

MAGNA PUTS POWER TO WHEELS WITH etelligentDrive™ SYSTEMS

- etelligentDrive systems to be showcased at CES 2018
- Full range of easily integrated electric systems
- Magna has a history of electrifying powertrains for customers

AURORA, Canada, December 15, 2017 — With the global trend towards electrification in the automotive industry, Magna presents its etelligentDrive systems. Leveraging its legacy of powertrain leadership, Magna offers automakers a variety of solutions for electrified powertrain architectures -- from hybrids to full electrics.

Magna's etelligentDrive systems will be on display at CES 2018. The company's [e1 demonstration concept vehicle](#) will be used to demonstrate different electric-drive (e-drive) concepts and systems, as well as demonstrate Magna's vehicle integration capabilities. The e1 system consists of one highly integrated e-drive system on the front axle and one on the rear axle with two electric motors (e-motors).

With this innovative approach, the demo car achieves superior longitudinal and lateral dynamics combined with excellent vehicle stability for more safety. Each e-drive system in the demo vehicle uses 140-kilowatt motors, adding up to an overall performance of 420-kilowatt peak.

The e-motors are combined with a single-speed reduction-gear transmission and an inverter into a very compact package.

"We believe in the next few years there will be several different variations of powertrain architectures on the market aimed at numerous ways to achieve CO₂ savings," said Swamy Kotagiri, Magna's Chief Technology Officer.



Magna highly integrated etelligentDrive System

“With our powertrain expertise, we will continue to deliver cutting-edge products to the market that match the progression of internal combustion engines up to full electric vehicles.”

Magna’s electrified powertrain capabilities include key components for modern e-drive systems: e-motor, gearbox, inverter and control software that can be easily integrated into vehicles. The solutions range from products for 48-volt mild hybrids to highly integrated e-drive systems for battery electric vehicles. Electrified auxiliaries like thermal management modules, electric water pumps or electric oil pumps complete the portfolio. For nearly 10 years, Magna has been supporting customers in the U.S. and Europe from concept to production with products for battery electric and plug-in hybrid vehicles.

In 2009, the company announced a vehicle-development partnership with Ford Motor Company to introduce a zero-emission lithium-ion battery electric vehicle (BEV) – this became the Ford Focus BEV, which entered the market in 2011 and is still produced today. Magna is responsible for providing the e-motor, electronic control module / inverter and the transmission for this vehicle.

Additionally since 2012 Magna has supplied Volvo with the electrified rear axle drive system (eRAD) featured on the Volvo V60 and S60 plug-in hybrid models. Magna's eRAD system offers multiple hybrid driving modes while also adding electric all-wheel-drive capability.

More recently, the company announced a Joint Venture partnership with Hasco in China to produce a high volume e-drive system for a German automaker.

TAGS

electric vehicle, etelligentDrive, electric drive system, e-drive, electric motor, e-motor, BEV

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ABOUT MAGNA

We are a leading global automotive supplier with 328 manufacturing operations and 99 product development, engineering and sales centres in 29 countries. We have over 163,000 employees focused on delivering superior value to our customers through innovative products and processes, and world class manufacturing. We have complete vehicle engineering and contract manufacturing expertise, as well as product capabilities which include body, chassis, exterior, seating, powertrain, active driver assistance, vision, closure and roof systems. We also have electronic and software capabilities across many of these areas. Our common shares trade on the Toronto Stock Exchange (MG) and the New York Stock Exchange (MGA). For further information about Magna, visit our website at www.magna.com.

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