Synmot

Servo Motor and Servo Driver Professional Manufacturer 200W-160KW

Servo Energy-Saving Provider 30%-80%

China sole manufacturer of servo system in hydraulic servo energy saving retrofitting

Zhejiang Synmot Electrical Technology Co., Ltd.

Servo System Advantage

Environment Friendly: **Reduce the hydraulic oil usage and extend the lifetime, save 30% cooling water usage and reduce noise efficiently.**

Energy Saving: **Energy saving rate up to 80%.**

Precision: **Pressure and Flow double loop control, provide Pressure and Flow compensation timely and properly,improve product repeat accuracy efficiently.**

Efficient: **Increase product mold cycle by 5%-10%.**

Stable: **Hydraulic oil temperature little difference, improve the machine reliability, durability, stability, extend the machine lifetime.**

Servo System Application-Injection Molding Machine

Complete double pressure and flow close-loop control in 50ms

Synmot Company Advantage

Main Features:

1.Professional and Integrate manufacturer of Servo Motor and Servo Driver.

2.Strong technical and research team, special customized products and services.

3.Hydraulic energy saving whole solution and full chain service.

4.Rich manufacturer experience and professional solution of Injection Molding Machine.

5.Strong after-sale service team.

Advance technology:

1.Professional Electrical and Hydraulic Servo System detection devices.

2.Chief Engineer--Dr.Yangsheng Chen as senior engineer in SIEMENS, CT more than 10 years, won more than 30 inventions and utility model patents, now as National Electric Expert, Professor Senior Engineer, Professor of Zhejiang University and Leader of Electrical College.

3.Absorbed Advance Technology and management team from Taiwan Delta, Foxconn etc.

4.Professional After Sale Service team, keep the after sale service quality of the product.

Servo Energy saving retrofitting cases

Case 1: China Huaxiang Group

China private enterprise top 500, World automobile parts top 500.

Injection molding machine model: HTF2800X/1		Fixed Pump	Servo System	Performance	Per set save power charge $ 63504 USD, payback period 11.6 months.
Cycle time	S	115	107	↓ 7 %	
Hourly power consumption	KW·H	97	34	↓ 64.9 %	
Annual power consumption	KW·H	698400	244800		
Oil pump	℃	55	48	↓ 12.7 %	

Injection molding machine retrofitting model: HTF2800X/1

Molding product:Car front frame

Molding material: PA6-GF40

Cycle time: 115S

Test time: one week

Case 2: China Taiwan Jianzhun Group

SUNON Brand, Fan industry world's top three.

Injection molding machine model: HC-125		Fixed Pump	Servo System	Performance	Per set save power charge $ 3326 USD, retrofit 114 sets, save power charge 379164 USD, payback period 13.2 months.
Cycle time	S	27. 3	26. 1	↓ 4 %	
Hourly power consumption	KW·H	4. 5	1. 2	↓ 73 %	
Annual power consumption	KW·H	32400	8640		
Oil pump	℃	43	40	↓ 6 %	

Injection molding machine retrofitting
Model: HC-125

Molding product: Fan

Molding material: PA66

Cycle time: 27.3S

Test time: one week

浙江盛迈电气技术有限公司

安装调试验收报告

记录编号：2012052601

客户名称：佛山建准电子有限公司					对应合同（或相应单号）：2012031605
客户地址： 佛山市夏南二大道五号					联系人及电话：陈忠和（经理）
盛迈安装调试人员：陆军					安装调试日期：2012 年 5 月 22 日
安装调试设备	名 称	型 号	单位	数量	出厂编号
	伺服动力系统	SM-0090L0067Q-111	套	55	
	伺服动力系统	SM-0120L0084Q-111	套	32	
	伺服动力系统	SM-0160L0105Q-111	套	27	
		共计		114	
安装调试结束日期：4 月 12 日-4 月 30 日		验收日期：5 月 26 日			客户验收人员：陈忠和

验收结论：
设备已按合同要求进行配置，安装调试完毕后正机器正常使用，且达到如下要求：
a)、经改装前后节能测试，电机部分节能率达到 82% 以上；
b)、油喉、油管、油管接头、压力表等无漏油、扭曲；
c)、系统最高压力调整设定 14Mpa, 显示压力 14 ±0. 5Mpa, 符合设备性能要求；
d)、设压力 1. 5Mpa, 显示压力<2Mpa，符合设备性能要求；
e)、流量设定 99%时，电机转速达到 2100 转/分, 达到流量配置要求；
f)、原机所拆封板复原无遗漏，控制箱连接线走线合理。
其它双方协商还要完善事项：
a)、_____；
b)、_____；
c)、_____；
d)、_____；
e)、_____；
f)、_____。

客户代表签字： 陈忠和 盛迈代表签字：

浙江盛迈电气技术有限公司技术支持部电话：0574-87646791
传真：0574-87646792
地址：宁波市江北区长兴路 158 号

Case 3: China Beifa Group

Leading enterprise of pen Industry in China

Injection molding machine model: HTF150X/1		invert	Servo System	Performance	Per set save power charge $ 3427 USD, retrofit 126 sets, save power charge 431802 USD, payback period 14.2 months.
Cycle time	S	33. 4	30. 9	↓ 7 %	
Hourly power consumption	KW·H	5. 8	2. 4	↓ 58 %	
Annual power consumption	KW·H	41760	17280		
Oil pump	℃	48	42	↓ 12. 5 %	

