



MACHINERY
KINGSWEL

王牌机械 上海环球机械有限公司
KINGSWEL MACHINERY SHANGHAI HUANQIU MACHINERY CO.,LTD.

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上海环球机械有限公司
SHANGHAI HUANQIU MACHINERY CO.,LTD.

历史发展 Corporate History

上海环球机械有限公司是台湾中桦机械股份有限公司在上海投资的一家集科研、开发、生产、咨询、规划、销售、服务与进出口贸易于一体的塑料加工辅助设备总汇的企业。自1993年成立以来，凭藉海外近三十年的专业技术优势，突破传统的生产窠臼，展现先进的技质精华，通过ISO9001质量管理体系认证，CE认证，取得“企业安全标准化”，荣获“优秀台资企业”，“劳动关系和谐创建企业”，提供一流的王牌辅机，并在全国设有九家销售服务中心。诚心帮您解决问题，诚意为您创造财富，让您的塑机活起来，便您的利润涨起来。

Shanghai Huanqiu Machinery Co., Ltd., fully-funded by Taiwan John-Huah Plastic Machinery Plant, affiliated with Shanghai Kingswel Industries Group, since established in 1993, has been and will be the forerunner among plastic auxiliary machines manufacturers. Based on over 30 years' expertise and technical buildup overseas, we have broken and will continue to break the traditional mode of manufacture, and have demonstrated and will continue to demonstrate state-of-the-art technologies. The CE Mark Certificate, ISO 9001:2000 Certification, excellent quality and reasonable prices, which mostly benefit from us successfully employing the ERP SYSTEM, give us much more edges in Plastic Machinery Circle home and abroad.





特点 Features 热风干燥机 Hopper dryer

- ✓ 具有自动保护电热管功能
Electrical heating tube with automatic protection function;
- ✓ 采用知名品牌的电器元件，性能可靠
Provided with well-known brand of electrical components with reliable performance;
- ✓ 加热管采用SUS304不锈钢材质，无污染，使用寿命长
Heating tube made of SUS304 stainless steel featuring non-pollution and prolonged life cycle;
- ✓ 筒体部分密封件用硅胶材质
Cylinder seals made of silicone material;

热风干燥机技术参数 Hopper dryer technical parameters

型号 Model	GZ104	GZ108	GZ112	GZ116	GZ124	GZ132	GZ148	GZ164	GZ196
装料量 (kg) Loading Capacity	25	50	75	100	150	200	300	400	600
电热功率 (kw) Electro-thermal Power	2.7	3.9	5.1	6	9	9	18	18	24
风机功率 (kw) Fan Power	0.09	0.1	0.14	0.25	0.35	0.35	0.75	0.75	1.1
耗电总功率 (kw) Total Power Consumption	2.8	4	5.3	6.3	9.4	9.4	18.8	18.8	25.1
机械尺寸 (mm) Machine size	680* 420* 960	780* 500* 1160	850* 550* 1220	950* 650* 1320	1050* 700* 1520	1250* 800* 1660	1250* 800* 2060	1560* 1060* 1940	1660* 1100* 2150
底座安装尺寸 (mm) Mounting Dimensions of Base	160*160	160*160	160*160	180*180	200*200	230*230	230*230	280*280	280*280
出料孔尺寸 (mm) Dimension of Discharge Hole	Φ70	Φ70	Φ70	Φ80	Φ80	Φ115	Φ115	Φ120	Φ135
安全保护 Safety Protection	采用智能温控表，具有超温保护功能。 Featuring an intelligent temperature-controlled meter with an overheating protection function.								
选购说明 Instructions on Model Selection	1. GZ1系列：标准式 GZ1系列B：保温式。 GZ1 Series: standard type, GZ1 Series B: thermal insulation type.								
	2. 标准型：干燥温度低于120℃，高温型：干燥温度为120~180℃。（须配置翅片式加热管）。 Standard type: drying temperature lower than 120℃, High temperature type: drying temperature type: drying temperature between 120℃ and 180℃. (to be configured with finned heating tube).								
	3. 干燥机置于地面工作时，须另配干燥架及吸料盒。 If the dryer is to be operated on the ground, a dryer bracket and material sucking box shall be configured additionally (GZ104-GZ196).								
	4. 对干燥回用料较多的造型时，可配旋风集尘器。 If a large amount of recycled materials are to be used, it is recommended to configure an optional cyclone separator to reduce dust.								
	5. 装料量系指表现密度为0.64的尼龙6颗粒的质量。 The loading capacity refers to the mass of 6 nylon particles with an apparent density of 0.64.								

*以上数据如有变更恕不另行通知
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热风干燥机技术参数 Hopper dryer technical parameters

型号 Model	GZ1128B	GZ1160B	GZ1240B	GZ1320B	GZ1400B	GZ1480B
装料量 (kg) Loading Capacity	800	1000	1500	2000	2500	3000
电热功率 (kw) Electro-thermal Power	30	40	50	60	60	70
风机功率 (kw) Fan Power	1.1	2.2	2.2	2.2	3	3
耗电总功率 (kw) Total Power Consumption	31.1	42.2	52.2	62.2	63	73
机械尺寸 (mm) Machine size	1870*1320* 2590	2200*1600* 2880	2200*1600* 3380	2300*1700* 3380	2450*1800* 3560	2450*1800* 4060
安全保护 Safety Protection	采用SKG温控表，具有超温保护功能。 Featuring an intelligent SKG meter with an overheating protection function.					
选购说明 Instructions on Model Selection	1. GZ1系列：标准式 GZ1系列B：保温式。 GZ1 Series: standard type, GZ1 Series B: thermal insulation type.					
	2. 标准型：干燥温度低于120℃，高温型：干燥温度为120~180℃。（须配置翅片式加热管）。 Standard type: drying temperature lower than 120℃, High temperature type: drying temperature type: drying temperature between 120℃ and 180℃. (to be configured with finned heating tube).					
	3. 对干燥回用料较多的造型时，可配旋风集尘器。 If a large amount of recycled materials are to be used, it is recommended to configure an optional cyclone separator to reduce dust.					
	4. 装料量系指表现密度为0.64的尼龙6颗粒的质量。 The loading capacity refers to the mass of 6 nylon particles with an apparent density of 0.64.					

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特点 Features

加料机 Auto loader

- ✓ 机体与储料桶采用分离式设计，便于安装
The separation-type design is adopted for machine to be convenient for installation. The machine body is placed on the ground to be convenient for operation, filter washing or curing.
- ✓ 电机采用三相高静压感应式，输送能力大，使用寿命更长，免除更换碳刷之问题
The electromotor is adopted with three-phase high hydrostatic induction type, with greater conveying capability and longer service life, the worry on carbon brush replacement is exempted.
- ✓ 加料筒采用不锈钢材质，确保原料不受污染，并增长使用寿命
The storage bucket is adopted with stainless steel material so as to ensure that the raw materials are not polluted, and the service life is prolonged.
- ✓ 微电脑全功能操控器采用台湾原装进口产品，确保性能更稳定，使用寿命更长
The original products imported from Taiwan are adopted for micro-computer full functional controller so as to ensure that the performance is more stable and the service life is longer.
- ✓ 带有可调自动反吹除尘装置，确保滤清器不堵塞，延长清除周期
The adjustable automatic back-flushing dedusting device is attached so as to ensure that the filter isn't plugged to prolong the clearing period.
- ✓ 带有满料指示，缺料警报电机过载保护装置等，方便操控与故障排除
The full feed indication and the electromotor overloading protection device on feed lacking alarm are attached to be convenient for operation control and troubleshooting.
- ✓ 粉末加料机滤清器采用特殊材质制成，保证不破裂，可清洗重复使用
Washable filter made from special material for repeatable usage.

JL2系列加料机技术参数 JL2 auto loader technical parameters

型号 Model	JL220	JL230	JL245	JL260	JL280	JL2100	JL2150	JL2200
输送量 (kg/h) Inner conveying	200	300	450	600	800	1000	1500	2000
气泵功率 (kw) Gas pump power	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5
吸气管内径 (mm) Inner diameter of air Suction pipe	Φ38	Φ38	Φ50	Φ50	Φ63	Φ63	Φ63	Φ76
吸料管内径 (mm) Inner diameter of feed Suction pipe	Φ38	Φ38	Φ38	Φ50	Φ50	Φ50	Φ63	Φ63
加料筒容积 (L) Volume of charging bucket	8	10	12	15	20	40	40	40
加料筒总高 (mm) Total height of charging barrel	400	450	480	520	550	650	650	650
加料主机长 (mm) Length of charging main machine	430	430	430	430	430	600	600	600
加料主机宽 (mm) Width of charging main machine	500	500	500	500	500	800	800	800
加料主机高 (mm) Height of charging main machine	1100	1100	1100	1100	1100	1150	1150	1150
安全保护 Safety protection	1. 附有满料指示，缺料报警，电机过载保护装置等，方便操作与故障排除。 The full feed indication, alarm on feed lacking and electromotor overloading protection device are provided to be convenient for operation and troubleshooting. 2. 采用台湾原装进口微电脑全功能操控器，以确保性能更稳定，使用寿命更长。 The original micro-computer full functional controller imported from Taiwan is adopted so as to ensure that the performance is more stable and the service life is longer.							
选购说明 Instructions on Model Selection	1. 对输送的原料温度达80℃以上时，须配耐高温的PVC钢丝软管。 High-temperature flexible pipe must be provided when the temperature of the raw materials conveyed reaches over 80℃. 2. 输送的原料中破碎回用料较多时，须选配加料集尘器。 The dust collector for charging must be selected and matched when there are more crushed recycling materials in the conveyed raw materials. 3. 输送量以PE新粒料在高3.5米 长2.5米测量。 The conveying capacity is measured by PE new aggregate on 3.5m height and 2.5m length.							

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JL2系列F粉末加料机技术参数 JL2 powder charging machine technical parameters

