



DONGGUAN HEJIN PLASTIC MACHINERY CO.,LTD.

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动态除湿干燥系统
Dynamic dehumidifying dryer system



除湿干燥机
Dehumidifying Dryer



flwmm
Mould Dryer



gum
Crystal machine



冷水机
Water Chiller



wwmi
Weighing mixing



失重混料
Weightless mixing

PET®-FMW*1小时
Dehumidifying drying
only one hour

DONGGUAN HEJIN PLASTIC MACHINERY CO.,LTD.



和津塑机
IDEAL SOLUTION

东莞市和津塑料机械有限公司

Company Profile 公司简介

东莞市和津塑料机械有限公司成立于2009年，是一家针对塑胶制品加工成型的辅助设备生产厂家，主要致力于除湿干燥机、PET边料结晶机、中央供料系统、称重混合、大型室外储仓等产品的研发、生产和销售。

产品主要用于挤出、注塑等塑料加工机械。在聚合物的除湿、处理和输送方面，积累广泛的经验。

领域主要在：挤出、注塑、吹塑、PET注胚、物料输送、中央供料系统、室外大型储料仓等。

涉及行业为：挤出片材、吹塑制品、PET瓶胚、电子、电器、通讯、包装、光学、医疗、汽车零部件、

家庭日用品。

和津是以自主研发为基石，聚集塑胶，化工，工业自动化控制，软件研发，电子硬件研发领域顶尖人才，并取得创作性成果，先后研发制作有了自主知识产权的产品，主要用于注塑机，吹塑机，挤出机及PET回收料的结晶机等塑胶加工机械设备。在聚合物的除湿处理和输送技术，且通过了欧洲CE认证，技术水平在国内同行业中处于领先地位，获得国内诸多工厂认同。产品已从中国走向全球市场，远销到墨西哥，越南，泰国，印尼，韩国，伊朗，埃及，波兰，巴西等国家。



EXPERT
OF DEHUMIDIFIER
DRYER
FOR PLASTICS

塑料烘干、除湿机专家



Dongguan Hejin Plastic Machinery Co., Ltd. was founded in 2009 is a manufacturer of auxiliary equipment for processing of plastics and is dedicated to R&D, production and sales of dehumidification dryer, PET crystallizer Central feeding system, weighing and mixing machine, and large outdoor warehouse, etc.

Its products are mainly used for plastic processing such as extrusion and injection molding, etc., and the company has accumulated rich experience in dehumidification, processing and conveying of polymers.

The application fields of its products mainly include: extrusion, injection molding, blow molding, material conveying, central feeding system, and large outdoor storage silo, etc.,

The following industries are involved: extruded sheet, blow-molded products, PET preform, electronic, electric, communication, packaging, optical, medical, automobile

parts, and household commodities.

With independent R&D as its basis, Hejin has gathered top talents in such fields as plastic, chemical, industrial automatic control, software R&D, and electronic hardware R&D and has also developed and manufactured products with proprietary intellectual property rights that are mainly used in plastic processing machinery including injection molding machine, blow molding machine, extruding machine, and crystallizer of reclaimed PET material, etc. Its polymer dehumidification and conveying technologies have been certified in CE and are leading in the industry at home and acknowledged by many domestic factory. Its products have been sold in the global markets such as Vietnam, Thailand, Indonesia, South Korea, Iran, Egypt, Poland, and Brazil, etc.

Hejin keeps pursuing a perfect team and after-sale services, and it has organized a team of well-trained technical service personnel to provide all-day customized technical services for customers to satisfy all of them.

Production workshop 生产车间

引进先进设备及生产技术，自动化加工生产，迅速提升工作效率，提高产品质量。

Hejin has introduced advanced equipment and production technology, and realized automatic processing to improve production efficiency and product quality.



Product service 产品服务

我公司主要经营自主品牌塑料加工辅助设备，并提供工厂自动化设计，工艺建议，产品安装调试等服务。

- ✓ 除湿干燥系统：除湿干燥机采用SIEMENS控制器及高效风机，控温精度达到 $\pm 0.1^{\circ}\text{C}$ ，采用多组PID参数控制，温度控制采用4-20MA控制的模拟量固态继电器。露点能达到 -65°C 。
- ✓ 称重式计量混合仪：多组份回收料混合，精密度高，轻松解决回收料问题。
- ✓ 机台色母喂料装置。
- ✓ 中央供料及中央除湿系统。
- ✓ 自动化工程设计及施工。

