



广州数控产业园
CNC Industrial Park

广州数控设备有限公司 (GSK), 中国南方数控产业基地, 公司主要向用户提供全电动注塑机、机床数字控制设备、数控机床、工业机器人等产品及其集成配套整体解决方案。

GSK广州数控以开拓创新精神, 研制出AE系列全电动注塑机和GSK6000系列全电动注塑机控制系统。其制造车间在我司的现代化车间里配有先进的数控机床加工线、工业机器人装配线、智能检验线, 完善的ISO管理体系。该产品采用广州数控自主研发的具有全部自主知识产权的GSK6000系列全电动注塑机控制系统, 结合了国内用户的操作习惯, 继承了公司数控系统的优良特点, 集成了注塑行业的先进生产工艺控制方法, 实现高效、节能、环保的注塑理念, 大大降低运行成本, 为用户带来实在利益。

GSK CNC Equipment Co., Ltd. (GSK) is the CNC industry base in South China. We offer our customers all-electric injection molding machines, CNC system, NC machine tool, industrial robot and integration solutions as well.

GSK has manufactured the AE series All-electric Injection Molding Machine and the GSK6000 series All-Electric Injection Molding Machine Control System with the spirits both development and innovation. Its manufacturing workshop where in our modernization workshops matches the advanced CNC machine processing line, industry robot assembly line, intelligent detection line and the perfect ISO administration system. This product uses the GSK6000 series all-electric injection molding machine control system with the whole proprietary intellectual property rights, which is researched and developed by GSK. This product combines the operation habit of the domestic users and inherits the excellent characters of our CNC system and integrates the advanced production technical control method of the injection industry and realizes injection theories, for example, the high efficiency, energy conservation and the environmental protection, and greatly reduces the operation cost and brings the real benefits.

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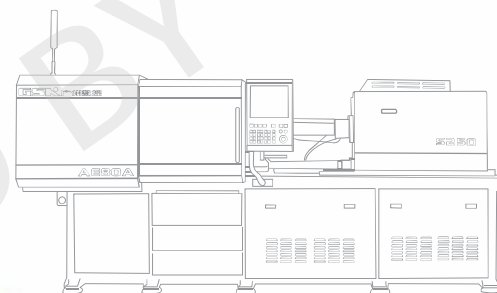
中共中央政治局常委李长春同志视察我司
Li Changchun is visiting GSK



中央新闻联播多次对GSK进行采访报道
CCTV interviews and reports GSK for many times

AE系列全电动注塑机

AE Series Full Electric Injection Molding Machine



GSK 广州数控
Command the Future

AE系列全电动注塑机

AE系列全电动注塑机由广州数控设备有限公司完全自主研发生产，是我们专注多年的机械设计和伺服控制的技术沉淀。具有精密、高速、节能、环保等优点，广泛应用于电子与通讯、光学、医疗、食品、消费品等行业。其机械本体、控制系统、伺服电机、驱动器、大负载滚珠丝杠等核心部件完全自主研发，使得AE系列全电动注塑机能为您的产品成型提供有力保障，更可满足您的特性化需求。

AE Series Full Electric Injection Molding Machine is absolutely Researched and Developed by GSK CNC EQUIPMENT CO., LTD, which is the technology essence for devoting the mechanical design and servo control for many years. It owns the advantages, such as the precision, high-speed, energy-saving and environmental protection, etc., which can be widely used in the electron & communication, optics, medical treatment, food and consumable goods, etc. The core components, for example, mechanical body, controllable system, servo motor, drive and big loading ball screw, are absolutely researched and developed by GSK, so that the AE series full electric injection molding machine can be provided the strong guarantee for forming your product, as well met your characteristic requirements.

高精度、快速响应的控制系统
Controllable system with high precision and rapid response:

高强度整体式、高速的注射单元
Injection unit with the integral high intensity & high speed

高强度、高速开合模特性的五点曲肘式锁模单元
Five-point toggle mold-clamping unit with high strength & high speed mold-clamping/closing character

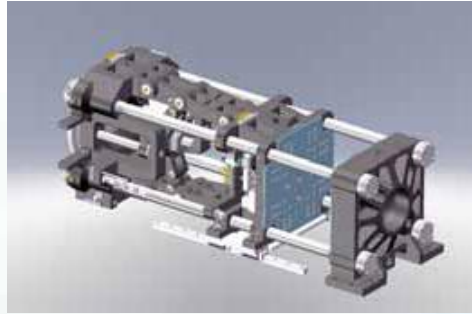
高性能、高稳定性的电控部分
High capacity & stability of the electrical control.



