



BorgWarner's All-New 800-Volt Integrated Electric Drive Module Drives Leading Chinese NEV Brands Forward

- *800-Volt integrated drive module (iDM) features high-voltage silicon carbide inverter*
- *The new highly integrated and efficient iDM220 delivers superior performance*
- *Enables global automakers to produce cleaner, more efficient vehicles*

Auburn Hills, Michigan, FEBRUARY 15, 2021 – BorgWarner has secured a contract with a Chinese luxury new energy vehicle (NEV) brand to supply its new integrated drive module (iDM) equipped with its compact 800V silicon carbide (SiC) inverter and hairpin electric motor. The 800V iDM220 features BorgWarner's exclusive and compact Viper power module which is the core of the SiC inverter, helping improve the range, driving performance and safety of electric vehicles. This is BorgWarner's first 800V iDM project worldwide, opening a new chapter in the company's global electric drive business.

"We are pleased to continue our long-standing partnership with this leading domestic manufacturer of luxury electric vehicles," said Dr. Stefan Demmerle, President and General Manager, BorgWarner PowerDrive Systems. "The 800V iDM generates a higher power density and system efficiency, thus creating mobility solutions with better driving performance, and longer range for OEMs, like our valued customers in China."

The compact 800V iDM220 consists of electric motor, inverter and gearbox. Its platform offers high integration and efficiency, and covers power requirements from 160kW to 300kW with peak wheel torque up to 5300Nm. The power module for the 800V SiC inverter uses BorgWarner's proven double-sided water-cooling Viper module technology, with reduced semiconductor size and increased efficiency. With the proven application of the patented Viper, higher reliability and adaptability are ensured.

The current system has achieved ASIL C defined by the ISO 26262 standard and is fully compatible to be upgraded to ASIL D. The software is also cyber security functional. In terms of electric motors, the 800V High Voltage Hairpin (HVH) 220, BorgWarner's third generation of high-

voltage motors after the HVH 410 and HVH 250, has a compact design with an outer diameter of 220mm and a maximum speed of over 20,000 rpm. Thanks to the scalable and innovative design, the HVH 220 with its high-power density can achieve over 300Nm in a compact packaging space.

The platform will be manufactured by a fully automated production line, improving assembly efficiency and quality as BorgWarner is currently one of the few companies worldwide with in-house development and production for integrated EV drive modules and their core components. The new iDM has an anticipated start of production in 2023.

As part of its Project Charging Forward initiative, BorgWarner is accelerating the company's electrification strategy and has announced plans to grow electric vehicle revenues to approximately 45% by 2030, along with a commitment to achieve carbon neutrality by 2035.

About BorgWarner

BorgWarner Inc. (NYSE: BWA) is a global product leader delivering innovative and sustainable mobility solutions for the vehicle market. Building on its original equipment expertise, BorgWarner also brings market leading product and service solutions to the global aftermarket. With manufacturing and technical facilities in 93 locations in 22 countries, the company employs approximately 49,000 people worldwide. For more information, please visit borgwarner.com.



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in the future regarding our financial position, business strategy and measures to implement that strategy, including changes to operations, competitive strengths, goals, expansion and growth of our business and operations, plans, references to future success and other such matters, are forward-looking statements. Accounting estimates, such as those described under the heading “Critical Accounting Policies and Estimates” in Item 7 of our most recently-filed Annual Report on Form 10-K (“Form 10-K”), are inherently forward-looking. All forward-looking statements are based on assumptions and analyses made by us in light of our experience and our perception of historical trends, current conditions and expected future developments, as well as other factors we believe are appropriate under the circumstances. Forward-looking statements are not guarantees of performance, and the Company’s actual results may differ materially from those expressed, projected or implied in or by the forward-looking statements.

You should not place undue reliance on these forward-looking statements, which speak only as of the date of this press release. 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. These risks and uncertainties, among others, include: supply disruptions impacting us or our customers, such as the current shortage of semiconductor chips that has impacted original equipment manufacturer (“OEM”) customers and their suppliers, including us; commodities availability and pricing; competitive challenges from existing and new competitors including OEM customers; the challenges associated with rapidly-changing technologies, particularly as relates to electric vehicles, and our ability to innovate in response; uncertainties regarding the extent and duration of impacts of matters associated with the COVID-19 pandemic including additional production disruptions; the difficulty in forecasting demand for electric vehicles and our electric vehicles revenue growth; the possibility that the proposed acquisition of Santroll’s light vehicle eMotor business will not be consummated; the ability to identify targets and consummate acquisitions on acceptable terms; failure to realize the expected benefits of acquisitions on a timely basis, including our recent acquisition of AKASOL AG and our 2020 acquisition of Delphi Technologies PLC; the ability to identify appropriate combustion portfolio businesses for disposition and consummate planned dispositions on acceptable terms; the failure to promptly and effectively integrate acquired businesses; the potential for unknown or inestimable liabilities relating to the acquired businesses; our dependence on automotive and truck production, both of which are highly cyclical and subject to disruptions; our reliance on major OEM customers; fluctuations in interest rates and foreign currency exchange rates; 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; future changes in laws and regulations, including, by way of example, taxes and tariffs, in the countries in which we operate; impacts from any potential future acquisition or disposition transactions; and the other risks noted in reports that we file with the Securities and Exchange Commission, including Item 1A, “Risk Factors” in our most recently-filed Form 10-K and/or Quarterly Report on Form 10-Q. We do not undertake any obligation to update or announce publicly any updates to or revisions to any of the forward-looking statements in this press release to reflect any change in our expectations or any change in events, conditions, circumstances, or assumptions underlying the statements.

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