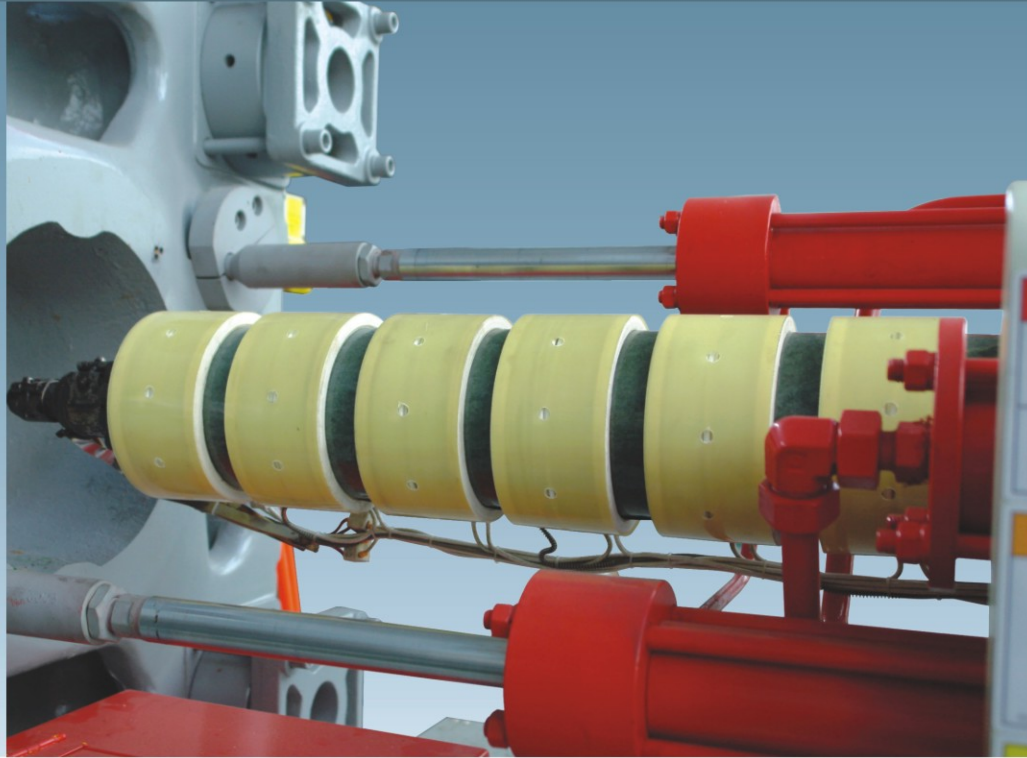
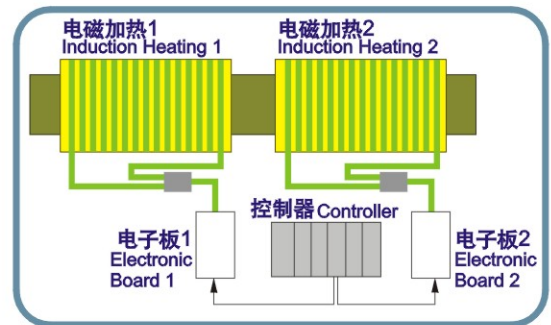


# 电磁加热 Induction Heating



## 应用及优点: Application & Benefits:

- 电磁加热技术是通过高频电磁感应原理使金属料筒自身发热
- 在熔胶筒外部包围着隔热保温材料，减少热传导损失
- 电磁发热圈本体不发热，而且绝缘，避免了生产环境温度上升，节省空调车间的耗电量
- 电磁发热圈不发热，减少操作人员免受烧伤
- 电磁线是绝缘和高温电缆，不会氧化，使用寿命长
- 热质量只是熔胶筒金属，升降温速率快，热效率高
- 缩短预热时间
- 无需维修
- 节能 30~75%，运作成本低
- 因加热方式不同，电磁式较电阻线式的功率可减少 30%
- Induction heating utilizes high-frequency magnetic field and generates heat to barrel
- Barrel cover with insulation layer, reduces heat lost to air
- Induction coil itself does not heat up that keeps ambient temperature cool and saves energy on air-conditioning workshop
- No heat up on induction coil and operator can escape from burn injury
- No oxidation on heating coil with long working life
- Low thermal mass, fast high up and high efficiency
- Short heat up time
- No maintenance
- Energy saving with 30~75% and low running cost
- With better heating method, it allows induction heater with 30% lower power than resistive heater



