



Spicer® Smart Suite™ Technology Boosts Vehicle Performance through Intelligence Captured from Connected Drivetrain Systems

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MUNICH, Jan. 28, 2016 /PRNewswire/ -- Dana Holding Corporation (NYSE: DAN) today revealed its Spicer® Smart Suite™ technology, a platform of fully integrated, connected-vehicle features that converts operating data from the drivetrain into actionable insights for enhancing productivity, improving operator and machine safety, and reducing total operating costs.

Initially introduced as a package of options for Spicer® axles, the Spicer Smart Suite technology will ultimately extend to additional Spicer drivetrain products.

"As the construction market becomes more competitive, equipment manufacturers and owners are pressed to drive greater efficiencies," said Aziz Aghili, president of Dana Off-Highway Driveline Technologies. "Dana is actively developing a wide selection of leading-edge technologies, led by Spicer Smart Suite technology, that can transform passive drivetrain components into intelligent, powerful forces for boosting performance."

Spicer Smart Suite technology is an integrated system that collects, manages, analyzes, communicates, and acts on data sourced from the drivetrain, including load monitoring, condition monitoring, torque management, speed sensing, and steering sensing.

This technology provides useful, actionable insights to end users on and off the vehicle, allowing critical alerts and analysis to be shared on vehicle central display panels, via tablets, and in fleet management centers. It is also designed to take these insights a step further by performing key functions independent of operator intervention.

Spicer Smart Suite technology enhances the intelligence drawn from drivetrain components through a solution that includes:

- sensors that capture data from key drivetrain operating processes;
- computing capabilities that consolidate, manage, and analyze data, and;
- compatibility with common vehicle communication protocols and telematics systems.

Leveraging Dana's decades of expertise, Spicer Smart Suite technology seamlessly integrates vehicle intelligence technologies with Dana's line of drivetrain components. As a result, Spicer Smart Suite technology provides the deepest, richest, and most accurate insights into vehicle performance, supplying greater long-term value over the remote-mounted and retrofitted solutions currently available from third-party providers.

Spicer Smart Suite technology is fully integrated into component housings, delivering optimum packaging and ensuring that sensitive mechatronic sub-systems are fully protected from accidental damage and the impacts of typical operating environments.

Spicer® Intelligent Load Monitoring System (ILMS)

The first application of the Spicer Smart Suite concept is a new intelligent load monitoring system (ILMS) for telehandlers. While traditional load monitoring technology collects measurements from a single remote-mounted or retrofitted load cell on the rear axle, Spicer ILMS uses data from across the vehicle to prevent tip-overs more effectively, provide better estimates of static loads, and supply more intelligent calibration management.

Manufacturer field testing of Spicer ILMS will begin in the second quarter of 2016, and it will be offered as an optional feature on all Spicer axles for telehandlers.

Dana's wide range of advanced drivetrain technology concepts will be showcased at Bauma 2016 in hall A4, stand 326. To learn more, visit www.dana.com/off-highway.

About Dana Holding Corporation

Dana is a global leader in the supply of highly engineered driveline, sealing, and thermal-management technologies that improve the efficiency and performance of vehicles with both conventional and alternative-energy powertrains. Serving three primary markets – passenger vehicle, commercial truck, and off-highway equipment – Dana provides the world's original-equipment manufacturers and the aftermarket with local product and service support through a network of nearly 100 engineering, manufacturing, and distribution facilities. Founded in 1904 and based in Maumee, Ohio, the company employs approximately 23,000 people in 25 countries on six continents. Preliminary sales for 2015 were \$6.0 billion. For more information, please visit dana.com.

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