



Plug-in Hybrid Truck Powered by BorgWarner's Electric Motor

- *BorgWarner chosen once again to supply key European commercial vehicle manufacturer*
- *Robust 130 kW HVH e-motor offers unique durability*
- *World-class power density and peak efficiencies of more than 95 percent possible*

Auburn Hills, Michigan, February 20, 2019 – BorgWarner's reputation as a leading supplier of hybrid vehicle systems was further strengthened by the news that a major European commercial vehicle manufacturer has chosen the company's proven High Voltage Hairpin (HVH) 410 electric motor for a plug-in hybrid electric truck (PHEV) to be launched in 2019. The electric motor is a key component in a range of vehicles including urban and night-time delivery trucks and waste handling vehicles. Generating 130 kW (174 hp) of power and 1,050 Nm of torque, the HVH motor will work in parallel with an inline five-cylinder engine that runs on hydro treated vegetable oil (HVO) or diesel. The HVH motor will also regeneratively charge the battery pack during braking or downhill coasting.

"We are excited that our powerful and durable electric motor has been chosen for this important plug-in hybrid application, which will be a game-changer in the field of urban distribution trucks and night-time deliveries," said Dr. Stefan Demmerle, President and General Manager, BorgWarner PowerDrive Systems. "It follows the use of our HVH410 technology on citywide hybrid buses, reinforcing our position as a global leader in technologies that help vehicle manufacturers meet emerging market demands and operate in zero-emissions zones as well as noise sensitive areas."

BorgWarner's HVH410 electric motors are available as fully housed motors or as rotor/stator assemblies. Instead of conventional round wire windings, they use precision-formed rectangular wires and multiple layers of interlocking "hairpins". The patented high-voltage (650 volt) HVH technology enables the versatile and powerful electric motors to deliver a maximum torque of 2,000 Nm and a power output of up to 300 kW (402 hp) with peak efficiencies exceeding 95 percent.

Featuring compact dimensions and individually customizable stack length, BorgWarner HVH electric motors provide tailor-made solutions for the specific requirements of customers. Cooling and winding configurations allow easy integration into almost all electric and hybrid applications.

About BorgWarner

BorgWarner Inc. (NYSE: BWA) is a global product leader in clean and efficient technology solutions for combustion, hybrid and electric vehicles. With manufacturing and technical facilities in 68 locations in 19 countries, the company employs approximately 30,000 worldwide. For more information, please visit borgwarner.com.



BorgWarner's rugged and powerful HVH410 electric motor drives electrification in the commercial vehicle segment and will be used in a major European commercial vehicle manufacturer's first plug-in hybrid truck.

Statements in this press release may contain forward-looking statements as contemplated by the 1995 Private Securities Litigation Reform Act that are based on management's current outlook, expectations, estimates and projections. Words such as "anticipates," "believes," "continues," "could," "designed," "effect," "estimates," "evaluates," "expects," "forecasts," "goal," "initiative," "intends," "outlook," "plans," "potential," "project," "pursue," "seek," "should," "target," "when," "would," variations of such words and similar expressions are intended to identify such forward-looking statements. Forward-looking statements are subject to risks and uncertainties, many of which are difficult to predict and

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generally beyond our control, that could cause actual results to differ materially from those expressed, projected or implied in or by the forward-looking statements. These risks and uncertainties, among others, include: our dependence on automotive and truck production, both of which are highly cyclical; our reliance on major OEM customers; commodities availability and pricing; supply disruptions; fluctuations in interest rates and foreign currency exchange rates; availability of credit; our dependence on key management; our dependence on information systems; the uncertainty of the global economic environment; the outcome of existing or any future legal proceedings, including litigation with respect to various claims; and future changes in laws and regulations, including by way of example, tariffs, in the countries in which we operate, as well as other risks noted in reports that we file with the Securities and Exchange Commission, including the Risk Factors identified in our most recently filed Annual Report on Form 10-K/A. We do not undertake any obligation to update or announce publicly any updates to or revision to any of the forward-looking statements.

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