Injection molding machine retrofitting
Model: HTF150X/1
Molding products: pen
Molding material: PP
Cycle time: 33.4s
Test Time: one week

Symot 浙江盛迈电气技术有限公司

盛迈电气伺服动力系统节能改造案例

客户		贝发集团		
机器型号	HT150	测试条件：相同产品、相同机型、不同动力系统 2 台机，稳定生产 3 小时后，连续生产 2 小时各项记录。		
伺服动力型号	SM-14-0088			
产 品	笔杆（1 出 14）			
材 料	PP			
动力系统		定量泵系统	伺服动力系统	备 注
成型周期	秒	33.4	30.9	
合计模数	次	108	116	
生产效率			+7%	效益提高按 80 元/班 ×0.07 ×3/班×300/天=5040 元
小时耗电	度/小时	6.3	4.0	每小时省电 2.3 度
年耗电	度	37800	24000	耗电按 300 天，20 小时
年所需电费	元	37800	24000	电费按 1.0 元/度计
年节省电费	元		13800+3024 +5040=21864	年效率提高+节电总额为 21864 元
改造成本	元		29130	
回收周期	月		15 月	
产品合格率		98%	100%	产品合格率提高
重复精度		0.55%	0.3%	重复精度提高

根据实际数据：注塑机在节能改造后生产制笔配件的过程中，相比传统定量泵系统节能 50%左右

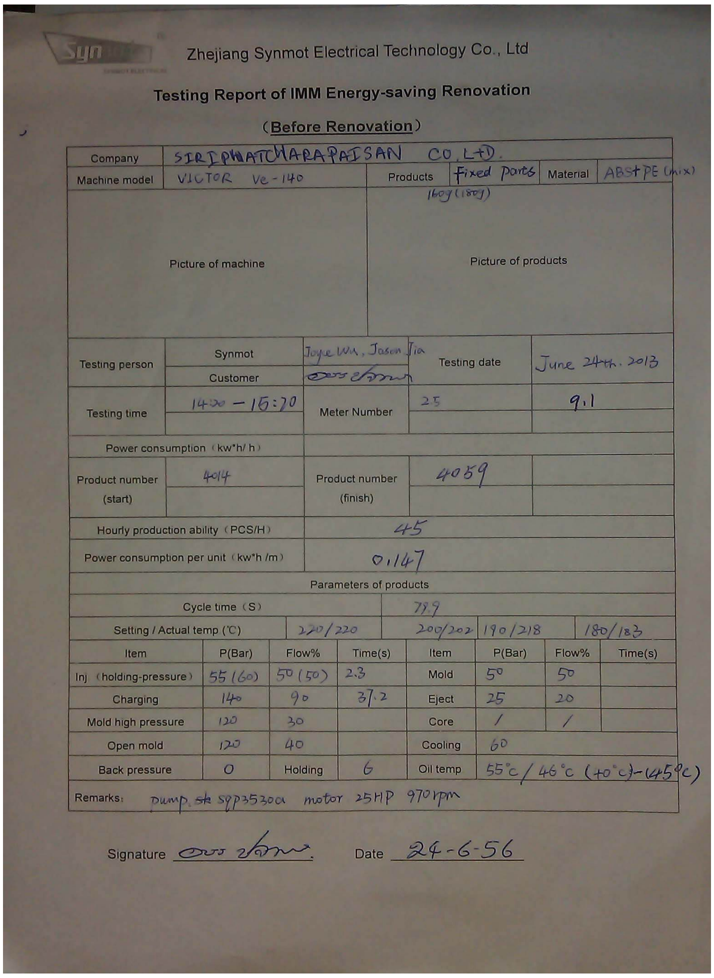
根据产品不同（如壁后较厚、保压时间长、冷却时间长的产品），改造后相比传统定量泵节能甚至可达 80%。

Case 4: Thailand SIRI PHATCHARA PAISAN Co.,Ltd

Injection molding machine model: VICTOR Ve-140		Fixed Pump	Servo System	Performance	per set save power charge $ 2808 USD.
Cycle time	S	79. 9	78. 3	↓ 2 %	
Hourly power consumption	KW·H	6. 6	3. 6	↓ 45. 4 %	
Annual power consumption	KW·H	47520	25920		
Oil pump	℃	50/46-45	37/36	↓ 26 %	

Injection Molding Machine retrofitting model:VICTOR Ve-140
Molding product: fixed parts

Molding material: ABS+PE(mix)
Cycle time: 79.9S
Test time: one week



Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(Before Renovation)

Company	SIRIPHATCHARAPAISAN CO,LTD.				
Machine model	VICTOR Ve-140	Products	Fixed parts 160g (180g)	Material	ABS+PE (mix)
Picture of machine		Picture of products			
Testing person	Synmot: Joyce Wu, Jason Jia / Customer	Testing date	June 24th. 2013		
Testing time	14:20 – 15:20	Meter Number	25	9.1	
Power consumption (kw*h/ h)					
Product number (start)	4014	Product number (finish)	4059		
Hourly production ability (PCS/H)	45				
Power consumption per unit (kw*h /m)	0.147				

