

FOIL FERRY

ZERO-EMISSION, HIGH-SPEED MARINE TRANSPORT



The highly efficient Glosten/Bieker Foil Ferry offers operators zero emissions, low noise, and negligible wake at a significantly reduced lifecycle cost when compared to typical passenger catamarans.

▪ LENGTH	30m
▪ BEAM	7m
▪ TAKE-OFF SPEED	20 kts
▪ CRUISE SPEED	35 kts
▪ NON-FOILING DRAFT	3m
▪ FOILING DRAFT	1.5m
▪ POWER	2×515 kW
▪ PASSENGERS	150+crew

Ultra-Efficient Transportation

By combining the proven technologies of ultra-efficient hydrofoils and lightweight carbon fiber hull construction, the Foil Ferry requires less than half the installed power of a typical passenger catamaran, **resulting in more than a 50% reduction in energy consumption.** This allows for all-electric propulsion for most routes, hydrogen for longer-range zero-emissions operation, or diesel, which still offers significant operational cost and emissions savings.

Environmentally Friendly

If Seattle-Tacoma commuters ride the Foil Ferry instead of driving personal vehicles, they could reduce emissions by over 5,000 metric tons of carbon dioxide per year. That's the equivalent of taking 1,000 cars off the road or adding 6,000 acres of forest for every year of operation.

The vessel's reduced power requirement and lack of wave generation results in a quiet vessel, protecting marine mammals and providing a comfortable ride.

With low drag foils and half the installed power, this ferry's wake has practically no impact to sensitive shorelines.

Safety and Comfort

Safety of passengers and crew is paramount for all vessels. Our design takes proven commercial hydrofoiling ferry technology and incorporates a foil collision energy absorption system designed to dissipate the energy during contact with a submerged object. The system can be quickly reset because our tantamount priority is reliability.

Comfort is enhanced and transit times are more reliable as the vessel flies over waves rather than through them.

Advanced Construction

The vessel's hull is constructed using carbon fiber with foam cores above the waterline, resulting in significant weight savings over the lightest aluminum construction. The struts and foils are constructed of carbon fiber laminates, achieving the same strength and stiffness of high strength steel at 20% of the weight. These advancements in foil design and manufacturing can be seen in the latest America's Cup foiling yachts.

Low Maintenance

The aft foil can be manually raised while at the dock for routine inspections and cleaning of the foil and propulsion units. The forward foil assembly can be removed for service without dry docking the boat. Engine maintenance is drastically reduced with half the installed power and consistent engine loading.

