



BorgWarner's Electrification Technologies for Cleaner, More Efficient Agricultural and Commercial Vehicles Presented at Agritechnica 2017

- *Newest electrified turbocharging systems boost efficiency and performance*
- *Powerful air and coolant flow solutions improve thermal management*
- *Latest EGR cooling innovations reduce emissions*

Auburn Hills, Michigan, November 9, 2017 – BorgWarner will present its latest innovations in commercial vehicle electrification at this year's Agritechnica, the world's largest trade fair for agricultural machinery and solutions in Hanover, Germany, from November 12 to 18. In hall 16, booth D30, BorgWarner's state-of-the-art electrified boosting technologies, durable air and coolant flow solutions, proven electric motors and advanced exhaust gas recirculation (EGR) systems will take center stage and lead the way toward cleaner, more efficient commercial and off-highway vehicles.

"Reducing emissions and saving fuel are today's main goals for light and commercial vehicles. Our electrified propulsion solutions support all markets while delivering the robust performance needed for medium- and heavy-duty applications," said Scott Gallett, Vice President, Marketing, Public Relations and Government Affairs, BorgWarner. "At BorgWarner we focus on clean and efficient propulsion solutions for combustion, hybrid and electric vehicles of all sizes."

BorgWarner is continuously expanding its turbocharging portfolio with new innovative solutions to make combustion and hybrid commercial vehicles even more efficient. For example, the company's eBooster[®] electrically driven compressor is powered by an integrated electric motor, allowing it to boost performance and transient behavior at low engine speeds independent of exhaust gas flow. Complementing conventional turbocharging systems, this cutting-edge solution increases fuel efficiency. Looking further ahead, the next milestone in engine boosting is already under development. BorgWarner's eTurbo[™] is an electrically assisted turbocharger with an integrated electric motor that can either add torque to the turbine shaft for enhanced

performance or generate electrical energy from the exhaust gas flow. Furthermore, BorgWarner presents its latest variable turbine geometry (VTG) turbochargers featuring the company's cutting-edge ball bearing technology engineered to optimize fuel efficiency and improve transient response.

Effective thermal management is another crucial factor in improving efficiency. BorgWarner's innovative air and coolant flow solutions, such as the tried-and-tested Compact Variable Coolant Pump (CVCP) and the cutting-edge 48-volt eFan, enable precise and reliable engine thermal management. By integrating an electronic viscous coupling into a conventional coolant pump, the CVCP allows precise control of the impeller speed to produce the desired coolant flow rate. The eFan delivers immediate response and on-demand performance adjustment. With its high efficiency, compact packaging, low weight and trouble-free functionality, the eFan is also available for commercial vehicles and SUVs, demonstrating BorgWarner's comprehensive approach across different segments. In addition, BorgWarner will show various configurations of their proven Visctronic® fan drives and fans.

BorgWarner's advanced EGR technologies help customers meet increasingly stringent emissions regulations. The company's latest EGR cooler family features a compact, floating core and is designed to resist high levels of thermal load. Four standard designs cover a wide range of engine sizes from 2.0- to 16.0-liter displacement for optimal flexibility. An integrated thermomechanical damper allows complete decoupling of the shell and inner core components, enabling the cooler to absorb differences in thermal expansion for improved durability.

Supporting the need for sophisticated electrical propulsion concepts, BorgWarner offers customers a broad portfolio of solutions for hybrid and pure electric commercial vehicles. Available as fully housed motors or as rotor/stator assemblies, the company's High Voltage Hairpin (HVH) electric motors deliver a maximum torque of 2,000 Nm and peak efficiencies of over 95 percent. Furthermore, the motors are capable of charging the battery by generating power while braking or driving downhill, and support the shifting sequence in the automatic mode of automated manual transmissions.

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



BorgWarner leverages its in-depth electrification experience to develop a broad portfolio of innovative commercial vehicle solutions that deliver increased fuel efficiency, high durability and improved performance.

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