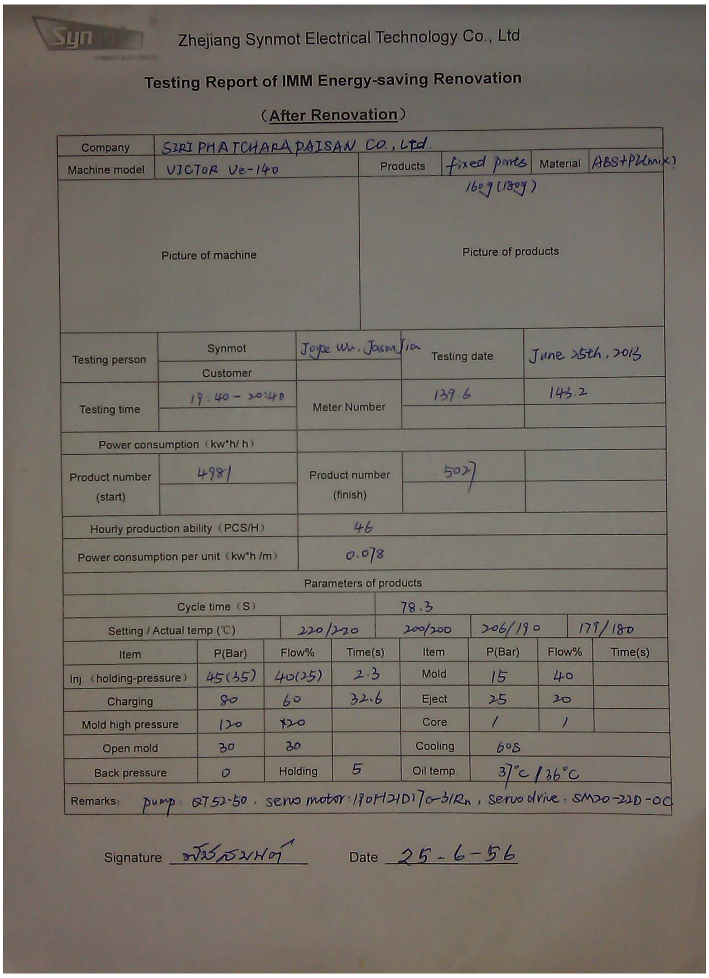
Parameters of products

Cycle time (S)	79.9			
Setting / Actual temp (℃)	220/220	200/202	190/218	180/183

Item	P(Bar)	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)
Inj (holding-pressure)	55 (60)	50 (50)	2.3	Mold	50	50	
Charging	140	90	37.2	Eject	25	20	
Mold high pressure	120	30		Core	/	/	
Open mold	120	40		Cooling	60		
Back pressure	0	Holding	6	Oil temp	55°c / 46°c (40°c)-(45°c)		

Remarks: pump. sk sqp35300a motor 25HP 970rpm

Signature ______ Date 24-6-56



Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(After Renovation)

Company	SIRI PHATCHARAPAISAN CO., Ltd				
Machine model	VICTOR Ve-140	Products	fixed parts 160g (180g)	Material	ABS+PE(mix)
Picture of machine		Picture of products			
Testing person	Synmot: Joyce Wu, Jason Jia / Customer	Testing date	June 25th, 2013		
Testing time	19:40 ~ 20:40	Meter Number	139.6	143.2	
Power consumption (kw*h/ h)					
Product number (start)	4981	Product number (finish)	5027		
Hourly production ability (PCS/H)	46				
Power consumption per unit (kw*h /m)	0.078				

Parameters of products

Cycle time (S)	78.3			
Setting / Actual temp (℃)	220/220	200/200	206/190	179/180

Item	P(Bar)	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)
Inj (holding-pressure)	45(35)	40(25)	2.3	Mold	15	40	
Charging	80	60	32.6	Eject	25	20	
Mold high pressure	120	120		Core	/	/	
Open mold	30	30		Cooling	60S		
Back pressure	0	Holding	5	Oil temp	37°c / 36°c		

Remarks: pump: QT52-50, servo motor: 190H21D170-31Rn, servo drive: SM20-22D-0C

Signature ______ Date 25-6-56

Case 5: Thailand T.P.INTERCHEM(1999)Co.,Ltd

Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(Before Renovation)

Company	T.P.INTERCHEM(1999) CO., LTD.				
Machine model	TOSHIBA IS650E-55A		Products	Water Pump Fan	Material HDPE

Testing person	Synmot	Lou&Bird	Testing date	7th-12th.OCT.2013
	Customer			
Testing time	(8:00 ~ 17:00)*5	Meter Number	1911.7*20	1996.8*20
Power consumption (kw*h/ h)		33.4		
Product number (start)	300	Product number (finish)	1740	
Hourly production ability (PCS/H)		30		
Power consumption per unit (kw*h /m)		1.12		

Parameters of products							
Cycle time (S)				114			
Setting / Actual temp.(℃)		230		180	170		160
Item	P(%)	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)
Injection(holding-pressure)	95	45	16	Mold faster		40	
Charging		85	34	Eject ad/bd		99	
Mold high pressure	90			Core	/	/	
Open mold		35		Cooling	80s		
Back pressure	45	Holding	7	Oil temp.	(40℃~41℃)		