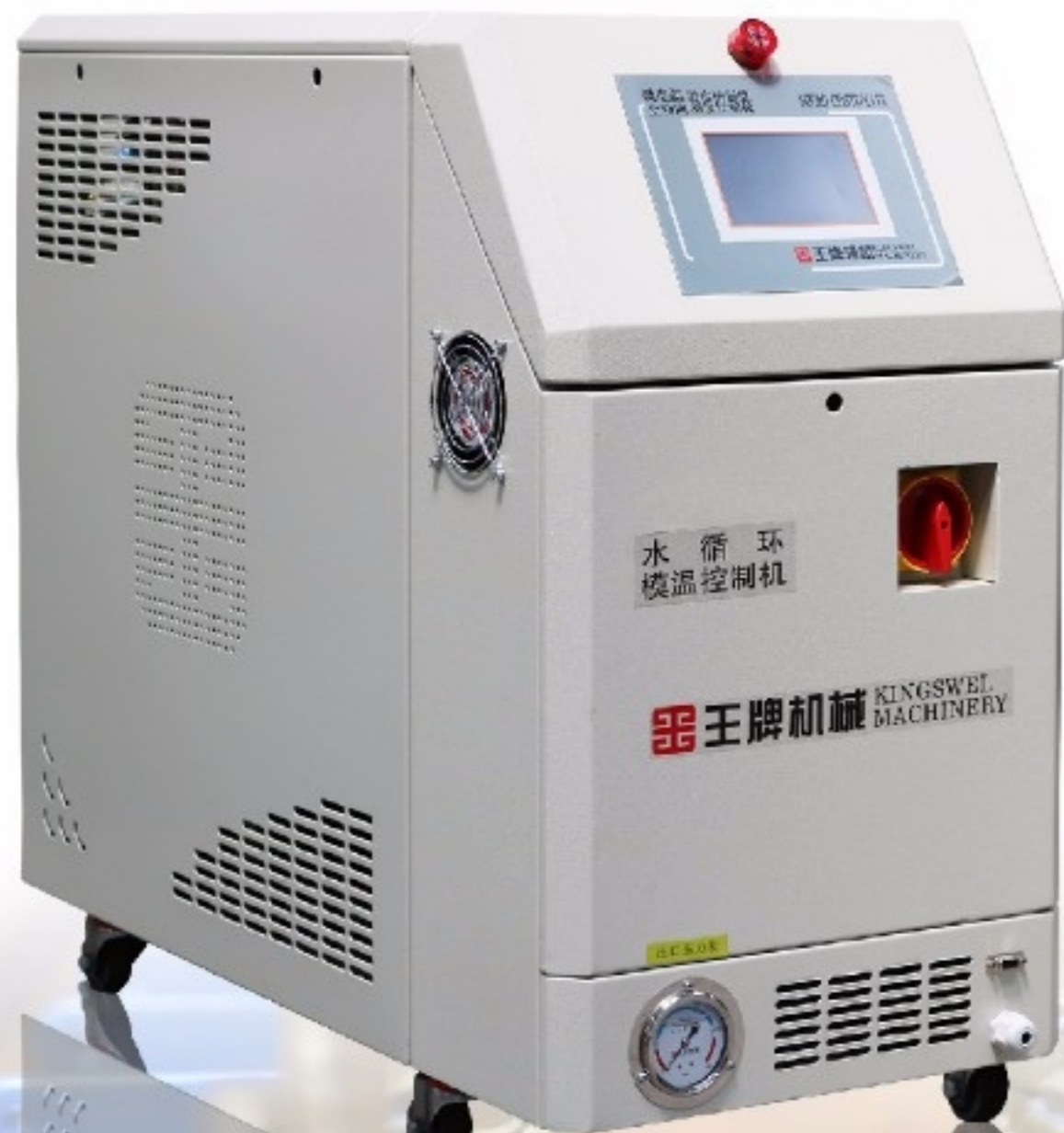
型号 Model	JL230F	JL245F	JL260F	JL280F
输送量 (kg/h) Inner conveying	300	450	600	800
气泵功率 (kw) Gas pump power	1.5	2.2	3.0	4.0
吸气管内径 (mm) Inner diameter of air Suction pipe	Φ50	Φ50	Φ63	Φ63
吸料管内径 (mm) Inner diameter of feed Suction pipe	Φ38	Φ38	Φ50	Φ50
加料筒容积 (L) Volume of charging bucket	30	30	40	40
加料筒总高 (mm) Total height of charging barrel	Φ380*850	Φ380*850	Φ450*930	Φ450*930
加料主机长 (mm) Length of charging main machine	430	430	430	600
加料主机宽 (mm) Width of charging main machine	500	500	500	800
加料主机高 (mm) Height of charging main machine	1100	1100	1100	1150
安全保护 Safety protection	1. 附有满料指示，缺料报警，电机过载保护装置等，方便操作与故障排除。 The full feed indication, alarm on feed lacking and electromotor overloading protection device are provided to be convenient for operation and troubleshooting. 2. 采用台湾原装进口微电脑全功能操控器，以确保性能更稳定，使用寿命更长。 The original micro-computer full functional controller imported from Taiwan is adopted so as to ensure that the performance is more stable and the service life is longer.			
选购说明 Instructions on Model Selection	1. 本机适合输送的粉料须是常温状态下颗粒度小于100目（不含油脂或粘性添加剂）。 The granularity of the powder applicable for conveying by this machine must be greater than 100 meshes under normal temperature condition (excluding the grease or adhesive additive). 2. 对于颗粒度更小的粉料须另行特制。 The powder with less granularity must be specially fabricated additionally. 3. 输送量以PE新粒料在高3.5米 长2.5米测量。 The conveying capacity is measured by PE new aggregate on 3.5m height and 2.5m length.			

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特点 模温机

Mold temperature controller

- ✓ 具有检测模具流量堵塞功能
Check the function of the mold flow blocking.
- ✓ 完善的安全保护系统，多项自动防错操控程序，确保设备安全可靠
Perfect security protection system and a number of automatic mistake proofing control programs ensure the safety and reliability of equipment.
- ✓ 分离式电气箱隔热设计，保障电气安全、电气寿命更长久
Separate electric box thermal insulation design ensures electrical safety, making electrical life longer.
- ✓ 电热控制采用固态继电器（SSR）--选配
Adopting solid state relay (SSR) for electro-thermal control - optional.
- ✓ 内部旁通调节，可以调不整热媒油压力
Internal bypass regulating can adjust the outlet pressure of the heat transfer oil.
- ✓ 具有联机功能（RS485），通讯协定采用MODBUS,容易与各种人机界面、PLC、工业电脑、笔记型电脑连接。
It has an online function(RS485),and communication protocol adopts MODBUS,easy to connect with various human computers and notebook computers.



模温机技术参数（水式）

Technical parameters of the mold temperature controller(water type)

机型 Model		MK306S	MK309S	MK312S	MK315S	MK320S	MK330S	MK340S	MK350S	MK360S	MK390S	
控制系统 Control System	最高温度 (℃) Maximum temperature	110										
	操作程序 Operating procedures	微电脑双组P.I.D., 全功能防错操作系统 Microcomputer dual P.I.D., with fully functional poke-poke operating system										
	温控器 Thermostat	多功能多测点LCD液晶显示之模温机专用温控器 Special thermostat for with multi-function and multiple measuring points LED LCD touch screen										
	温控程序 Temperature Control Program	可测出并显示和控制热媒入口温度 出口温度 设定温度 Capable of detecting, displaying and controlling the thermal medium inlet outlet temperature and set temperature										
加热系统 Heating system	加热功率 (kw) Heating power	6(3×2)	9(4.5×2)	12(6×2)	15(7.5×2)	20(10×2)	30(15×2)	40(10×4)	50(12.5×4)	60(15×4)	90(15×6)	
	热交换器 Heat exchanger	不锈钢双桶式 Stainless steel double-barrel type						不锈钢四桶式 Stainless steel four-barrel type			不锈钢六桶式 Stainless steel six-barrel type	
	能量输出 Power output	可自动或手动调节 Allow automatic and manual regulation										
冷却系统 Cooling system	冷却方式 Cooling method	直接冷却 Direct cooling										
	热交换器 Heat exchanger	不锈钢单桶式 Stainless steel single barrel type										
	电磁阀口径 Solenoid valve size	1/2"							3/4"			
循环系统 Circulatory system	泵浦功率 (kw) Pumping power	0.75	1.5			2.2			3.7			
	最大流量 (L/min) Maximum flow	153	276			371			500			
	最大压力 (Mpa) Max. pressure Mpa	0.22	0.33			0.4			0.6			
安全保护系统 Safety protection system		电源逆相、缺相保护、缺水保护、温控异常保护（可检测管路是否阻塞）、泵浦过载保护、过热保护、 锁定温控上限、测温体异常保护、测温体断路保护、急停断电装置、异常警报蜂鸣器 Reverse phase, phase-lack, protection of power supply, water lack protection, abnormal temperature control protection(detect whether the pipeline is blocked), pumping overload protection, overheating protection, locking the upper limit of temperature control, abnormal temperature sensing element protection, temperature sensing element circuit protection, emergency stop device, abnormal alarm buzzer										
机体 Airframe	热媒储量 (L) Heating medium Reserve	6	8				16			24		
	机械尺寸 (mm) Machinery dimension	620×350×600				820×350×740			1020×550×900			1020×550×1100
	重量 (kg) Weight	80	95	98	98	120	120	160				
配管 Piping	冷却水 Cooling water	1/2"							3/4"			
	热媒 Heating medium	1"					1 1/4"		1 1/2"			
电力 Electric power	电源 Power supply	3PH 380V 50HZ										
	电力控制 Electric control	电磁开关附保护 Solenoid switch attached protection										
	最大电力 (kw) Maximum power	6.75	9.75	13.5	16.5	21.5	32.2	42.2	63.7	93.7		
标准配件 Standard fittings		冷却水配管球阀及接头充油式压力表 Ball valves and couplings of cooling water piping, oil-filled pressure gauges										
选购配件 Optional accessories		多入多出配管接头各种耐温管及其管配件 Multi-input and multi-output pipe joint, various temperature-resistant pipe and pipe fittings										

1. S—传热媒体为水 2. 0—110℃之任何规格均可设计承制
1. S-Heat-transfer medium is water. 2. We can design and manufacture any products with specifications between 0-100℃.

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模温机技术参数 (油式)

Technical parameters of the mold temperature controller (Oil-type/HT Oil-type)

机 型 Model	MK306Y	MK309Y	MK312Y	MK315Y	MK309H	MK315H	MK320H	MK330H	MK340H	MK360H	MK380H	MK3120H					
控制系统 Control system	最高温控 (°C) Maximum temperature	180					280										
	操作程序 Operating procedure	微电脑双组P.I.D., 全功能防错操作系统 Microcomputer dual P-I-D, with fully functional polia-yotic operating system															
	温控器 Thermostat	多功能 多测点由LCD液晶显示之模温机专用温控器 Special thermostat for with multi-function and multiple measuring points LED LCD touch screen															
	温控程序 Temperature Control Program	可测出并显示和控制热媒入口温度 出口温度 设定温度 Capable of detecting, displaying and controlling the thermal medium inlet/outlet temperature and set temperature															
加热系统 Heating system	加热功率 (kw) Heating power	6(3×2)	9(4.5×2)	12(6×2)	15(7.5×2)	9(4.5×2)	15(7.5×2)	20(10×2)	30(15×2)	40(10×4)	60(15×4)	80(20×4)	120(20×6)				
	热交换器 Heat exchanger	双桶式 Dual-barrel								四桶式 Four-barrel			六桶式 Six-barrel				
	能量输出 Power output	可自动或手动调节 Allow automatic and manual regulation															
冷却系统 Cooling system	冷却方式 Cooling method	直接冷却 Indirect cooling															
	热交换器 Heat exchanger	高效盘管式 High-efficiency coil tube type															
	电磁阀通径 Solenoid valve size	1/2"					3/8"					1/2"					
循环系统 Circulating system	泵浦功率 (kw) Pumping power	0.75		1.5		1.5		2.2		3		4		5.5		7.5	
	最大流量 (L/min) Maximum flow	60		90		135		168		210		480		330		660	
	最大压力 (Mpa) Max. pressure Mpa	0.6		0.6		0.22		0.25		0.32		0.32		0.38		0.4	
安全保护系统 Safety protection system		电源逆相、缺相保护、缺水保护、温控异常保护 (可检测管路是否阻塞)、泵浦过载保护、过热保护、锁定温控上限、测温体异常保护、测温体断路保护、急停断电装置、异常警报蜂鸣器 Reverse phase, phase-lack, protection of power supply, water lack protection, abnormal temperature control protection (detect whether the pipeline is blocked), pumping overload protection, overheating protection, locking the upper limit of temperature control, abnormal temperature sensing element protection, temperature sensing element shutoff protection, emergency stop device, abnormal alarm buzzer															
机体 Atrixure	热媒容量 (L) Heating medium Reserve	16		16		60		60		75		90		120		210	
	机械尺寸 (mm) Machinery dimension	780×310×680		880×310×830		1110×650×1050		1110×650×1350		1430×750×1200		1430×750×1550					
	重量 (kg) Weight	95		110		225		235		245		250		280		330	
配管 Tubing	冷却水 Cooling water	1/2"					3/8"					1/2"					
	热媒 Heating medium	1/2" ×4 (四入四出)					1"		1 1/2"			2"					
电力 Electric power	电源 Power supply	3PH 380V 50HZ															
	电力控制 Electric control	电磁开关附保护 Solenoid switch attached protection															
	最大电力 (kw) Maximum power	6.75	9.75	13.5	16.5	10.5	16.5	21.5	32.2	43	64	85.5	127.5				
标准配件 Standard fittings		冷却水配管球阀及接头 充油式压力表 Ball valves and couplings of cooling water piping, oil-filled pressure gauges															
选购配件 Optional accessories		多入多出配管接头 各种耐温管及其管配件 Multi-input and multi-output pipe joint, various temperature-resistant pipe and pipe fittings															