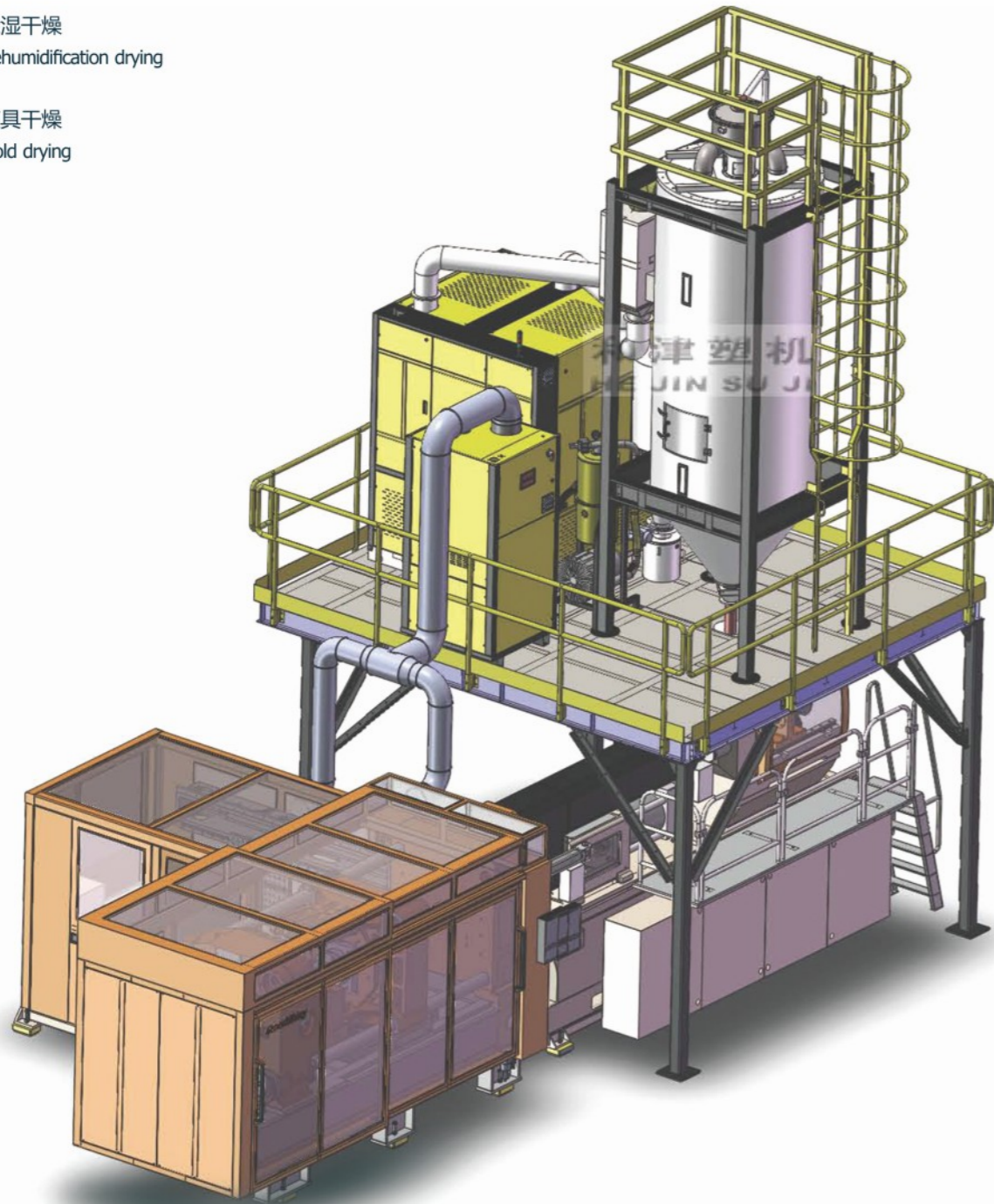
Our company is mainly engaged in auxiliary plastic processing devices in our own brand and also provides such services as plant automation design, process suggestion, product installation and debugging, etc.

- ✓ Dehumidification drying system: the dehumidification dryer uses Siemens controller and high-efficiency fan to reach $\pm 0.1^{\circ}\text{C}$ in temperature control precision and adopts multiple PID control parameters, and 4-20MA analog solid-state controller is used in temperature control. It may control the dew point at -65°C .
- ✓ Weighing mixer: mixing of multi-component reclaimed material in high precision to reclaim material easily.
- ✓ Color masterbatch feeder.
- ✓ Central feeding and dehumidification system.
- ✓ Automatic engineering design and construction.



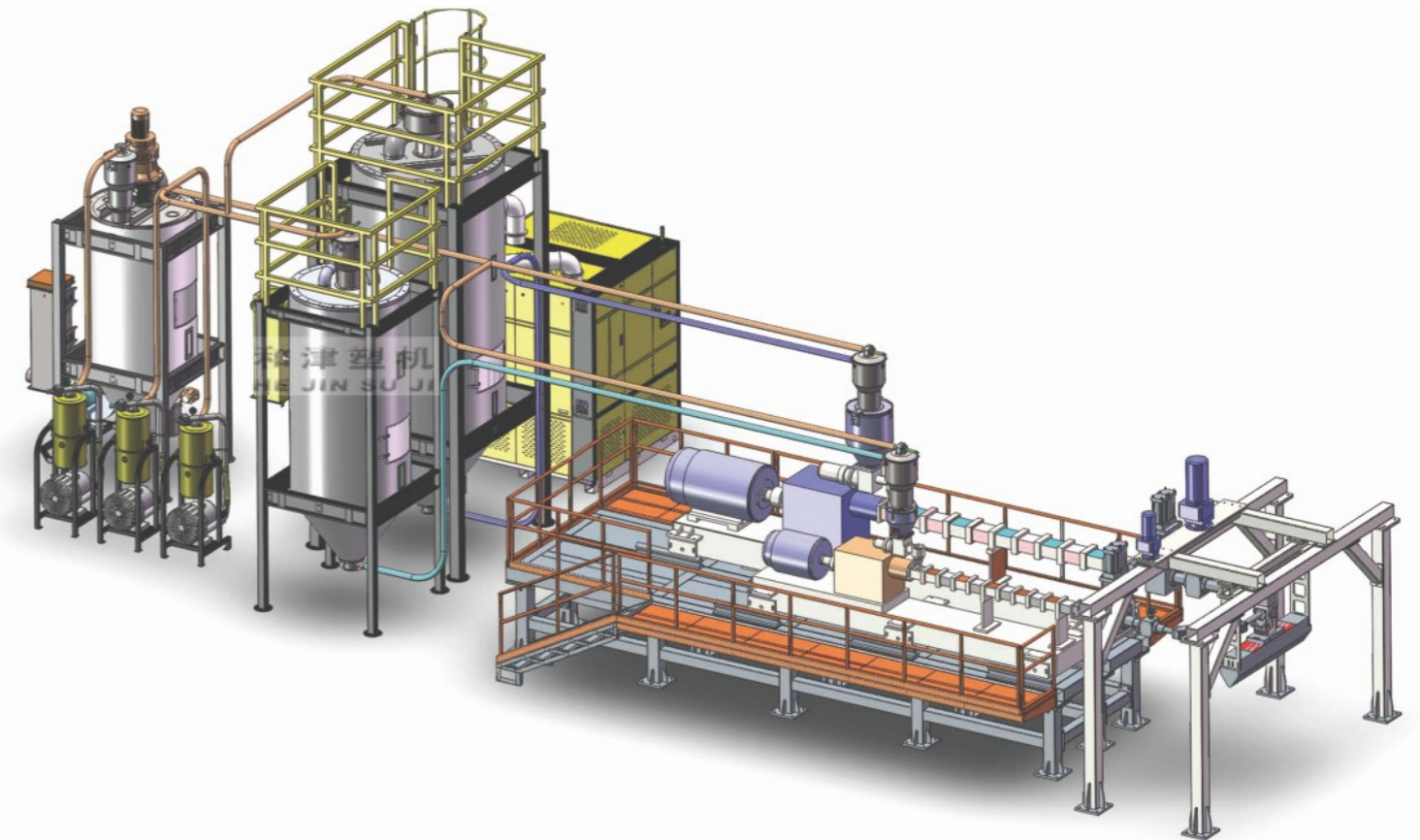
Large food-grade PET preform dehumidifying dryer series 大型食品PET食品级瓶胚除湿干燥系列

