



## Sauer-Danfoss



Closed Circuit High Power  
Pumps and Motors



Closed Circuit Medium Power  
Pumps and Motors



Closed Circuit Low Power  
Pumps and Motors



Transit Mixer Drives



Open Circuit Axial Piston Pumps



# Sauer-Danfoss Closed Circuit High Power Pumps & Motors



Pass the most challenging test with Sauer-Danfoss high power pumps and motors – for the toughest demands of the off-highway mobile market

The answer to your high power propulsion and heavy work function needs is in our hands. The Sauer-Danfoss PLUS+1™

Compliant closed circuit axial piston variable pumps, fixed and variable motors, and variable displacement bent axis motors are designed for just that job.

Bring together a pump, motor and a PLUS+1 microcontroller in a closed circuit sub-system, and enjoy the benefits of a super smart drive.

The Sauer-Danfoss H1 bent axis motor has been selected as an AE50 winner. Sponsored by The American Society of Agricultural and Biological Engineers' (ASABE) Resource magazine, the award recognizes the top 50 innovative new products produced during 2008, which are expected to save time, costs and labor, while improving user safety.

SD Product	Displacement cm <sup>3</sup> /rev [in <sup>3</sup> /rev]	Maximum Pressurebar [psi]	Controls	Technical Information	Data Sheet
H1 Pump	78 [4.76]	Up to 480 [Up to 6,960]	Electrical	78 (PDF 7MB)	78 (PDF 1 MB)
	89 [5.44]			89/100 (PDF 9MB)	89/100 (PDF 1 MB)
	100 [6.21]				
	115 [7.0]			115/130 (PDF 9 MB)	115/130 (PDF 1 MB)
	130 [7.93]				
	147 [8.97] 165 [10.07]			147/165 (PDF 4 MB)	147/165 (PDF 0.5 MB)
S90 Pump	42-250 [2.56-15.25]	480[6,960]	Manual, Hydraulic, Electrical	(PDF 5 MB)	-
S90 Fixed Motor	42-130 [2.56-7.93]	480[6,960]	Not applicable	(PDF 2 MB)	-
S90 Variable Motor	55 [3.36]	480 [6,960]	Hydraulic, Electric	-	-
H1 Bent Axis Variable Motor	60 [3.66]	480[6,960]	Electric	(PDF 7 MB)	(PDF 1 MB)
	80 [4.88]				(PDF 1 MB)
	110 [6.71]				(PDF 0.5 MB)
S51 Bent Axis Variable Motor	60-250[3.66-15.25]	480[6,960]	Electric, Hydraulic	(PDF 3 MB)	-



# Sauer-Danfoss Closed Circuit Medium Power Pumps & Motors

If you've got a medium power need, Sauer-Danfoss has a high performing solution. Our pump and motor family allows top design flexibility – whether you are looking for high sophistication or simplicity itself.



Performance, power density and functionality are standard features of Sauer-Danfoss medium power axial piston pumps and motors for the diverse off-highway mobile market. Sauer-Danfoss has the displacement, configuration and control option to suit your specific application.

The application of integral servo control technology equips our H1, M46 and Series 42 pumps perfectly for intelligent system design.

Alternatively, Sauer-Danfoss offers pumps based on direct displacement control technology, including an innovative built-in neutral return assist mechanism that saves on space, reduces noise and extends useful life.

SD Product	Displacement cm <sup>3</sup> /rev [in <sup>3</sup> /rev]	Pressurebar [psi]	Control Options	Technical Information	Data Sheet
H1 Pump	45 [2.75] 53.8 [3.28]	Up to 400 [5,800]	Electrical	Single (PDF 6 MB) Tandem (PDF 7 MB) Basic Information (PDF 3 MB)	Single (PDF 0.4 MB) Tandem (PDF 0.5 MB)
Series 40 Pumps	25 [1.53] 35 [2.14] 44 [2.68]	Up to 400 [5,800]	Direct	(PDF 4 MB)	-
Series 40 Pumps	46 [2.8]	350 [5,075]	Manual, Hydraulic, Electric	(PDF 4 MB)	-
Series 40 Fixed Motors	25 [1.53] 35 [2.14] 44 [2.68]	Up to 400 [5,800]	Not Applicable	(PDF 2 MB)	-
Series 40 Variable Motor	46[2.8]	350 [5,075]	Hydraulic	(PDF 2 MB)	-
Series 42 Pumps	28 [1.71] 41 [2.5] 51 [3.11]	Up to 400 [5,800]	Manual, Hydraulic, Electric	(PDF 4 MB)	-
L/K Motor	25 [1.52] 30 [1.83] 35 [2.14] 38 [2.32] 45 [2.75]	Up to 350 [5,075]	Hydraulic	(PDF 2 MB)	-
LPV Pump	25 [1.52] 30 [1.83] 35 [2.13]	Up to 350 [5,075]	Direct	(PDF 2 MB)	-