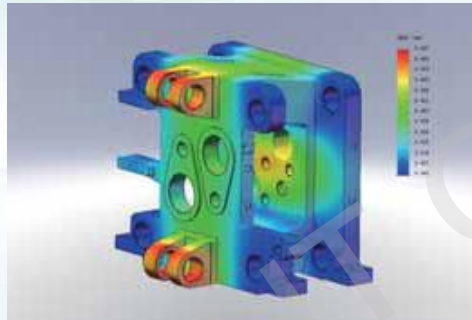
锁模单元

Mold-clamping unit

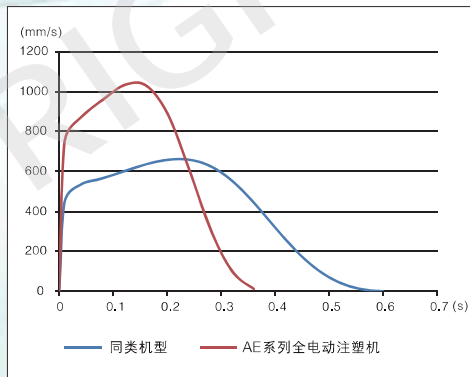
- 高精度、高刚性的锁模机构可防止发生毛边
High precision, high rigid mold-clamping mechanism can be prevented the burr.
- 高速、低噪音的锁模机构可发挥更高的效率
The mode clamping mechanism with high speed, low noise can be played a higher efficiency.
- 锁模时模具均匀受压，提高成型精度
Evenly pressured of the mode when the mold-clamping is performed, so that the molding accuracy is enhanced.
- 宽广的模板可容纳更大型的模具
Wide module can be held a bigger mold.



轻量化、高刚性的模板是精密成型的强力保障
Light quantization & high rigid module are the strength guarantee for the accurately forming.



高速且顺滑的锁模速度让机器的效率更高
High speed and smooth mold-clamping mechanism can be enhanced the efficiency of the machine.



注射单元

Injection unit

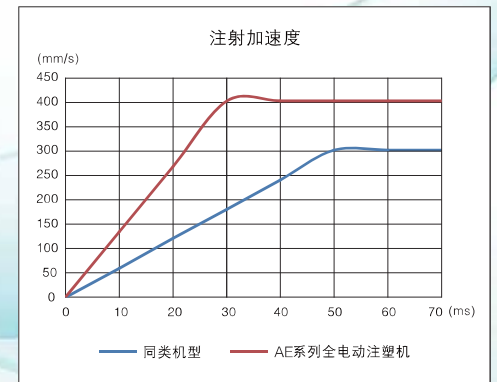
- 高强度整体式注射结构，可实现精密成型
High intensity integrated injection mechanism can be carried out the accurate forming.
- 采用模块化设计，可根据需要轻松选择不同尺寸的螺杆
Use the modularity design; different screw rods can be easily selected based upon the various dimensions.
- 采用低摩擦直线导轨，实现平滑的注射、计量动作
Using the low friction linear guiding can be carried out the smooth injection and metering operations.
- 超高扭矩、低噪音皮带传动
Excessive-high torque, low noise belt driving



高品质的螺杆，能适应广泛范围的制品成型
High quality screw rod adapts product forming for a wide range.



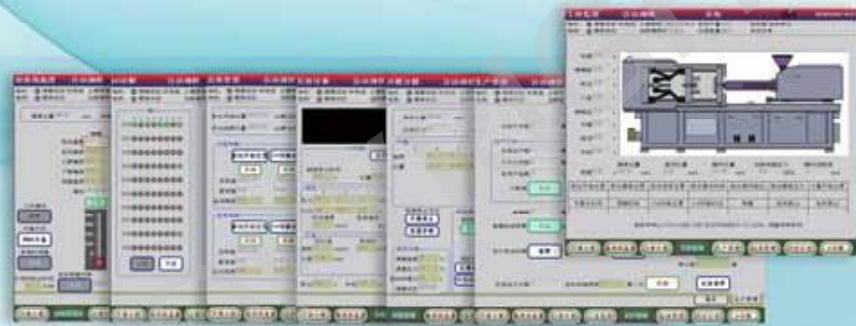
卓越的注射加速性能
Excellent injection acceleration capacity



