Mobile hydraulic solutions for Combine Harvester
Pumps and Motors, Orbital Motors and Valves for Propel and Work Function

19 facilities around the globe make us your global partner for mobile hydraulic solutions.

powersolutions.danfoss.com
**Propel Function**

Closed Circuit Axial Piston Pumps and Motors for Combine Harvester

### Series 90 | High Density - Compact, Lightweight

#### Series 90 Pumps

<table>
<thead>
<tr>
<th>Type</th>
<th>S90P (Axial Piston Variable Pump)</th>
</tr>
</thead>
</table>
| Control Options | - 3-position Electric Control (FNR)  
- Electric Displacement Control (EDC)  
- Manual Over Ride (MOR)  
- Hydraulic Displacement Control (HDC)  
- Manual Displacement Control (MDC)  
- MDC with Neutral Start Switch (NFS)  
- Non Feedback Proportional Electric Control (NFPE) |
| Displacement (cm³/rev) | 042 / 055 / 075 / 100 / 130 / 180 / 250 |
| Max. Pressure (bar) | 480 |
| Mounting Flange | SAE |

#### Series 90 Motors

<table>
<thead>
<tr>
<th>Type</th>
<th>S90M (Axial Piston Motor)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement (cm³/rev)</td>
<td>055 / 075 / 100 / 130</td>
</tr>
<tr>
<td>Max. Pressure (bar)</td>
<td>480</td>
</tr>
<tr>
<td>Mounting Flange</td>
<td>SAE, Cartridge</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Type</th>
<th>H1P (Axial Piston Variable Pump)</th>
<th>H1B (Bext Axis Motor)</th>
</tr>
</thead>
</table>
| 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 |
| Displacement (cm³/rev) | 045 / 053 / 060 / 068 / 069 / 078 / 089 / 100 / 115 / 130 / 147 / 165 / 210 / 250 |
| Max. Pressure (bar) | 480 (053 & 068 : 400, 045 & 060 : 450)  
480 |
| Mounting Flange | SAE |
|                   | SAE, DIN, Cartridge |
Work Function
Open Circuit Axial Piston Pumps, Orbital Motors and Valves for Combine Harvester

- 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

<table>
<thead>
<tr>
<th>Type</th>
<th>Displacement (cm³/rev)</th>
<th>Max. Torque (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMP-X</td>
<td>25 - 400</td>
<td>40 - 400</td>
</tr>
<tr>
<td>OMR-X</td>
<td>50 - 400</td>
<td>100 - 400</td>
</tr>
<tr>
<td>OMS</td>
<td>80 - 500</td>
<td>240 - 850</td>
</tr>
<tr>
<td>TMT</td>
<td>250 - 630</td>
<td>940 - 1830</td>
</tr>
</tbody>
</table>

Open Circuit Pumps | Designed for durability and flexibility

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

Valves | Directional and Proportional

<table>
<thead>
<tr>
<th>Type</th>
<th>Oil Flow Rated (l/min)</th>
<th>Max. Pressure (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 80</td>
<td>80</td>
<td>320</td>
</tr>
<tr>
<td>PVG 16</td>
<td>60</td>
<td>380</td>
</tr>
<tr>
<td>PVG 32</td>
<td>130</td>
<td>350</td>
</tr>
</tbody>
</table>
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
• Displays
• Electrohydraulic Power Steering
• Electrohydraulics
• Hydraulic Power Steering
• Integrated Systems
• Joysticks and Control Handles
• Microcontrollers and Software
• Open Circuit Axial Piston Pumps
• 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](http://www.powersolutions.danfoss.com) for further product information.

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