Remarks: Pump: SQP321-38-21-11*2 Motor: 45KW+45KW 970rpm Running Mode:Normal

Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(After Renovation)

Company	T.P.INTERCHEM(1999) CO., LTD.				
Machine model	TOSHIBA IS650E-55A		Products	Water Pump Fan	Material HDPE

Testing person	Synmot	Lou&Bird&Jason	Testing date	17th.OCT.2013
	Customer			
Testing time	14:00 ~ 16:00	Meter Number	2001.55*20	2004.05*20
Power consumption (kw*h/ h)		25		
Product number (start)	105	Product number (finish)	179	
Hourly production ability (PCS/H)		32		
Power consumption per unit (kw*h /m)		0.78		

Parameters of products							
Cycle time (S)				110			
Setting / Actual temp.(℃)		220		185	170		165
Item	P(%)	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)
Injection(holding-pressure)	60	35	15	Mold faster		38	
Charging		75	34.8	Eject ad/bd		05	
Mold high pressure	90			Core	/	/	
Open mold		45		Cooling	80s		
Back pressure	10	Holding	7	Oil temp.	(35℃~36℃)		

Remarks: Pump: QT62-125&QT62-100, Motor: 51KW+34KW 1700rpm Running Mode:Servo System.

Injection molding machine model: TOSHIBA IS650E-55A		Fixed Pump	Servo System	Performance	per set save power charge $ 2808 USD.
Cycle time	S	114	110	↓ 4 %	
Hourly power consumption	KW·H	33.4	16.8	↓ 50 %	
Annual power consumption	KW·H	240480	180000		
Oil pump	℃	40-41	35-36	↓ 13 %	

Case 6: Turkey RASTPLAST Company

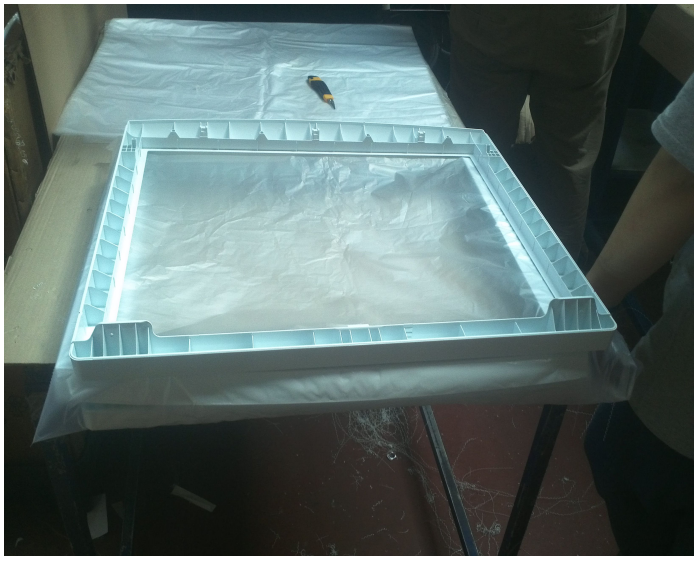
Injection Molding Machine retrofitting model: SM600

Molding product: Kuaak Sepet

Molding material: HDPE

Cycle time: 45.05S

Test time: one week



Injection molding machine model: SM600		Inverter	Servo System	Performance	Per set save power charge $ 9282 USD.
Cycle time	S	45.05	41.8	↓ 3 %	
Hourly power consumption	KW·H	30.514	14.4	↓ 53 %	
Annual power consumption	KW·H	219700.8	103680		
Oil pump	℃	37	20	↓ 46 %	

Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(Before Renovation)

Company	RASTPLAST				
Machine model	SM 650 Giant	Products	Kücük sepet 391 wH Gri	Material	HIPS 1300gr.

Testing person	Synmot	Zhang + Fatih	Testing date	03.09.2013
	Customer			
Testing time	10 00	Meter Number	0.0	> 30.5 kw/h.
	12 00		61,00	
Power consumption (kw*h/h)				
Product number (start)	141338	Product number (finish)	147 pcs /2 = 73 pc.	
	141485			
Hourly production ability (PCS/H)	73 pcs /h.			
Power consumption per unit (kw*h/m)	0.418 kw/pc.			

Parameters of products

Cycle time (S)				41.8 semi-auto				
Setting / Actual temp.(℃)	250/250			245/244	240/240		230/230	210/2
Item	P(Bar)	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)	
njection(holding-pressure)	165/60	110/10	4,14 3	Mold faster	55	65	2,83	
Charging	145	140 rpm	22,17	Eject	25/80	12/25	2,75	
Mold high pressure	160	30	5,17	Core	—	—	—	
Open mold	45	40	2,83	Cooling	23			
Back pressure	10	Holding	2	Oil temp.	37			

Remarks:

Signature Toyfun Gokkh Date 05.09.2013

Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(After Renovation)

Company	RASTPLAST				
Machine model	SM 600	Products	Sisalik 345 KB	Material	HIPS= 746gr 2 314gr

Testing person	Synmot	Zhang + Fatih	Testing date	05.09.2013
	Customer			
Testing time	11 15	Meter Number	167.1	> 14.4kW
	12 15		181.5	
Power consumption (kw*h/h)				
Product number (start)	705 > 72	Product number (finish)		
	777			
Hourly production ability (~~PCS~~/H)	72 (2 cavity).			
Power consumption per unit (kw*h/m)	0.20 kw/cycle			