GSK 6000 控制器

GSK 6000 controller

- 采用15寸高分辨率的触摸屏，具有更加方便的操作性
Using the 15 inch high-resolution touch screen is owns the more convenient operability.
- 学习型智能PID温度控制，实现温度精准控制
Study-type intelligent PID temperature control can be carried out the accuracy control of the temperature.
- 注射压力全闭环控制，达到高重复性稳定成型
Injection pressure full-closed-loop control can be reached to the high repeated stability forming.
- 强大的自我诊断功能，提供实时警告与历史故障记录
Strong self-diagnosis function provides the real-time warning and fault record.
- 灵敏高精度的低压模具保护功能
The low-pressure mold protective function owns sensitivity and high precision.
- 具备实现多样化应用的附加轴控制
It owns the additional axis control for realizing the diversified application.
- 射出压缩成型工艺，更好地保证精密成型
Eject the compressing forming technology, so that it can be guaranteed the better precision forming.



实现绿色节能的GSK伺服系统

Realize the green energy-saving of GSK servo system

高性能的的伺服电机、伺服驱动器

High performance servo motor and servo drive.



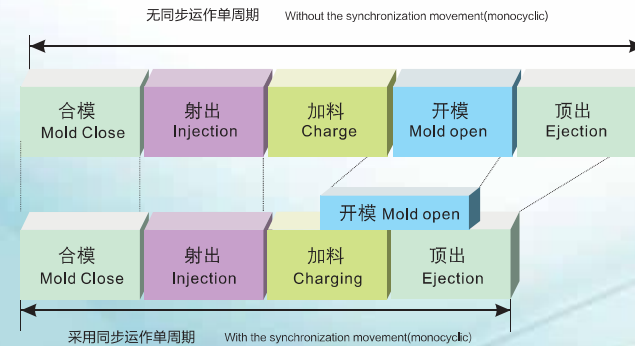
GSK系列大负载、高精度滚珠丝杠

GSK series heavy loading, high precision ballscrew



缩短成型周期的高速高精度同步动作

Shorten the high speed & high precision synchronism motion of the molding cycle.



产品应用 Product Application

A. 医疗行业 Medical Industry

DNA检测试管、医疗插件、助听器...

DNA detection tube, medical plug-in, hearing-aid...

B. 电子和通讯 Electron & Communication

连接器、手机壳体、电脑边框...

Connector, mobile phone shell, computer frame...

C. 光学行业 Optical Industry

手机镜头、导光板...

Mobile phone lens, light guide plate...

D. 食品行业 Food Industry

容器、保鲜瓶盖等...

Container, bottle cap for fresh-keeping...

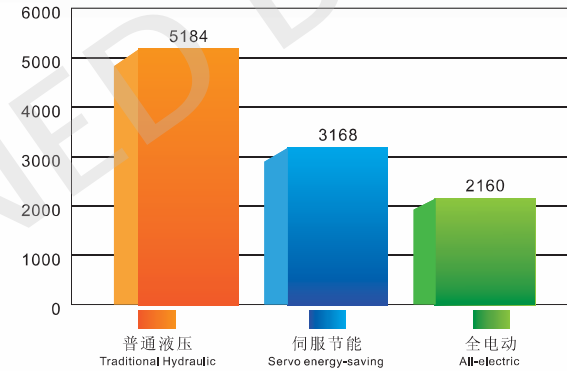


节能 Energy-Saving

AE系列全电动注塑机与传统普通定量泵液压注塑机相比,节省电能可达70%;同时无需对油液进行冷却,可节省高达90%的水资源。

AE Series Full-Electric Injection Molding Machine can be saved up to 70% electric energy compared with the traditional ratio pump hydraulic vone regardless of the oil cooling simultaneously; up to 90% water resource can be saved accordingly.

