Electrohydrostatic Pump Units (EPU) are emerging as viable options for industrial machine builders seeking compact alternatives to traditional hydraulic or electromechanical motion control solutions.

The Moog EPU is at the heart of electrohydrostatic actuation and combines the advantages of both actuation technologies in a self-contained product delivering high energy efficiency and environmental cleanliness. It enables the deployment of a decentralized drive system which eliminates the need for a hydraulic power unit and complex piping, thereby reducing the overall machine footprint.

The compact product design also features a unique interface that enables direct mounting on to a cylinder minimizing the requirement of additional space on each axis and reducing the number of components required.

The Electrohydrostatic Pump Unit is available either as a stand-alone product or as an entire system, called the Electrohydrostatic Actuation System (EAS). The EAS combines the electrohydrostatic pump unit and any optional parts a customer might need, such as servo drives, manifolds, or cylinders. All components are Moog products that meet the highest standards of reliability and quality.

**ADVANTAGES**
- High energy efficiency
- Increased productivity
- Reduced machine footprint
- Reduced maintenance costs and total cost of ownership (TCO)

**APPLICATIONS**
- Metal forming and presses
- Injection molding and die-casting
- Gas and steam turbines
- Wind turbine pitch control
- Marine
- Heavy industry
## Specifications

### Maximum Flow

<table>
<thead>
<tr>
<th>EPU Series</th>
<th>19 ccm</th>
<th>32 ccm</th>
<th>80 ccm</th>
<th>140 ccm</th>
<th>250 ccm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Flow</td>
<td>85 l/min (22.5 gpm)</td>
<td>118 l/min (31.2 gpm)</td>
<td>216 l/min (64.8 gpm)</td>
<td>322 l/min (685.1 gpm)</td>
<td>450 l/min (118.9 gpm)</td>
</tr>
</tbody>
</table>

### Maximum AB Pressure

350 bar (5,000 psi)

### Pump Version

Radial piston pump, fixed or dual displacement

### Motor Version

Brushless servo motor, natural or liquid cooled

### Temperature Range

- Ambient: -15 to +60 °C (+5 to +140 °F)
- Fluid: -15 to +80 °C (+5 to +176 °F)

### Seal Material

FKM

### Pilot Pressure Supply

External

### Operating Fluid

Mineral oil according to DIN 51524, HFD, others upon request

### Viscosity

Allowable viscosity operational range 12 to 100 mm²/s (12 to 100 cSt); Recommended hydraulic fluid viscosity class VG 46 to VG 100 according to ISO 3448; Maximum viscosity 500 mm²/s (500 cSt) during start-up with electric motor at 1,800 r/min

### System Filtration

- NAS 1638, class 9
- ISO 4406, class 20/18/15; obtained with filter fineness of β20 = 75

### Installation Position

Any

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For product information, visit

www.moog.com/industrial

For service information, visit

www.moogglobalsupport.com

This technical data is based on current available information and is subject to change at any time. Specifications for specific systems or applications may vary.