



BORGWARNER'S INNOVATIVE TECHNOLOGIES DRIVE ELECTRIFICATION FOR COMMERCIAL VEHICLE SEGMENT

*BorgWarner Displays Latest Products for Future Propulsion Concepts at the 66th IAA
Commercial Vehicles in Hanover*

Auburn Hills, Michigan, September 21, 2016 – BorgWarner presents numerous innovative technologies for light-, medium- and heavy-duty vehicles in Hall 12, Booth B26 at the 66th International Motor Show IAA Commercial Vehicles in Hanover, Germany, from September 21 to 29. In addition to innovations such as the eBooster[®], the eTurbo[™], the eTurbocompound, the Organic Rankine Cycle (ORC) system, the eFan and the Dual Mode Visctronic[®] (DMV), the exhibits include state-of-the-art cooling solutions and advanced turbocharging technologies as well as powerful and robust electric motors. BorgWarner's future-proof solutions for a variety of propulsion concepts help OEMs to boost performance and fuel efficiency while reducing emissions.

“Our technologies for vehicles with combustion engines, hybrid concepts and electric mobility support our customers in realizing pioneering propulsion solutions,” said James R. Verrier, President and Chief Executive Officer, BorgWarner. “Innovative products such as our electrified turbocharging solution or the waste heat recovery system play a major role in further boosting the efficiency of commercial vehicles. They also strengthen BorgWarner's position as a global leader with regard to clean and efficient technological solutions for hybrid or electric propulsion systems and vehicles with combustion engines.”

As a substantial component for purely electrical commercial vehicles, BorgWarner's High Voltage Hairpin (HVH) 410 electric motors offer a high power density combined with a maximum efficiency of 95 percent. Due to their high robustness and durability, the engines, which offer best-in-class performance and torque density, are perfectly suited for use in the commercial vehicle segment.

As a product leader in boosting solutions for commercial vehicles, BorgWarner provides a comprehensive range of highly efficient technologies, from wastegate and regulated two-stage (R2S[®]) turbochargers to boosting solutions with variable turbine geometry. In addition, the company offers advanced ball bearing technology and titanium compressor wheels to support its customers with high-quality solutions. The latest developments in boosting technologies all aim at meeting current and future emissions regulations and help improve CO₂ emissions.

BorgWarner's eBooster, an electrically driven compressor, improves transient behavior at low engine speeds due to its high power density, which in turn helps to enhance fuel efficiency and reduce emissions. In addition, in the field of turbocharging solutions, the company invented the eTurbo[™]. This electrically driven turbocharger allows significant enhancements of transient behavior while providing the option of using the e-machine on the shaft as a generator to recuperate electrical energy.

BorgWarner's eTurbocompound, on the other hand, is a turbine-driven, water-cooled generator installed downstream of the aftertreatment system which uses the remaining waste heat to generate electrical energy.

BorgWarner also offers substantial parts for an Organic Rankine Cycle (ORC) system such as a turbine, a heat exchanger and valves which combine to form an optimized overall package for recovering about 50 percent of the fuel energy wasted in heat rejection.

Besides active energy recovery, the company's latest inventions such as the DMV and the 48-volt eFan save energy by utilizing on-demand control. The DMV combines the advantages of an electric fan with those of a mechanical fan drive in terms of fuel efficiency, performance, system integration, compact packaging and low weight. When air flow demands are lower and when the combustion engine is turned off, the DMV is able to drive the fan electrically. When increased air flow is needed, the fan is driven mechanically.

The eFan, on the other hand, responds immediately and adjusts its performance on demand. Due to its high efficiency, compact packaging, low weight and trouble-free functionality, the eFan meets the market requirements. In addition, the eFan is a prime

BorgWarner Inc. (BorgWarner's Innovative Technologies Drive Electrification for Commercial Vehicle Segment_EU) – 3

example of BorgWarner's comprehensive approach across different segments since it is available for commercial vehicles and SUVs.

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 74 locations in 19 countries, the company employs approximately 30,000 worldwide. For more information, please visit borgwarner.com.

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