# barillec marine

**Energy booster** *Propulseur d'énergie*

# Navy – Multi-mission vessel (B2M)

## Main characteristics

D'ENTRECASTEAUX

| Type | Multi-Mission |
|---|---|
| **Overall length** | 64 m |
| **Breadth** | 14 m |
| **Maximum speed** | 13 knots |
| **Crew** | 20 people + 20 people |
| **Propulsion** | Diesel – controllable pitch propeller |
| **Classification** | BV, AUT-IMS, AVM-DPS, SYS-NEQ, SYS-IBS, DYNAPOS-AM |

## Scope of services and deliveries

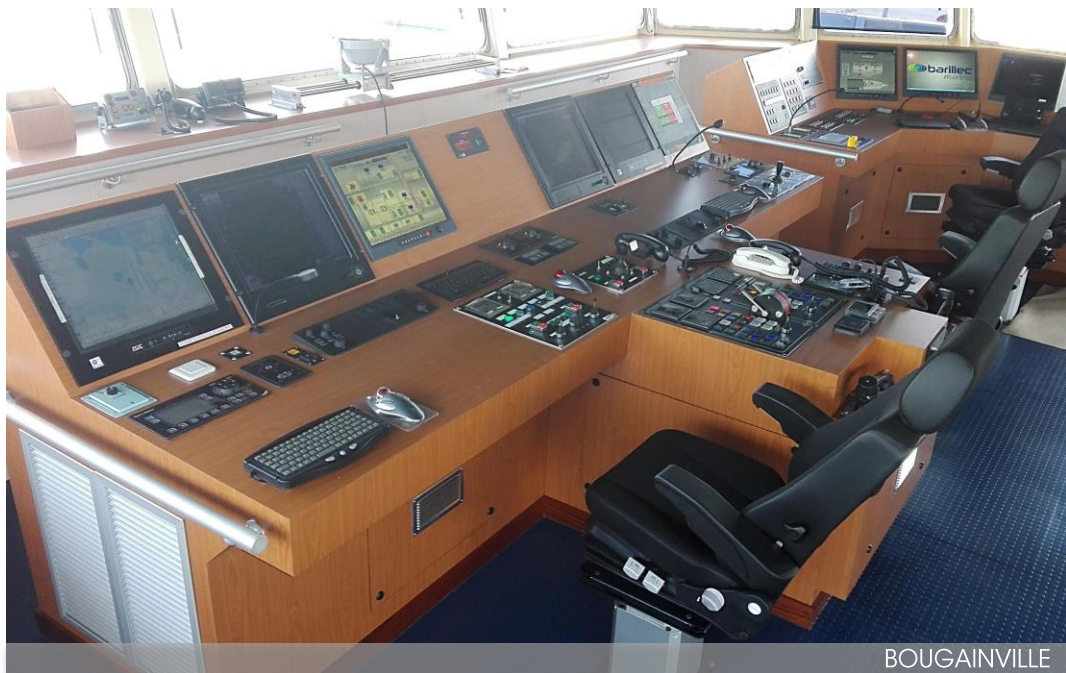**Power distribution** — **Power generation & PMS** — **Navigation & communication** — **Automation**

**BARILLEC marine, as global electrical contractor for Piriou shipyard, has designed, delivered and commissioned the electrical systems onboard 3 multi-mission vessels "D'Entrecasteaux", "Bougainville" and "Champlain" for the French Navy :**

- **Electricity**
  - Production, energy management and distribution
- **Propulsion**
  - Control and monitoring system of the controllable pitch propeller and gearbox
  - **Automation**
    - Control, monitoring and supervision

- **Voice Data Image - VDI**
  - General alarms and broadcast, police orders broadcast, CCTV, self-powered phones, anti-intrusion system and TV entertainment.
- **Radionavigation:**
  - Navigation systems and GMDSS communication systems

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Engineering and services

BOUGAINVILLE

- **Electricity:**
  - 2 shaft generators:  440V – 60Hz – 340kVA each
  - 2 gensets : 440V – 60Hz – 340kVA each
  - 2 shore power supplies : 440V – 60Hz – 300A each
  - 1 emergency generator: 440V – 60Hz – 265kVA

- **Propulsion:**
  - 2 diesel propulsion engines: 1300kW – 1 800rpm each  (saving mode 1200rpm)

- **Automation:**
  - Control, monitoring:  1500 digital and analog I/O
  - Supervision : 5 control and monitoring stations

- **Radionavigation :**
  - Navigation systems: navigation radar , ECDIS, GPS, AIS, VDR, etc.
  - GMDSS communication systems : LRIT, transponder radar SART, EPIRB, etc.

Design and engineering of navigation equipment integration in accordance with  BV : SYS-IBS, SYS-NEQ

- **Voice Data Image - VDI :**
  - Monitoring and recording  of 24 full HD cameras  distributed over an IP network
  - Entertainment TV: Satellite and terrestrial TV, multimedia broadcast

● Green technology      ● Innovative design      ● Worldwide service

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