Parameters of products

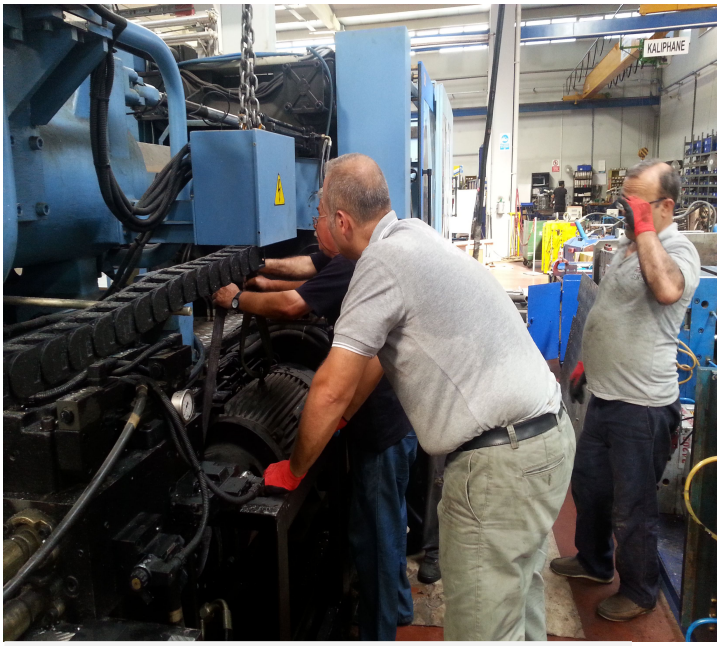
Cycle time (S)	45.05							
Setting / Actual temp.(℃)	245/260			235/235		225/225	220/220	190/
Item	P(Bar) %	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)	
njection(holding-pressure) %	45	20	8.96	Mold faster 2stal	25	65	2.8	
Charging %	85	55	16.4	Eject	0.1/40	0.1/20	2.27	
Mold high pressure	95	45		Core	—	—	—	
Open mold	15	40	2.8	Cooling	20.0			
Back pressure	10	Holding	2,31	Oil temp.	20			

Remarks:

Signature Toyfun Gokkh Date 05.09.2013

Case 7: Turkey TEKNIKA.Company

Injection Molding Machine model: HTF530X		Inverter	Servo System	Performance	Per set save power charge $ 6819 USD.
Cycle time	S	68-111	61.1-86.9	↓ 10.1 %	
Hourly power consumption	KW·H	30.912	19.074	↓ 38.2 %	
Annual power consumption	KW·H	222566.4	137332.8		
Oil pump	℃	54	41-45	↓ 16.7 %	



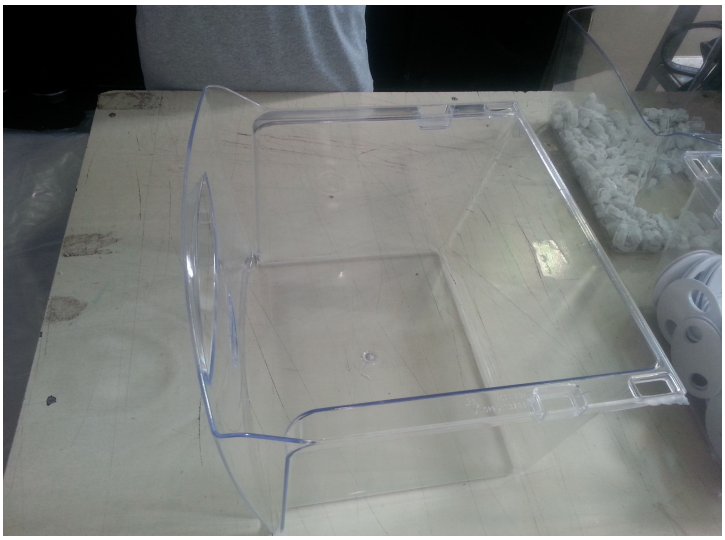
Injection Molding Machine retrofitting model: HTF530X

Molding product: Sebzelik

Molding material: HIPS

Cycle time: 68-111S

Test time: one week



Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(Before Renovation)

Company	TEKNIKA				
Machine model	HTF 530X	Products	640 Sebzelik	Material	HIPS
Testing person	Synmot	Jason · Fatih	Testing date	31.08.2013	
	Customer				
Testing time	11:32 / 3,7kW 12:32	Meter Number	3.7kW 34.6	> 30.9kW	
Power consumption (kw*h/ h)					
Product number (start)	3180 3222 > 42	Product number (finish)			
Hourly production ability (PCS/H)	42				
Power consumption per unit (kw*h /m)	0,736				

Parameters of products

Cycle time (S)	68 ~ 111					
Setting / Actual temp.(℃)	[illegible]	244	237	222	220	21

Item	P(Bar)	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)
Injection(holding-pressure)	135	56	14.4	Mold faster	66	57	
Charging	130	99	23.9	Eject	55/105	33/91	
Mold high pressure	140	95	2.6/3	2x Core	55/95	25/65	2.6/3
Open mold	67	46	7.7	Cooling	26 (26,12)		
Back pressure	4	Holding	6sec	Oil temp	54 °C		

