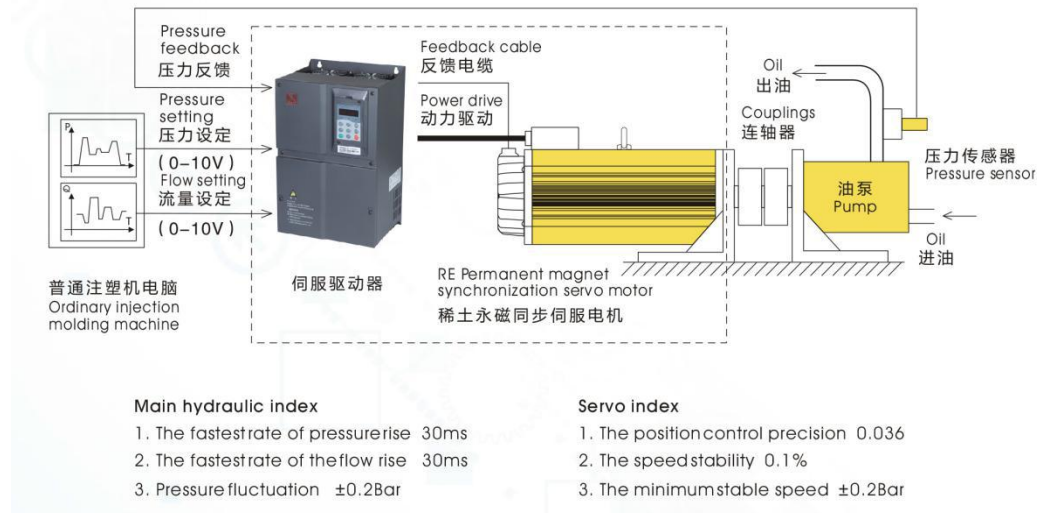


Servo system for injection molding machine

Xingtai XT690 Series servo drive uses the flow, pressure closed loop control, combined with the perfect efficiency of weak magnetic control, brings the injection molding machine system more energy efficient, precision, efficient and quiet running effect, in the market have many mature modification and application cases, across thousands of machines in stable operation.



Single servo system & Multi servo system

Xingtai servo system supporting for hydraulic system, size upto 75kw to meet the supporting requirements of injection molding machine of below 650T or 320LPM flow.

Servo system selection for injection molding machine

140Bar System pressure

Servo drive		Servo motor		Pump	Selection Machine size	
Model No.	Power(kw)	Model No.	Power(kw)	Pump size	System Flow	Machine Tonnage
XT690T070	15	D1005F.20.3	12	32cc	60L	72-90T
XT690T070	15	D1007F.20.3	18.2	40cc	80L	128-158T
XT690T085	22	D1008F.20.3	20.4	50cc	100L	168-198T
XT690T130	30	D1010F.20.3	28.3	63cc	120L	200-250T
XT690T170	37	D1013F.20.3	36.7	80cc	160L	280-300T
XT690T210	45	D1315F.18.3	39	100cc	200L	320-360T
XT690T240	55	D1320F.18.3	44	125cc	250L	408-520T
XT690T320	75	D1330F.18.3	67	160cc	320L	580-650T

160Bar System pressure

Servo drive		Servo motor		Pump	Selection Machine size	
Model No.	Power(kw)	Model No.	Power(kw)	Pump size	System Flow	Machine Tonnage
XT690T070	15	D1005F.20.3	12	32cc	60L	72-90T
XT690T085	22	D1007F.20.3	18.2	40cc	80L	128-158T
XT690T130	30	D1008F.20.3	20.4	50cc	100L	168-198T
XT690T130	30	D1010F.20.3	28.3	63cc	120L	200-250T
XT690T170	37	D1013F.20.3	36.7	80cc	160L	280-300T
XT690T240	55	D1320F.18.3	44	100cc	200L	320-360T
XT690T240	55	D1325F.18.3	55	125cc	250L	408-520T
XT690T320	75	D1330F.18.3	67	160cc	320L	580-650T

However , Multi sets servo system installed parallel give solution to big tonnage injection molding machine like system flow upto 4000L/min. Professional servo system solution will be offered by Xingtai Servo once you tell the injection molding machine system flow and pressure data.



Benefits of Servo system

Injection molding machine with servo motor make a different action with the corresponding power to provide power, such as the machine does not move, servo motor will stop completely.

