



Sprite II

Marine Target

The Sprite II system is a flexible concept based on the conversion of commercially available Rigid Hull Inflatable Boat (RHIB) vessels with an approximate length of between 4.2 and 7.5 metres.

The Sprite II system can be supplied as a fully working, turnkey system, or as a kit to convert a user's existing vessel of these sizes to remote control. The Sprite II system has been designed to allow operation of the selected vessel by either a crew on-board or by remote control.

Petrol (gasoline) powered outboard engines are generally used. They are selected to suit the size of the hull to which they will be fitted in order to meet the desired performance. As an example, the smallest vessel offered is fitted with a single 40 HP engine which provides a typical maximum speed in excess of 30 knots whilst a 7.5 metre long vessel will generally be fitted with one or two outboard engines providing a total power output of approximately 160 horse power.

If required, multi-fuel outboard engines may be fitted. Typically these engines are able to operate on F44 (JP5), F67 (petrol) or F76 (NATO diesel) fuels. Vessels of over 6 metres in length may be fitted with a diesel-powered inboard engine and out-drive unit.

This Maritime Surface Target, provided by QTS, is typically used by customers to represent threats posed by Fast Attack Craft (FAC), Fast Inshore Attack Craft (FIAC) and Close Quarter threats to commercial shipping and Naval vessels and has been used to test the effectiveness and operational readiness of weapon systems including:

- Surface-to-Surface Missiles: Harpoon, Exocet, RBS 15, Mistral /SM/Sea Sparrow type systems (various Shore/ Submarine Launched Missiles)
- Surface-to-Air Missiles (in Surface-to-Surface mode): NATO Sea Sparrow, Evolved Sea Sparrow, Standard SM 1, Standard SM 2 Block III A,
- Air-to-Surface Missiles: RBS 15, AGM 65 Maverick, CRV 7, Harpoon, Kormoran, LIDAM
- Naval Guns/Cannon & Close In Weapon Systems: Phalanx, 25-30 Bushmaster, 40mm Bofors, 57mm Bofors Mk III, 76mm Oto Melara SRGM, 100mm Creusot Loire, 4.5" Royal Ordnance, and 127mm Oto Melara/FMV Guns

All sizes of Sprite II are able to tow the QinetiQ Target Systems L-CATT towed surface gunnery practice or as a target for surface-to-surface gunnery practice or as a target for air-to-air bombing and strafing training. Larger sizes of Sprite II may optionally be fitted with an electric winch that contains 500 metres of tow line to facilitate deployment and recovery of the towed target.

Sprite II Specifications

Physical

Hull type	Rigid Hull Inflatable Boat (RHIB)
Length, overall	4.2 metres to 7.5 metres (13ft 9in to 24ft 7 in)
Width, overall	1.9 to 2.8 metres (6ft 3in to 9ft 2in)
Compartments	4; 5; and 7
Max engine size	50 to 160 brake horse power
Motor shaft length	Long shaft (where an outboard engine is used)

Engine(s)

Type	Two stroke or four stroke, petrol outboard motor. Multi/heavy fuel outboard motors. Heavy fuel or petrol inboard unit with outdrive leg
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Performance

Max speed	>30 knots to 40 knots
Max sea conditions	Sea state five
Endurance at 30 knots	>1 hour to >10 hours (dependent on configuration)
Radius of operation	6km to 20km (3.24NM to 10.8 Nm) (RF line of sight)

Key features

Uses commercially available RHIB vessels with proven performance and reliability

Operates beyond visual range to provide realistic FIAC representative attack profiles and defence training

Simple multi-vessel operation through a lightweight, self-contained control station

Different hull and engine sizes to suit a variety of user needs and mission profiles

Available as a turnkey system or as a kit to convert a user's existing vessels to remote control

Supports the L-CATT towed surface target for gunnery training and bombing/strafing practice

Larger sizes may be optionally be fitted with an electric winch and 500 metres of towline for towed target development and recovery by remote control

Note: Due to continuous process improvements, specifications are subject to change without notice.

Collaborating with QinetiQ

At QinetiQ we bring organisations and people together to provide innovative solutions to real world problems, creating customer advantage.

Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

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QinetiQ/17/03118

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