ENGINEERING TOMORROW



Mobile hydraulic solutions for **Combine Harvester**

Pumps and Motors, Orbital Motors and Valves for Propel and Work Function



Propel Function

Closed Circuit Axial Piston Pumps and Motors for

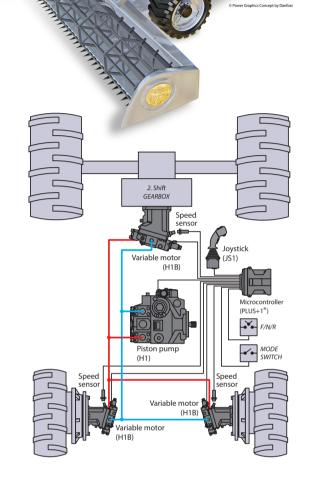
Combine Harvester

Series 90 I High Density - Compact, Lightweight



	Series 90 Pumps
Type	S90P (Axial Piston Variable Pump)
Control Options	 - 3-position Electric Control (FNR) - Electric Displacement Control (EDC) - Manual Over Ride (MOR) - Hydraulic Doisplacement Control (HDC) - Manual Displacement Control (MDC) - MDC with Neutral Start Switch (NSS) - Non Feedback Proportiona Electric Control (NFPE)
Displacement (cm³/rev)	042 / 055 / 075 / 100 / 130 / 180 / 250
Max. Pressure (bar)	480
Mounting Flange	SAE

Series 90 Motors		
Туре	S90M (Axial Piston Motor)	
Displacement (cm³/rev)	055 / 075 / 100 / 130	
Max. Pressure (bar)	480	
Mounting Flange	SAE, Cartridge	



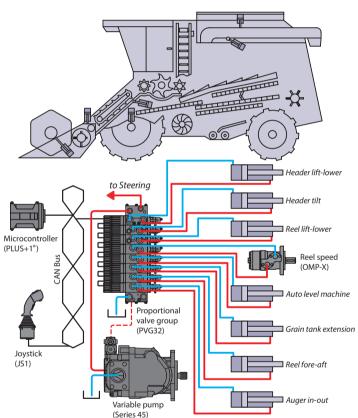
Series H1 | Proven Performance - Exceptional Efficiency

- Greater overall vehicle efficiency
- SIL 2 certified Automotive Control (H1 AC)
- Optimized for modern control systems
- Improved fuel economy and reduced heat load
- Proven operating performance and increased productivity



Series H1 Pumps and Motors				
Type	H1P (Aixal Piston Variable Pump)	H1B (Bext Axis Motor)		
Control Options	- Electric Displacement Control (EDC) - Forward-Neutral-Reverse control (FNR) - Non-Feedback Proportional Electric control (NFPE) - Automotive Control (AC) - Fan Drive Control (FDC) - Manual Displacement Control (MDC) - Common controls across the entire motor family - PLUS+1® Compliant control and sensor options	- Electric Two-position Control - Electric Proportional Control - Hydraulic Two-position Control - Hydraulic Proportional Control - Pressure Compensator Override - Proportional Pressure Compensator Override - Brake Pressure Defeat option - Common controls across the entire motor family - PLUS+1® Compliant control and sensor options		
Displacement (cm³/rev)	045 / 053 / 060 / 068 / 069 / 078 / 089 / 100 / 115 /130 / 147 / 165 / 210 / 250	060 / 080 / 110 / 160 / 210 / 250		
Max. Pressure (bar)	480 (053 & 068 : 400, 045 & 060 : 450)	480		
Mounting Flange	SAE	SAE, DIN , Cartridge		





- Complete, automatic header control solutions
- Synchronized harvesting, cleaning & conveying process
- Consistent and reliable rotating functions with a complete range of compact and robust Orbital Motors
- Reduced energy consumption with Series 45 variable piston pumps
- Precise flow control with load independent PVG valves
- Accurate elevation functions utilizing valve module with zero leak ports
- · Modular valve design for customized systems
- Remote control solutions; analogue or via CAN Bus technology

Orbital Motors | High efficiency, High Starting Torque



Type	Displacement (cm³/rev)	Max. Torque (Nm)
OMP-X	25 - 400	40 - 400
OMR-X	50 - 400	100 - 400
OMS	80 - 500	240 - 850
TMT	250 - 630	940 - 1830

Open Circuit Pumps | Designed for durability and flexibility



Type	Displacement (cm³/rev)	Max. Pressure (bar)
Series 45 Frame L	25 / 30	260
Series 45 Frame K	38 / 45	260
Series 45 Frame J	45 / 51 / 60 / 65 / 75	310
Series 45 Frame F	74 / 90	310
Series 45 Frame E	100 / 130 / 147	310

Valves | Directional and Proportional







Туре	Oil Flow Rated (I/min)	Max. Pressure (bar)
ECO 80	80	320
PVG 16	60	380
PVG 32	130	350



About Danfoss Power Solutions

Danfoss Power Solutions is a global manufacturer and supplier of high-quality hydraulic and electronic components. We specialize in providing state-of-the-art technology and solutions that excel in the harsh operating conditions of the mobile off-highway market. Building on our extensive applications expertise, we work closely with you to ensure exceptional performance for a broad range of off-highway vehicles. We help OEMs around the world speed up system development, reduce costs and bring vehicles to market faster.

Danfoss Power Solutions – your strongest partner in mobile hydraulics.

Products we offer:

- · Bent Axis Motors
- Closed Circuit Axial Piston Pumps and Motors Open Circuit Axial Piston Pumps
- Displays
- Electrohydraulic Power Steering
- Electrohydraulics
- Hydraulic Power Steering
- Integrated Systems
- Joysticks and Control Handles

- · Microcontrollers and Software
- Orbital Motors
- PLUS+1® GUIDE
- Proportional Valves
- Sensors
- Steering
- · Transit Mixer Drives

Wherever off-highway vehicles are at work, so is Danfoss Power Solutions. We offer you expert worldwide support for ensuring the best possible solutions for outstanding performance. And with an extensive network of Global Service Partners, we also provide you with comprehensive global service for all of our components.

Go to www.powersolutions.danfoss.com for further product information.

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