



## **BorgWarner Unveils R2S<sup>®</sup> Turbocharging System with Two VTG Turbochargers**

- *Almost instant acceleration and optimum power output for fun-to-drive experience*
- *Improves fuel efficiency and reduces emissions for clean engine concepts*
- *VTG turbocharger for low- and high-pressure stage*

Auburn Hills, Michigan, November 7, 2017 – As a global leader in clean and efficient technology solutions for combustion, hybrid and electric vehicles, BorgWarner pushes engine performance to new heights for the BMW Group's 235 kW (315 HP) diesel motor featured in numerous models of the automaker. BorgWarner's regulated two-stage (R2S<sup>®</sup>) turbocharging system with two variable turbine geometry (VTG) turbochargers delivers powerful boost, and facilitates rapid acceleration while significantly reducing emissions and fuel consumption.

“Combining two of our latest VTG turbochargers in our innovative R2S system delivers almost instant acceleration and increases efficiency at low engine speeds,” said Frédéric Lissalde, President and General Manager, BorgWarner Turbo Systems. “Our collaboration with the BMW Group has resulted in a more powerful, efficient engine that is more economical, environmentally friendly and dynamic.”

This new application of BorgWarner's R2S turbocharging technology consists of two electrically actuated VTG turbochargers arranged in series. A small high-pressure turbocharger provides most of the boost at low engine speeds. As engine speed increases, a larger low-pressure turbocharger gradually takes over most of the workload. By utilizing a VTG turbocharger for the low-pressure stage as well, BorgWarner enhances transient engine behavior even further for excellent acceleration. The rapidly adapting R2S system also minimizes turbo lag, and reduces emissions and fuel consumption.

### **About BorgWarner**

BorgWarner Inc. (NYSE: BWA) is a global product leader in clean and efficient technology

BorgWarner Inc. (BorgWarner Unveils R2S<sup>®</sup> Turbocharging System with Two VTG Turbochargers\_EN) – 2

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](http://borgwarner.com).



BorgWarner's regulated two-stage turbocharging technology with two VTG turbochargers boosts performance and transient behavior of numerous BMW Group models while contributing to improved fuel economy and reduced emissions.

Statements contained in this news 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 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. Such risks and uncertainties include: fluctuations in domestic or 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.

BorgWarner Inc. (BorgWarner Unveils R2S<sup>®</sup> Turbocharging System with Two VTG Turbochargers\_EN) – 3

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