

PRESS RELEASE

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Ricardo to Integrate Wireless Charging Capability for Electra Meccanica's SOLO EV

New wireless EV charging system integrated by Ricardo – Qualcomm Halo™ technology – will bring new level of convenience to the one-seater electric vehicle

To enable future mobility based services in a planned autonomous version of Electra Meccanica's SOLO electric vehicle (EV), the Canadian-based designer and manufacturer of EVs contracted the Hybrid and Electronic Systems team at the Ricardo Santa Clara Technical Center, to integrate the SOLO with a wireless EV charging (WEVC) system from Qualcomm. Qualcomm Halo™ WEVC technology uses resonant magnetic induction to transfer energy wirelessly from a ground-based pad to a second pad integrated within the vehicle. This energy is then used to recharge the vehicle's battery and no user interaction with infrastructure or cables will be required.

“At Electra Meccanica, we believe the future of mobility will include autonomous driving options, so we felt that it was important to start engineering those capabilities for SOLO now,” said Ed Theobald, General Manager, Electra Meccanica. “Induction charging is also a new technology we want to provide, and Ricardo has helped drive the integration of the Qualcomm Halo system for SOLO.”

Electra Meccanica is currently developing its SOLO single passenger all-electric vehicle which is intended to revolutionize the way people commute. SOLO is a three-wheeled, highway capable commuter car with a 100-mile range provided by its 17.3 kWh Li-ion battery pack. Currently, recharging is by wire via a J1772 Universal Connector using a standard North American 110V or 220V AC electrical supply.



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“Ricardo is pleased to have been asked to assist Electra Meccanica with the integration of the Qualcomm Halo wireless EV charging system on the SOLO vehicle,” commented Ricardo Inc president Paul Rivera. “Wireless charging of electric vehicles brings considerable benefits in terms of user convenience, avoiding the need to use cables or plug-in to recharge. We wish Electra Meccanica every success with the SOLO vehicle and its new wireless charging capability.”

Qualcomm Halo WEVC technology has a high misalignment tolerance, both vertically and horizontally, enabling it to support high and low road clearance vehicles such as SUVs and roadsters, with the ground-based pad installed either on the road, flush mounted or even buried beneath the surface. The car does not need to be precisely parked; proper alignment of the charging pads is conveniently indicated through a positioning system. This technology has the potential to revolutionise the electric and plug-in hybrid vehicle ownership experience and remove the inconvenience of plugging and unplugging almost every day.

Ricardo worked with Electra Meccanica to prepare a Qualcomm Halo WEVC demonstration system for integration. This was tested at the Ricardo Santa Clara facility before integration into the SOLO technology demonstrator vehicle at Electra Meccanica’s facilities outside of Vancouver. The application software development and testing of the vehicle was completed in January 2018 and the vehicle is ready for investors and customers to experience the improved functionality the system offers the SOLO, freeing users from the need to plug and unplug.

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NOTES TO EDITORS:

Electra Meccanica Vehicles Corp., a Canadian-based designer and manufacturer of electric vehicles, builds the innovative, all-electric SOLO, a single passenger vehicle developed to revolutionize the way people commute, as well as the Tofino convertible, an elegant high-performance sports car. Both vehicles are tuned for the ultimate driving experience while making your commute more efficient, cost-effective and environmentally friendly.

Intermeccanica has successfully been building high-end specialty cars for 57 years. Electra Meccanica, with its subsidiary Intermeccanica, is delivering next generation affordable electric vehicles to the masses.

For more information, visit www.EMVauto.com

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