月耗电量比较 (单位:度)
Monthly power consumption comparison (Unit: kwh)



●以上数据按每月30天,每天24小时,电费1.0元/kwh计算。
The above data is calculated based on 30 days per month, 24 hours per day, and electricity cost of 1.0 RMB per KWH.

绿色环保 Green & Environmental-Protection

- 采用伺服电机进行动作驱动,不存在液压油对环境造成污染的问题,为客户提供洁净的生产环境。
- 采用灌装式油脂润滑泵配合定量式计量件进行精准润滑,机器能保持最大限度的卫生清洁。

It drives by servo motor regardless of the pollution issue for the environment by the hydraulic oil; it also provides cleaning production surroundings for the customers.

The accuracy lubrication that can be performed by tin filling grease pump matches with the qualification metering; the machine can be held cleaning in a large extent.



AE系列全电动注塑机技术参数 Product Application

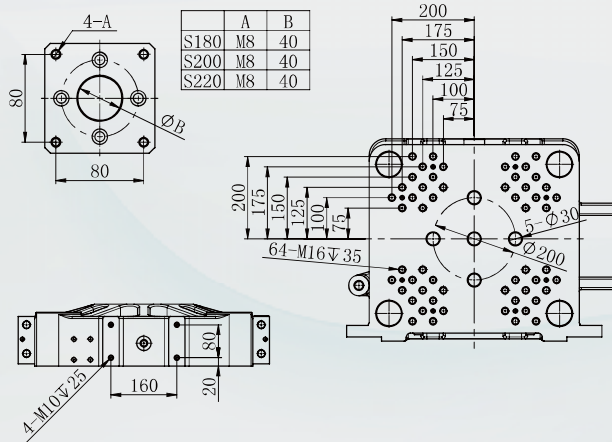
机器型号	AE50										AE80A										AE100										
注射、塑化单元																															
射台型号	S180			S200			S220			S220			S250			S280			S250			S280			S320						
螺杆直径 mm	18	20	22	20	22	25	22	25	28	22	25	28	25	28	32	28	32	36	25	28	32	28	32	36	32	36	40				
理论射出容量 cm³	19	23.6	28.5	26.7	32.3	41.7	38	49.1	61.6	38	49.1	61.6	54	67	88	77	100	127	54	67	88	77	100	127	121	153	188				
理论射出量 (PS)	18	22.4	27	25	30.6	39.6	36	46.6	58.5	36	46.6	58.5	51	64	84	73	95	121	51	64	84	73	95	121	115	146	179				
最大注射压力 Mpa	283	229	189	280	231	179	289	224	178	289	224	178	277	221	169	287	220	173	277	221	169	287	220	173	272	215	174				
最大保压压力 Mpa	226	183	151	224	184	143	230	179	142	230	179	142	220	176	135	230	176	138	220	176	135	230	176	138	218	172	140				
注射速率 cm³/s	127	157	190	125.6	152	196	114	147	184.6	114	147	184.6	167	209	273	185	240	305	167	209	273	185	240	305	241	305	377				
最大注射速度 mm/s	500			400			300			300			340			300			340			300			300						
注射行程 mm	75			85			100			100			110			125			110			125			150						
螺杆转速 rpm	0-500			0-400			0-400			0-400			0-350			0-350			0-350			0-350			0-350						
喷嘴突出量 mm	35 (70)			35 (70)			35 (70)			35 (70)			35 (70)			35 (70)			35 (70)			35 (70)			35 (70)						
塑化能力 (PS) Kgh	17	23	31	19	25	34	25	34	46	25	34	46	27	36	52	41	61	84	27	36	52	41	61	84	59	78	106				
喷嘴接触力 kN	12			12			12			12			12			12			12			12			12						
温度控制段数	5			5			5			5			5			5			5			5			5						
总加热功率 kw	2.5	2.9	3.2	3.2	3.5	4.1	4.1	4.7	5.3	4.1	4.7	5.3	4.7	5.6	6.2	5.6	6.8	7.7	4.7	5.6	6.2	5.6	6.8	7.7	8.0	8.9	10.4				
合模单元																															
合模方式	五点斜排										四点斜排										五点斜排										
锁模力 ton	50										80										100										
开模行程 mm	250										300										350										
最小模具厚度 mm	150										200										200										
最大模具厚度 mm	350										410										410										
哥林柱内间距 (长×高) mm	360×310										410×360										460×410										
最小模具尺寸 (长×高) mm	235×235										270×270										325×325										
顶出力 kN	20										20										25										
顶出行程 mm	70										80										100										
顶针数量	5										5										5										
其它数据																															
外形尺寸 (长×宽×高) m	3.71×1.02×2.06										4.14×1.16×2.20										4.85×1.28×2.24										
机器重量 t	3.0	3.1	3.2	4.0	4.1	4.2	5.3	5.4	5.5																						

