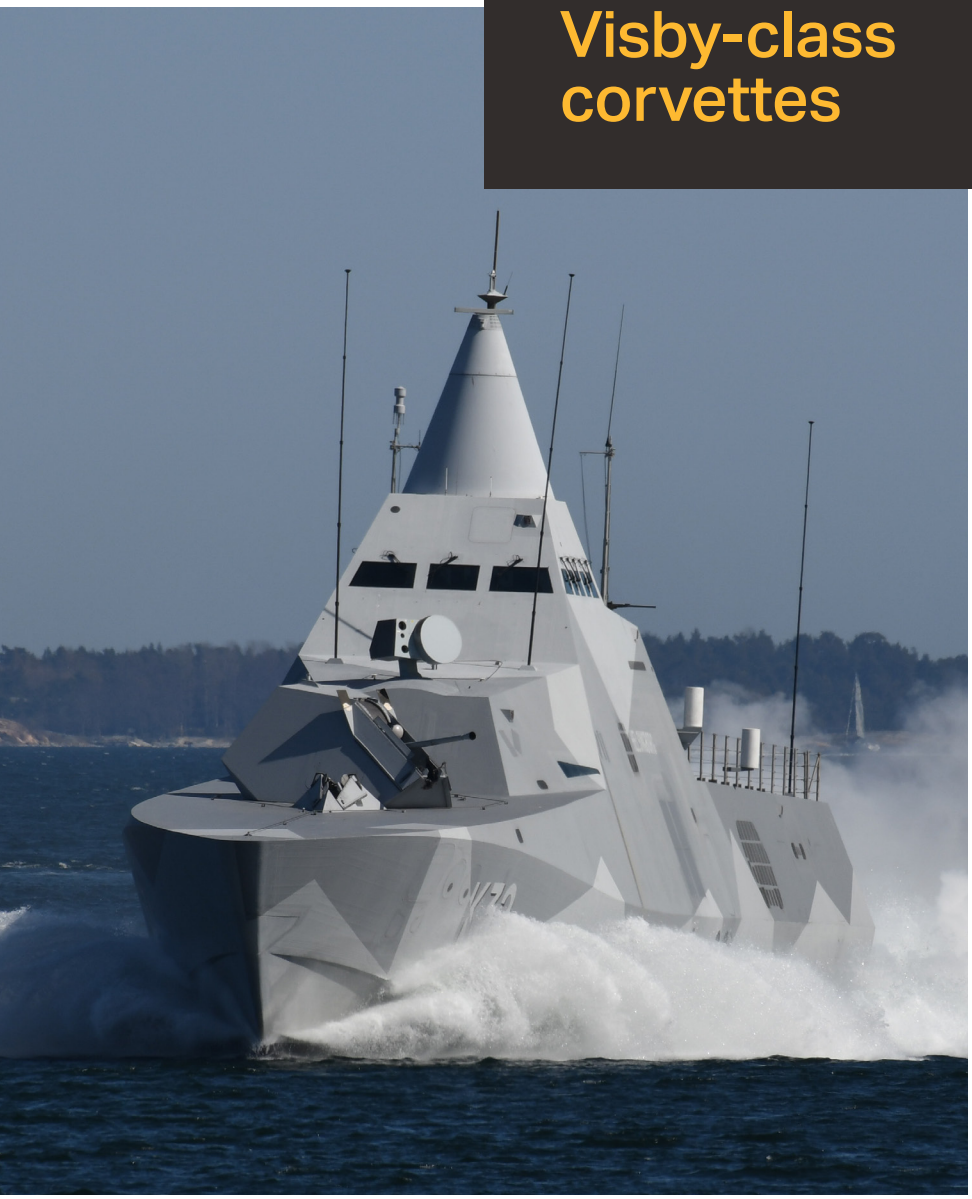
Visby-class corvettes



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Visby-class corvettes

Virtually invisible in all signature bands, the innovative and powerful Visby-class corvettes from Saab continues to set the world benchmark for littoral fighting ships. Stealth, shallow draught, speed and fighting power makes Visby-class corvette a truly formidable surface combatant in the littoral arena.

Visby-class corvette is a flexible surface combatant, designed for a wide range of roles: anti-surface warfare (ASuW), anti-submarine warfare (ASW), mine countermeasures (MCM), patrol and much more.

Gone are the days when the mere firepower of a ship was sufficient for its own protection. The concept today is action before – or even without – being detected.

All-carbon fibre

The all-composite carbon-fibre sandwich hull and superstructure allows the 650-ton Visby-class corvette the same payload capacity as that of a steel ship. At the same the carbon-fibre means that the Visby-class corvette has at least a 50% reduction in displacement compared with a steel ship.

