

Location: New Zealand

Service: Rescue Craft

Waterjet Model: HJ322



**NAME:**

Kaikoura Rescue

**SERVICE:**

Rescue Craft

**LENGTH:**

11.30 metres

**BEAM:**

4.20 metres

**DRAUGHT:**

0.65 metres

**DISPLACEMENT:**

8300kg

**CONSTRUCTION:**

Aluminium &  
Polyurethane / PVC pontoons

**SPEED:**

35 knots

**WATERJETS:**

Twin HamiltonJet Model HJ322

**ENGINES:**

Twin Yanmar diesel engines  
Model 6LYA-STP, each  
272kW (370hp) @ 3300rpm

**GEARBOXES:**

ZF 220 1.5:1

**DESIGNER:**

Naiad, Picton, New Zealand

**BUILDER:**

Reliance Engineering, Nelson,  
New Zealand

**HamiltonJet DISTRIBUTOR:**

Hamilton Marine, Christchurch,  
New Zealand

## Kaikoura Coastguard in Control with blue ARROW® Waterjets

Following an embarrassing incident trying to pull a stranded yacht through heavy seas with its previous outboard-driven rescue boat, the Kaikoura Coastguard decided it needed something more – much more. Now it has the ideal rescue vessel for its situation, complete with twin HamiltonJet HJ322 waterjets and blue ARROW controls.

The decision to use waterjet propulsion was made very early in the planning process for the Kaikoura Coastguard's new vessel. Having seen the success of other waterjet-propelled rescue boats in New Zealand and around the world the benefits of the system for the Kaikoura environment were quickly recognised.

Shallow draught and manoeuvrability of the vessel were key requirements, as it would be operating in often heavy seas around dangerous rocks and breaking surf. The decision was also made to go for a slightly larger waterjet size than would normally be required for an 11.3m RIB, to ensure efficiency and outstanding low speed thrust for towing and manoeuvring. Kaikoura, on the east coast of New Zealand's South Island, is famous for its eco-tourism and diving, so safety and environmental-sensitivity of the propulsion systems was also a factor.

Designers Naiad specifically designed this vessel for waterjet propulsion and operation in a variety of sea conditions, taking into account some particular handling aspects such as the risk of bow steer in following seas and comfortable ride in extended rough sea conditions.

The Kaikoura Coastguard coxswains are full of praise for the blue ARROW control system and the ease of use of the MouseBoat device. Not only does it allow them to manoeuvre easily around other vessels, but it also simplifies crew training and reduces the time needed to become proficient with waterjet controls.



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