



Bergamini Class

FREMM - European
Multi-Mission Frigate

FINCANTIERI

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FREMM - European
Multi-Mission Frigate

_ main characteristics

— The FREMM (European Multi-Mission Frigate) is a joint Italian/French program designed to develop a new generation frigate. The agreement provides for Italy to build 10 vessels: 6 frigates in the GP - General Purpose variant, capable of operating in a wide range of scenarios, and 4 frigates designed with ASW - Anti Submarine - capability. FREMM customized versions have also been sold to foreign Navies confirming the technological leadership of this project.

Length overall.....	144.00 m
Length between perpendiculars.....	132.50 m
Max breadth.....	19.70 m
Full load displacement.....	abt. 6,500 t
Draft.....	5.10 m
Max continuous speed (GT mode).....	≥27 kn
Max continuous speed (Electric mode).....	16 kn
Max speed (auxiliary propulsion).....	7 kn
Range at 15 kn.....	6,000 nm
Endurance.....	45 days
Crew.....	145 people
Total accommodation.....	200 people

ENERGY AND PROPULSION SYSTEM

Propulsion System CODLAG with:

.....	1 x 32 MW Gas Turbine
.....	2 x 2.2 MW EPM
Electrical Generating System.....	4 x 2.1 MWe DD/GG
Propellers.....	2 FCPP
Azimuthal propeller.....	1 electrical driven

HELO CAPABILITIES

Flight deck and 2 hangars..... for EH101/NH90

_ combat system

FINCANTIERI

Head Office

Via Genova, 1 - 34121 Trieste (Italy)
ph. +39 040 3193111

Naval Vessels

Via Cipro, 11 - 16129 Genova (Italy)
ph. +39 010 59951 - MM-COM@fincantieri.it

fincantieri.com

ANTI SUBMARINE WARFARE (ASW)

- 1 Combat Management System
- 1 Bow Mounted Sonar
- 1 Mine Avoidance Sonar
- 1 Underwater Telephone
- 2 25 mm machine guns
- 1 Torpedo Launching System (2 triple launchers)
- 1 Anti-Submarine Rocket System (2 x 2)
- + 1 Surface to Surface Missile (2 x 2)
- 1 Vertical Launching System (2 x 8 A43 or A50)
- 1 Torpedo Decoy Launching System (2 launchers)
- 1 Variable Depth Sonar + Towed Array
- 2 76 mm Gun Strales
- 2 Fire Control System
- 1 Anti Air Warfare Decoy Launching System (2 launchers)
- 2 Navigation Radars
- 1 Communication - Electronic System Measure
- 1 Radar - Electronic System Measure
- 1 Radar - Electronic Countermeasures
- 1 Multifunctional Radar
- 1 Surface Surveillance Radar
- 1 Identification Friend or Foe
- 1 Transponder
- 1 Optronic system (only Infra-red)
- 1 Integrated Communication System
- 1 Navigation System

GENERAL PURPOSE (GP)

- 1 Combat Management System
- 1 Bow Mounted Sonar
- 1 Mine Avoidance Sonar
- 1 Underwater Telephone
- 2 25 mm machine guns
- 1 Torpedo Launching System (2 triple launchers)
- 1 Surface to Surface Missile (4 x 2)
- 1 Vertical Launching System (2 x 8 A43 or A50)
- 1 Torpedo Decoy Launching System (2 launchers) (fitted for)
- 1 Towed Array (fitted for)
- 1 76 mm Gun Strales
- 1 127 mm Gun
- 2 Fire Control System
- 1 Anti Air Warfare Decoy Launching System (2 launchers)
- 2 Navigation Radars
- 1 Communication - Electronic System Measure
- 1 Radar - Electronic System Measure
- 1 Radar - Electronic Countermeasures
- 1 Multifunctional Radar
- 1 Surface Surveillance Radar
- 1 Identification Friend or Foe
- 1 Transponder
- 1 Optronic system (only Infra-red)
- 1 Integrated Communication System
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