- ✓ 支持平台式及地面布局式
Support platform or ground-type layout
- ✓ 除湿干燥
Dehumidification drying
- ✓ 模具干燥
Mold drying



Large PET co-extrusion dehumidifying dryer and conveying series 大型PET共挤除湿输送系列

- ✓ 边料结晶处理
Recycled materials crystallization
- ✓ 百分之百回收
100% recovery
- ✓ 支持多层共挤
Support multi-layer co-extrusion

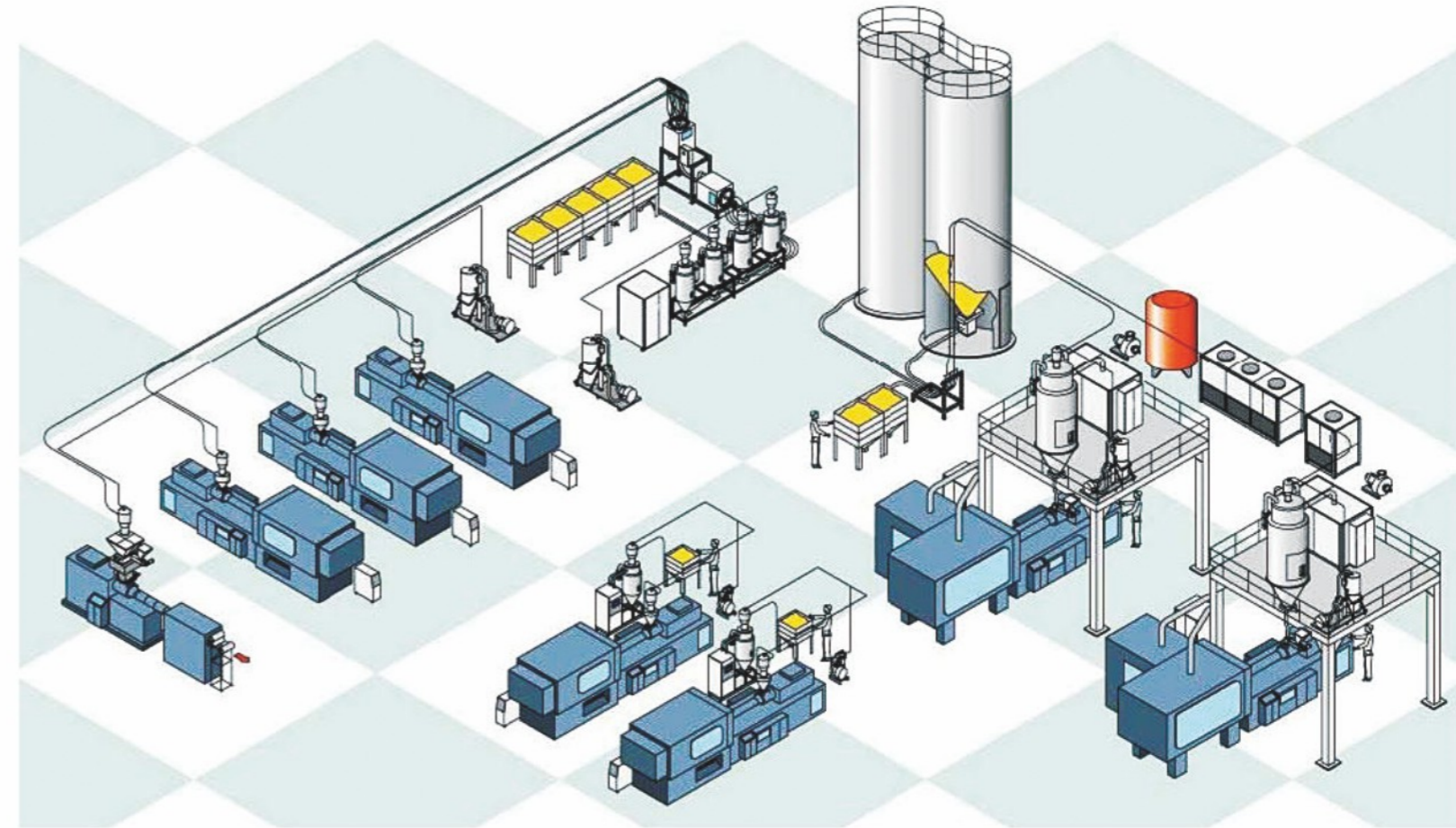


Central feeding system 中央供料系统

- 和津研发的中央供料系统能够灵活迅速处理聚合物原料，控制一套完整的物料加工流程从储存到输送再到加工设备的供料。实现不间断无人化连续成型作业。系统可根据需要改变品种、多颜色材料的组合使用方式，实现原料自动混色工序，多台小型微电脑计量式混合器分别控制各台成型机的着色工艺，计量准确、混合均匀，并可灵活改变颜色，适应产品的多颜色多品种要求。根据不同成型机的生产量，灵活变更供料量。多个供料管道设计，可保证对主料多样化的要求。系统具有多种监控及保护功能，工作安全可靠。
- 中央供料系统是实现原料的集中处理、封闭输送彻底避免车间的噪音、灰尘、热气污染，最大限度地提高产品品质的最佳系统，可以实现一点对多点的远距离集中控制，提高工作效率。原料集中管理，节省能源，降低生产成本，避免厂房噪音、废热及原料污染，使工厂成型作业整齐美观，进而提升公司专业形象。



- The central feeding system developed by Hejin can handle raw polymer quickly and flexibly, in which a complete processing flow is controlled from storage, conveying, to feeding to the processing equipment to realize uninterrupted unmanned continuous molding operation. The system may change material varieties and combination mode of multi-color materials to realize automatic color mixing of the raw materials, and multiple microcomputer-metering mixers are used to control dyeing processes of various molding machines precisely and uniformly and may also change the colors flexibly to meet multi-color and multi-variety requirements of the product. It may also change feeding rates based on production capacities of various molding machines. It is designed to have multiple feeding pipes to meeting diversification requirement of main material. The system has multiple monitoring and protection functions for safe and reliable operation.
- Central feeding system is the optimum one to realize centralized handling and closed conveying of raw material to avoid noise, dust and hot-gas pollution, and it may improve the product quality and realize one-to-more-point long-distance centralized control and improve the work efficiency. Centralized management of raw material may save energy, reduce product cost, avoid noise, waste heat and raw material pollution of the workshop, which makes molding operation more tidy and pleasant and improve professional image of the company.



Dehumidifying Dryer 除湿干燥机

配置有两个分子筛塔，一个分子筛塔产生干燥空气，该塔能够吸收处理塑料所释放的水分。另一分子筛塔再生，两塔交替作业。持续干燥物料。露点在-55℃~-60℃之间，产品干燥能力：100KG/H~1000KG/H，适合各种生产需求。特别适用于PET片材挤出和PET瓶胚生产。

Dehumidification dryer is equipped with 2 molecular sieve towers, of which one produces dry air to absorb moisture released while the plastic is processed, and the other regenerates. The 2 towers operate alternately to keep material dry and dew point between -55°C and -60°C. The machine may reach product drying capacity 100KG/H to 1000KG/H, which may meet various production requirements and is especially fit for PET sheet extrusion and PET preform production.



干燥机选型表
Dryers selection table

原料 Raw material	干燥时间 Drying time	干燥温度 Drying temperature	物理特性 Physical Material		干燥能力KG/H Dry capacity(KG/H)													
			干燥前含水率 Before drying moisture contents	干燥后含水率 After drying moisture contents	HD150	HD200	HD300	HD400	HD500	HD600	HD800	HD1000	HD1200	HD1600	HD2200	HD2600	HD3000	
