



Haitian Mars/G Series

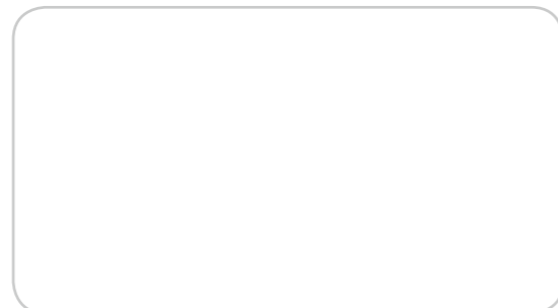
Haitian Mars/G Series Specifications 860-10000KN



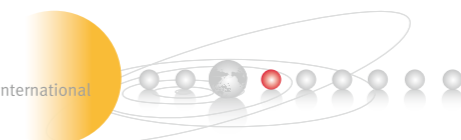
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Haitian Mars/G Series

Servo drive energy-saving injection molding machine

Haitian is dedicated in providing customers with new technology to improve the production of their plastic parts. Our close cooperation with customers provide a better understanding for the challenges the injection molding industry has to face.

The Haitian Mars/G Series injection molding machine incorporates the latest energy saving technologies

With a robust design and a strong mechanical structure, the machine is optimized for durability and a long working life.

An intelligent user-friendly control system provides for an easy and reliable machine setup for precise molded parts.



- Aspiration for Excellence:** Continuous improvement with customer communication for optimized growth
- Quality Assurance:** Vertically integrated manufacturing with international quality practices
- Strong and Flexible:** Modular machine design with variable machine configurations
- Professional Service:** Prompt and efficient service support
- Safe Operation:** Global safety standards according to your region are strictly followed and compliant



Multi-point Ejection System
A great advantage for molds with different ejection requirements



Various Plasticizing Screws
A wide range of screw designs is available according to your material processing requirements



Automatic lubricating system
The clamping unit is optimized for precise lubrication of all moving parts



High performance servo motor
Highly responsive with closed loop control for stability and precision



Excellent injection performance
Twin-cylinder injection unit with strong guide system ensures durability and precision during the injection/charging stages of the molding cycle

Haitian Mars/G Series

Servo Drive energy-saving injection molding machine

Patented Servo Hydraulic Drive System for Injection Molding Machines

Haitian is the global leader for servo hydraulic plastic injection molding machines.

The Mars Series machine was launched in 2007 and has become an industry bench mark with more than 120,000 machines sold.

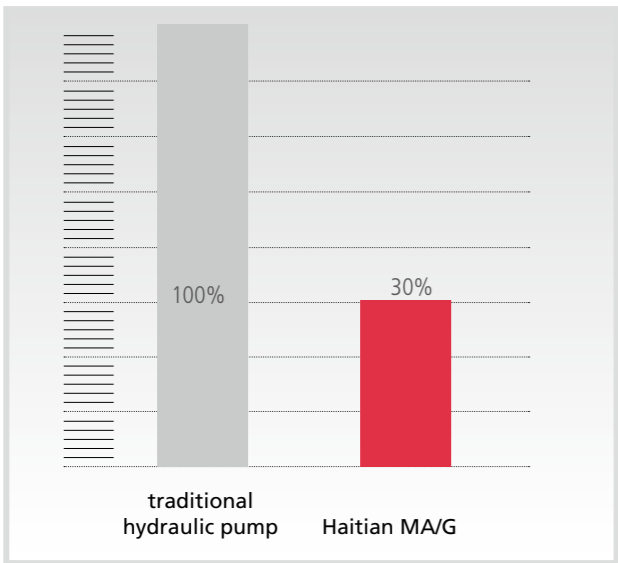
Our patented servo motor/gear pump drive system was designed as a whole and is not a combination of standard market components as used by our competitors.

This translates into a significant advantage for repeatable high precision and low energy consumption for different molding applications and processing materials.



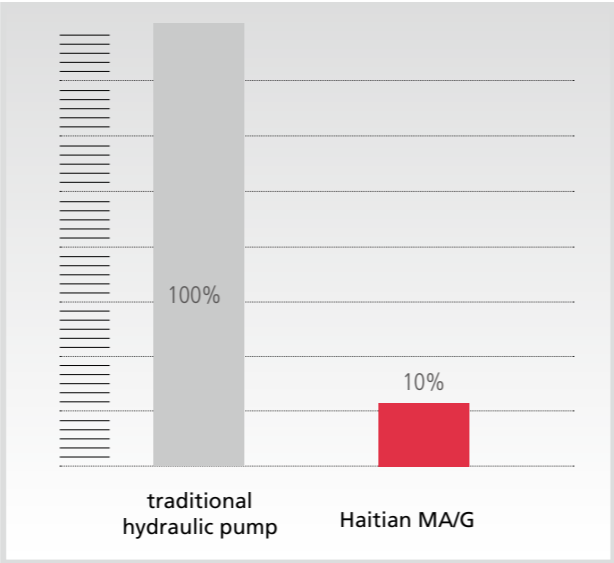
Servo motor with counter-rotation gear pumps

Power consumption



The Mars II drive system provides significant cost savings for machine energy consumption compared to traditional hydraulic drive systems.

