



Future Defense RIB



Pushing the Limits: Modern Naval Design Redefines RIB Performance

In a strategic collaboration between three industry specialists—Petestep AB (naval architecture), Boomeranger Boats Oy (RIB building and integration), and Solico Engineering BV (composite engineering) —a next-generation naval Rigid Inflatable Boat (RIB) has been created that dramatically outperforms legacy designs. The project set out to answer a simple but crucial question: What can be achieved today with state-of-the-art technologies, compared to RIBs designed 15 years ago? The answer is clear—a transformational leap forward in performance, endurance, and structural integrity, setting a new benchmark for naval platforms.



Shaping the Ride

Petestep AB's patented hull redefines performance and comfort at sea. By reducing vertical accelerations by up to 20%, crews can operate faster and longer in rough conditions. The hull also redirects spray down and aft for a drier, quieter, and lower-signature ride—ideal for covert or extended missions.

Boomeranger Boats Oy engineered dynamic balance and ergonomic efficiency for real-world naval use. Tuned centers of gravity ensure stable trim, predictable handling, and safety across all loads, while smart tank placement and accessible systems enhance mission readiness.

Solico Engineering BV applied DNV HSLC standards, achieving 22% less structural weight through advanced composite optimization. This boosts stiffness, durability, and sustainability while improving seakeeping, range, payload, and speed.

Performance Redefined

Description	RIB 2010	RIB 2025
Class	Leisure: ISO 12215-5, Class A (Ocean)	DNV High Speed Light Craft, 1A HSCL R3 Patrol (S)
Length	12 	12 
M_{LDT}	5905 	5584 
$M_{structure}$	1459 	1138 
V_{max} 	40 	43 
Range	240Nm @ 40 kts @SS2	290 Nm @ 40 kts @SS2
Peak accelerations	100% at SS2, 40 kts 100% at SS3, 40 kts	79% at SS2, 40 kts 83% at SS3, 40 kts



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