

Location: United Kingdom

Service: Rescue Boat

Waterjet Model: HM521



**TYPE:**

ARRC - Autonomous Rescue and Recovery Craft

**SERVICE:**

Rescue Boats

**LENGTH:**

18.80 metres

**BEAM:**

4.00 metres

**CONSTRUCTION:**

GRP with solid foam fenders

**SPEED:**

35 knots

**WATERJETS:**

Twin HamiltonJet Model HM521

**ENGINES:**

Twin Caterpillar diesel engine  
Model C18, each  
746kW (1000hp) @ 2300rpm

**GEARBOX:**

ZF BW550 1:1.833

**OWNER/OPERATOR:**

BP, "Jigsaw" Program, North Sea

**DESIGNER:**

Amgram Ltd, West Sussex, UK

**BUILDER:**

Delta ARRC, Stockport, UK

**HamiltonJet DISTRIBUTOR:**

HamiltonJet UK Ltd,  
West Sussex, UK

## Autonomous Rescue Craft Fit Well into BP's North Sea Jigsaw

Eight of the world's largest RIBs form an integral part of a new rescue initiative for BP's North Sea oil platform operations. The 19m vessels, powered by twin HJ521 waterjets, operate in conjunction with other emergency services to enhance BP's rescue and recovery capabilities.

The DeltaARRC (Autonomous Rescue & Recovery Craft) was designed specifically for Operation Jigsaw, an initiative that replaces dedicated standby safety vessels with an integrated air and seaborne cover system of platform-based and shore-based helicopters and Regional Support Vessel (RSVs).

Three RSVs are stationed in a designated marine regions, with a fourth providing back up and relief. Two ARRCs are carried on each RSV, although they have the ability to operate independently of the mothership. The ARRCs have a crew of six, including a paramedic, and are capable of housing 21 survivors. Facilities allow for essential triage and basic lifesaving treatments, while in more serious cases the injured can be airlifted from the clear aft deck.

With a pair of 1,000hp Caterpillar engines

couple to HM521 waterjets via carbon fibre shafts, the ARRC is capable of over 35 knots and safe operation in up to 7m wave height. The bridge utilises triple-station HamiltonJet MECS electronic controls, with each wing station fitted with a 3-axis joystick to improve close-quarters manoeuvring during rescue situations and when operating alongside the mothership.

Delta have built many vessels using HamiltonJet waterjets for the UK MOD, Police and Coast Guard, Rescue services and commercial operators.



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