- Y 最高温控180℃H—最高温控为280℃ 传热媒体均为导热油
Y-Highest temperature control up to 180°C; H-Highest temperature control 280°C; heat transfer medium are heat transfer oil
- 最高温控280℃之内的任何规格均可设计定制
We are capable of designing and manufacturing any specifications within the maximum temperature not greater than 280°C

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特点 温控机 Features Temperature controlling machine



- ☑ TC系列冷热两用温度控制机，集加热、制冷于一体
TC series dual-purpose temperature control machines, integrated with the heating and cooling functions in one unit.
- ☑ 能够同时输出两组不同温度的传热媒体
Able to deliver two thermal media with different temperatures.
- ☑ 温度控制范围大：每组输出都可以在5℃-95℃之间任一设定
Larger temperature control range: Able to define the temperature within 5~95 °C for each set of output.
- ☑ 采用PID智能温度控制，控制温度精度高，在1℃范围内
PID-based intelligent temperature control for regulating the temperature with a high accuracy of 1 °C.
- ☑ 选料上乘：所有机电材料均采用欧美品牌，可靠性高、寿命长
High-quality materials: All mechanical and electrical materials are imported from USA and Europe to ensure high reliability and long lifecycle.
- ☑ 具有多达11项异常保护警示功能
Featuring 11 error protection warning functions.

温控机技术参数

Technical parameters of the mold temperature controller

机型 Model		TC0506F	TC0706F	TC0709FT3	TC1009F	TC1009FT3	TC1015F	TC1524FT1	TC2008FT4
控制系统 Control system	温控范围 (°C) Temperature control range	5~95							
	操作程序 Operating procedure	全功能防错操作系统 Full-function error-proof operating system							
	温控器 Thermostat	使用进口 P.I.D 智能温度控制器 Using imported P.I.D intelligent temperature controller							
	温控程序 Temperature control program	可测出并显示和控制冰水 出口温度 设定温度 Be capable of measuring, displaying and controlling the temperature of the outlet temperature of the ice water as well as setting temperature							
冷冻系统 Cooling system	制冷量 (kcal/h) Cooling capacity	13420	21760	21760	27950	27950	27950	43520	55900
	压缩机 Compressor	采用美国 COPELAND 冷冻涡旋全封闭高效率或同等级冷媒压缩机 Totally closed high efficiency USA COPELAND frozen vortex refrigerant compressor or the equivalent							
	压缩机输入功率 (kW) Compressor input power	4.13	6.2	6.2	8.4	8.4	8.4	6.2×2	8.4×2
	使用冷媒 Refrigerant	R22							
	风扇功率 (kW) Fan Power	0.19×2	0.46×2	0.46×2	0.46×2	0.46×2	0.46×2	0.70×2	1.32×2
	冷凝器 Refrigerant type	高效翅片盘管式 High efficiency Finned Coil							
	蒸发器 Evaporator	壳管式内附星形导流板 Shell tube type, enclosed with the star-shaped guide plate							
	泵功率 (kW) Pump Power	1.08	1.15	1.15	1.95	1.95	1.95	3.12	3.05
	泵最大流量 (L/min) Max. Flow Rate of Pump	135	170	170	235	235	235	235	235
	泵最大压力 (Mpa) Max. Pressure of Pump	0.33	0.28	0.28	0.28	0.28	0.28	0.37	0.46
加热系统 Heating system	加热控制组 (组) Heating Control	2	2	3	2	3	2	2	4
	加热功率 (kW) Heating Power	12	12	27	18	27	30	24	32
	热交换器 Heat Exchanger	不锈钢双桶式 Stainless steel double-bucket type							
	冷却通径 Diameter of ballcock valves	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	泵功率 (kW) Pump Power	0.75×2	0.75×2	0.75×3	0.75×2	0.75×3	1.5×2	1.5	0.75×4
	泵最大流量 (L/min) Max. Flow Rate of Pump	165	165	165	165	165	235	235	165
	泵最大压力 (Mpa) Max. Pressure of Pump	0.22	0.22	0.22	0.22	0.22	0.24	0.24	0.22
安全保护系统 Safety protection system		电源欠、逆相保护 压缩机过载保护 循环泵过载保护 风扇过载保护 散热不良保护 冷媒不足保护 水温过低保护 水温过高保护 缺水警报 能量不足保护 急停断电装置 卸压及调压装置 测漏体异常保护 测漏体断路保护 总电源无熔丝断路器 Power supply under voltage and reverse phase protection, overload protection of the compressor, overload protection of the circulating pump, overload protection of the fan, poor heat dissipation protection, insufficient refrigerant protection, insufficient cooling protection, over high protection of water temperature, water shortage alarm, energy shortage protection, emergency power-off device, pressure relief and pressure regulating device, abnormal protection and circuit breaking protection of temperature sensing element, no-fuse circuit breaker of the main power							
机体 Body	冰水储量 (L) Cooling water capacity	120	140	170	140	170	140	170	220
	外形尺寸 (cm) Body measurement	171×105 ×140	190×85 ×230	210×107 ×230	190×85 ×230	210×90 ×220	190×85 ×230	220×100 ×260	310×115 ×250
	重量 (kg) Weight	520	580	660	680	780	710	745	1150
配管 Pipe	冰水 Cooling water	11/4"	11/2"	11/2"	11/2"	11/2"	11/2"	2"	2"
	热水 Hot Water	1"	1"	1"	1"	1"	1"	1"	1"
电力 Power	电源 Energy Supply	3PH 380V 50HZ							
	电力控制 Power Control	电磁开关附保护 Solenoid switch attached protection							
	最大电力 (kW) Maximum Power	19.1	21.8	37.5	30.8	40.5	44.3	42.4	57.5
标准配件 Standard fitting		冷媒高压表、冷媒低压表、冰水出口压力表、加液口液位视窗 High pressure gauge for refrigerant, low pressure gauge for refrigerant, ice water outlet pressure gauge liquid filling opening, liquid level window							
选购配件 Optional fitting		多入多出配管接头、各种耐温管及其管配件 Multi-input and multi-output pipe joint, various temperature-resistant pipe and pipe fittings							

S 为水冷式 F 为风冷式, 承制各种水冷式及风冷式冷冻及热媒系统搭配, 蒸发温度 10°C, 冷凝温度 50 °C
S stands for water-cooled type and F for air-cooled type. We are able to supply various combination of water-cooled and air-cooled refrigerant and thermal media systems with the evaporation temperature of 10 °C and condensation temperature of 50 °C

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温控机技术参数

Technical parameters of the mold temperature controller

机型 Model		TC0506S	TC0709S	TC1015S	TC1520S	TC2010ST4	TC3030S	TC4036S	TC4048S
控制系统 Control system	温控范围 (°C) Temperature control range	5~95							
	操作程序 Operating procedure	全功能防错操作系统 Full-function error-proof operating system							
	温控器 Thermostat	使用进口 P.I.D 智能温度控制器 Using imported P.I.D intelligent temperature controller							
	温控程序 Temperature control program	可测出并显示和控制冰水 出口温度 设定温度 Be capable of measuring, displaying and controlling the temperature of the outlet temperature of the ice water as well as setting temperature							
冷冻系统 Cooling system	制冷量 (kcal/h) Cooling capacity	13420	21760	27950	43520	55900	79120	111800	111800
	压缩机 Compressor	采用美国原装进口全封闭高效率冷媒压缩机, 内附隐藏式消音装置 The shell tube type is attached with the removable cover plate, and the fan-type heat dissipation mode is used for the copper pipe							
	压缩机输入功率 (kW) Compressor input power	4.13	6.2	8.4	6.2×2	8.4×2	13.02×2	8.4×4	8.4×4
	使用冷媒 Refrigerant	R22							
	冷凝器 Condenser	壳管式附可拆卸之盖板, 铜管采用螺旋式散热模式							
	蒸发器 Evaporator	壳管式内附星形导流板 Shell tube type, enclosed with the star-shaped guide plate							
	泵功率 (kW) Pump power	1.08	1.15	1.95	3.12	3.05	3.58	3.58	3.58
	泵最大流量 (L/min) Max. flow of the pump	135	170	235	235	235	235	235	235
	泵最大压力 (Mpa) Max. pressure for the pump	0.33	0.28	0.28	0.37	0.46	0.52	0.52	0.52
	加热控制组 (组) Heating control unit (set)	2	2	2	2	4	2	2	2
加热系统 Heating system	加热功率 (kW) Heating power	12	18	30	40	40	60	72	96
	热交换器 Heat exchanger	不锈钢双桶式 Stainless steel double-bucket type							
	冷却通径 Diameter of Cooling Pipeline	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	泵功率 (kW) Pump power	0.75×2	0.75×2	1.5×2	1.5×2	0.75×4	2.2×2	2.2×2	3.7×2
	泵最大流量 (L/min) Max. flow of the pump	165	165	235	235	165	315	315	385
	泵最大压力 (Mpa) Max. pressure for the pump	0.22	0.22	0.24	0.24	0.22	0.25	0.25	0.28
	安全保护系统 Safety protection system	电源欠、逆相保护 压缩机过载保护 循环泵过载保护 风扇过载保护 散热不良保护 冷媒不足保护 水温过低保护 水温过高保护 缺水警报 能量不足保护 急停断电装置 卸压及调压装置 测漏体异常保护 测漏体断路保护 总电源无熔丝断路器 Power supply under voltage and reverse phase protection, overload protection of the compressor, overload protection of the circulating pump, overload protection of the fan, poor heat dissipation protection, insufficient refrigerant protection, insufficient cooling protection, over high protection of water temperature, water shortage alarm, energy shortage protection, emergency power-off device, pressure relief and pressure regulating device, abnormal protection and circuit breaking protection of temperature sensing element, no-fuse circuit breaker of the main power							
机体 Body	冰水储量 (L) Reserves of the ice water	120	150	150	250	220	300	500	500
	外形尺寸 (cm) Overall dimensions	160×65 ×150	160×75 ×160	160×75 ×160	240×75 ×160	306×115 ×170	278×115 ×175	311×135 ×190	311×135 ×190
	重量 (kg) Weight	480	580	630	930	1260	1850	2040	2060
配管 Pipe	冰水 Ice water	11/4"	11/2"	11/2"	2"	2"	2"	2"	2"
	热水 hot water	1"	1"	1"	1"	1"	1"	11/2"	11/2"
电力 Power	电源 Power supply	3PH 380V 50HZ							
	电力控制 Electric control	电磁开关附保护 Solenoid switch attached protection							
	最大电力 (kW) Maximum power	18.7	27.4	43.4	58.5	62.9	94.0	113.6	140.6
标准配件 Standard fitting		冷媒高压表、冷媒低压表、冰水出口压力表、加液口液位视窗 High pressure gauge for refrigerant, low pressure gauge for refrigerant, ice water outlet pressure gauge liquid filling opening, liquid level window							
选购配件 Optional fitting		多入多出配管接头、各种耐温管及其管配件 Multi-input and multi-output pipe joint, various temperature-resistant pipe and pipe fittings							

S 为水冷式 F 为风冷式, 承制各种水冷式及风冷式冷冻及热媒系统搭配, 蒸发温度 10°C, 冷凝温度 50 °C
S stands for water-cooled type and F for air-cooled type. We are able to supply various combination of water-cooled and air-cooled refrigerant and thermal media systems with the evaporation temperature of 10 °C and condensation temperature of 50 °C

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特点 Industrial chiller

- ✓ 压缩机及制冷配件采用美国、法国、欧美品牌，质量可靠
Reliable and high-quality compressor and refrigeration accessories imported from USA and Europe;
- ✓ 冷凝器，蒸发器加大换热面积，能效比高，效果佳
Condenser and evaporator designed with a larger heat exchange area to ensure higher energy efficiency and better performance;
- ✓ 完善的安全保护系统，确保各设备安全可靠
Perfect security protection system, safety and reliability of equipment guarantee;
- ✓ 二十年的设计、制造经验，及先进工艺水平确保质量，领先同业
An industry leader with twenty-year experience in design and manufacturing. Adopting cutting-edge technologies to ensure high quality;
- ✓ 具有联机功能（RS485），通讯协定采用MODBUS,容易与各种人机界面、PLC、工业电脑、笔记型电脑连接。
It has an online function(RS485),and communication protocol adopts MODBUS,easy to connect with various human computers and notebook computers.