ABS 挤出	3-4	80-85	<0,2	< 0,015	70	90	135	180	225	270	360	450	550	720	900	1000	1300	
ABS 注塑	2-3	85	<0,2	< 0,020	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
ABS/PC	3	100	<0,1	< 0,020	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
CA	2-3	70	<0,7	< 0,020	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
CAB	2-3	70	<0,6	< 0,020	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
EVA	2-3	90-105	-	-	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
EVOH	2-3	90-105	-	-	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
IM	3	60	<0,2	<0,080	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
LCP	3-4	150	<0,05	<0,01	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PA 11-12	3-5	70-80	0,6-1,2*	0,15-0,02*	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PA 6, 46, 66	4-6	70-80	0,6-1,2*	0,15-0,02*	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PAI	6-8	180	-	<0,02	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PAR	5-6	120	-	<0,02	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PBT	3-4	130-140	<0,15	<0,02	70	90	135	180	225	270	360	450	550	720	900	1000	1300	
PC	2-3	120	<0,3	<0,02	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PE, HDPE	4-10	60	<0,08	<0,04	60	80	120	160	200	240	320	400	480	640	800	960	1200	
PE,HDPE,LDPE	1	85	<0,02	<0,01	90	120	170	235	300	350	470	580	700	940	1160	1400	1700	
PEEK	3-4	150-160	<0,1	<0,05	70	90	135	180	225	270	360	450	550	720	900	1000	1300	
PEI	4-5	150-160	<0,2	<0,01	60	80	120	160	200	240	320	400	480	640	800	960	1200	
PEN	5-6	150-170	-	<0,005	50	65	100	130	160	200	260	330	400	530	660	800	1000	
PES	3-4	150-180	0.35	<0,05	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PET	5-6	160-180	<0,2	<0,003	50	65	100	130	160	200	260	330	400	530	660	800	1000	
PETG	4-5	65	<0,1	<0,01	40	57	85	115	140	170	230	285	340	450	570	685	860	
PI	2-3	120	-	<0,02	70	90	135	180	225	270	360	450	550	720	900	1000	1300	
PMMA	3-4	80	<0,3	<0,02	50	65	100	130	160	200	260	330	400	530	660	800	1000	
POM	2-3	90-100	<0,15	-	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PP	2-3	90	-	<0,02	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PPO	2	100-110	-	<0,01	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PPS	2-3	130-140	<0,03	<0,01	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PS	1	80	<0,05	<0,02	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PSU	3-4	120-130	<0,1	<0,05	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PTT	5-6	130-150	<0,2	<0,005	50	65	100	130	160	200	260	330	400	530	660	800	1000	
PUR	2-3	80-95	-	0.02	55	70	110	150	185	220	300	370	440	590	740	880	1100	
PVC	1	70-80	-	<0,02	90	120	170	94	300	350	470	580	700	940	1160	1400	1700	
SAN	2-3	80	<0,1	<0,02	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
SB	1-2	80	-	<0,02	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
TPE	2-3	110	<0,3	<0,05	70	90	135	180	225	270	360	450	550	720	900	1000	1300	
TPU	2-3	90-100	-	<0,02	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
TPO (POE)	3	70-90	-	-	75	100	150	200	250	300	400	500	600	800	1000	1200	1500	
PC/PBT	3-4	110	-	-	70	90	135	180	225	270	360	450	550	720	900	1000	1300	
PLA	6-8	70-90	-	-	150	200	300	400	500	600	800	1000	1200	1600	2000	2400	3000	

