Missions

Representing a key element in a naval force, FREMM can counter all current and future air and naval threats thanks to her exceptional platform characteristics and the powerful SETIS® combat system.

FREMM by DCNS directly inherits her capabilities from the world-renowned La Fayette class stealth frigates, the long experience in Combat Management Systems (CMS) including the development of the combat-proven Charles de Gaulle aircraft carrier CMS and DCNS’ SSBN experience in acoustic signatures reduction.
FREMM offers superior combat capabilities in all warfare domains through a combination of platform-related assets, thus strengthening the tactical advantage over all types of threats:

- exceptional stealth qualities with covered decks, masked openings and optimised hull shape for reduced Radar Cross Section (RCS);
- hybrid propulsion system for increased flexibility in operations:
  - electric motors for silent approaches and reduced acoustic signatures;
  - gas turbines for high-speed navigation and fast accelerations;
- large passageways, side doors and technical galleries for optimal flow management and easy maintenance;
- enhanced availability for maximum operational efficiency thanks to an optimised preventive maintenance cycle.

### FREMM

<table>
<thead>
<tr>
<th>Dimension</th>
<th>142 x 20 x 7.5 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>6,000 t</td>
</tr>
<tr>
<td>Propulsion</td>
<td>CODLOG or CODLAG</td>
</tr>
<tr>
<td>Speed</td>
<td>27+ knots</td>
</tr>
<tr>
<td>Range</td>
<td>6,000 Nm at 15 knots</td>
</tr>
<tr>
<td>Accommodation</td>
<td>From 145 up to 180</td>
</tr>
</tbody>
</table>

### CHARACTERISTICS

1. MFR (4 fixed panels or rotating)
2. ESM suite
3. Hull mounted sonar
4. Variable depth sonar or additional RHIBs
5. Panoramic IR system
6. Vertical launching system (32 cells SAM and/or NCM)
7. Main gun (76 up to 127 mm)
8. 8 surface-to-surface missiles
9. Short range weapon system (guns or missiles)
10. Torpedo launching system
11. Decoy launching system (EM, IR, ASW)
12. Jammers
13. UAS capability / hangar capacity for up to 2 helicopters
14. 2 special forces and rescue RHIBs
ENSURING NAVAL SUPREMACY

Massive firepower and networked operations
FREMM is fitted with a fully-integrated combat system and delivers remarkable performance to simultaneously counter multiple and saturating attacks in all warfare domains (land attack, AAW, ASW, ASuW, ASyW and Cyber).

Extended performance
SETIS®’s integrated command aids improve the crew’s ability to react quickly in extreme, rapidly changing conditions – such as high intensity combat situations – and to take decisive action when commanding a naval force at sea.
The new sensors provide complete airspace coverage. Fixed panel AESA radars detect all targets, including within the littoral environment and under adverse weather conditions.

Increased survivability
Resilient and sea proven, the SETIS® combat system provides a high level of reliability with rapid reconfiguration protocols and back-up modes to return to full operational capacity, even in the event of combat damage.
The ship’s high level of redundancy also includes a secondary fully autonomous propulsion system and the integration of a large array of decoys, providing FREMM with a decisive tactical advantage in combat.

Ready for the future
Through her scalable platform and SETIS®’s open architecture, FREMM is ready to integrate ground-breaking technologies such as armed UAS for extended combat performance or enhanced antiballistic missile defence.
FREMM will also benefit from DCNS research and development investments to improve shipboard operation management. Upcoming innovation projects include – amongst others – cyber-defence solutions.

Tanding as a key element of a naval force, FREMM is fully interoperable within all coalitions and can also accommodate a joint command head quarter. FREMM combat system fully integrates NATO and national Tactical Data Links (TDL), allowing high-scale networked operations and maximum interoperability with other ships and shore-based command centres.
Programme underway

Four FREMMs have already been delivered on schedule, respectively to the French (2), Egyptian and Royal Moroccan Navies. FREMMs are sea-proven warships with a total of 10 vessels being built in DCNS’ French shipyard.

Designed to reduce through-life costs with optimised manning, easy maintenance and innovative systems, FREMM by DCNS is the best choice for navies wishing to strengthen their naval capabilities.

As a whole warship integrator, DCNS offers cost-effective, robust, stealthy and powerful ships with customised services such as on board training, in-country construction and technology transfer.