冷水机技术参数 Chiller technical parameters

机型 Model			LS302F	LS303F LS303S	LS305F LS305S	LS307F LS307S	LS310F LS310S	LS312F LS312S	LS315F LS315S	LS320F LS320S	LS325F LS325S	LS330F LS330S	LS340F LS340S	
控制系统 Control System	温控范围 (°C) Temperature control range		5~35											
	操作程序 Operating procedure		微电脑双组输出，全功能防错操作系统 Microprocessor operation system											
	温控器 Thermostat		多功能 多测点 LED液晶触摸屏之冷水机专用控制器 Multi-function multi-point LED touch screen water chiller special controller											
	温控程序 Temperature control program		可测出并显示和控制冰水入口温度 出口温度 设定温度 Be capable of measuring, displaying and controlling the temperature of the inlet and outlet of the ice water as well as setting temperature											
制冷系统 Refrigerating system	制冷量 (kcal/h) Cooling capacity		6450	8130	13420	21760	27950	32680	43520	55900	65360	79120	111800	
	压缩机 Compressor		采用美国原装进口全封闭高效率冷媒压缩机，内附隐藏式消音装置 Totally closed high efficiency USA COPELAND frozen vortex refrigerant compressor or the equivalent											
	压缩机输入功率 (kw) Compressor input power		1.94	2.57	4.13	6.2	8.4	9.25	6.2×2	8.4×2	9.25×2	13.2×2	8.4×4	
	冷媒 Refrigerant		R22											
冷凝系统 Condensing System	风扇功率 (kw) Fan power		0.19	0.19×2	0.19×2	0.46×2	0.46×2	0.7×2	0.70×2	1.32×2	1.32×2	1.32×3	1.6×3	
	冷凝器 Condenser	风冷式 Air-cooled	高效翅片盘管式 High efficient finned coil					"V"型高效翅片盘管式 High efficiency V-shaped fin coiled the type						
		水冷式 Water-cooled	壳管式 附可拆卸之盖板，铜管采用螺旋式散热模式 The shell tube type is attached with the removable cover plate, and the fin-type heat dissipation mode is used for the copper pipe											
	蒸发系统 Evaporating System	膨胀阀 Expansion Valve		采用美国AICO或同等级品牌 USA AICO or the equivalent brand										
干燥过滤器 Dry Filter		采用美国AICO或同等级品牌 USA AICO or the equivalent brand												
蒸发器 Evaporator		壳管式内附星形导流板 Shell-and-tube with removable cover plate												
循环泵品牌 Circulating pump brand		采用台湾华乐士或同等级品牌 Taiwan WALRUS or the equivalent brand												
循环系统 Circulating System	泵功率 (kw) Pump power		0.62	0.85	1.08	1.15	1.68	1.68	3.12	3.05	3	3	4	
	泵最大流量 (L/min) Max flow of the pump		60	135	135	170	170	170	235	235	370	370	470	
	泵最大压力 (MPa) Max pressure for the pump		0.33	0.25	0.33	0.28	0.35	0.35	0.37	0.46	0.38	0.38	0.38	
	安全保护系统 Safety protection system		电源欠 逆相保护 压缩机过载保护 循环泵保护 风扇过载保护 Under voltage reverse phase protection, compressor overload protection, circulating pump overload protection, fan overload protection, poor heat dissipation protection, refrigerant shortage protection, cooling inadequate protection, low water temperature protection, high water temperature protection, water shortage alarm, energy shortage protection, voltage relief and voltage regulating device, abnormal protection of temperature sensing element, circuit breaker of main power without fuse.											
机体 Main body	冰水储量 (L) Reserve of the ice water	风冷式 Air-cooled type	40	40	60	120	120	120	140	200	200	310	270	
		水冷式 Water-cooled type	*	50	85	140	140	140	200	200	400	300		
	外形尺寸 (cm) Overall dimension	风冷式 Air-cooled type	88×65 ×124	133×65 ×117	133×65 ×117	166×85 ×165	166×85 ×165	166×85 ×165	194×99 ×201	221×100 ×212	221×100 ×212	311×115 ×203	311×137 ×235	
		水冷式 Water-cooled type	*	100×60 ×106	120×60 ×115	145×65 ×131	145×65 ×131	145×65 ×131	175×78 ×165	175×78 ×165	175×78 ×165	204×95 ×186	230×100 ×205	
	重量 (kg) Weight	风冷式 Air-cooled type	180	300	340	420	520	520	650	720	720	1500	1800	
		水冷式 Water-cooled type	*	220	320	420	440	440	730	780	780	1650	1800	
	配管 Piping	冷却水 Cooling water	风冷式 Air-cooled type	*	1"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2×2"
		冰水 Chilling water	风冷式 Air-cooled type	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"
电力 Electric power	电源 Power supply		3PH+N+PE 380V 50HZ											
	压缩机控制 Compressor control		电磁开关附保护 Magnetic switch with protector											
	最大电力 (kw) Max Power	风冷式 Air-cooled type	2.8	3.8	5.5	8.3	11	12.3	16.9	22.5	24.1	33.3	42.4	
		水冷式 Water-cooled type	*	3.4	5.1	7.4	10.1	10.9	15.5	19.9	21.5	29.4	37.6	
标准配件 Standard fittings			冷媒高压表、冷媒低压表、冰水出口压力表 High and low pressure gauges for refrigerant pressure gauge for ice water outlet pressure gauge											
选购配件 Optional accessories			多入多出配管接头、PU橡胶保温棉、冷却水塔、冷却水泵油 Multi-input and multi-output pipe joint, various temperature-resistant pipe and pipe fittings											

1. S为水冷式F为风冷式 2. 1~300RT之任何规格均可设计承 3. 制冷量测试条件: 蒸发温度5℃
1.S for water-cooled F for wind-cooled. 2.Specifications between 1 and 300RT are available. 3. Cooling output testing term: at the evaporating temperature of 5℃.

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特点 机器人专用冷水机 Chiller for robots



- ✓ 采用板式换热器
Using plate heat exchanger;
- ✓ 采用不锈钢材质，确保无生锈或腐蚀产生。
Using stainless steel to prevent rust or corrosion completely;
- ✓ 配置台湾原装进口触摸屏电脑控制板
Computer-based touch screen control panel imported from Taiwan;
- ✓ 采用不锈钢多级离心式特
Using special-purpose multi-stage centrifugal circulating pump, made of stainless steel, with high lift and large flow rate, ideal for robot application;
- ✓ 具有联机功能 (RS485)，通讯协定采用MODBUS,容易与各种人机界面、PLC、工业电脑、笔记型电脑连接。
It has an online function(RS485),and communication protocol adopts MODBUS,easy to connect with various human computers and notebook computers.

冷水机技术参数 Technical data-Chiller

机型 Model		LS302FB	LS303FB	LS305FB	LS307FB	LS310FB	LS315FB	LS320FB	LS325FB
控制系统 Control System	温控范围 (℃) Temperature	5~35℃							
	操作程序 Operation	微电脑双组输出，全功能防错操作系统 Microprocessor operation system							
	温控器 Controller	使用台湾进口多功能 多测点 LED液晶触摸屏之冷水机专用控制器 Use of Taiwan import multi-function multi-point LED touch screen chiller special controller							
	温控程序 Temperature Control	可测出并显示和控制冰水入口温度出口温度设定温度 Check,display and control inlet,outlet and setting temperature							
冷冻系统 Refrigerating System	制冷量 (kcal/h) Cooling Output	6450	8130	13420	21760	27950	43520	55900	65360
	压缩机 Compressor	采用美国原装进口全封闭高效率冷媒压缩机，内附隐藏式消音装置 High efficient hermetic compressor imported from U.S.A with silencer inside							
	压缩机输入功率 (kw) Input power	1.94	2.57	4.13	6.2	8.4	6.2*2	8.4*2	9.25*2
	冷媒 Refrigerant Gas	R22							
冷凝系统 Condensing System	风扇功率 (kw) Fan Power	0.19	0.19×2	0.19×2	0.46×2	0.46×2	0.70×2	1.32×2	1.32×2
	冷凝器 Condenser	高效翅片盘管式 High efficient finned coil			“V”型高效翅片盘管式 High efficiency V-shaped fin coiled type				
蒸发系统 Evaporating System	膨胀阀 Expansion Valve	采用美国AICO或同等级品牌 USA AICO or the equivalent brand							
	干燥过滤器 Dry Filter	采用美国AICO或同等级品牌 USA AICO or the equivalent brand							
	蒸发器 Evaporator	全不锈钢高效板式换热器 Full stainless steel plate heat exchanger with high efficiency							
循环系统 Circulating System	循环泵品牌 Circulating Pump Brand	采用南方全不锈钢水泵 Adopt the southern all-stainless steel pump							
	泵功率 (kw) Pump Power	0.55	0.75	1.1	1.1	1.8	2.4	2.4	3
	泵最大流量 (L/min) Max flow of the Pump	60	117	117	183	267	267	267	370
	泵最大压力 (MPa) Max pressure for the Pump	0.46	0.38	0.46	0.29	0.35	0.47	0.47	0.38
安全保护系统 Safety Guard		电源欠 逆相保护 压缩机过载保护 循环泵过载保护 Under voltage reverse phase protection,compressor overload protection, circulating pump overload protection, fan overload protection, poor hot dissipation protection,refrigerant shortage protection,cooling inadequate protection,low water temperature protection,high water temperature protection,water shortage alarm,energy shortage protection,emergency stop and power-off device,voltage relief and voltage regulating device, abnormal protection of temperature sensing element,shutdown protection of temperature sensing element,circuit breaker of main power without fuse. 风扇过载保护 散热不良保护 冷媒不足保护 冷却不足保护 水温过低保护 水温过高保护 缺水警报 能量不足保护 急停断电装置 卸压及调压装置 测媒体异常保护 测媒体断路保护 总电源无熔丝断路器							
机体 Main Body	冰水储量 (L) Chilling Water	80	130	130	340	340	340	340	340
	外形尺寸 (cm) Dimensions	88*65*124	133*65*117	133*65*117	166*85*165	166*85*165	194*99*201	221*100*212	221*100*212
	重量 (kg) Weight	140	260	285	395	490	610	670	680
配管 Tubing	冰 水 Chilling Water	1"	1"	1"	出口1" 入口1 1/2"	出口1" 入口1 1/2"	出口 1 1/2" 入口 2" "	出口 1 1/2" 入口 2"	2"
电力 Power	电源 Power Supply	3PH+N+PE 380V 50HZ							
	压力控制 Electric Control	电磁开关附保护 Magnetic switch with protector							
	最大电力 (kw) Maximum power	2.7	3.7	5.6	8.2	11.1	16.2	21.8	24.1
标准配件 Standard		冷媒高压表 冷媒低压表 冰水出口压力表 加液口 液位视窗 High/low pressure gauge for freon chilling water outlet pressure gauge							
选购配件 Optional		多入多出配管接头、PU橡胶保温棉、冷却水塔、冷却水泵浦 Multi-in and multi-out pipe connection pu thermal insulation cooling tower cooling pump							

1. FB 为板式风冷式 FB for plate air-cooled.
2. 1~300RT之任何规格均可设计承 Specifications between 1 and 300RT are available.
3. 制冷量测试条件: 蒸发温度5°C Cooling output testing term: at the evaporating temperature of 5°C.