# Sauer-Danfoss Closed Circuit Low Power Pumps & Motors



The manual controls on low power units give your design engineer the ultimate freedom to customize operator interfaces. An efficient option for a broad variety of propel and non-propel applications.

Top priorities of Sauer-Danfoss are reliability and easy installation when designing closed circuit pumps and motors for low power applications. U-style and inline options separate variable pumps and fixed motors, giving you great engineering flexibility.

SD Product	Displacement cm <sup>3</sup> /rev [in <sup>3</sup> /rev]	Pressurebar [psi]	Control Options	Technical Information
BD Series Axial Piston Pumps	6 [0.36], 10 [0.61], 21 [1.28]	Up to 245 [3,552]	Direct Displacement Control	(PDF 1 MB)
Series 15 pumps and motors	15 [0.92]	Up to 310 [4,495]	Direct Displacement Control	(PDF 1 MB)



# Sauer-Danfoss Transit Mixer Drives

Smart drive systems from Sauer-Danfoss transit mixers have a proven track record. Guaranteed outstanding control that keeps the drum turning, smoothly and reliably, on and on...

Available for drum sizes of 6-12m<sup>3</sup>, Sauer-Danfoss Plug and Perform<sup>®</sup> closed loop drum control gives the right mix of efficiency, low noise and operator comfort. And, because their components are so well known, routine maintenance is never a problem. Full PLUS+1<sup>™</sup> Compliance is standard for your most intelligent designs.



SD Product	Size cm <sup>3</sup> [in <sup>3</sup> ]	Control Options	Technical Information
Series 20 Pump	70 [4.27], 89 [5.43]	Mechanical	(PDF 0.5 MB)
TMP Pump	70 [4.27], 89 [5.43]	Electrical	
TMM Motor	70 [4.27], 89 [5.43]	Fixed Displacement	(PDF 0.7 MB)
TMG Gear Box	51.2 [3.12], 61.2 [3.73], 71.2 [4.34]	For 6-12 m <sup>3</sup> drum	
TME	Cabin and Remote Station	Closed Loop	(PDF 0.2 MB)



## Sauer-Danfoss Transit Mixer Drives

The demands of your machine's work functions have met their match. Sauer-Danfoss Series 45 pumps are uniquely designed to optimize your hydraulic systems.

Series 45 open circuit axial piston pumps are highly efficient, reliable and low in noise – in fact, everything you require for a highly responsive hydraulic system.

Designed with load sensing and pressure compensated flow controls, they work perfectly with Sauer-Danfoss hydraulic integrated circuit valves (HICs) and PVG proportional valves with PVE electrical actuators.

Expect a cost-effective operation and longer pump lifetime.



SD Product	Frame	Displacement cm <sup>3</sup> /rev [in <sup>3</sup> /rev]	Pressurebar [psi]	Control Options	Technical Information
S45	L	25,30	210-260 [3,045-3,770]	Pressure Control, Load Sense, Remote Pressure	(PDF 8 MB)
S45	K	38,45	210-260 [3,045-3,770]	Pressure Control, Load Sense, Remote Pressure	(PDF 8 MB)
S45	J	45,51,60,65,75	260-310 [3,770-4,495]	Pressure Control, Load Sense, Remote Pressure	(PDF 8 MB)
S45	F	74,90	260-310 [3,770-4,495]	Pressure Control, Load Sense, Remote Pressure	(PDF 8 MB)
S45	E	100,130,147	260-310 [3,770-4,495]	Pressure Control, Load Sense, Remote Pressure	(PDF 8 MB)