

Mine counter- measure vessels



SAAB

Mine countermeasure vessels



Efficient MCM vessels

Saab has decades of experience in Mine Countermeasure Vessels (MCMVs) and associated systems. MCMV 47 of the Swedish Landsort and Koster-class, as well as the Singaporean Bedok class, are well-proven around the world.

Main features of MCMV:

- Made of composite/glass fibre reinforced plastic (GRP) sandwich material, which has many benefits to offer, including that it is entirely non-magnetic.
- Equipped for mine hunting and mechanical minesweeping, and can operate the remotely controlled, autonomous Self-propelled Acoustic-Magnetic (SAM) minesweeping system.
- A versatile vessel that from the outset has been designed for easy adaptation to meet the varying demands of different customers.

The role of the Swedish Koster-class is primarily mine hunting. Its secondary role is minesweeping. Unlike single-role mine hunters, MCMV 47 Koster-class (originally Landsort-class) was conceived as a multi-purpose vessel, able to perform various mine warfare tasks and also to engage in anti-submarine warfare (ASW).

The Koster-class design is well-proven and extensively verified, with operational experience gained from a multitude of MCM operations, including live mines and underwater explosives. Seven ships of this class have been delivered to the Royal Swedish Navy, and a further four to the Republic of Singapore Navy.

MCMV 52 enhanced Koster-class

MCMV 52 enhanced Koster-class is based on the existing and well-proven MCMV 47 Koster-class, which is currently in operation with the Royal Swedish Navy. This enhanced version has been engineered to meet more demanding customer requirements.





The main enhancements on MCMV 52 Koster-class include extending the Length Overall (LOA) by 5 m to 52.5 m. This creates more space for crew and systems, and improves sea-keeping and ensures a growth margin for the future. MCMV 52 Koster-class will keep the basic hull lines from the proven MCMV 47 Koster-class.

Requirements

Due to the wide variety of mine warfare missions, many specific requirements have been taken into account in the design of the MCMV 47 Koster-class and MCMV 52 enhanced Koster-class.

Some of these requirements are:

- High resistance to underwater explosion shocks
- Low signatures
- Excellent manoeuvrability
- Full nuclear, biological and chemical (NBC) protection
- Electromagnetic compatibility (EMC)
- Spacious accommodation and ample supplies for extended missions

Technical specifications

	MCMV 47	MCMV 52
Length overall	47.5 m	52.5 m
Beam	9.6 m	10. 2 m
Draught	2.3 m	2.4 m
Displacement	400 tonnes	550 tonnes
Speed	15 knots	> 14 knots
Hull	GRP sandwich	GRP sandwich
Main engines	Four 300 kW diesels	Four diesels
Propellers	Two Voith cycloid propellers	Two Voith cycloid propellers
Armament	40 mm gun	40 mm gun
Complement	29	Up to 51

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