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SKF ePowertrain portfolio reduces costs for hybrid and electric vehicles

SKF ePowertrain technology, introduced at the Hannover Fair in 2015, reduced production costs for HEV manufacturers and improved energy efficiency in service

The latest ePowertrain technology from SKF, the knowledge engineering company, has been developed to help the manufacturers of hybrid and electric vehicles (HEV) to reduce assembly and production costs. The new technology also play an important role in improving vehicle efficiencies, reducing energy use, CO2 emissions and extending operating range.

The ePowertrain portfolio is built around a number of innovative and complementary products, all of which were showcased at the Hannover Fair in 2015.

The portfolio includes a unique SKF Rotor Positioning Sensor Bearing Unit, which is designed to improve the control of permanent magnet motors. The unit integrates a low friction bearing and intelligent sensor in a single compact and low weight assembly. This is quick and simple to install on the production line, offers improved motor power density and enhanced control of motor torque, reducing overall noise and vibration.

Also available is the SKF Motor Encoder Sensor-Bearing Unit. This provides precise encoder pulses for the accurate real time measurement of motor speed, direction and incremental position, together with low friction, reduced noise and high speed bearing functionality.

Other products in the ePowertrain portfolio include customised bearings for steering column applications, providing significantly reduced noise level while maintaining existing performance characteristics, and extremely robust, low friction and high speed ball bearings to enhance electric motor efficiency and power density still further.

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Alberto Carlevaris, Powertrain Engineering, says, "We have developed our ePowertrain product portfolio to help HEV manufacturers improve the efficiency of vehicle sub-systems. This in turn reduces CO2 emissions while contributing to the vehicle driving experience through extended range and reduced noise and vibration."

The latest SKF ePowertrain products formed part of specially constructed exhibit at the Hannover Fair. Further information can be found at www.skfpowerthefuture.com

(SKF is a leading global supplier of bearings, seals, mechatronics, lubrication systems, and services which include technical support, maintenance and reliability services, engineering consulting and training. SKF is represented in more than 130 countries and has around 17,000 distributor locations worldwide. Annual sales in 2015 were SEK 75 997 million and the number of employees was 46 635. www.skf.com)

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