Remarks: Semi auto operation, Double core, No ejector

Signature _____ Date 02.09.13

Gürkan İLHAN

Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(After Renovation)

Company	TEKNIKA				
Machine model	HTF 530X	Products	Sebzelik	Material	HIPS
Testing person	Synmot	Zheng + Fatih	Testing date	02.09.2013	
	Customer				
Testing time	11 20 12 20	Meter Number	8.9 kW 28.0 kW	> 19.1 kW	
Power consumption (kw*h/ h)					
Product number (start)	3270	Product number (finish)	3321	- 51 Adet Toplam	
Hourly production ability (PCS/H)	51 pcs				
Power consumption per unit (kw*h /m)	0.374 kw				

Parameters of products

Cycle time (S)	61.1 ~ 86.9					
Setting / Actual temp.(℃)	209		229	221	220	211

Item	P(Bar)	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)
Injection(holding-pressure)	135/95	63/32	9.5	Mold faster	66	57	4.5
Charging	130	99	25.7	Eject	55/105	33/91	0
Mold high pressure	140	95	0.9	Core A/B	55/90	25/65	2.6/3
Open mold	75	30		Cooling	30 (12 - Delay)		
Back pressure	4	Holding	4	Oil temp.	41 ~ 45		

Remarks:

Signature _____ Date 02.09.2013

Gürkan İLHAN

Case 8: PT LANGGENG MAKMUR INDUSTRI Thk Company

Professional manufacturer of plastic production in Indonesia.

Injection molding machine model: KM360B2		Variable Pump	Servo System	Performance	Per set save power charge $ 2143 USD.
Cycle time	S	62. 1	56. 3	↓ 9 %	
Hourly power consumption	KW·H	10. 44	6. 72	↓ 36 %	
Annual power consumption	KW·H	75168	48384		
Oil pump	℃	31-34	33	↓ 3 %	

Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(Before Renovation)

Company	PT. LANGGENG MAKMUR INDUSTRI TBK				
Machine model	KM360B2	Products	Body Spv01	Material	PP

Testing person	Synmot	Jason&Bill	Testing date	26th,nov,2013
	Customer			
Testing time	9:22-9:52	Meter Number	6.1	11.3
Power consumption (kw*h/ h)		10.4		
Product number (start)	35791	Product number (finish)	35820	
Hourly production ability (PCS/H)		58		
Power consumption per unit (kw*h /m)		0.18		

Parameters of products

Cycle time (s)				62.1			
Setting / Actual temp.(℃)		230		230	220	220/210	
Item	P(Bar)	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)
Injection(holding-pressure)	85%	75	7	Mold faster	60%	45	
Charging		99	10	Eject	35%	20	
Mold high pressure	70%	60	4.1	Core	/	/	/
Open mold	35%	15	6.2	Cooling	28s		
Back pressure	10%	Holding	1	Oil temp.	31℃-34℃		

Remarks: **Motor**:45kw,1450rpm; **Pump**:A145; **Running Mode**:Piston Pump

Signature ERWANTA Date 28-11-2013

Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(After Renovation)

Company	PT. LANGGENG MAKMUR INDUSTRI TBK				
Machine model	KM360B2	Products	Body Spv01	Material	PP

Testing person	Synmot	Jason&Bill	Testing date	27th,nov,2013
	Customer			
Testing time	11:30-11:40	Meter Number	12.15	13.25
Power consumption (kw*h/ h)		6.6		
Product number (start)	35942	Product number (finish)	35951	
Hourly production ability (PCS/H)		56		
Power consumption per unit (kw*h /m)		0.12		

Parameters of products

Cycle time (s)				56.3s			
Setting / Actual temp.(℃)		230		230	220	220/210	
Item	P(Bar)	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)
Injection(holding-pressure)	85%	80	7	Mold faster	50%	50	
Charging		55	20	Eject	60%	30	
Mold high pressure	50%	30	6.8	Core	/	/	/
Open mold	35%	15	6.2	Cooling	25s		
Back pressure	9%	Holding	1	Oil temp.	33℃-33℃		

Remarks: **Motor**:34kw,1700rpm; **Pump**:QT62-100; **Running Mode**: Servo System

