

'TEN SEVENTY'

HIGH-SPEED SURVEY VESSEL FROM Q-WEST

New Zealand naval architecture firm Teknicraft has incorporated a number of new design elements in 'Ten Seventy', a new foil-assisted survey catamaran which was built in New Zealand by Q-West Boat Builders.

This is the second vessel built by Q-West for owner Seascan and the seventh this client, Q-West and Teknicraft Design have constructed together.

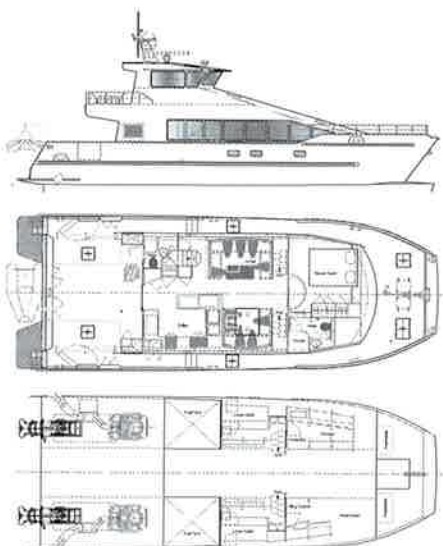
'Ten Seventy' is 18.85 metres in length, with a beam of 6.8 metres and draught of just 0.85 metres. She is powered by a pair of MAN main engines driving Hamilton waterjets. Accommodation is provided for six crew with space for 12 additional passengers.



The new system consists of a revised hull-shape, together with an extended foil, and a set of interceptors. The combination of the three features significantly enhanced sea-keeping, and reduced the resistance and fuel consumption to a new low benchmark for a Teknicraft vessel. At 32 knots cruise speed, and 32-tonne displacement, fuel consumption is nine litres per nautical mile. At 46 knots the consumption is still below 10 litres per nautical mile.

The extended foil increased lift potential by more than 10 per cent, whilst the adjustable angle of attack enables the foil to be finely adjusted to be optimum for a loading condition, cruise speed and seastate on any given journey. The interceptors allow the vessel to be trimmed such that more than half the length of the hull flies above the water.

Teknicraft expects to be utilising the new features in new designs of pilot boats, patrol vessels, and passenger craft.



'Ten Seventy'

SPECIFICATIONS

| | |
|----------------------------|-----------------------------------|
| Type of vessel: | Survey vessel |
| In survey to: | Maritime New Zealand |
| Home port: | Auckland |
| Owner: | Seascan, New Zealand |
| Designer: | Teknicraft Design, New Zealand |
| Builder: | Q-West Boat Builders, New Zealand |
| Construction material: | Aluminium |
| Length overall: | 18.85 metres |
| Length waterline: | 17.45 metres |
| Length: | 17.65 metres |
| Beam: | 6.8 metres |
| Draught: | 0.85 metres |
| Main engines: | 2 x MAN 8V-1200 |
| Propulsion: | 2 x Hamilton HJ403 waterjets |
| Steering: | HamiltonJet Blue Arrow |
| Maximum speed: | 45 knots |
| Service speed: | 30 knots |
| Electronics supplied by: | Pine Harbour Electrica |
| Radars: | Furuno, 25kW open array |
| Depth sounders: | Furuno FCU1150 |
| Radio: | Furuno FM 8900, Class A |
| Sonar: | Waasp multi-beam |
| Autopilot: | Sperry Marine |
| Compass: | Furuno SL-50 |
| GMDSS: | Rescue Mate G, 406 RL8-37M |
| GPS: | Furuno Maretron |
| Plotters: | Maxsea Furuno T2 Touch C-Map |
| A.I.S.: | Furuno FA150 Class A |
| Capstan: | Muir Atlantic 4000 |
| Refrigerated system: | Fisher and Paykel cool drawers |
| Other equipment installed: | Naiad Ride Control |
| Safety flooring: | Garnet blasted |
| Liferaft: | 12pax Zodiac |
| Fuel capacity: | 3,000 litres |
| Freshwater capacity: | 450 litres |
| Crew: | 6 |
| Accommodation: | 6 |
| Passengers: | 12 |