NEWS RELEASE

Dana Rexroth
Transmission Systems

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IMMEDIATE

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Dana Rexroth Nears Start of Production on R2 Hydromechanical Variable Transmission Platform

PARIS, Jan. 22, 2015 – Dana Rexroth Transmission Systems today announced that engineers have completed final validation testing of the R2 hydromechanical variable transmission (HVT), with the start of production expected in the third quarter of this year.

Field tests on working vehicles have shown fuel savings of up to 25 percent over traditional transmission designs, with additional savings possible through further optimization with equipment subsystems.

"The HVT R2 has shown the value of powersplit technology at every stage of development, both in fuel economy and in application performance," said Diego Cornolti, head of sales and product management for Dana Rexroth Transmission Systems. "We have confirmed these gains through extensive testing on multiple off-highway applications, and we are collaborating with several original-equipment manufacturers to deliver HVT technology on market vehicles later this year."

A product of the joint venture between Dana Holding Corporation and Bosch Rexroth AG, the HVT R2 features a modular design that can be adapted for a variety of off-highway applications with net input power from 135 to 195 kW (180 to 260 hp), including front-end loaders, motor graders, industrial lift trucks, reach stackers, forestry skidders, and other select off-highway applications.

HVTs from Dana Rexroth significantly reduce fuel consumption by decreasing engine speeds throughout the duty cycle and at idle, where speeds can be dropped to as low as 600 rpm. Application analysis demonstrates the possibility of further savings without compromising performance through engine downsizing.

Dana Rexroth HVTs enable sensitive, precise vehicle positioning with a stepless drive that offers improved acceleration while maintaining tractive effort. They optimize the operating point of the diesel engine by decoupling engine speed from drive speed, and maintenance costs are reduced by utilizing hydrostatic braking and wear-free directional reversing without clutches.

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The HVT R2 is a modular platform that delivers a full suite of configuration options and software controls, such as direct or remote mounting, flexibility in shift control and drive strategy parameters, and the deployment of up to three power take-off (PTO) pumps.

The HVT system designed by Dana Rexroth helps reduce complexity for equipment manufacturers, since the entire system of gears, clutches, and hydrostatic units is managed by an advanced electronic control unit (ECU) and optimized for efficiency by a single supplier.

The HVT R2 will be exhibited by Dana as part of a 21-tonne (23-ton) drivetrain system for front-end loaders in stand 5A K 064 at Intermat.

About Dana Rexroth Transmission Systems

Established in 2011, Dana Rexroth Transmission Systems is a 50-50 joint venture formed by Dana Holding Corporation (NYSE: DAN) and Bosch Rexroth AG to develop and manufacture advanced drive transmissions for the off-highway market.

Dana Rexroth develops and manufactures hydromechanical variable transmission (HVT) systems that combine Dana's expertise in off-highway transmission engineering and manufacturing with Bosch Rexroth's deep experience in hydraulics and systems.

Targeted for use in off-highway applications, the advanced HVT systems developed by Dana Rexroth are focused on meeting customer needs for improved fuel economy, productivity, emissions, and maneuverability.

Dana Rexroth Transmission Systems is based in Arco, Italy. For more information, visit www.danarexroth.com.

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