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特点 Inverter chiller

- ✓ **低噪音** (Low noise)
噪音可低至定频压缩机的30%
The noise of the inverter compressor can be as low as 30%;
- ✓ **环保** (Environmental protection)
采用R410A制冷剂, 环保无污染
Using R410A refrigerant, environmental protection and no pollution;
- ✓ **系统优化** (System optimization)
水箱增大50%, 可选用内外循环双泵系统
The water tank is increased by 150%, Inner and outer circulation double pump system can be used;
- ✓ **精确控温** (Precise temperature control)
- ✓ **节能减排** (Energy saving and emission reduction)
水箱增大50%, 可选用内外循环双泵系统
Eliminate the frequent start of the invariable frequency compressor and reduce the energy loss during operation;
- ✓ **具有联机功能** (RS485), 通讯协定采用MODBUS, 容易与各种人机界面、PLC、工业电脑、笔记型电脑连接。
It has an online function(RS485),and communication protocol adopts MODBUS,easy to connect with various human computers and notebook computers.

变频冷水机参数表

Parameters of cooling-water machine

机型 Model			LS315FBP	LS320FBP	LS330FBP	LS340FBP
控制系统 Control system	温控范围 (℃) Temperature control range		5~35			
	操作程序 Operating procedures		微电脑双组输出, 全功能防错操作系统 Microprocessor operation system			
	温控器 Thermostat		使用台湾进口多功能多测点LCD液晶显示之冷水机专用控制器 Multi-function multi-check-point led display			
	温控程序 Temperature control program		可测出并显示和控制冰水入口温度出口温度设定温度 Check, display and control inlet, outlet and setting temperature			
冷冻系统 Refrigerating System	制冷量 (kcal/h) Cooling capacity		49880	62700	77830	102000
	压缩机 Compressor		采用丹麦DANFOSS压缩机变频压缩机+美国copeland冷冻涡旋定频压缩机 Using DANFOSS compressor inverter compressor in Denmark			
	压缩机功率 (kW) INPUT POWER (HP)		17.67	13.25+9.16	17.67+10.19	25.26+11.3
	使用冷媒 Freon		R410A			
冷凝系统 Condensing System	风扇功率 (kW) Condenser		0.7×2	1.32×2	1.32×3	1.32×3
	冷凝器 Condenser	风冷式 Air-cooled	“V”型高效翅片盘管式 “V” high efficient finned coil			
蒸发系统 Evaporating System	膨胀阀 Expansion valve		采用美国ALCO或同等级品牌 Use also in U.S.A or the same grade brand			
	干燥过滤器 Dry filter		采用美国ALCO或同等级品牌 Use also in U.S.A or the same grade brand			
	蒸发器 Evaporator		全不锈钢高效板式热交换器 Full stainless steel plate heat exchanger with high efficiency			
循环系统 Circulating System	循环泵品牌 Circulating Pump brand		采用台湾华乐士或同等级品牌 Taiwan walrus or the equivalent brand			
	泵功率 (kW) Pump		1.8	1.8	3.0	4.0
	泵最大流量 (L/min) Max.Pump rate		267	267	367	467
	泵最大压力 (MPa) Max.Pressure		0.35	0.35	0.4	0.4
安全保护系统 Safety guard			电源欠、逆相保护 压缩机过载保护 循环泵过载保护 风扇过载保护 散热不良保护 冷媒不足保护 冷却不足保护 水温过低保护 水温过高保护 缺水警报 能量不足保护 急停断电装置 卸压及调压装置 测温体异常保护 测温体断路保护 总电源无熔丝断路器 Under voltage/reverse phase protection, compressor overload protection, circulating pump overload protection, fan overload protection, poor heat dissipation protection, refrigerant shortage protection, cooling inadequate protection, low water temperature protection, high water temperature protection, water shortage alarm, energy shortage protection, emergency stop and power-off device, voltage relief and voltage regulating device, abnormal protection of temperature sensing element, circuit breaker of main power without fuse.			
机 体 Main body	冰水储量 (L) Chilling water		350	350	350	350
	外形尺寸 (cm) Dimensions		195×99×200	221×100×212	311×115×203	311×137×235
	重量 (kg) Weight		600	720	1500	1800
配管 Pipe	冰水 Chilling water		1 1/2"	1 1/2"	2"	2"
电力 Power	电 源 Power		3PH 380V 50HZ			
	最大电力 (kW) Max power		21.5	26.9	34.8	44.5
标准配件 Standard fitting			冷媒高压表、冷媒低压表、冰水出口压力表 High/low pressure gauge for freon chilling water outlet pressure gauge			
选购配件 Optional fitting			多入多出配管接头 PU橡胶保温棉 冷却塔 冷却水泵 Multi-in and multi-out pipe connection PU thermal insulation cooling tower cooling pump			

- 1.S为水冷式 F为风冷式 S for water-cooled F for wind-cooled
2. 制冷量测试条件: 蒸发温度10°C, 冷凝温度50°C Cooling output testing term: at the evaporating temperature of 10°C
3. LS320FBP\LS330FBP\ LS340FBP冷水机均采用一个变频压缩机+一个定频压缩机

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特点 螺旋式拌料机 Features Spiral blender

- ✓ 本机一次拌料量大节省能源60%以上
Large capacity, more than 60% energy-efficient
- ✓ 全不锈钢桶体，光洁平整，无死角
Stainless-steel barrel is smooth and has no dead end.
- ✓ 投料，清料维护极为方便
Easy to load, unload, clean up and maintain the machine.



螺旋式拌料机技术参数 Spiral Blender Technical Data

机型 Model	BL150	BL1100	BL1200	BL1300
拌料量 (Kg) Capacity	500	1000	2000	3000
输入功 (KW) Power	3	4	5.5	7.5
转速 (rpm) Rotational Speed	300	300	300	300
桶径 (mm) Barrel diameter	1100	1380	1680	2130
机械尺寸 (mm) Dimensions	1450×1100×2200	1580×1380×3100	1890×1680×3470	2350×2130×3560
重量 (kg) Weight	450	630	1050	1250

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特点 直立式拌料机 Features Vertical Blender

- ✓ 摆线针轮减速机传动，运转平稳，噪音低
Driven by cycloid pin gear reducer, working smoothly and making low noise.
- ✓ 精心设计的搅拌机，能有效的翻动，扩散，对流，混料均匀，效率高
Elaborate agitator paddle for efficiently threshing, diffusion and convection, equally mixing.
- ✓ 梯形大面积触地机座，重心低，运转平稳
Trapezoidal touchdown base for low barycenter and working smoothly.
- ✓ 不锈钢拌料桶，搅料叶，光泽平整
Stainless steel barrel and agitator paddle, smooth and good appearance.

直立式拌料机技术参数 Vertical Blender Technical Data

机型 Model	BL205	BL210	BL215	BL220	BL225
拌料量 (Kg) Capacity	50	100	150	200	250
输入功 (KW) Power	2.2	4	5.5	4	5.5
转速 (rpm) Rotational Speed	85	85	85	85	85
桶径 (mm) Barrel diameter	630	800	880	930	930
卸料口径 (mm) Discharge Dimension	150×85	150×125	150×125	150×125	150×125
机械尺寸 (kg) Dimensions	840×680×1150	840×680×1250	880×720×1350	940×780×1580	980×820×1680

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特点 PS系列破碎机 Features Ps crusher series

- ✓ 粉碎机箱体采用一体浇注成型，耐磨性好
Pulverizer box body adopts one casting molding with good wear-resistance.
- ✓ 主轴粗，加工精度高，运转平稳，寿命长
Mainshaft is coarse with high accurate processing, stable operation and long service life.
- ✓ 刀具，采用合金工具钢，刀刃锋利，持久耐用
Cutting tool adopts alloy tool steel with sharp blade and durable service.
- ✓ 刀盘设计合理，片型V型剪切设计，剪切效率高，速度快，成型颗粒
The design of cutterhead is reasonable; slice type and v type cutting design has high efficiency of cutting with fast speed, shape uniform, powder little
Ps crusher series uniform shape of molding particle and little powder.
- ✓ 复合型刀盘设计是集片型和爪型设计于一体，阶梯状排列分布，工作时分散物料的冲击力，减轻碎料时的冲击力，使得每把刀片的破碎剪切力更大，效率更高
Compound type cutterhead design combines slice type and claw type to one with stair-step arrangement and distribution, in order to disperse the impact force of material, reduce the impact force during material crushing, make the broken cutting force of each pair of blade to be bigger and more efficient.
- ✓ 机器两边飞轮和带轮超大质理，增强机器的惯性，从而达到工作时降低机器能耗
The flywheel and belt wheel at two sides of machine with super large mass can strengthen the inertance of machine, so as to reduce energy consumption of machine when operating.

PS系列破碎机技术参数 PS Crusher Technical parameters

型号 Model	PS105	PS107	PS110	PS115	PS120	PS130	PS240	PS250
破碎能力 (kg/h) Broken capacity	70~125	100~200	150~250	200~300	250~350	300~600	300~600	400~800
主电机功率 Main motor power	(hp)	5	7.5	10	15	20	30	40
	(kw)	4	5.5	7.5	11	15	22	30
入料腔尺寸 (mm) Size of material entering box	265×225	300×265	360×265	420×265	480×330	660×450	660×500	800×500
旋转刀刃直径 (mm) Diameter of revolving blade	Φ225	Φ230	Φ230	Φ230	Φ300	Φ440	Φ440	Φ440
主轴转速 (rpm) Speed of mainshaft	410	610	610	610	610	410	410	410
三角皮带 V belt	B型1600	B型1833	B型1905	B型1753	B型2235	C型3353	C型3353	C型3353
动刀尺寸 (mm) Size of moving blade	245×67 ×16	300×82 ×17	180×82 ×17	210×85 ×17	160×85 ×17	330/220× 100×22	330×100 ×20	398×100 ×20
动刀数量 (把) Quantity of moving blade(pair)	3	3	6	6	9	6/9	6	6
定刀尺寸 (mm) Size of fixed cutter	262×71 ×16	300×95 ×17	360×105 ×17	420×105 ×17	480×115 ×17	330×100 ×20	330×100 ×20	400×100 ×20
定刀数量 (把) pair Fixed cutter	2	2	2	2	2	4	4	4
筛网孔径 (mm) Mesh size	Φ8.5	Φ8.5	Φ8.5	Φ8.5	Φ8.5	Φ10	Φ10	Φ10
料斗开启方式 Opening mode of hopper	手动 Manual	手动 Manual	手动 Manual	手动 Manual	手动 Manual	手动 Manual	手摇机构 Hand shaking mechanism	手摇机构 Hand shaking mechanism
储料箱尺寸 (mm) Size of storage box	560×340 ×350	550×340 ×200	560×420 ×220	570×440 ×220	770×560 ×270	760×710 ×300	760×710 ×300	760×710 ×300
机械尺寸 (mm) Machinery size	1070×570 ×1340	1230×820 ×1350	1170×866 ×1360	1137×950 ×1200	1360×1100 ×1700	2050×1330 ×2030	2150×1460 ×2100	2200×1560 ×2500
重量 (kw) Weight	460	590	760	890	980	1960	2180	2690
选购配件 Optional accessories	自动出料装置 Automatic feeding mechanism	C13 2.2KW风机 Draught fan	C13 2.2KW风机 Draught fan	C14 3KW风机 Draught fan	C14 3KW风机 Draught fan	C15 4KW风机 Draught fan	C15 4KW风机 Draught fan	C17 5.5KW风机 Draught fan
	储料箱 Storage tank	LX1000	LX1000	LX1000	LX1000	LX1000	LX1000	LX1000
	除尘装置 Duster	*	*	*	*	*	LLB-17D 2.2kw 除尘器	LLB-17D 2.2kw 除尘器

