



April 3, 2009

## **New D Series Gear Motor Excels in Demanding Off-Road Applications**

**Sauer-Danfoss introduces cast iron motor for maximum performance, efficiency, extended life and installation flexibility.**

**AMES, Iowa, USA, April 3, 2009 – Sauer-Danfoss Inc. (NYSE:SHS)** Sauer-Danfoss' new D Series cast iron gear motor provides a 276 bar [4000 psi] solution in a ductile, three piece housing, complete with an electrohydraulic proportional relief valve. Suited for heavy duty fan drives and powering work functions, from mining conveyors, road pavers and crushers to flail and side angle mowers, it perfectly complements the Sauer-Danfoss D Series cast iron gear pump.

“Many off-road applications are known for extreme performance requirements – like the ability to consistently perform under varying high load conditions and withstand dust, dirt and high temperatures. Enter Tier IV and Stage III B engine emission requirements,” says Jeff Brenner, Product Portfolio Manager, “and you have engines running at even higher temperatures, with greater need for cooling.”

The D Series motor is an excellent choice for variable speed fan drive systems. In addition to handling very high cooling demand, an EH proportional relief valve maximizes available machine horsepower by providing cooling only as needed. The electronic interface makes the D Series motor fully PLUS+1™ Compliant to integrate with PLUS+1™ microcontrollers and other compliant products including sensors and graphical displays.

Brenner continues, “With D Series motors, our focus is on four key product attributes: increased performance, efficiency, extended life or durability and installation flexibility.”

### **Increased Performance**

The D Series motors exceed the capabilities of aluminum motors in applications requiring high pressure, 276 bar [4000 psi] vs. 207 bar [3000 psi], high temperatures and duty cycles. Fan speeds can be controlled to maintain optimum engine and hydraulic system temperatures. Fan reversing capability enables a radiator cleaning cycle. When used in conveyors, the D Series motors offer excellent starting torque to control the conveyor speed while optimizing feed rates and maintaining speed under varying load conditions.

### **Greater Efficiency/Extended Life**

The use of the EH proportional relief valve makes fan drives up to 50 percent more efficient than direct or belt drives. In the remote possibility of valve failure, fan speed defaults to the highest setting to maintain cooling integrity. The D Series motors also incorporate high temperature seals and a dust resistant shaft seal which improve performance under extreme temperature and pressure conditions – and extend operating life. The bronze sleeve bushings in the front flange are lined with Teflon® PTFE, and provide increased radial load capability before requiring the use of outrigger bearings.

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### **Installation Flexibility**

The D Series compact design is 20 percent smaller than a conventional motor. Shorter length and consequent higher power density help to ease installation in tighter places. The side or rear port options come in a variety of styles, and add to greater machine design flexibility.

“Many benefits result from the D Series motors’ modular configuration, such as multiple installation options. Our intent is to maximize ways for OEMs to meet their most demanding machine design and operation requirements,” concludes Eric Slocombe, Product Development Engineer.

### **About Sauer-Danfoss**

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 had revenues of \$2.1 billion in 2008 and 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, USA.

More details online at [www.sauer-danfoss.com](http://www.sauer-danfoss.com).

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### **PHOTO CAPTION:**

New D Series cast iron motors from Sauer-Danfoss excel in powering demanding fan drive and work functions in off-road vehicles requiring heavy duty performance.

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