

BAE SYSTEMS

INSPIRED WORK



The **Global** Combat Ship Australia

Transformational — Trusted — Formidable

The Global Combat Ship Australia (GCS-A) is a highly capable and versatile multi-mission frigate designed to support anti-submarine warfare, air defence and general purpose operations anywhere on the world's oceans.

The GCS-A is based on the Type 26 Global Combat Ship, a transformational anti-submarine warship that benefits from advanced digital design techniques and builds on the Royal Navy's formidable pedigree in anti-submarine warfare and extensive operational experience. This will ensure the GCS-A will be trusted to undertake a wide range of roles from humanitarian and disaster relief operations through to high intensity warfare.

GCS-A has been designed from the keel up to provide the latest technological advantages and with future growth in mind, to ensure this frigate will continue to be a potent asset for the Royal Australian Navy for decades to come.

The GCS-A incorporates years of investment and expertise that make it a formidable, near-silent anti-submarine warfare frigate. The entire design of the ship has been developed to ensure optimal stealth capability in all conditions. It will be constructed on a specifically developed acoustically quiet hull, and features unique sonar capabilities, modular digital design and open systems architecture to facilitate through-life support and upgrades as new technology develops.

Current Programmes

The UK program to build the fleet of eight Type 26 Global Combat Ships for the Royal Navy is well underway, with construction commencing in mid-2017. A joint team of over 1,000 engineers from BAE Systems and UK Ministry of Defence have spent in excess of 5,000 man-years of effort to mature the detailed design and support solution for the ship. The Type 26 will replace the UK's Type 23 frigates, with the first of class ship to enter service in the early 2020s and the Fleet to remain in-service with the Royal Navy until at least 2060. For SEA5000, BAE Systems will offer the GCS-A which will be enhanced to include Australian specified equipment.

Mission capability

The GCS-A has been designed to maximise its versatility and flexibility of operational roles. An example of this is the integrated Mission Bay and Hangar which is capable of supporting multiple helicopters, unmanned vehicles, boats, mission loads and disaster relief stores. A launcher can be provided for fixed wing UAV operation and the Flight Deck is capable of landing a Chinook helicopter for transport of embarked forces. In addition, the GCS-A will give the RAN unequalled endurance for deployed operations, it will support the full range of RAN air, surface and subsurface weapons systems, and it will bring advanced automated monitoring and control systems to reduce required manning levels during deployment.

Weapons and systems

- CEAFAR2 active phased-array radar
- Towed Array Sonar 2087
- Hull-Mounted Sonar 2150
- Mk-41 Vertical Launch System (32 cells) carrying Standard Missile 2 and Evolved SeaSparrow Missile
- RGM-84 Harpoon SSM
- 5in/62 Mk 45 Mod 4 medium-calibre gun
- Surface launched torpedos

Propulsion

- 2 x electric motors
- 4 high speed diesel generators
- Gas turbine direct drive

Complement

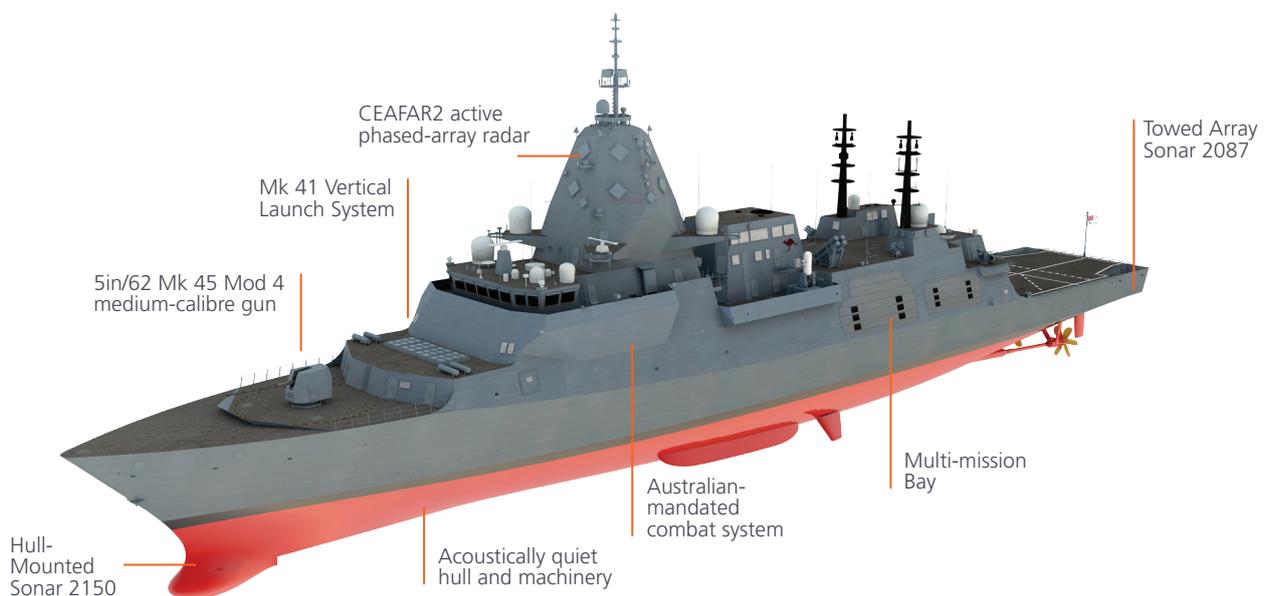
- 165 core complement
- Accommodation, health and recreation services for 208 crew

Main dimensions

- Displacement (Basic): 6,900 tonnes
- Length: 149.9 metres
- Maximum beam: 20.8 metres

Performance

- Top speed: 26+ knots
- Range: In excess of 7,000 nautical miles in Electric-Motor (EM) drive



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