• 因技术进步, 参数如有变动, 恕不另行通知。

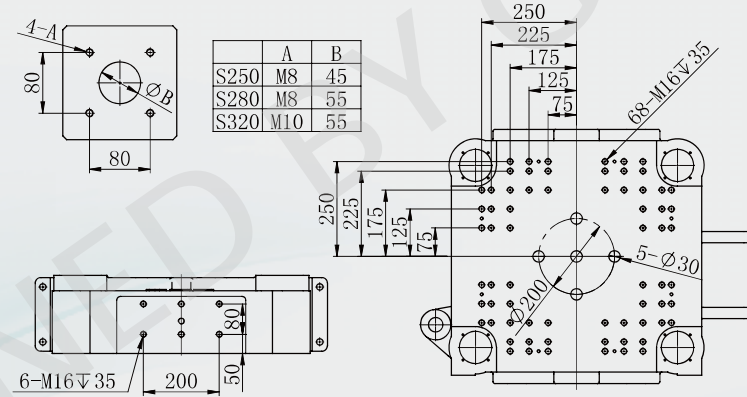
AE130										AE160										AE200																								
注射、塑化单元																																												
S280					S320					S360					S320					S360					S400					S360					S400					S450				
28	32	36	32	36	40	36	40	45	32	36	40	36	40	45	40	45	50	36	40	45	40	45	50	45	50	55																		
77	100	127	121	153	188	163	201	254	121	153	188	163	201	254	226	286	353	163	201	254	226	286	353	318	393	475																		
73	95	121	115	146	179	154	191	242	115	146	179	154	191	242	215	272	336	154	191	242	215	272	336	302	373	451																		
287	220	173	272	215	174	259	210	166	272	215	174	259	210	166	260	205	166	259	210	166	260	205	166	255	206	170																		
230	176	138	218	172	140	207	168	132	218	172	140	207	168	132	208	164	133	207	168	132	208	164	133	204	165	136																		
185	240	305	241	305	377	305	377	477	241	305	377	305	377	477	301	382	471	305	377	477	301	382	471	382	471	570																		
300					300					300					300					240					300					240														
125					150					160					150					160					180					200														
0-350					0-350					0-350					0-350					0-350					0-300					0-300														
35 (70)					35 (70)					35 (70)					35 (70)					35 (70)					35 (70)					35 (70)														
41	61	84	59	78	106	81	103	143	59	78	106	81	103	143	88	121	157	81	103	143	88	121	157	96	139	171																		
20					30					40					20					30					40																			
5					5					5					5					5					5																			
5.6	6.8	7.7	8.0	8.9	10.4	9.8	11.0	12.8	8.0	8.9	10.4	9.8	11.0	12.8	10.4	12.2	13.8	9.8	11.0	12.8	10.4	12.2	13.8	11.0	13.4	15.1																		
合模单元																																												
五点斜排										五点斜排										五点斜排																								
130										160										200																								
400										450										520																								
200										200										280																								
450										500										580																								
510×460										560×510										610×560																								
340×340										375×375										410×410																								
30										35										60																								
100										120										150																								
5										5										13																								
其它数据																																												
5.03×1.4×2.3										5.61×1.48×2.4										6.03×1.55×2.50																								
6.8	7.1	7.4	9.0	9.3	9.5	11.2	11.5	11.8																																				