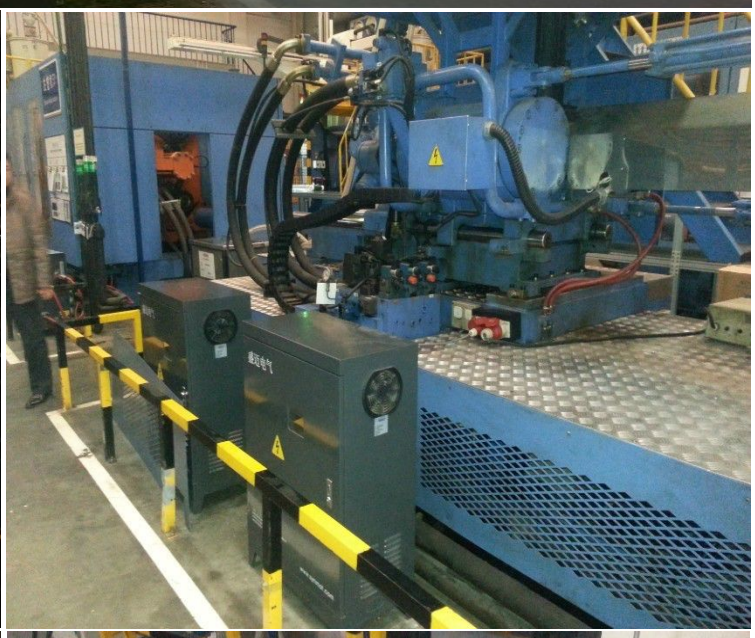
Signature ERWANTO Date 28-11-2013

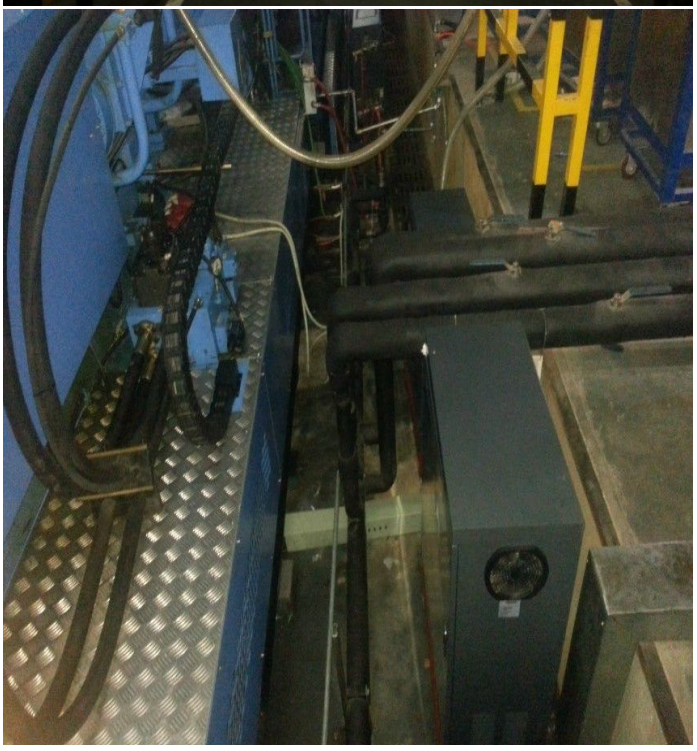
Case 9: China BSHHA Group

Member of the Bosch and Siemens Household Appliances Group.

Injection Molding Machine model: HTF700W2/J1 (HAITIAN)		Variable pump	Servo System	Performance	Per set save power charge $ 114,35 USD.
Cycle time	S	45.0	41.86	↓6.98%	
Hourly power consumption	KW·H	27.68	17.76	↓40.5%	
Annual power consumption	KW·H	199296	127872		
Oil pump	℃	38	36	↓5.3%	

BSHHA-Bosch and Siemens, 1st batch injection molding machines servo retrofit order(12 sets) with SYNMOT.				
NO	Machine model	Machine Brand	Machine QTY(sets)	Remark
1	HTF780	HAITIAN	2 sets	Machine including fixed pump machines, piston pump machines and machine with inverter.
2	PH650	Po Yuen	3 sets	
3	HTF700W2/J1	HAITIAN	4 sets	
4	Y171-650F	WELTEC	1 set	
5	HTW480	HAITAI	1 set	
6	HTF800W2/J1	HAITIAN	1 set	
Total	480-1080 ton	4 brands	12 sets	



