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New Sauer-Danfoss H1 bent axis motors join the successful H1 family, providing further improvements in efficiency, reliability, and flexibility.

NEUMÜNSTER, GERMANY – SAUER-DANFOSS INC. (NYSE:SHS) Sauer-Danfoss has released its new H1 80cm³ and 110cm³ bent axis motors, the first sizes in a new series of motors designed to complement the growing family of H1 axial piston pumps. With the introduction of the H1 bent axis motors, Sauer-Danfoss is now able to provide a complete H1 transmission system, optimized around electrical control. The H1 motors not only provide OEMs with improvements in reliability and flexibility, but also provide higher overall efficiency, resulting in lower fuel consumption and reduced life cycle costs.

The new H1 bent axis variable displacement motors have been designed to ensure outstanding reliability and high quality. Optimized for electrical control, they are fully PLUS+1™ Compliant, enabling seamless integration with Sauer-Danfoss' electronic machine control architecture - Plug and Perform®. And with an IP 69 rating, the electrical controls are able to withstand the harshest working environments.

“We are pleased to introduce the H1 bent axis motors, which perfectly complement the successful H1 pump family” says Hans-Peter Nissen, Product Portfolio Manager, “With proven 32 degree bent axis technology, zero degree capability and higher overall efficiency, our new motors offer OEMs a number of significant advantages. The H1 propel system provides improved horsepower management, and enables advanced anti-slip or wheel-assist control functions.”

High Efficiency

An extensive simulation and testing program for the H1 bent axis motors has resulted in significant improvements in overall efficiency and an extremely low pressure drop in the galleries. This helps improve fuel economy and frees power for other vehicle functions, enhancing operating performance and increasing productivity. “Tier 4 and Euro IIIb emission standards will require intelligent utilization of engine power,” says Nissen, “and this will be strongly supported by our new H1 family of products.”

Zero Degree Capability

A key feature of the new H1 motors is their zero degree capability. The ability to seamlessly reduce the angle to zero degrees means there is no torque interruption, or sudden change in speed when switching from, for example, work range to travel range. This enhanced control is not only more precise, but also improves the feel of the system during operation. “Zero degree capability enables OEMs to provide additional features,” says Nissen, “including accurate anti-slip and torque control functions, which increase vehicle productivity and optimize power utilization” The zero degree capability also enables a wheel assist solution without the need for additional technology. “Even true two-speed applications, for example a crop sprayer, can be supported by this great feature,” states Nissen.

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Optimized for Electrical Control

Electronic engine management and electrical vehicle control is the future of mobile machinery. As such, H1 motors have been designed around advanced electrical controls, which allow a range of vehicle control concepts to be produced using the same motor hardware. By adjusting the software parameter settings, the system can be optimized to match the requirements of specific vehicle functions.

Designed for Quality and Reliability

H1 motors have been developed around a common design concept, in order to ensure outstanding motor performance. This design commonality provides improvements in quality and reliability at the factory level and leads to benefits of uniformity and familiarity at the OEM level, supporting standardized machine design.

The H1 motors have the shortest length of any motor available on the market today, and at least one “clean side”, increasing vehicle design flexibility and facilitating installation. The higher speed capability of the motors also results in a high corner power and power density. This provides more power without increasing the size of the motors, which not only saves additional space, but also enables OEMs to design more compact system solutions.

Sauer-Danfoss Inc. is a worldwide leader in the design, manufacture and sale of engineered hydraulic, electric and electronic systems and components, for use primarily in applications of mobile equipment. Sauer-Danfoss, with 9,800 employees worldwide and revenue of approximately \$2.0 billion, has sales, manufacturing and engineering capabilities in Europe, the Americas and the Asia-Pacific region. The Company’s executive offices are located near Chicago in Lincolnshire, Illinois. More details online at www.sauer-danfoss.com.

Photo Caption: Sauer-Danfoss’ H1 hydrostatic family now includes bent axis motors – optimized around electrical controls.

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For Technical Issues:

Horst Diekneite Sauer-Danfoss
Technical Support Team
Neumünster, Germany

Phone: +49 4321 871 358
hdiekneite@sauer-danfoss.com

For Media Information and Photos:

Americas:

Al Essman Essman/Associates
Des Moines, Iowa, USA

Phone: +1 515 282 7145
a.essman@essmanassociates.com

Europe:

Warren Joiner Sauer-Danfoss,
Nordborg, Denmark

Phone: +45 7488 4375
wjoiner@sauer-danfoss.com

Asia-Pacific:

Kentaro Ide Sauer-Danfoss-Daikin Ltd,
Kobe, Japan

Phone: +81 78 231 5052
kide@sauer-danfoss-daikin.com