

BorgWarner's HVH Motor Technology Electrifies Scania Hybrid Bus

- Electrically propels bus at low speeds for quiet operation and reduced emissions
- Generates energy to charge the battery when braking or driving downhill
- Offers world-class power density and peak efficiencies of more than 95 percent

Auburn Hills, Michigan, September 4, 2017 – BorgWarner continues to drive electrification into the commercial vehicle market segment with its powerful High Voltage Hairpin (HVH) 410 electric motors. The advanced and highly efficient technology propels Scania's new Citywide hybrid bus for urban areas. Positioned between the clutch and gearbox in a P2 layout, the 650-volt electric motor drives the vehicle at low speeds when enough energy is available. The motor also charges the battery by generating power while braking or driving downhill, and supports the shifting sequence in the automatic mode of automated manual transmissions. With their clean, quiet operation, HVH410 electric motors allow buses to operate in zero emission zones and noise-sensitive areas.

"Hybrid and electric technologies aren't just for passenger cars. As a key enabler for parallel hybrid drive concepts for commercial vehicles, BorgWarner's HVH410 electric motors help meet both market demands and emissions regulations," said Dr. Stefan Demmerle, President and General Manager, BorgWarner PowerDrive Systems. "This application, as well as our development partnership for future programs with Scania, expands our comprehensive hybrid and electric product portfolio and reinforces our strong reputation as a global leader in clean and efficient technology solutions for combustion, hybrid and electric vehicles."

BorgWarner's HVH410 electric motors are available as fully housed motors or as rotor/stator assemblies. Featuring the patented HVH stator winding technology, the versatile and powerful electric motors deliver a maximum torque of 2,000 Nm and a power output of up to 300 kW (402 hp) with peak efficiencies of over 95 percent. In addition, their compact dimensions and individually customizable stack length, cooling and winding configurations facilitate easy

integration into almost all electric and hybrid applications. As a result, BorgWarner can provide its customers with tailor-made solutions to fit their specific requirements.

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 62 locations in 17 countries, the company employs approximately 27,000 worldwide. For more information, please visit borgwarner.com.



BorgWarner's powerful HVH410 electric motors drive electrification in the commercial vehicle segment, significantly reducing emissions and noise for Scania's new hybrid bus.

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foreign vehicle production, the continued use by original equipment manufacturers of outside suppliers, fluctuations in demand for vehicles containing our products, changes in general economic conditions, as well as other risks noted 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. 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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