稳定性 Steadiness

- 配置西门子品牌电子元件，安全可靠。
- 采用彩屏PLC触摸控制面板，简单操控。
- 10寸显示器，显示工作温度，设置点及任何警示信息。
- Equipped with Siemens electronic elements to guarantee safety and reliability.
- Using color PLC touch panel to realize easy operation.
- 10-inch display to indicate working temperature, setting point, and all alarm messages.

灵活性 Flexibility

- 专业工程团队，资深程序人员，随时根据生产需求更改配置。
- Professional engineering team and senior programmers to change configuration as required by production.

精确性 Precision

- 带自动微分PID算法的高灵敏的温控模块控制加工温度，确保了高精度。
- Equipped with high-sensitivity temperature control module in automatic differentiation PID algorithm to control processing temperature and guarantee high precision.

节能 Energy saving

- 高效回收余热，提高热能利用率。
- 智能管理原料干燥温度：优化能源利用，防止物料热降解或过分干燥。
- Recover waste heat in high efficiency to improve heat utilization rate.
- Intelligent drying temperature management of raw material: optimize energy utilization to avoid thermal degradation or over-drying.

Dynamic dehumidifying dryer system 动态除湿干燥系统



PET除湿干燥只需1小时
PET dehumidifying drying only one hour

专利号: 201711095430.6



特点 Features

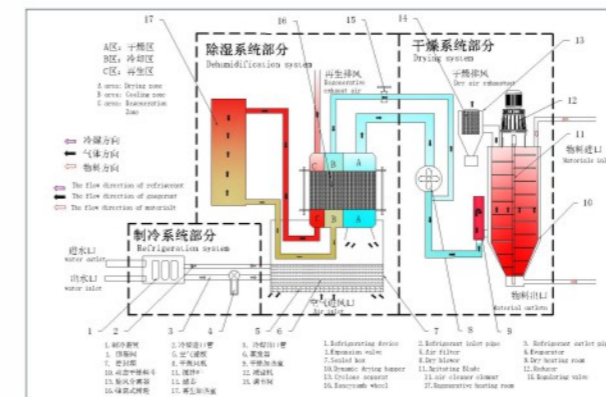
- 适用于PET、TPU、PMMA、PLA、SGP、PS、ABS等所有需要除湿干燥的塑胶物料。
- 对于PET回收料，省略了传统的结晶机，系统装机功率缩小了55%，提高干燥效率的同时，节省了能耗。
- 对于低温干燥物料，在其干燥所需的温度上可提高10°~20°左右的温度，对其进行干燥，节省了干燥时间，提高了干燥效率。
- It is suitable for dehumidification and plastic materials such as PET, TPU, PMMA, PLA, SGP drying, PS and ABS.
- It is especially suitable for PET recycling materials, omitting the crystallizer, reducing the installed power and improving the drying efficiency, while saving energy consumption.
- For low temperature drying materials, the temperature of about 10 degrees to 20 degrees can be increased at the temperature required for drying, which saves the drying time and improves the drying efficiency.

结晶干燥1吨PET耗电量仅需100kw

Crystallization drying 1 ton PET electricity consumption only needs 100kw

原理 Principle

- 引入自然风，使用冷冻压缩处理，达到第一级除湿，使用蜂巢式硅胶转轮，达到第二级除湿，达到最终除湿效果后的干燥风，进入加热箱（加热温度可根据物料工艺要求而设定）。
- 经过两级除湿后的干燥风进入动态干燥机，呈360度由下而上的涡旋式均匀扩散，与此同时干燥罐进行低速搓搅（模拟手工搓洗的形式），增加物料松散程度，使每粒物料能均匀受热，完成动态干燥。
- The first stage dehumidification effect is achieved by introducing the natural wind and using the frozen compression treatment. The use of honeycomb silica gel wheel to achieve the effect of second stage dehumidification, The dry wind after the dehumidification effect comes into the heating box (the heating temperature can be set according to the requirements of the material process).
- Finally enter the dynamic vortex dryer, is 360 degrees from the bottom to the top uniform diffusion, At the same time, the drying box is stirred at low speed (simulated hand rubbing form). Increase the porosity of the material and make the material dry evenly.



PET Crystallizers PET结晶干燥机系列

回收的PET被广泛用于生产聚酯纤维。使有序消费后的PET废物被破碎，切碎，清洗和干燥成薄片，压成包，并供使用。100%RPET薄片（无需熔化过滤和造粒或各种处理）被输送到结晶化料斗在其处理，然后在加热条件下，它取决于其结晶和无定形结构似乎是透明的。简单易操作。

和津结晶机系列目前是在PET挤出市场份额在中国以60%左右，同时机器已经出口到阿联酋，南美，东南亚和俄罗斯。因此，我们的回收措施确保我们的结晶干燥机系列价格合理并保持良好的性能。

At present, recovered PET has been widely used to produce polyester fiber, and the consumed PET wastes are crashed, cut, washed and dried into slices and pressed into packages to be used. 100% of PET slices (without being melted, filtered, pelletized, or processed) are conveyed to the crystallizing hopper to be treated, and then under heating condition, which may be operated easily.

