



# Humpback™ USV

Special mission vehicles

The Humpback Unmanned Surface Vehicle (USV) is a 5m, advanced composite surface effect hull, speedboat powered by a 170 hp gas 2.0L Mercury Diesel engine.

The Humpback USV operates at speeds up to 35 knots in Sea State (SS) 3 and speeds over 35 knots in SS2 and below. The Humpback USV can be deployed for up to 24 hours before requiring refuelling and was designed to utilize the ships available fuel. The Humpback USV provides a stable payload platform that allows it to be employed for various tactical applications.

The Humpback (diesel powered) USV is currently in-service with the Royal Canadian Navy and has been selected as the platform of choice (which, with an electronic warfare jammer fitted) will be utilised for Anti-ship Missile Defence purposes.

#### Key Features

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Proven speed of 35 knots in Sea State 3

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Line-of-Sight or Over-the-Horizon control

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High speed manoeuvring

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Tactical USV applications

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Diesel fuel for long endurance naval operations

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## Humpback™ USV Specifications

### Physical

Hull length	5.2m (17ft)
Boat beam	1.4m (4.7 feet)
Target weight (dry)	900 kg (1984 lbs)
Engine	Mercury Diesel: QSD 2.0L
Engine performance	170 horsepower
Fuel capacity	165 litres (43.6 US gallons)
Outdrive	MerCruiser Alpha 1

### Performance

Temperature	Operating: -10° to +40°C (14° to +104°F) Storage: -40°C to +60°C (-40 to +140°F)
Maximum speed	35 knots in Sea State 3 >35 knots in Sea State 2 (prop dependant)
Alternator rating	14V, 110 Amp
Speed / endurance	20 hours @ 1600 RPM 10 knots 13 hours @ 2300 RPM 20 knots 5 hours @ 3600 RPM 35 knots
TM range	5 nm (subject to UTCS antenna height)
Control system	Universal Target Control Station (UTCS) – STANAG 4856 compliant



Delivering customer advantage when operations are mission critical

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

## Collaborating with QinetiQ

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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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