Resulting combat advantages are: higher speed for the same power as conventional metal ship of the same dimensions, as well as greater manoeuvrability and shallower draught – both important tactical considerations in littoral waters.

Visby-class corvette's all-composite carbon-fibre hull and superstructure is not only lighter than steel, but also comparable for fire resistance and ballistic properties, and superior to steel for vulnerability to blast and underwater explosions. In terms of life cycle costs, the carbon-fibre composite is entirely superior to steel and aluminium for fatigue. And the superior corrosion resistance reduces the platform lifecycle costs even further.

Stealth...

It is in the realm of stealth that Visby-class corvette really comes to the fore. Designed in accordance with Saab's stealth philosophy, taking an integrated design approach to signature reduction. Visby-class corvette leads the world in naval stealth reduction across the full signature spectrum, including radar, infrared, acoustic and magnetic design and more than 100 years' of experience.

...and speed

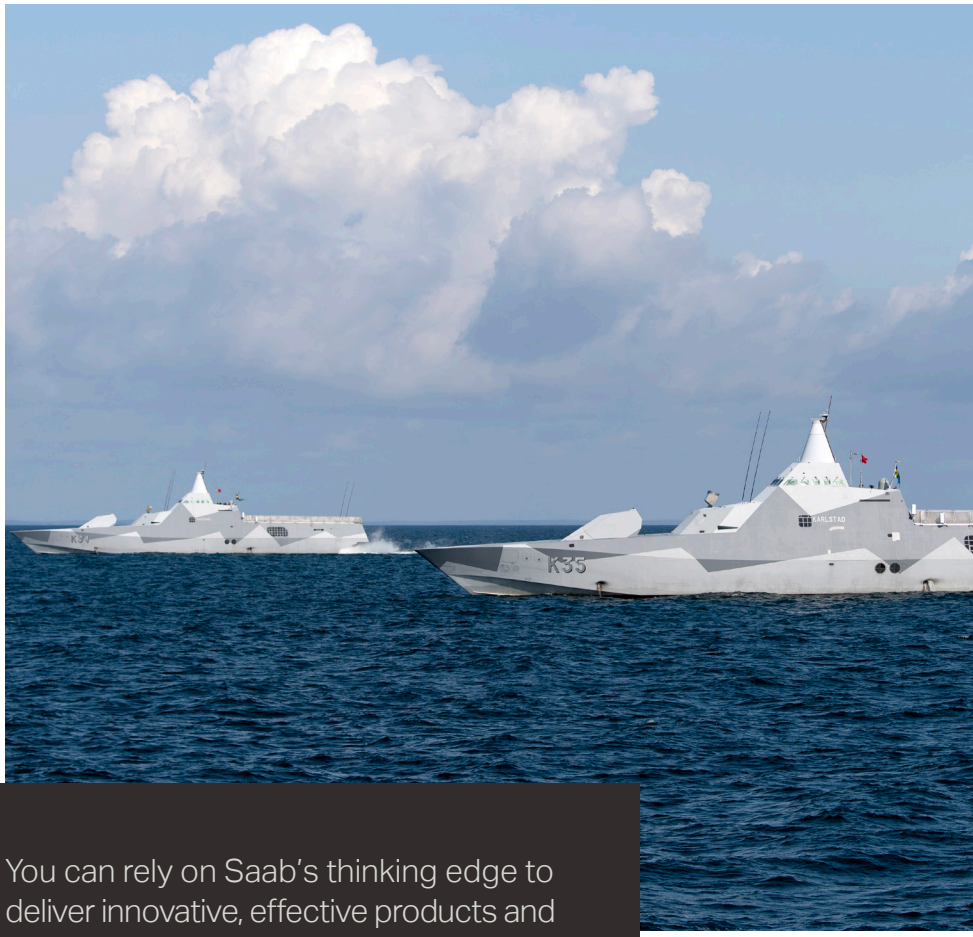
The vessel is equipped with a combined diesel or gas (CODOG) turbine arrangement for high speeds and two diesel engines for low-speed. The engines are connected to two gearboxes, driving two waterjet propulsors.

The diesels sustain the vessel at 15 knots, while the turbines kick in when she has to do 35 knots or better.

Technical specifications

Visby-class corvette

Length over all	72.7 m
Length between perpendiculars	61.5 m
Beam, max	10.4 m
Draught at full displacement	2.4 m
Displacement, fully equipped	650 tons
Speed at full displacement	35+ knots
Complement	43 persons



You can rely on Saab's thinking edge to deliver innovative, effective products and solutions that enhance your capabilities and deliver smarter outcomes.

Specifications subject to change without notice. Published March 2020.

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