Series Hejin crystallizers have taken up about 60% of the PET extrusion market in China, and they are also exported to United Arab Emirates, South America, Southeast Asia and Russia, so our recovery measures may guarantee reasonable prices and excellent performance of our series crystallizing dryers.



PET 结晶机
PET Crystallizers

PET除湿干燥预结晶系统 PET dehumidification drying pre-crystallization system



30-40
分结晶时间

结晶时间30~40分钟，结晶效果（以PET破碎料发白为标准）与传统型相比较，能耗较低。

The crystallization time is 30~40 minutes, and the crystallization effect (based on the whitening of PET broken material) is higher than the traditional type, and the energy consumption is lower.

定速搅拌，全程无粘结发黄等情况。

Stirring at constant speed, no sticking yellowing in the whole process, etc.

80mm
厚石棉隔热层

不锈钢304镜面内身，配置独立观察窗，80mm厚石棉隔热层。

Stainless steel 304 mirror inner body with independent observation window, 80mm thick asbestos insulation.

配置旋风过滤一体装置，气缸控制内置滤芯，拆卸方便安全，有效隔离粉尘，充分保证物料清洁度。

It is equipped with a cyclone filter integrated device, and the cylinder controls the built-in filter element. It is easy and safe to disassemble, effectively isolates the dust and fully guarantees the cleanliness of the material.

Mould Dryer 模具除露机

模具除露系列能够生成露点低至-10℃的干燥气流，消除模具区域可能形成结露。干燥范围从1200-2400立方米/小时，可以与一台或二台注塑机配套使用。

自带PID算法的微处理器控制，精确控制模具除湿的各个工作温度，配备的高效除湿转轮，将水分紧紧锁住，确保稳定的干燥空气。同步再生提供了稳定的露点，根据需求，可以配置一个出风口的热交换系统，用于控制干燥空气的温度。在所有的操作条件下（包括热带气候），模具除露机总能保证最大的性能和可靠性。极大提高了产品质量标准，极大的降低了生产成本。

采用双面板结构，内外板采用彩钢板，保温厚度: 25mm。外形美观、体积小、移动方便。

The series mould dew removing machines can generate dry air flow in dew point as low as -10°C to eliminate possible dew formation in the mould area. Their drying capacities range from 1200 to 2400m³/hour and can be used with 1 or 2 injection molding machines.

Mould dew removing machine is equipped with micro processor in PID algorithm to control all operating temperatures in mould dew removing, and is also equipped with high-efficiency dehumidifying runner to lock moisture tightly and guarantee steady dry air. The synchronizing regeneration unit provides steady dew point, and if it is required, it may be equipped with one heat exchanger at the air outlet to control temperature of the dry air. The mould dew removing machine can always guarantee maximum performance and reliability under any operating condition (including tropical climate), which may improve the product quality and reduce the production cost greatly.

Mould dew removing machine is in double-panel structure, and coated steel sheet in insulation thickness of 25mm is used as both external and internal panels. It is pleasing in appearance and small in volume and may be moved easily.



技术参数 Parameters

型号 Model	干燥风量 Dryer air flow	露点 Dew point	干燥温度 Drying Temperature	风机 Fan	再生电热 Renewable Electricity	冷却水接口 Cooling water Connection
	M ³ /H	℃	℃	KW	KW	INCH
RMD1200	1200	-10	20~40	1.1	9	1.5
RMD1800	1800	-10	20~40	2.2	12	2
RMD2400	2400	-10	20~40	3	12	2

Water Chiller 冷水机

冷水机种类 Water cooler types

风冷机、水冷机箱、水冷螺杆式。

Air cooler, water cooling box, and water cooling screw.



广泛应用于机械、电力、冶金、化工等工业部门和医疗、商业、旅游等行业。主要功能有制冷、加热、空气循环、除湿和空气过滤等。噪音低，占地面积小。独立完成制冷、供暖和送风功能，无需配置冷、热水机组及空调末端设备，节省投资。

Water cooler is widely used in such industries as machinery, electricity, metallurgy, chemical, medical, commerce, and travel, etc., and its main functions include refrigeration, heating, air circulation, dehumidification, and air filtration, etc. The water cooler needs only a small floor area and can realize refrigeration, heating, and air supply functions without cold water unit, hot water unit or air conditioning terminal, which may reduce the investment.

Drying hopperr 保温干燥料斗

用于存放需干燥的物料，内腔光滑，独特的风道设计，最大程度提高能源的利用率，内沉锥结构，保证了干燥的稳定效果。规格在100-10000L之间，能满足不同产量的需求。

Heat-reserved drying hopper is used to store dry material. It is equipped with smooth internal cavity and unique air duct that may increase energy utilization ratio to the maximum, and its countersunk conic structure may guarantee steady drying effect. The heat-reserved drying hoppers are in specs from 100 to 10000L and can meet various outputs.

特点 Features

- ✓ 纯不锈钢制作，无物料污染。
Made of stainless steel to avoid pollution.
- ✓ 加厚型80MM厚石棉隔热层和80MM厚隔热层的观察门，极大的锁住热量，节省能源。
80mm-thick asbestos insulation and observation door equipped with 80mm-thick thermal insulation, which may lock the heat to large extent and save the energy.
- ✓ 单独机架，配置气动阀，方便使用。
Independent rack, equipped with pneumatic valve for easy operation.



