:	10 m diameter fitted with dynamometer