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特点 PT系列破碎机

Features Pt crusher series



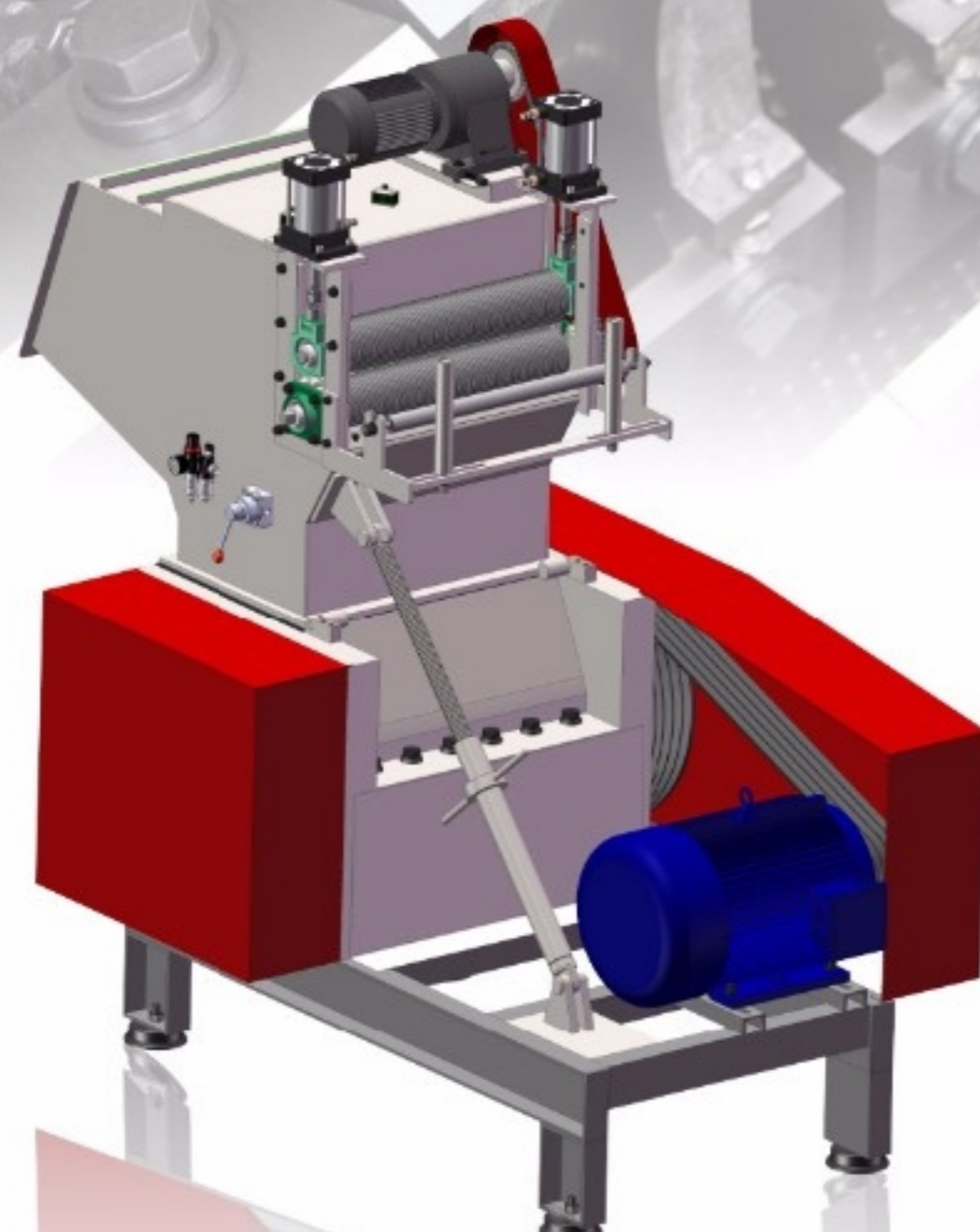
- ☑ 粉碎机箱体加厚钢板焊接箱体，外观设计大气，实用
The pulverizer box body is welded by thicken steel sheet with elegant appearance design and practical service.
- ☑ 主轴加粗，加工精度高，动平衡处理，运转平稳，震动小，使用寿命长
Overstriking main shaft has high working accuracy, dynamic balance treatment, stable operation, little vibration and long service period properties.
- ☑ 刀具，采用SKD-11材质，韧性好，刀刃锋利，持久耐用
Cutter tool adopts SKD-11 texture with good toughness, blade is sharp and durable in use.
- ☑ 主轴采用V型剪切设计，剪切效率高，速度快，颗粒形状均匀，粉末少
Main shaft adopts V type cutting design with high efficiency of cutting, fast speed, uniform shape of particle and less powder.
- ☑ 机器箱体采用上下箱体分体设计，方便机器刀片的拆装，维护和清理
Machine box body adopts separate design for upper and lower box body, in order to facilitate the dismounting, maintenance and cleaning of machine's blade.
- ☑ 机器箱体打开采用手动摇杆打开和液压自动打开装置两种形式，从而降低劳动强度
Manual rocker and hydraulic automatic opening forms are adopted for opening machine box body, so as to reduce labor intensity.
- ☑ 独立控制系统，安全保护功能齐全
Separate controlling system has the complete safety protection function.

PT系列破碎机技术参数

PT Crusher Technical parameters

型号 Model	PT480	PT660	PT800	PT1000	PT1200	PT1500
破碎能力 (kg/h) Broken capacity	250~350	300~600	500~900	700~1100	800~1300	1000~1600
主电机功率 Main motor power	(hp) 20	30	50	60	75	100
	(kw) 15	22	37	45	55	75
入料腔尺寸 (mm) Size of material entering	480×350	660×500	800×650	1000×650	1200×650	1500×720
旋转刀直径 (mm) Diameter of revolving blade	Φ300	Φ440	Φ600	Φ600	Φ600	Φ600
主轴转速 (rpm) Speed of mainshaft	560	410	410	410	410	410
三角皮带 V belt	SPB2240	C3353	SPC4000	SPC4000	SPC4000	SPC4000
动刀尺寸 (mm) Size of moving blade	240×80×17	220×100×20	400×105×22	500×110×22	600×110×22	500×110×24
动刀数量 (把) Quantity of moving blade(pair)	6	9	8	8	8	15
定刀尺寸 (mm) Size of fixed cutter	480×78×17	660×100×20	400×102×22	500×105×22	500×105×22	500×105×22
定刀数量 (把) Fixed cutter	2	2	4	4	4	6
筛网孔径 (mm) Mesh size	Φ8.5	Φ10	Φ12	Φ12	Φ12	Φ12
料斗开启方式 Opening mode of hopper	手摇机构 Hand shaking mechanism	手摇机构 Hand shaking mechanism	液压式 (1.5kw)	液压式 (2.2kw)	液压式 (2.2kw)	液压式 (2.2kw)
储料箱尺寸 (mm) Size of storage box	550×550×240	790×740×340	*	*	*	*
机械尺寸 (mm) Machinery size	1320×1320×2200	1900×1550×2700	2300×1800×3700	2300×2000×3700	2300×2200×3700	2300×2600×3800
重量 (kw) Weight	1080	1820	3225	4250	4580	6800
选购配件 Optional accessories	自动出料装置 Automatic feeding mechanism	*	CL5 4kw 风机 Draught fan	CL7 5.5kw 风机 Draught fan	CL10 7.5kw 风机 Draught fan	CL10 7.5kw 风机 Draught fan
	储料箱 Storage tank	*	LX1000	LX1000	LX1000	LX1000
	除尘装置 Duster	*	LLB-17D 2.2kw 除尘机组	LLB-17D 2.2kw 除尘机组	LLB-25D 3kw 除尘机组	LLB-25D 3kw 除尘机组

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特点 薄膜破碎机 Film crusher

- ✓ 薄膜破碎机型号齐全，不同型号满足不同客户的要求
In case of film crusher with complete model, various models can meet the requirements of different clients.
- ✓ 破碎机有三种投料口，自动牵引进料口，人工投料口，边料进料口
There are three kinds of feeder nose, automatic traction feeding hole, manual feeder nose and boundary material feeding hole.
- ✓ 进料速度控制，采用变频和机械两种进料控制方式
In case of feeding rate control, two kinds of feeding controlling modes of frequency conversion and machinery are adopted.
- ✓ 在线破碎回收节省能源，人工，降低成本
Online broken recycling can save energy, labor and reduce cost.
- ✓ 箱体采用水冷却装置，跟机器提供持续工作时间
Box body adopts water-cooling device and continuous working time provided by machine.
- ✓ 主轴根据客户材质提供专业的主轴结构满足客户要求
The main shaft is furnished according to client's texture, professional main shaft meets client requirement.

PM系列破碎机技术参数 PM Crusher Technical parameters

型号 Model		PM110	PM120	PM130	PM140	PM150	PM175
破碎能力 (kg/h) Broken capacity		50~150	100~250	150~350	200~450	300~600	400~800
主电机功率 Main motor power	(hp)	10	20	30	40	50	75
	(kw)	7.5	15	37	30	37	55
入料腔尺寸 (mm) Size of material storing box		360×265	480×330	660×450	800×450	800×450	800×620
动刀数量 (把) Fixed cutter quantity (pair)		2	2	4	4	4	6
定刀数量 (把) Quantity of moving blade (pair)		6	9	9	9	9	8
筛网孔径 (mm) Mesh size		Φ12	Φ12	Φ12	Φ12	Φ12	Φ12
主料牵引电机 (hp) Traction motor of main ingredient		2	3	3	3	3	3
主料牵引速度 (m/min) Traction speed of main ingredient		0-30	0-30	0-30	0-30	0-30	0-30
次料牵引电机 (hp) Traction motor of Secondary ingredient		2	3	3	3	3	3
次料牵引速度 (m/min) Traction speed of Secondary ingredient		0-165	0-165	0-165	0-165	0-165	0-165
牵引轮直径 (mm) Diameter of traction wheel		Φ120	Φ120	Φ120	Φ120	Φ120	Φ120
配出料装置 Matched material Discharging device		CL3	CL5	CL7	CL7	CL10	CL10
配除尘装置 Matched dust collection device		LLB-10D	LLB-10D	LLB-10D	LLB-10D	LLB-10D	LLB-10D

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特点 Features 除湿干燥机 Dehumidification dryer