Large outdoor storage silo 室外大型储料仓

大型室外储仓，广泛用于大产量公司的物料管理；能大大提高场地的利用率，节省存放成本，方便生产现场管理，便于物料统计。节省人力物力。规格在60-300立方米。

Large outdoor storage silo is widely used for material management in large-output enterprises. It may increase site utilization ratio greatly, save storage cost, manpower and material resources, and be easy for site management and statistics of materials. The outdoor storage silos are in capacity from 60 to 300m³.

特点 Features

- ✓ 纯不锈钢制作，无物料污染。
Made of stainless steel to avoid pollution.
- ✓ 独立爬梯，维护简单。可选配连接料位或称重式传感仪。
Independent ladder that may be maintained easily, able to be connected to material level meter or weighting sensor.



Feeder series 上料机系列

HF上料机系列配置高效真空泵，动力范围在3至11千瓦，输送能力高达1200千克/小时，最大输送距离100米。HF系列配置筒式过滤器，结构紧密，过滤器将气旋效应和尘埃分离完美结合，在落满灰尘的物料输送中尤其适用。

HF series feeders are equipped with high-efficiency vacuum pumps in power ranging from 3 to 11KW and may reach 1200kg/hour in conveying capacity and 100m in maximum conveying distance. HF series feeders are equipped with cartridge filter in compact structure that may combine cyclone effect and dust separation perfectly, and they may especially be fit for conveying situation full of dust.

特点 Features

- ✓ 免维护电机，滤芯清洁方便。
Maintenance-free motor, and easily-cleaned filter element.
- ✓ 噪音等级低于78 DB(A)。
Noise level lower than 78DB(A).
- ✓ 垂直设计方案，占地面积小。
Installed vertically and occupying smaller area.

Large high-temperature weighing mixer 大型高温称重混料

WD称重系列称重式混料机拥有多种配置，最多可计量称重混配8种颗粒物料，搭配最佳的料斗容量和计量设备。精准度准，可以与注塑和吹膜以及挤出设备相结合使用，产量涵盖50-1200KG/H。

WD series weighing mixer has multiple configurations and may weigh and mix as many as 8 kinds of granular materials, and it is equipped with hopper and metering device in optimum capacities and may be used in combination with injection molding, blow molding, and extruding devices. The weighing mixer products are in capacity ranging from 50 to 1200kg/h.

特点 Features

- ✓ 采用西门子称重模块，精确，可靠，7寸触摸彩屏，友好的操作界面。
Siemens weighing module that is precise and reliable, 7-inch touch color panel, and friendly operation interface.
- ✓ 每一批次保证高精度配料和可重复性：配置螺杆式喂料系统，功能强大且快速的控制系统保证其准确度在 $\pm 0.3\%$ 。
High precision and repeatability may be guaranteed for each lot: equipped with screw feeder system with powerful function and quick control system to keep the precision within $\pm 0.3\%$.
- ✓ 各组份原料完美的混合：新的半圆形搅拌机轴的特别设计使大量的粒料得到全面的混合。
Perfect mixture of different-component materials: new semi-circle mixer and specially-design shaft to mix a large amount of granular materials completely.



Volumetric proportional mixer 体积式比例搅拌

设备可配置2-4个独立的计量分配站，可以是不同容量并加以配置以便满足不断变化的生产需求。每个计量分配站可以配置不同容量，从10-500千克/小时。大口径设计，可以适用于PET回收料混合，精确配置各等级的边料。大功率搅拌电机，确保各组分混料得到全面的混合。

Volumetric proportional mixer may be equipped with 2-4 independent metering distributors that are in different capacities and configurations to meet varying production demands. Each metering distributor may be in different capacities from 10 to 500kg/h. The volumetric proportional mixer is in large-diameter design that may be used to mix recovered PET material and configure offcut materials in various grades. The large-power mixer motor may guarantee full mixture of different-component materials.



Thermal-insulated transition hopper 保温过渡料斗

用于存放干燥后的物料，安装在成型机台入料口处，其内腔光滑，物料下落顺畅，规格在15-100L之间。能满足不同产量的需求。

It is installed at material inlet of molding machine and used to store dried material, and its internal cavity is smooth for easy falling of material. It is in capacity from 15 to 100L and may meet various output requirements.

特点 Features

- ✓ 纯不锈钢制作，无物料污染。
Made of stainless steel to avoid material pollution.
- ✓ 加厚型40MM厚石棉隔热层，极大地锁住热量，延长保温时间。
40mm-thick asbestos insulation that may lock the heat to large extent and save energy.
- ✓ 灵活的过渡座，方便使用。
Flexible transition seat for easy operation.



Weightless mixing system 失重混料系统

失重式喂料机适合范围包括塑料颗粒, 粉末, 碳酸钙, 滑石粉, 树脂膜粉粒品, 面粉, 淀粉等, 其中针对不同的原料, 我们设计了两种不同的秤体, 即粉料秤 (解决了流动性很差的喂料计量加料问题), 粒料秤 (解决了任何可能发生的架桥问题), 很好的解决了现有生产过程中出现的问题。

The applicable scope of the weight loss feeding machine including plastic particle, powder, calcium carbonate, talcum powder, Resin membrane powder, flour, starch, etc. we designed two types of scales for different raw material, one of that is the scales of powder (solved the problem of the poor mobility in the feed, metering and charging), another one is the scales of particle (solved the problem of any could be happen in bridging), it is great to solve the problem in the process of production.

特点 Features

- ✓ 本失重式喂料机机械原件如螺杆等容易分解, 组装简单, 清扫容易。
Original of this machine is easy to disassemble like the screw and so on, to assemble is easy too and clean.
- ✓ 下料性能稳定, 精度高, 输送能力可选范围大。
The property of this machine is stable to cutting, high precision, the range we choose to convey is wide.
- ✓ 失重式喂料机控制系统灵活性强: 本失重秤控制系统可实现手动、自动控制给料及补料处理, 可实现手动和自动的转换。
The control system of the weight loss feeding machine have great flexibility: this system can feeding and supplementation by manual control or automatic control, it is also can switch between the manual and automatic.



