



L.K. MACHINERY, INC.

SERVO EFFORT

Energy Saving Injection Molding Machines



A NEW ERA INJECTION MOLDING MACHINE

The Servo Effort integrates the advantage of full electric and hydraulic type machines to achieve incredible Energy Savings and Low Noise.

Energy Saving

The Servo Hydraulic Pumping System only delivers power when it is needed. Produces energy savings from 20% to 50% or more!

Stable and Precise

The close loop system inside the servo motor provides stable pressure and flow rate to maintain the high performance of the machine. The resolution of the servo motor is 1/1024 Rpm, so the position control is very accurate.

SERVO EFFORT Energy Saving Analysis

Product:	LED PCB frame	Material:	PC
Cavities:	1	Weight	179.3g
Product dimension: (LxWxH)	257mm x 257mm x 30mm		
Testing criteria	Count the cycle time of various machines with same specifications and parameters producing same product		



Items	160T FVP Direct Hydraulic Clamp	160T open loop VDP Direct Hydraulic Clamp	160T close loop VDP Direct Hydraulic Clamp	160T servo pump Direct Hydraulic Clamp
Cycle time (S)	34.5	34.5	34.5	34.5
Productivity (PCS/hour)	103	103	103	103
Power consumption (KW/H)	15.5	11.2	10.8	8.5
Annual Power consumption (KW/Y)	135780	98112	94608	74460
Annual electrical cost (RMB)	108624	78489.6	75686.4	59568
Energy saving (?)	0%	27.7%	30.3%	45.1%
Remarks		Compare to Traditional machine	Compare to Traditional machine	Compare to close loop VDP is 21.2%

Calculation is base on 24 hours per days in one year (365), electrical fee is 0.8/kw.



L.K. MACHINERY, INC.

12480 Superior Court, Suite 2
Holland, MI 49424

P: 616.796.0777

F: 616.582.6060

E: sales@lkadvantage.com