



Dana Showcases Spicer® Electrified™ with TM4 e-Propulsion Portfolio at IAA Commercial Vehicles 2018

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Company Highlights Comprehensive Global Electrification Capabilities, Including Complete Electrified System Integration

HANOVER, Germany, Sept. 19, 2018 /PRNewswire/ -- Today, at the IAA Commercial Vehicles 2018 trade show, Dana Incorporated (NYSE: DAN) revealed its comprehensive Spicer® Electrified™ with TM4® portfolio, including fully integrated electro-mechanical propulsion systems featuring gearboxes, electric motors, inverters, and thermal-management technologies.



Ranging from complete systems and modular solutions to individual sub-system components, Dana is able to support its customers in developing series and parallel hybrid configurations up to full battery-electric vehicles. Dana's electrified product offerings are able to meet the diverse architecture and platform requirements of its broad customer base in the light vehicle, commercial-vehicle, and off-highway markets.

"Dana is uniquely equipped to provide full e-Propulsion systems across all gross vehicle weight categories, platforms, and architectures," said Jim Kamsickas, Dana president and chief executive officer. "From fully integrated e-Propulsion systems that include electric motors, inverters, gearboxes, and thermal management, to individual subsystem components designed to meet the individual requirements of a customer's vehicle, our Spicer Electrified with TM4 solutions are revolutionizing power conveyance and positioning Dana as a leader in the evolution of mobility."

Leveraging more than 20 years of vehicle electrification experience, Dana is able to meet region-specific requirements across the globe through its 23 worldwide technology centers and 140 operations in 33 countries.

With the recent acquisition of TM4, Dana's electrification capabilities now include in-house design and manufacturing for electric motors, power inverters, and control systems. Combined with Dana's existing core expertise in driveline, sealing, and thermal management, the company employs a systems-focused approach to e-Propulsion, guiding electric and hybrid vehicle development for enhanced performance, packaging optimization, and reduced system weight.

Dana is able to facilitate complete systems integration with guidance on vehicle configuration, system software analysis, and customization. The company's state-of-the-art technology centers are actively involved in the comprehensive validation of electrified systems, employing the use of electric vehicle dynamometers to test the full electrified system, including the axle, electric motor, and inverter.

"Dana engineers have designed driveline solutions for some of the largest and most challenging vehicle applications for more than a century," said Christophe Dominiak, chief technology officer for Dana. "Our capabilities across three-end markets enables Dana to deliver scalable solutions for our customers in the light vehicle, commercial vehicle, and off-highway segments."

Dana will exhibit its complete Spicer Electrified and TM4 solutions for the commercial-vehicle market in Hall 17, Stand A24 at IAA. Visit the stand for a private demonstration of Dana's e-Drive system capabilities.

About Dana Incorporated

Dana is a world leader in highly engineered solutions for improving the efficiency, performance, and sustainability of powered vehicles and machinery. Dana supports the passenger vehicle, commercial truck, and off-highway markets, as well as industrial and stationary equipment applications. Founded in 1904, Dana employs approximately 30,000 people in 33 countries on six continents who are committed to delivering long-term value to customers. The company reported sales of more than \$7.2 billion in 2017. Based in Maumee, Ohio, USA. Dana is ranked among the Drucker Institute's listing of the 250 most effectively managed companies. For more information, please visit www.dana.com.

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