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Rheinmetall Unveils GMF 140: The Next Generation of Multi-Mission Naval Combat Power

Rheinmetall today unveiled the GMF 140, a next-generation 140-metre, 6,000+ tonne guided missile frigate designed to deliver unmatched capability across the full spectrum of modern naval warfare. Developed to meet the evolving operational requirements of NATO and allied navies, the GMF 140 establishes a new benchmark for survivability, lethality and mission flexibility in the global frigate market. With the GMF 140, Rheinmetall is targeting international markets and intends to offer it initially as part of a procurement project in North America.

Purpose-built for operations in the world's most demanding threat environments, the GMF 140 combines advanced air and ballistic missile defence, anti-submarine warfare and long-range strike capabilities within a highly survivable, digitally integrated and minimum manned platform. The design is optimised for blue-water operations while retaining the flexibility to support expeditionary, littoral and coalition missions.



The GMF 140 is designed to integrate US sourced primary radar options to provide exceptional detection, tracking and engagement performance against conventional air threats, hypersonic weapons and ballistic missiles; the AEGIS Combat System; and 64 Strike-Length Vertical Launch System (VLS) cells, capable of employing the complete family of modern air defence, ballistic missile defence and land-attack missiles. This provides a level of battlespace awareness and fire control typically available only on significantly larger surface combatants. The GMF 140 can also be offered with other combat management systems such as the Lockheed Martin CMS330 Combat Management System which provides decisive

► Key facts

- The GMF 140 has been specifically developed for the requirements of NATO and allied navies seeking a highly capable, affordable and interoperable next-generation surface combatant.
- Its combination of integrated air and missile defence, ballistic missile defence, anti-submarine warfare and long-range strike capability positions it as one of the most advanced and capable frigates available in its class.

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and proven operational performance through an open, inter-operable and highly scale-able fleet wide combat management ecosystem that can support the integration of European sensor and weapon systems.

Designed from the keel up as a true multi-domain combatant, the GMF 140 incorporates advanced anti-submarine warfare capabilities, a low-signature hull, integrated acoustic management, hull mounted and towed sonar systems advanced sonar systems and support for embarked maritime US or European helicopters and unmanned systems.

The GMF 140 has been specifically developed for the requirements of NATO and allied navies seeking a highly capable, affordable and interoperable next-generation surface combatant. Its design is particularly well suited to nations modernising their fleets in response to increasingly complex security challenges across Europe, the North Atlantic and the Indo-Pacific.

Its combination of integrated air and missile defence, ballistic missile defence, anti-submarine warfare and long-range strike capability positions it as one of the most advanced and capable frigates available in its class.

Rheinmetall intends to offer the GMF 140 for a campaign in North America, potentially followed by other allied Navies seeking a highly interoperable, future-ready naval combatant capable of operating seamlessly alongside the world's leading naval forces.

About GMF 140

- Length: 140 metres
- Displacement: Approximately 6,000 tonnes
- Primary Missions: Anti-Air Warfare (AAW), Ballistic Missile Defence (BMD), Anti-Submarine Warfare (ASW), Long-Range Strike
- Combat System: AEGIS augmented with CMS330 as appropriate
- Primary Radar: US sourced air defence radar, in various optional configurations including full BMD tracking capability
- Vertical Launch System: 64 Strike-Length VLS cells
- Other Weapons and Sensors: Anti-ship missile, torpedo launcher, 5" main gun, laser, secondary armament, CIWS, EO, EW, towed and hull mounted sonar and decoy systems fully supported
- Missile Compatibility: Full range of air defence, ballistic missile defence and land-attack missiles
- Design Philosophy: Open architecture, future growth, NATO interoperability and high survivability