安装尺寸 Product Application

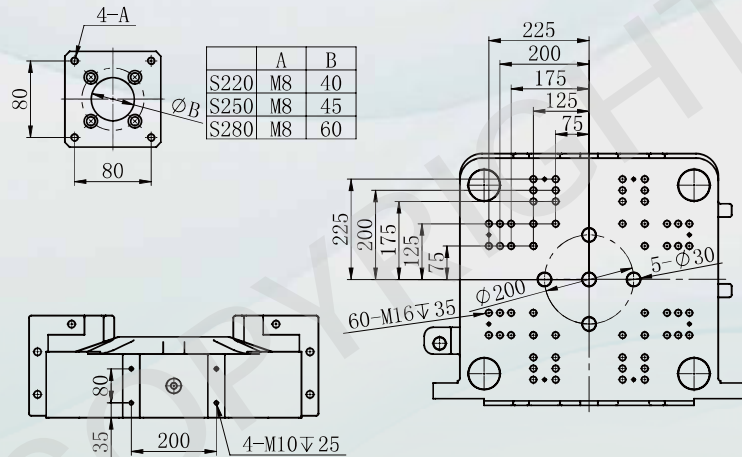
AE50安装尺寸



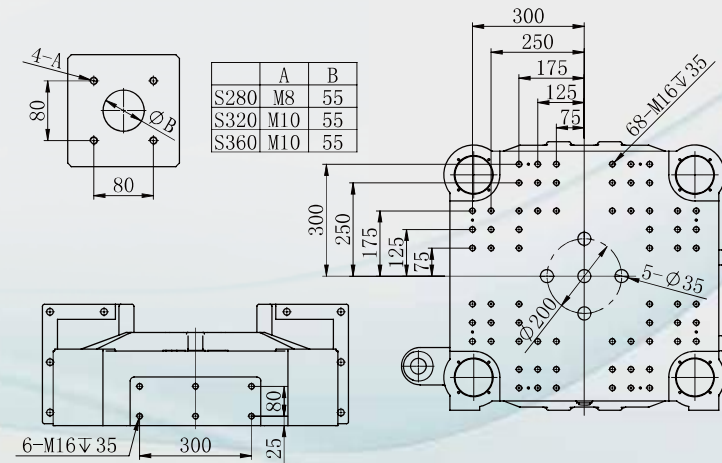
AE100安装尺寸



AE80A安装尺寸

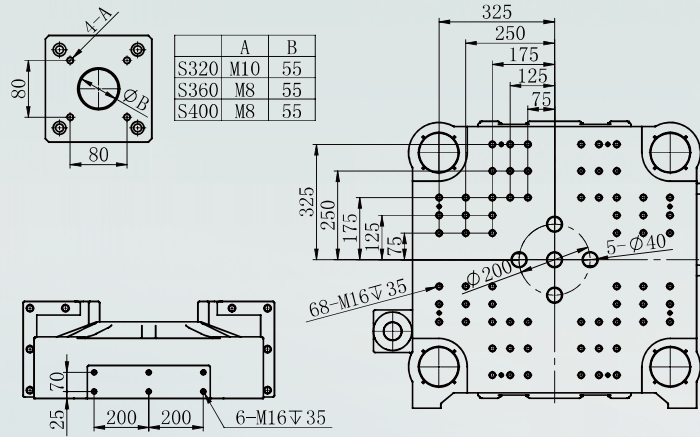


AE130安装尺寸

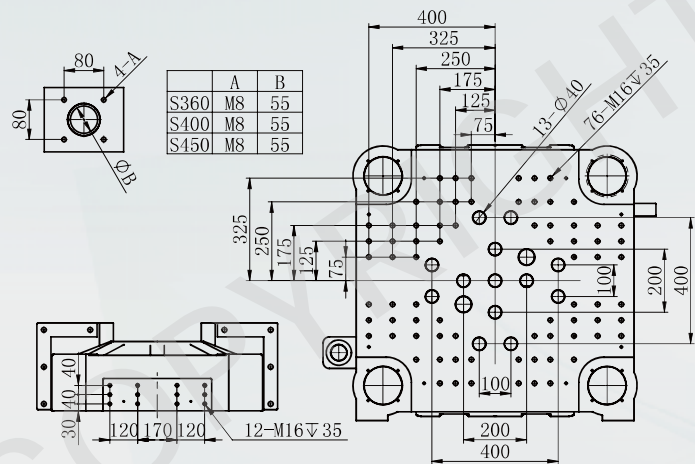


安装尺寸 Product Application

AE160安装尺寸



AE200安装尺寸



AE50



AE80A



AE100



AE130



AE160



AE200