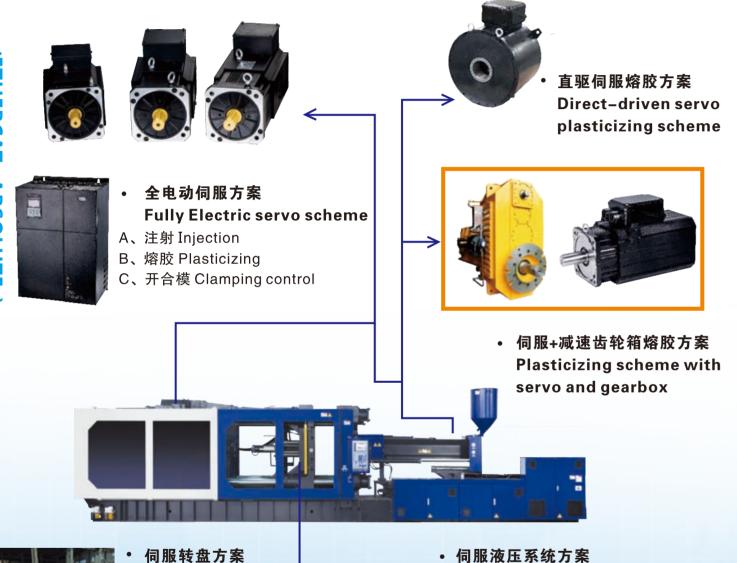


Four Application Fields 四大应用领域





伺服转盘方案 Servo turntable scheme





Servo hydraulic system scheme





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PROFESSIONAL MANUFACTURER OF SERVO MOTORS, SERVO DRIVES AND SERVO SYSTEMS

伺服电机、伺服驱动器及伺服成套系统的专业制造商

Electronic-Hydraulic Servos 电液伺服







盛迈 电液 伺服 系统 的特点是性能稳定,油泵、电机和驱动器的匹配性好,流量和压力的 控制精度高,动态响应快。电液系统的功能丰富、支持多泵合流/分流模式、整体节能效果 好』售后服务简单。

Synmot electro-hydraulic servo systems are highly integrated systems, with the

perfect matching of pumps, motors and drives. It can achieve precise flow and pressure control, and the dynamic response is fast. Synmot electro-hydraulic servo systems support multi pump confluence control, with excellent energy-saving performance and simple maintenance.

- 1、电液用风冷式伺服电机,含190/200/260/360mm 四个机座号系列
- 效率高,响应快,转子采用高性能的稀土永磁材料,运行可靠
- 低惯量,大过载力矩,易于提高系统的快速性
- 采用非线性补偿d-q轴电流控制技术,将转矩控制精度从土5%
- 采用多对极全塑封旋变, 防护等级高、可靠性强, 相比单对极 旋变. 分辨率更高. 速度更加平稳。



- High efficiency, fast response, using high-performance rare earth PM materials, highly reliable.
- Low inertia and high peak torque, to achieve excellent dynamic performance.
- Adopting none-linear parameter compensated d-q axis current control techniques, improve the torque control accuracy from $\pm 5\%$ to $\pm 2\%$,
- Using multi pole- pair plastic- coating resolver, fully protected, high reliable. Compared with single pair polar resolver, high resolution and smooth operation.
- 2、电液用油冷/水冷式伺服电机,含200/260/360/450mm 四个机座号系列
- 采用定子外壳液冷技术
- 防护等级更高,更可靠、更安全
- 相对风冷电机,整机运行噪音小,温升更低
- 体积小, 速度响应快, 峰值扭矩大。
- oil/water-cooling electro- hydraulic servo motors including 200/260/360/450 frame sizes.
- Stator housing liquid cooling design.
- Higher level of protection, more reliable and safety.
- . Comparing with air- cooling motors, low noise and low temperature rise. Small volume size, high speed response, high peak torque

Fully Electrical Servo Systems 全电动伺服

全电动伺服电机系统

作为塑机的注射、熔胶和开合模的执行机构,其主要特点:

- 响应快,效率高,提升单位产能
- 噪音小, 无油污, 耗能小, 节能环保
- 优化的电机和驱动设计,保证产品整体性能的同时,提高了产品 的性价比, 在中小塑机应用领域, 增强了竞争力。

Fully Electric servo motor systems

to control injection, plasticization, clamping action, its main

- Fast response, high efficiency, improve machine productivity.
- Low noise, no oil stain, energy saving and eco-friendly.
- Using German absolute encoder, high control accuracy and
- smooth operation, better product quality. Optimized motor and drive design account for the application
- improve the overall performance, and better cost performance.

塑机转盘伺服电机系统

相比由传统液压马达驱动转盘的系统,其主要特点。

- 不使用液压油, 无漏油等问题, 进而提升产品质量
- 耗能更小, 节能环保
- 优化快速正反转位置控制,精度高,提升产品品质
- 采用日本绝对值编码器,精度高,速度运行平稳,噪音小。

Turntable servo systems for Injection molding machines Compared to turntable system driven by hydraulic system, its main

- No hydraulic oil, no leakage phenomenon, improved product quality.
- Less energy consumption, energy saving and environmental friendly. Optimizing fast rotating position control, high precision, better product
- Using Japanese absolute encoder, high position accuracy and smooth
- operation, better cost performance.



Synchronous Plasticizing Servos

同步熔胶伺服

采用传统液压系统实现同步熔胶

- 耗电量大,通过液压马达进行熔胶动作,效率低,耗电量大
- 结构复杂,通过液压系统实现,整机结构复杂
- 速度不稳定,由于不同负载下熔胶马达内泄不一致,引起熔胶转速不稳定。

Using traditional hydraulic system to realize synchronous plasticization Disadvantages:

- High power consumption. Using oil hydraulic motors, inefficient, large power consumption.
- Complicated structure. Using the hydraulic system, the whole structure is complicate.
- Speed is not stable. Due to the leakage variation of oil motor under different load, cause the melting speed unstable.



High speed servo motor+ Gearbox

One



采用伺服系统实现同步熔胶(二种方案)

- 伺服电机+减速机构
- 大扭矩直驱伺服电机

优点:

- 节能:伺服电机驱动,效率更高、更节能
- 结构简单:由伺服驱动器+伺服电机(或伺服电机+减速机构)进行驱动,结构简单
- 速度稳定:通过编码器反馈实现闭环控制,速度稳定性高
- 采用大扭矩直驱伺服电机时, 机械免维护, 没有减速机构, 无需润滑与维护。

Synchronous plasticization using servo systems (Two options)

- Servo motor + reduction gearbox
- . Direct-driven servo motor

Advantages:

- Energy Saving: operating with servo motors, high efficiency, more energy saving.
- Simple structure: servo drive+servo motor (or with gearbox) control, simple structure.
- Stable speed: Implement of closed-loop control with encoder feedback, smooth operation.
- When using direct-driven motors, mechanical maintenance-free, no gearbox, no lubrication and maintenance.