



GENERAL CHARACTERISTICS



Length: 143 m

Width: 17.4 m

Displacement: 5,800 t

Draft: 6.0 m

Maximum Speed: 29 knots

Engines: 2 diesel engines - 1 gas engine

Total output: 38,300 kW (52,100 hp)

OVERVIEW

The German Navy owns a total of three Sachsen-class frigates. They are designed as multi-purpose ships providing protection and sea control. Its primary aim is air defense: with its SMART-L radar, a single unit of the Sachsen class can, for example, monitor the airspace over the entire North Sea. The Sachsen-class radar is able to capture more than 1,000 targets at the same time. The anti-aircraft missiles of the type SM2 from the vertical launch system VLS Mk41 of the Sachsen class can reach over 160 kilometers. All sensors and weapons on board are optimized for this main task of association air defense. The computer core of the Sachsen-Klasse is the command and weapon deployment system (FüWES) with a strong computing power: It processes all data from the radars and other sensors as well as the information provided by allied ships. The system is redundantly distributed over more than a dozen computers on board. With these capabilities, the Class 124 frigates have been in the North Atlantic several times in US aircraft carrier combat groups, United States, Navy integrated. Thanks to its good communication system with radio and satellite connections, the Sachsen class is also able to command several other warships at the same time. The on-board helicopters of the Sachsen class are used for long-range hunting of submarines. The three frigates of the Sachsen-class are the most personnel-intensive in the fleet: the regular crew is 236 soldiers. If helicopters are on board, there are another 18 naval aviators.



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