HamiltonJet

HYBRID FERRY

VESSEL DETAILS

Operator	Fullers 360 – NEW ZEALAND
Year Built	2024
Length (LOA)	32.0m – 104.98ft
Beam	9.5m – 31.17ft
Construction	Aluminium
Ship Designer	INCAT Crowther Ltd
Shipyard	Q-West Ltd
Gensets	2 x Diesels 552kW @ 1800rpm 4 x e-Motors 777kW
Class	DNV

HAMILTONJET SUPPLY

Propulsion	4 x HTX42 waterjets
Control System	AVX propulsion control system, JETanchor positioning system
Hybrid System	EHX Hybrid Integration
Electrical Control System	Danfoss (ECS)
Electrical Motors	4 x Danfoss 777kW e-motors
Electrical	Danfoss DC Link
Batteries	CORVUS Batteries

SERIES HYBRID SYSTEM

These series Hybrid Ferry have been designed to operate in full electric mode at lower speeds and Electric or Hybrid for the longer-range transits using shore charging to charge.

The vessel has HamiltonJet full EHX controls for smooth transition between diesel and electric propulsion and JETanchor positioning system. HamiltonJet has provided the full system design, product supply including waterjets, controls, batteries, e-machines, energy management system and Hybrid Integration.

The control system manages the hybrid energy flow between engines, batteries and motors while charging and discharging the batteries as required. A simple automatic setting enables effortless vessel operation in a manner similar to driving a hybrid car. Meanwhile, the manual setting delivers four different modes of operation - Diesel Only, Electric Only, Charging or Electric Boost.