广东省东莞市质量监督检测所 Guangdong Dongguan Supervision Testing Institute of Quality and Metrology 检验报告 (TEST REPORT)			
No. : D00100019	日管机电磁加热节电器		共4页, 第1页
样品名称 Sample Description	规格、型号 Brand, Type, Grade	20-30A	
生产日期 Production Date	批号/序列号 Lot/Serial No.	4047938	
产品型号 Serial No. of Sample	样品状况 Condition	正常	
委托单位 Applicant	检验类别 Test. Type	委托检验	
委托单位地址 Applicant Address	采样方式 Sampling Method	送样	
定检单位 Inspected Entity	采样地点 Sampling Place		
生产单位 Manufacturer	样品名 Sample Name	委托单位	
样品数量 Sample Quantity	抽样数量 Sampling Qty	生产日期 Date Tested	2009-10-13
检验标准 Test Standard	EN 62233:2008 Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure		
检验结论 Conclusion of Test	本报告结论: 是。 商检项目符合 EN 62233:2008 标准要求。		
备注 Remarks	检验日期 2009年10月13日		
批准 Approved by	审核 Checked by	主检 Tested by	

符合 EN 62233 2008 (关于人体照射的家用电气和类似装置电磁场用测量方法)  
Comply with EN 62233 2008 (measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure)

# 安装电磁发热圈费用节省实例 Energy Saving Case of Installation of Induction Heater

## 客户资料 Customer Information

测试日期: 2009年9月17-21日  
 Test date : September 17-21,2009  
 测试地点: 珠海  
 Test site : Zhuhai  
 客户名称: 某港资塑料加工厂  
 Customer : Hongkong plastics factory

## 案例 Production Case

产品: 500ml 水杯  
 Product : 500ml Cup  
 材料: PP  
 Material  
 注塑机名称: Ec160 (160吨锁模力)  
 Injection moulding machine : Ec160 (160T Clamping Force)

测试日期 Test Date	测试时间 Test Period	平均用电量/小时(未安装电磁发热圈) Electricity Consumption Per Hour (Without Induction Heater)	平均用电量/小时(安装电磁发热圈) Electricity Consumption Per Hour (With Induction Heater)	省电率 Saving Rate
September 17-21	49 hours	4.23 kWh	2.86 kWh	32.39%

## 年节电经济效益 Economic Benefits of Energy Saving

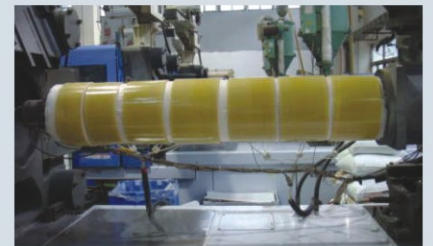
	未安装电磁发热圈 Without Induction Heater	安装电磁发热圈 With Induction Heater	一年节约电费(元) Annual Electricity Cost Saving(RMB)
年用电量 Annual Electricity Consumption	30,456 kWh	20,592 kWh	RMB 9,864

\* 以每年运转 7200 小时, 电费 1元/kWh 计算。  
 At 7,200 hours/year, RMB1/kWh

\* 实际节能效果根据不同产品尺寸而有所差异  
 Actual energy saving effects may vary with different product demension.

CML电磁加热装置型号 CML Induction Heater Model No.	注塑机锁模力(T) Clamping Force of Injection Moulding Machine (T)	原电阻发热丝功率(kW, 不含喷嘴) Resistive Heater Power (kW, excl. Nozzle)	CML电磁加热装置型号 CML Induction Heater Model No.	注塑机锁模力(T) Clamping Force of Injection Moulding Machine (T)	原电阻发热丝功率(kW, 不含喷嘴) Resistive Heater Power (kW, excl. Nozzle)
H-007-098	90	6.90	H-036-265	900	36.00
H-008-098	130	8.13	H-036-265	1,000	36.00
H-010-108	160	10.40	H-040-300	1,200	39.70
H-013-125	190	12.80	H-040-300	1,250	39.70
H-015-135	260	15.00	H-044-320	1,500	44.45
H-016-135	320	16.00	H-044-320	1,800	44.45
H-021-150	380	21.00	H-065-365	2,200	65.00
H-024-170	450	24.00	H-080-400	2,800	80.00
H-025-175	500	24.97	H-080-400	2,850	80.00
H-030-215	600	29.77	H-196-410	3,350	196.00
H-033-265	750	33.01	H-221-450	4,000	221.20

## 客户使用现场 Customer Site



说明: CML 型号的中间数字代表原电阻发热丝的大约功率(kW, 不含喷嘴), 最后数字代表熔胶筒的外径尺寸。  
 如 H-007-098, 表示原电阻发热丝的功率约为 7kW 和熔胶筒的外径是 98mm。

Remark: The middle number on CML model no. means the power of resistive heater (kW, excl. Nozzle), the last number means the outside diameter of barrel, eg. H-007-098, means the power of resistive heater is 7kW and the outside diameter of barrel is 98mm