- ✓ 零点温度可达-40度，确保塑料彻底干燥
Able to dry plastic completely with dew point temperature up to -40°C;
- ✓ 采用台湾原装进口微电脑板（LED显示屏），性能更稳定，数显强光显示，
Configured with Taiwan-made microcomputer board (LED display) to ensure more stable performance. Digital display with bright light;
- ✓ 夜晚操作更为清晰
improving the visibility for night operation;
- ✓ 采用日本进口的凤巢转轮，除湿能力强，寿命长
Featuring Japan-made honeycomb runner for better dehumidification capacity and longer life cycle;
- ✓ 具有完善的安全保护及异常指示系统
Completed with sophisticated safety protection and error indication system;
- ✓ 超大机型，可配合中央供料系统用
Large-size models, able to be integrated with central feeding system;
- ✓ 有效增加透明制品（如PMMA、PC等）的透光率
Effectively increasing the light transmittance of transparent products (e.g., PMMA, PC.);
- ✓ 增加制品的抗拉强度与耐冲击强度
Improving the tensile strength and impact strength of products;
- ✓ 确保塑料含水量降至0.02%（200ppm）以下
Reduce the tensile strength and impact strength of products;
- ✓ 缩短干燥时间，达到生产需求
Shorten the drying time to meet production needs;



除湿干燥机主要技术参数 Dehumidification Dryer Technical parameters

型号 Model	风量 (m³/hr) Air volume	干燥风车 (cm) Drying Blower	再生风车 (cm) Regenerating Blower	再生电热 (kw) Regenerating electro-thermal power	消耗总电力 (kw) Total Electrical Consumption	风管口径 (mm) Air Duct Size	宽 (mm) width	深 (mm) Deep	高 (mm) high	重量 (kg) weight
CS305B	150	1.5	0.4	5.4	7	2.5"	660	1050	1560	215
CS308B	200	2.2	0.5	5.4	8	2.5"	660	1050	1560	225
CS312B	300	2.4	0.75	7.2	10	3"	700	1255	1745	240
CS318B	400	3.4	1.1	7.2	12	3"	700	1255	1745	280
CS325B	700	5.5	2.2	10	18	4"	900	1380	1935	300
CS335B	1000	9	3	15	27	5"	1300	1550	2145	400

除湿干燥能力表 Dehumidification Drying capacity chart

原料 Type of Raw Material	热风干燥 温度(°C) Drying Temperature	干燥时间 (hr) Drying Time	除湿前 含水率 (%)	除湿后 含水率 (%)	干燥能力 (kg/hr) Drying Capacity					
					CS305B	CS308B	CS312B	CS318B	CS325B	CS335B
ABS	80	2-3	0.3	0.02	35	71	105	180	285	425
CA	75	2-3	1	0.02	30	60	90	150	235	235
CAB	75	2-3	0.8	0.02	30	60	90	150	235	235
IONOMER	90	3-4	0.1	0.04	22	44	66	111	177	265
PE	90	1	0.01	<0.01	106	212	318	531	850	1275
PA/6.6/6.10	75	4-6	1	0.05	19	38	58	96	153	230
PA11	75	4-5	1	0.05	46	23	46	69	184	275
PA12	75	4-5	1	0.05	46	23	46	69	184	275
PBT	130	3-4	0.2	0.02	31	62	93	155	248	372
PC	120	2-3	0.3	0.01	41	83	124	206	330	495
PET	160	4-6	0.2	0.02	25	70	75	125	200	300
PETG	70	3-4	0.2	0.02	27	53	80	133	212	320
PEN	170	5	0.1	0.05	30	60	90	150	240	360
PI	120	2	0.4	0.02	53	105	160	265	425	640
PMMA(Acrylic)	80	3	0.5	0.02	38	77	115	190	310	460
POM(Acrylic)	100	2	0.2	0.02	53	105	160	265	425	640
PP	90	1	0.1	0.02	88	180	265	442	710	1060
PS	80	1	0.1	0.02	88	180	265	442	708	1062
PPS	150	3-4	0.1	0.02	27	53	80	133	212	320
PU	90	2-3	0.3	0.02	38	77	115	190	307	460
PVC	70	1-2	0.1	0.02	44	90	135	220	355	530
SAN(AS)	80	1-2	0.1	0.05	44	90	135	220	355	530

*注Note:

- 除湿干燥能力以全新颗粒料为准，并须定期清理空气滤网(以上数据仅供参考)
The dehumidification and drying capacity is based on new particle materials and regular cleaning of air filter(data indicated above are only for reference).
- 须搭配热风干燥机使用(或相似热风干燥机功能之设备)
A hot dryer(or equivalent equipments) shall be used.

*以上数据如有变更恕不另行通知
The above data are subject to change without prior notice

露点(°C)Dew Point	相对湿度(%)Relative humidity	含水率(%)Water content
20	100	2.307
10	52.40	1.212
0	26.20	0.603
-10	11.20	0.257
-20	4.40	0.103
-30	1.60	0.038
-40	0.60	0.013
-50	0.20	0.004

*注Note:

- 露点定义:空气湿度达到饱和时的温度
Definition of dew point:the temperature when air humidity reaches the saturation rate.
- 露点说明:露点越低表示该露点下空气越干燥
The lower the dew point is, the drier the air is at this dew point.

特点

SHY系列除湿干燥供料机

Shy integrated dehumidification drying and feeding machine

- ✓ 适用本机的设备，可全自动操作
Run automatically.
- ✓ 可在产品生产时不会受气候变化等外界潮湿空气的环境影响
Work without any influence by ambient moisture.
- ✓ 可提高产品的抗拉强度，冲击强度，电器性能等内在质量
Improve the inherent quality of product, such as tensile strength, shock resistance, electrical functions, etc.
- ✓ 可解决产品生产时出现的气泡，银纹，变形等外观质量问题
Solve the problems of bubbles, silver stripes, deformation on the finished products.
- ✓ 露点温度-40℃以下
Minimum dew-point temperature: 40℃.
- ✓ 可二次送料
Able to convey material a second time.



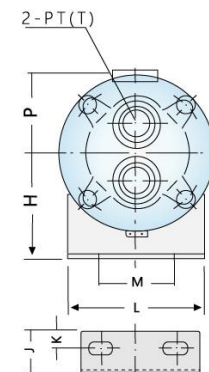
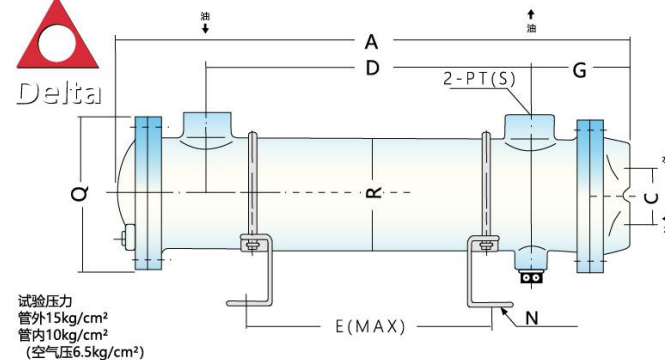
SHY系列除湿干燥供料机主要技术参数

SHY Integrated Dehumidification Drying and Feeding Machine Technical parameters

型号 Model	SHY90	SHY120	SHY160	SHY230	SHY300	SHY450	SHY750
干燥筒容量 (L) Drying silo capacity	90	120	160	230	300	450	750
电热功率 (kw) Electro-thermal Power(kw)	3.9	6.5	6.5	7.2	12	15	18
干燥风量 (m³/h) Drying air volume	80	80	120	150	200	300	400
干燥风车 (kw) Drying Blower	0.75	0.75	0.75	1.5	1.5	2.4	3.4
再生电热 (kw) Regenerating Electro-thermal power	3.9	3.9	3.9	4.5	5.4	7.2	7.2
加料筒容量 (L) Feeding Silo capacity(l)	6	6	6	6	6	12	12
气泵功率 (kw) Gas pump power	0.75	0.75	0.75	1.5	1.5	1.5	1.5
机械尺寸 (mm) Machine size	1800×1105 ×875	1800×1105 ×875	1860×1190 ×875	2220×1425 ×1015	2160×1460 ×1020	2480×1490 ×1255	2610×1745 ×1255
重量 (kg) weight	360	376	395	435	575	600	690
总耗电 (kw) Total electrical consumption	9.3	11.9	11.9	14.7	20.8	26.85	30.1

*以上数据如有变更恕不另行通知
The above data are subject to change without prior notice

新品 铁达油压冷却器

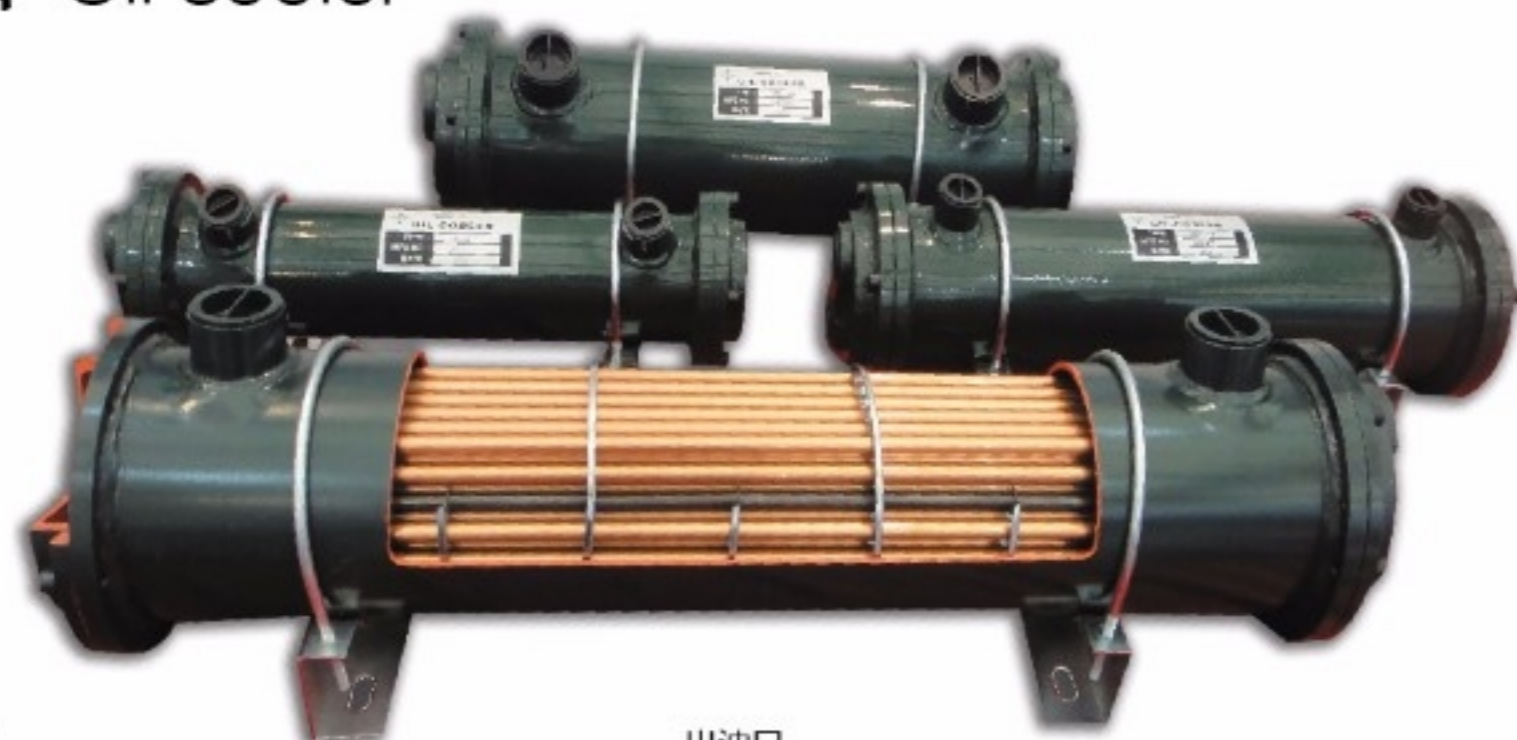


型式编号	A	C	D	E	G	H	J	K	L	M	N	P	Q	R	S (PT*)	T (PT*)	最大流 量L/min	散热面 积m²
DT-303	299		147	117														0.3
304	370		219	189														0.4
305	468	48	291	261	95	79	35	15	128	75	11*20	75	120	89	1	3/4	100	0.5
307	608		435	465														0.7
309	758		578	548														0.9
311	898		722	692														1.1
DT-411	620		425	384														1.1
415	770		568	528														1.5
418	910	70	712	672	100	88	35	15	150	105	11*20	93	140	114	1-1/4	3/4	200	1.8
421	1055		856	816														2.1
424	1220		1020	980														2.4
DT-522	785		558	528														2.2
527	925		702	672														2.7
531	1070	85	846	816	115	95	45	20	175	122	14*22	108	170	139	1-1/2	3/4	300	3.1
535	1235		1010	980														3.5
544	1455		1228	1196														4.4
DT-649	1078		836	756														4.9
657	1242		1000	920														5.7
668	1462	85	1218	1138	125	105	45	20	204	149	14*22	121	196	165	2	2	400	6.8
682	1742		1500	1420														8.2
DT-8107	1140		825	760														10.7
8125	1305		990	1025														12.5
8149	1520	110	1210	1130	130	183	50	25	338	233	14*20	145	270	216	2	1-1/4	600	14.9
8180	1805		1490	1420														18
DT-10169	1100		800	725														16.9
10185	1210		910	835														18.5
10197	1300	173	980	905	150	222	38	15	210	152	14	233	293	267	10KV 2-1/2 法莱	2	800	19.7
10235	1500		1200	1125														23.5
10285	1775		1500	1425														28.5

