



The Chen Hsong Group
震雄集團

50 YEARS OF TRUST

JETMASTER-SVP/2 Servo Drive Large Series

Toggle Clamping
JETMASTER SVP/2 Servo Drive Large Series

Energy Saving Series



Driven by a revolutionary intelligent servo system, the second-generation SVP/2 power pack combines a fast-response gear pump with a high-precision servomotor, integrated with a proprietary servo-drive into an affordable package that guarantees the highest response, highest precision and lowest power consumption at the same time.

Injection Unit

- High resolution potentiometers provide superior positional control precision
- Nitrided injection screw and barrel with supreme anti-wear properties and long useable life
- Compact twin injection cylinder design
- Back pressure control
- Balanced dual-cylinder design provides secure holding pressure for injection carriage and prevents drooling (on certain models)
- Screw and barrel maintenance are made easy with pivot cylinder to turn injection unit (on certain models)
- PID barrel and nozzle temperature control ensures high melt quality
- Radial piston-type hydraulic motor drives the screw directly. The high torque is able to process a wide range of materials with optimal melt quality and mixing, effectively shortening recovery time
- Cold-start prevention ensures that the screw does not rotate until the preset temperature profile is reached

Exclusive Circular Platen (Patent)

China Utility Model Patent ZL01 2 57876.2

- Even stress distribution to moulds, improves production stability and quality
- Greatly reduces stress concentration, lengthens mould life
- Enhanced stress distribution, guaranteed for ten years[#]

Clamping Unit

- T-slot (Optional)
- Designed via finite element analysis with a focus on high structural integrity
- Adjustable slider supports movable platen
- High-tensile tie-bars, induction hardened, with chrome-plated surfaces
- Automatic mould height and clamping force adjustment
- Electrical, mechanical and hydraulic safety devices
- Regenerative hydraulic circuit shortens cycle time and enhances efficiency
- Multiple ejector system
- Core pulling devices
- Multiple cooling water distributor
- Electrical/ pneumatic automatic front guard door (on certain models)
- Low pressure mould protection feature effectively prevents mould damage
- Mould height adjustment by hydraulic motor combined with gear mechanism

Multi-pump Combination Hydraulic Power System (Patent no.: ZL200910192111.6)

The patented Multi-pump Combination Hydraulic Power system, provide closed-loop control with single-pump pressure and rapid pressure relief. Highest energy efficiency is achieved while maintaining fast response, low-impact pressure and high control accuracy.

Intelligent Servo System

Energy Saving

Saves up to 80% of electricity compared to traditional fixed pump systems*

Ultimate Precision & Repeatability

Up to 0.5% repeatability even under extremely low speed & prolonged holding conditions

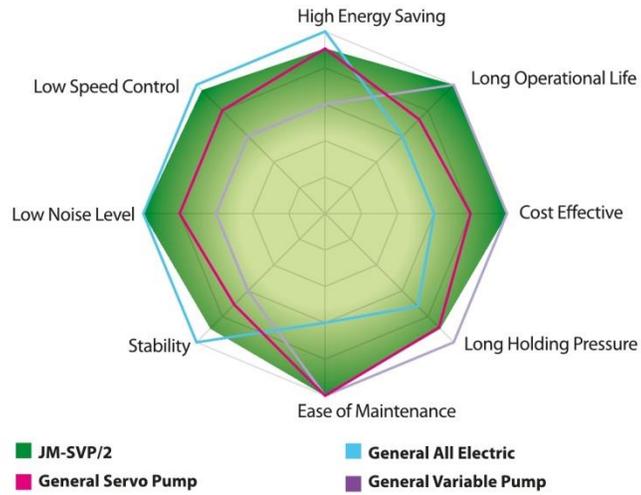
Ultimate Response

The response speed is more than double of a variable displacement pump

Long Operational Life

Low oil temperature conserves cooling water and reduces the need for hydraulic oil thus extends the useable lives of hydraulic parts

*Subject to different product applications and cycle times.



Items	JM-SVP/2	General Servo Pump	General All Electric	General Variable Pump
High Energy Saving	✓	✓	✓	●
High Precision	✓	●	✓	●
High Repeatability	✓	●	✓	●
Dynamic Response	✓	✗	✓	●
Low Speed Control	✓	●	✓	✗
Long Holding Pressure	✓	●	✗	✓
Low Noise Level	✓	✓	✓	✗
Low Cooling Water Consumption	✓	✓	✓	✗
Long Operational Life	✓	●	✗	✓
Ease of Maintenance	✓	✓	✗	✓

✓ Excellent ● OK ✗ Weak