



A MoorMaster™ unit moors the Electra hybrid ferry, as the Automatic Plug-in System readies to charge the vessel.

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Cavotec extends its leadership in automated mooring and charging for e-ferries

Our innovative [MoorMaster™ automated mooring](#) and Automatic Plug-in System (APS) are set to enter service with a hybrid battery-powered ferry in Finland, delivering substantial operational efficiencies and reducing environmental impact.

The Electra, operated by [FinFerries](#), is 90m long, 16m wide, and carries up to 90 vehicles. It makes crossings at 15-minute intervals during the day, and one

round trip per hour at night, year-round and in all weather conditions between Parainen and Nauvo in southwest Finland.

For this application, Cavotec engineered a fully integrated automated mooring and charging solution consisting of a MoorMaster™ system and an automated charging solution – a Cavotec APS tower – at each berth to moor and connect the Electra in less than 30 seconds.

The MoorMaster™ units will signal to the APS systems when the Electra is securely moored, before a laser sensor then guides the connector to a hatch in the side of the vessel where it connects to the ship's battery to begin charging.

“APS automates the charging of the vessel with the touch of a button,” says Sofus Gedde Dahl, Cavotec Global Systems Specialist, E-ferries.

APS connects cranes, ships and other mobile equipment to electrical power. In this e-ferry application, the system ensures quick and reliable connection, maximising charging time and optimising vessel and battery pack design, thereby vessel weight and operational costs. MoorMaster™ automated mooring eliminates the need for mooring lines with automated vacuum pads that moor and release vessels in seconds.

“The introduction of MoorMaster™ and APS will ensure substantial improvements in terms of safety, efficiency, and environmental performance,” explains Jakob Tolsgaard, Cavotec MoorMaster™ System Specialist, Europe.

Cavotec has installed these systems at a number of similar e-ferry applications in Norway, and we're seeing growing interest in the automation of mooring and charging of vessels across the industry.

Earlier this year, again in Finland, a number of Cavotec MoorMaster™ units [entered service at a major ferry terminal at the Port of Helsinki](#).

We're exhibiting at [Electric & Hybrid Marine World Expo](#) this week in Amsterdam, (booth E3080), but if you're unable to attend, you can learn more about our solutions for electric and hybrid ferries at: cavotec.com.

Cavotec is a leading engineering company with 50 years of heritage in innovation, designing and delivering advanced connection and electrification solutions that drive the decarbonisation of ports and industrial applications. With five decades of experience, our systems ensure safe, efficient, and sustainable operations for a diverse range of customers and applications worldwide.

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