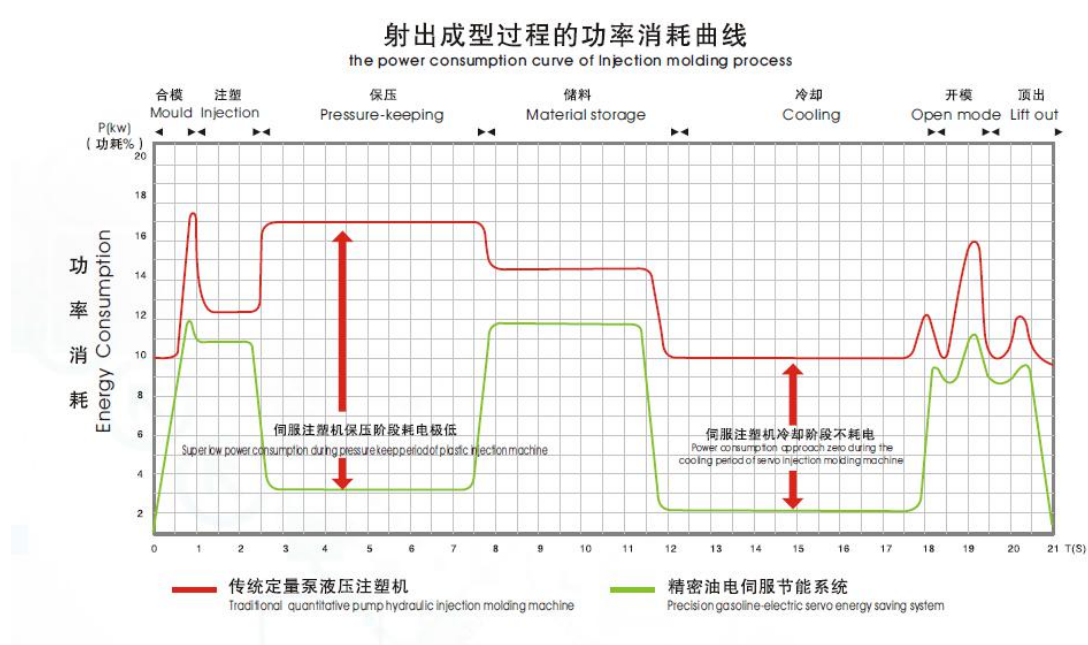
That means when your injection molding machine run with servo , it will save you lot of energy power. The most important thing is to save cost and increase the competitiveness of production enterprises. To retrofit a injection molding machine to save 30% to 80%, the cost of saving of one year is the benefit of the manufacturer.

Advantage of Xingtai Servo system



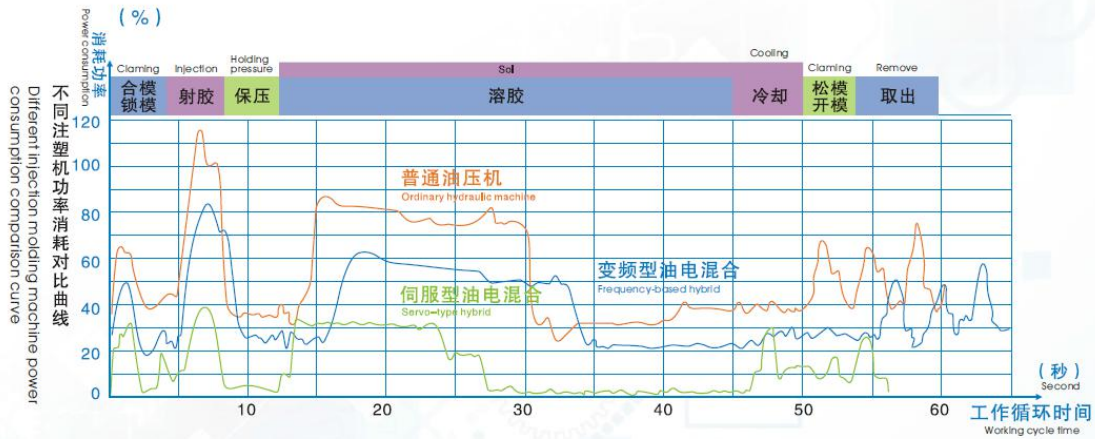
High energy saving

1. Saving the waste at high pressure section of traditional technology
2. Improving the motor efficiency : XingTai Servo Motor is high efficiency motor ,under the average condition on injection ,the efficiency of XingTai Servo Motor is 10% higher than traditional three-phase asynchronous motor.
3. Saving the consumption of the hydraulic cooling system.



High precision

1. High position repeat precision :XingTai servo high anti-moving around ability and high response ensure the repeat precision of clamping and injection at $\pm 0.1\text{mm}$;with high response computer,multistage speed injection point deviation could be 0.1mm .
2. High pressure control precision: XingTai servo high response ,the pressure of pressure closed-loop control mode system is rather stable,pressure fluctuation less than $\pm 0.2\text{bar}$,improving the quality of molding plastic products;XingTai servo suited to use on two board machines and other precision injection molding machine.



High performance

- 1.High efficient: XingTai servo system use the slender structure motor,with the most advanced high-speed DSP computing device,realized the magnetic field oriented vector control strategy.
- 2.High speed:XingTai servo motor speed rise under constant power,increase the pump displacement when keeping pump low speed and high pressure.
- 3.High response: XingTai servo with high response ,the pressure rise and flow rise as fast as 30ms,improving the response speed of hydraulic system ,reducing the action transfer time ,speed up the complete machine running tempo.

