

F-100 FRIGATE

MAIN CHARACTERISTICS

·Length overall	146.70 m	·Full load displacement	5,900 t
·Maximum beam	18.6 m	·Draught	4.75 m
·Depth to main deck	9.8 m	·Total accommodation capacity	234



TOP OF THE CLASS

- The F100 frigate is specially optimized for:
 - The highest capability in AAW operations. Able to perform area (600 km radius) and local operations.
 - Operate as flag ship for a combat group in high threat scenarios.
 - Provide fleet protection and support to expeditionary forces, based on its capabilities in ASW/ASuW.

It is the first time that a frigate incorporates the powerful AEGIS CMS which manages the target detection, control and engagement sequence, through the AN/SPY-1D radar, the Command & Decision Systems and the ships Weapons Control System.

AEGIS PROVIDES A GREAT COMBAT CAPACITY INTEGRATING WEAPONS AND SENSORS

- Surface-to-air missile system is based on Evolved Sea Sparrow missile (ESSM) and Standard Missile SM-2MR Block IIIA which provides area defence.
- Vertical Launch System MK-41 with 48 Cells.
- Two quadruple launchers Harpoon surface to surface missile systems.
- Is equipped with MK 45 Mod 25 gun, controlled by the DORNA radar/electro-optic fire control system.
- Two 20mm machine guns.
- Two Mark 32 double torpedo launchers for MK 46 lightweight torpedoes.
- 1 Helo Sirkorsky Seahawk SH-60B LAMPS Mark III fitted for ASW/ASuW.
- Close In Weapon System(CIWS) (weight & space reserve).

Essentially F100 frigate is installing the same type of weapons and sensors than a 9,000 t destroyer, which makes it the most advanced and complete of its class.

COUNTERMEASURES

- Radar & Communications ESM/ ECM.
- Nixie torpedo countermeasures.
- 4x Decoy launchers (SRBOC MK-36).

PERFORMANCE

- Maximum speed + 28 kt
- Cruising speed 18 kt
- Range at cruising speed 4,500 nm
- Provisions endurance 30 days

PROPULSION PLANT

- CODOG type 2x 17,500 kw
- Gas turbines 2x 4,500 kw
- Medium speed diesel engines
- 2 shaft lines
- 2 CP propellers

SENSORS

- 3D multifunction radar AN/SPY-1D.
- Surface search radar AN/SPS-67.
- Navigation radar.
- 2 MK 99 radar illuminators.
- Dorna eo/Radar gun fire control system.
- IFF.
- Two optical target designation sights.
- Hull mounted sonar DE-1160 LF.
- Bathythermograph mk-8 and simas processing.
- Active Towed Array Sonar (ATAS) (weight & space reserve).

PROVEN DESIGN

- 4 units built and operating, and 1 under construction.

OTHERS

- Under water telephone
- AN/SQQ-28 lamps III with AN/SRQ4 helo link