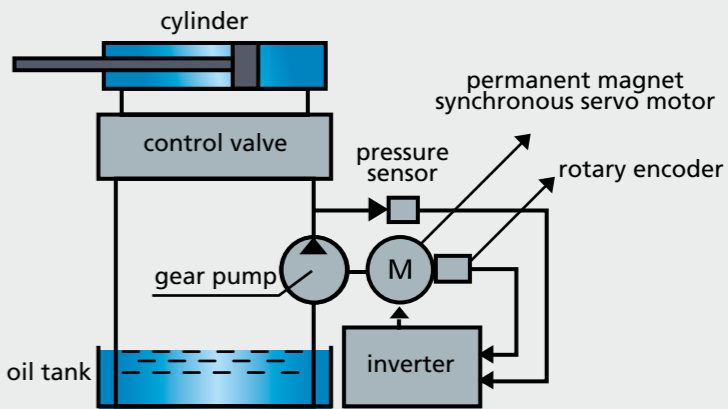
Water consumption



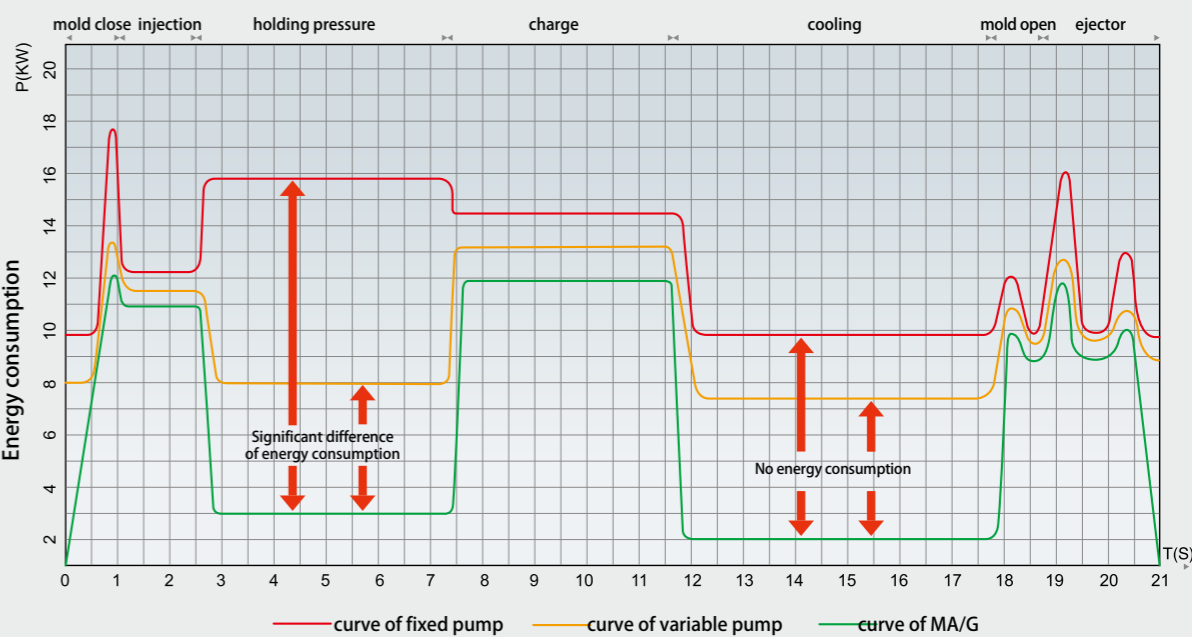
The consumption of hydraulic oil cooling water is dramatically reduced due to the on-demand control of the servo drive system. Only the required quantity of oil is used during each stage of the machine cycle, which eliminates bypass oil wastage as found in traditional hydraulic systems.

Servo Hydraulic Drive System

The drive system utilizes a rotary encoder with pressure transducer for closed control for all machine movements. The precision and repeatability guarantees consistent molding parameters during the complete molding cycle. Fast speed and pressure changes provide a broad processing window for the molded part.



Quick response of drive system:0.05s
Energy saving rate:30-80%



Excellent energy-saving drive system

The drive system automatically adjusts the oil pressure and flow according to each stage of the molding cycle. The motor speed constantly changes to exactly meet the requirements to avoid any wastage, significantly reducing the energy consumption of the machine. During the cooling stage of the molding cycle, the motor stops, preventing undue energy consumption. This is a great advantage for thick-walled parts requiring long cooling times. Another significant advantage of the servo drive system is the energy consumption during the "holding stage" of the molding cycle. The motor reduces its speed to only deliver the oil flow needed to maintain the actually required pressure. Energy savings of 30% to 80% are achievable according to the respective parts.