High-performance servo system

节能百分之三十到八十

1.Super Energy Saving

Output power change by changing of the load, no more excess energy wasted. In the holding pressure stage, the servo motor will reduce speed with lower energy consumption; during the cooling down period, the motor will not operate with zero power consumption. Compared with the ordinary injection molding machines, it can be saved 30% - 80% of power.

2.High Precision and High Stability

Installed with precise pressure sensor, rotary encoder and pressure transducer, it can respectively monitor and control on flow and pressure. Based on the feedback, the high performance synchronous servo motor will adjust flow and pressure according to change the speed and torque. The closed-loop control can ensure the stability of product quality.

3.High Response and High Efficiency

The driving system responses with high sensitivity. It takes only 0.05 seconds to reach maximum value. The response speed is much more faster than the ordinary injection molding machines. In this way, it significantly reduced the cycle time and increase the production efficiency.

AX伺服节能注塑机 AX series servo energy-saving injection molding machine

高性能的伺服电机动力控制系统

1、超强节能

输出功率随负载变化而变化，不存在多余能量的浪费，保压阶段伺服电机低速运转，耗能极低，冷却阶段电机不工作，耗电为零。与普通注塑机相比，节能达30%-80%。

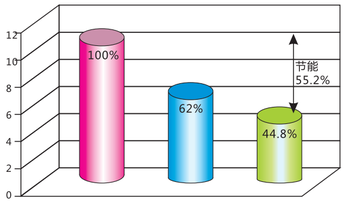
2、精密、稳定

配备高精度、高灵敏旋转编码器、压力传感器，分别对流量与压力进行监控与反馈。依据反馈信息，高性能同步伺服电机通过改变转速和扭矩对流量与压力进行相应调整，形成高精密闭环控制，从而确保产品质量的稳定。

3、高效应、高效率

伺服节能注塑机的驱动系统响应灵敏迅速，仅需0.05秒即可达到最大输值。响应速度远远快于普通注塑机驱动系统，从而显著地缩短了成型周期，生产效率得到大幅度提高。

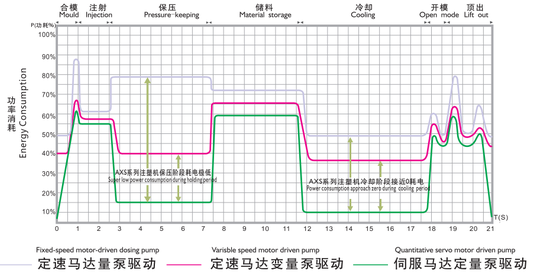
Power Consumption/perhour
耗电量/小时



根据产品不同最高节能可达80%
Energy saving can attain by 80% according to different products

传统定量泵液压注塑机 Fixed-pump machine
开环变量泵注塑机 Variable pump machine
伺服节能注塑机 Servo machine

The comparision of different systems power consumptions
系统功率消耗比照





Comparing with traditional machine, AX servo series can save more than 50% of power which is equal to full electrical machine, energy saving is obivious during pressure hold & cooling stage.

耗费电力是传统液压注塑机的50%以下，与全电动注塑机同等，特别在保压、冷却阶段，节能效果尤为突出。

Servo-motor injection molding machine is energy-saving and loaded with high-performance servo motor power control system; its power output can vary with load change, which makes no excess energy loss; the servo motor automatically reduces rotation speed at the stage of pressure holding and without working at the stage of cooling, which will saves energy and water consumption, improve injection accuracy, and reduce the noise.

伺服节能注塑机装载了高性能的伺服电机动力控制系统，伺服电机输出的功率随负载变化而变化，不存在多余能量的损耗，保压阶段电机降低转速，能耗极低，冷却阶段电机不工作，能耗为零，提高注射精度的同时，大幅度节电、节水、降低噪音。真正实现了液压注塑机的一次全新革命。