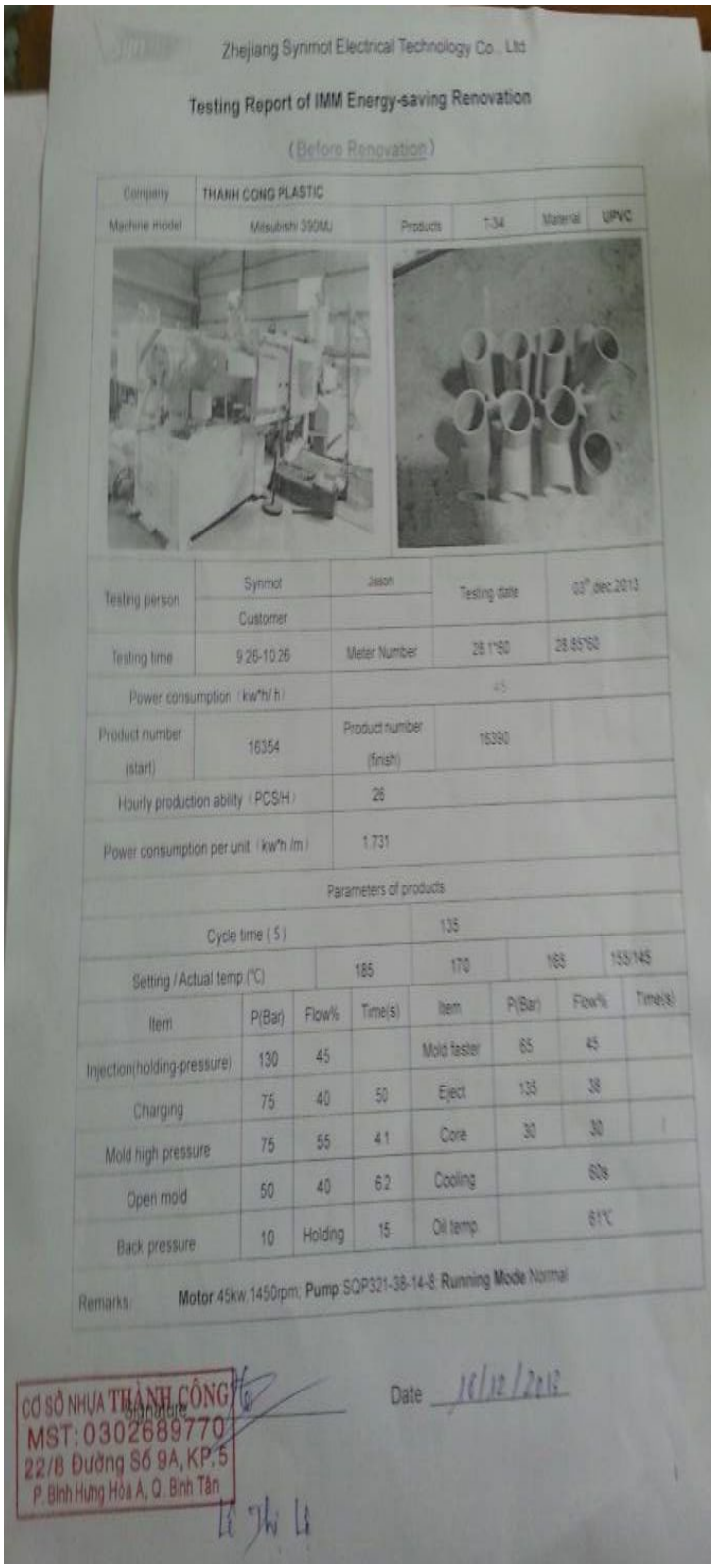



盛迈电气

Case 10: Vietnam Thanh Cong Co.,Ltd. Company

Injection Molding Machine model: MITSUBISHI-390MJ		Fixed pump	Servo System	Performance	Per set save power charge $ 16891 USD
Cycle time	S	135	134	↓0.74%	
Hourly power consumption	KW·H	45	17.4	↓61.3%	
Annual power consumption	KW·H	324000	125280		
Oil pump	℃	61	42	↓31.1%	

Injection Molding Machine retrofitting
model: MITSUBISHI-390MJ
Molding product: T-34
Molding material: UPVC
Cycle time: 135
Test time: one week



Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(Before Renovation)

Company	THANH CONG PLASTIC				
Machine model	Mitsubishi 390MJ	Products	T-34	Material	UPVC

Testing person	Synmot	Jason	Testing date	03th dec.2013
	Customer			
Testing time	9:26-10:26	Meter Number	28.1*60	28.85*60
Power consumption (kw*h/ h)			45	
Product number (start)	16354	Product number (finish)	16390	
Hourly production ability (PCS/H)		26		
Power consumption per unit (kw*h /m)		1.731		

Parameters of products

Cycle time (S)			135				
Setting / Actual temp.(℃)		185		170	165	155/145	
Item	P(Bar)	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)
Injection(holding-pressure)	130	45		Mold faster	65	45	
Charging	75	40	50	Eject	135	38	
Mold high pressure	75	55	4.1	Core	30	30	
Open mold	50	40	6.2	Cooling		60s	
Back pressure	10	Holding	15	Oil temp		61℃	

Remarks: Motor:45kw,1450rpm; Pump:SQP321-38-14-8; Running Mode:Normal

Signature

Date 16/12/2013

CƠ SỞ NHỰA THÀNH CÔNG
MST: 0302689770
22/8 Đường Số 9A, KP.5
P. Bình Hưng Hòa A, Q. Bình Tân

Zhejiang Synmot Electrical Technology Co., Ltd

Testing Report of IMM Energy-saving Renovation

(After Renovation)

Company	THANH CONG PLASTIC				
Machine model	Mitsubishi 390MJ	Products	T-34	Material	UPVC

Testing person	Synmot	Jason	Testing date	14th dec.2013
	Customer			
Testing time	17:52-18:52	Meter Number	33.95*60	34.24*60
Power consumption (kw*h/ h)			17.4	
Product number (start)	18354	Product number (finish)	18391	
Hourly production ability (PCS/H)		26		
Power consumption per unit (kw*h /m)		0.67		

Parameters of products

Cycle time (S)			134				
Setting / Actual temp.(℃)		185		175	165	155/145	
Item	P(Bar)	Flow%	Time(s)	Item	P(Bar)	Flow%	Time(s)
Injection(holding-pressure)	125(55)	45	27(10)	Mold faster	80	50	
Charging	125	36	37	Eject	110	75	
Mold high pressure	100	50	3.9	Core	65	55	
Open mold	50	40	6.2	Cooling		60s	
Back pressure	10	Holdin	10	Oil temp		42℃	

Remarks: Motor:51kw,1700rpm; Pump:QT62-125; Running Mode:Servo

Signature

Date 16/12/2013

SỞ NHỰA THÀNH CÔNG
MST: 0302689770
22/8 Đường Số 9A, KP.5
P. Bình Hưng Hòa A, Q. Bình Tân

Investment returns:the cost of servo retrofitting is 20% of the new machine price, and the payback period is around one year.

Synmot® SYNMOT ELECTRICAL

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