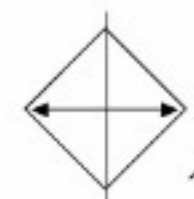
型式编号说明: DT代表高效率滚牙式油压冷却器, 左边开头3,4,5,6,8,10代表冷却器胴体直径同时也代表冷却器所使用的最大流量, 计算方式为这个数字减掉2以后乘100L/min, 其余的数字取一位小数点就是它的散热面积, 如DT-411指滚牙式油压冷却器最大流量200L/min散热面积1.1m²。

单位: mm

新品
New Product
铁达油压冷却器
Oil cooler

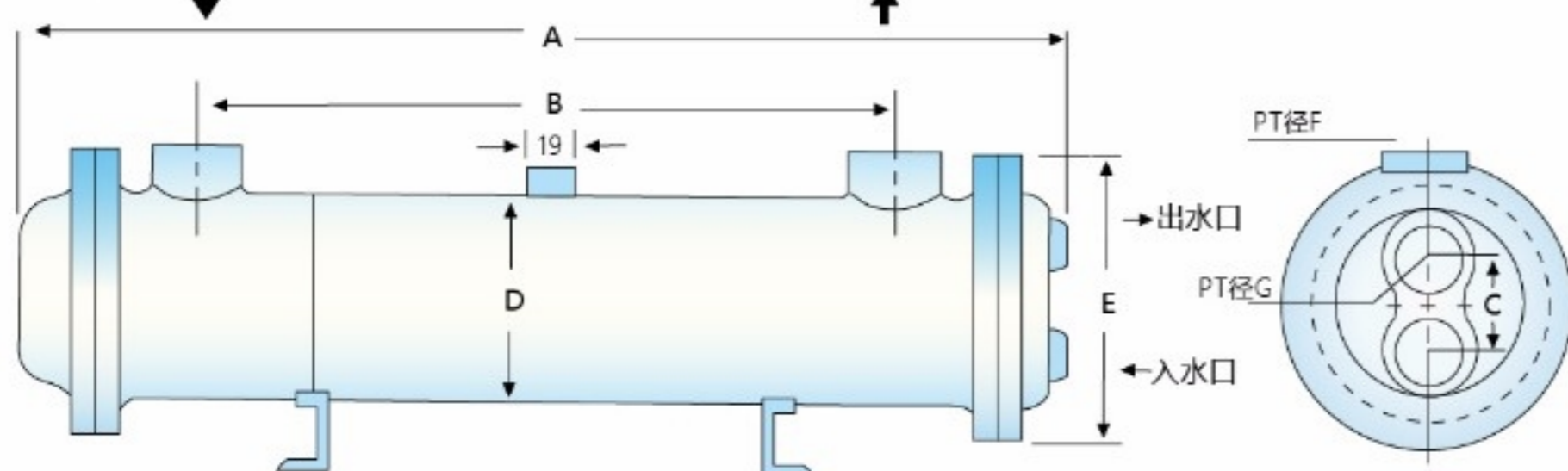


油压表示记号



入油口

出油口



型式编号	A	B	C	D	E	F	G	散热管	散热面积m ²	邮箱容量	重量	泵浦流量	水流量
OR-60	465	295	40	89.1	120	3/4	3/4	22	0.24	60	8	100	50
OR-100	540	370	55	114.3	140	3/4	3/4	26	0.35	100	12	200	100
OR-150	580	375	65	139.8	170	1 1/4	3/4	42	0.6	150	15	300	150
OR-250	800	600	65	139.8	170	1 1/4	3/4	58	1.2	250	22	300	150
OR-350	1205	1000	65	139.8	170	1 1/4	3/4	58	1.9	350	30	300	150
OR-600	1225	970	85	165.2	196	2	1 1/2	58	1.9	600	40	400	200
OR-800	1725	1470	85	165.2	196	2	1 1/2	58	2.8	800	50	400	200
OR-1000	2140	1890	85	165.2	196	2	1 1/2	58	3.5	1000	60	400	200
OR-1200	2520	2270	85	165.2	196	2	1 1/2	58	4.2	1200	70	400	200

我们的客户

our client



简介 Introduction 集中供料系统 Centralized material handling system

集中供料系统是根据气力输送的原理，采用工业程控器的集中控制系统来将塑料原料按信号的先后顺序依次不断地在原料区分别自动输送至各个区域的生产主机内，可连续（24小时/天）实现供料自动化、作业无人化。

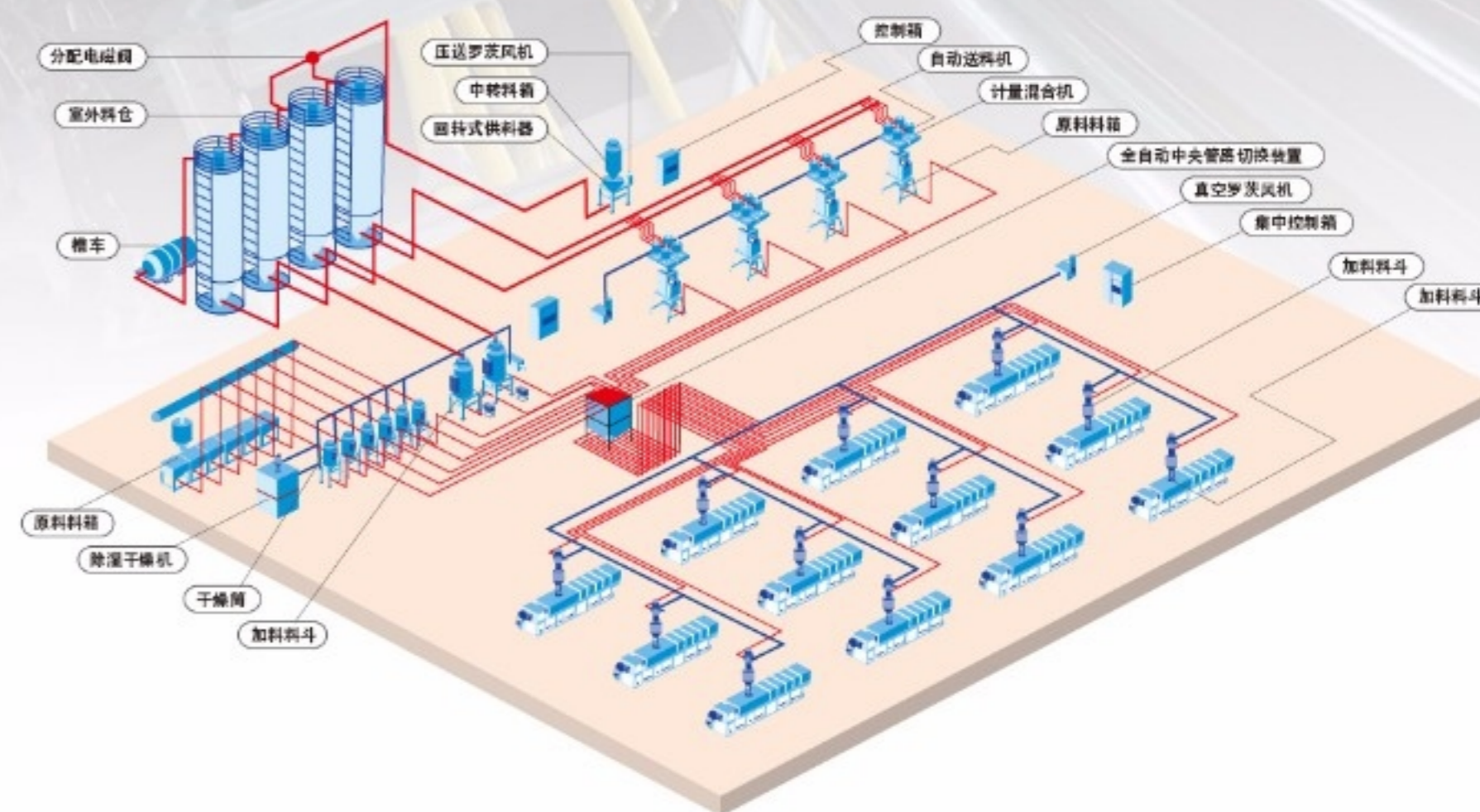
Based on the air conveying theory, with centralized control system, centralized material handling system conveys material automatically and continuously, ordered by the loading signal. This procedure is pre-programmed and stored.

特点 Features 集中供料系统 Centralized material handling system

- ☑ 可节约大量的人力，便于管理，便于控制
A dvantages to adopt the concentrated feeding system, Plenty of manpower can be saved to be convenient for management and control.
- ☑ 可以省场地，并使生产车间整齐划一，更为简洁
The site can be saved, and the manufacturing workshop is enabled to be neat and uniform as well as concise.
- ☑ 供料全自动化作业，符合现代化的生产模式
Full automation feeding operation conforms to modernized production mode.
- ☑ 降低噪音，大量减少粉末飞扬，为环境保护创造良好条件
Reduce the noise and substantially reduce the powder flying so as to create good conditions for environmental protection.

主要型式 Main types

- ☑ 正压输送装置：较适合长距离输送，特殊物料输送（采用罗茨风机）
Positive-pressure conveying device is applicable for long-distance conveying (Roots blower is adopted generally).
- ☑ 负压输送装置：较适合短距离输送，一般物料输送（采用气泵/罗茨风机）
Negative-pressure conveying device is applicable for short-distance conveying (Vacuum air pump is adopted generally).



为了使客户能更直观地了解集中供料系统，我们特地推出了展示系统（中附图）。该系统主要由真空风机组、PLC操空系统、真空集料筒及阀门、管道及配件等及大部分组成。在操控面板上，各个工作区域各部分的运转、供料状态的显示一目了然，各部分的异常可实现声、光自动报警。哪该系统的某个部分产生异常，也不会影响整个系统的正常工作。

In order to enable that the client can intuitively understands the concentrated feeding system, we specially push out the exhibition system (as shown in attached figure). This system is mainly composed by vacuum blower unit, PLC operation and control system , vacuum aggregate barrel, valve, pipeline and fittings as well as large portion. On the operating and controlling panel, the indication for each part of operation and feeding status in each service area is clear at a glance, and the sound and optic automatic alarm can be realized. If certain part in this system produces the abnormality, the normal service of whole system can also not be affected.