Color masterbatch mixer 色母混料装置

CVD系列计量式色母混合机适用于新料、次料、色母或添加剂等的自动比例混合。该系列机型使用混合式步进电机，依据预选设定的比例混合，透过全数位微电脑控制系统设定的条件自动转换成转速直接驱动精密螺杆挤出原料，其误差值不高于 $\pm 1\%$ 。此混合机可以与各类成型机信号做连接进而同步运转，保证成型产品性能一致性。螺杆直径区分为12、14、16mm三种，可演变出六种机型提供0.1~32kg/hr的不同输出量供客户选择。另有双色色母机，可以客户需求搭配任意两台色母机合并使用。

CVD-series stoichiometric color masterbatch mixer is used for automatic proportional mixing of fresh material, defective material, color masterbatch, or additive, etc. This series of mixers use hybrid stepper motor to mix in preset proportion and convert to rotate speed automatically based on the condition set through full-digit micro-computer control system to drive the precision screw rod directly to extrude the raw material with error not higher than $\pm 1\%$. This mixer may be connected signals of various kinds of molding machines and then operate synchronously with them to guarantee consistence of the molded products. The screw rods are in 3 types based on their diameters: 12mm, 14mm and 16mm, which may form 6 models in output from 0.1 to 32kg/hr for customer to select. We may also provide bi-color dosers, and customer may select any 2 to work together.

特点 Features

- ✓ 使用高精度混合式步进电机,无需保养。
Using high-precision maintenance-free hybrid stepping motor.
- ✓ 具有配方存取功能,可快速调用启动机器。
Recipe access function to call and start the machine quickly.
- ✓ 采用微电脑式控制,智能化精确计算。
Micro-computer control, and intelligent accurate calculation.
- ✓ 可同时满足外部信号输入的要求。
Meeting external signal input requirement at the same time.
- ✓ 焊接采用镀铬处理,经久耐用。
Weld is chromed for durable service.



Material receiver 收料器

真空收料器常规分为五个规格：5L, 10L, 15L, 30L, 50L（可定制）涵盖大部分的生产使用需求。重力平衡式的密封设计。简单有效，减少故障率，收料器可独立运行，也可配置在中央物料输送系统中。是物料输送不可缺少的一份子。

Vacuum material collector is in 5 capacities: 5L, 10L, 15L, 30L and 50L, which may meet most production requirements. Its seal is in gravitational equilibrium design, which is easy and effective and may reduce failures. The material collector may operate independently or be used as an integral part in the central feeding system.

特点 Features

- ✓ 全新设计，轻松打开盖子，无需拆开电缆和真空管道，方便清理。
It is in a new design, and its cover may be opened easily for cleaning without disconnecting the power cable or vacuum tube.
- ✓ 重力式平衡设计，完好的密封性能。
Gravitational equilibrium design, and good sealing performance.
- ✓ 高效磁性传感器，工作寿命长，小巧可靠。
High-efficiency magnetic sensor that is small, reliable and has a long service life.

Silo 料仓

物料暂存仓，便于物料输送，智能化管理物料，是中央供料系统里重要部件之一。

Material storage bin, easy material handling intelligent management of materials It`s one of the important components in the central feeding system.

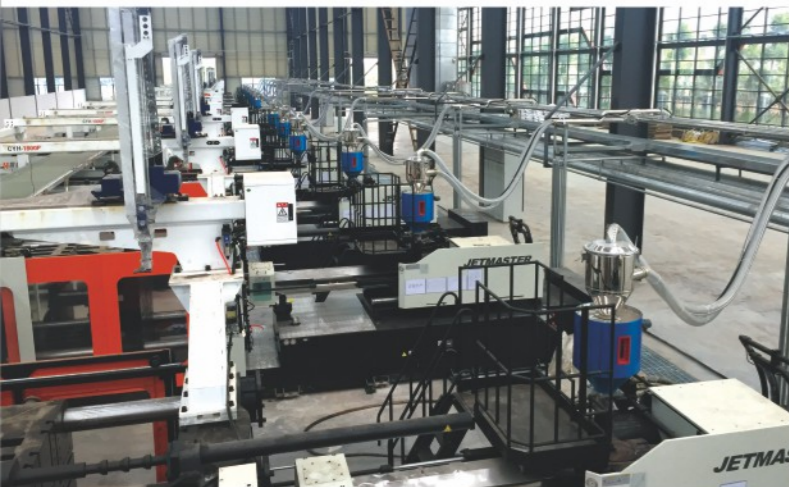
特点 Features

- ✓ 采用不锈钢镜面面板制作，容量可定制。
Made of stainless steel mirror panel, the capacity can be customized.
- ✓ 有低料位声光报警装置，直观料位视窗。
Low level sound and light alarm device, intuitive material level window.
- ✓ 装有清管阀，根据进料量和收料器大小调节抽料时间和清管时间。
A pigging valve is installed to adjust the pumping time and pigging time according to the feed amount and the size of the receiver.



Customer case 客户案例

- ✓ 我们实现的是将一种先进技术转化为先进生产力的过程，更是将技术最大化体现的过程。
We have realized a process transforming advance technology to advanced productivity and also a process reflecting the technology to the maximum.
- ✓ 我们将坚定不移地沿着以技术为核心的道路前进。
We will keep advancing along the road cored in technology.



Hejin Some partners 和津部分合作伙伴



恒瑞塑料机械有限公司
Hengrui Plastic Machinery Co.,LTD.

金纬机械集团公司
Jwell Machinery Group Co.,LTD.

嘉倍德塑胶机械有限公司
Jobbetter Plastic Machinery Co.,LTD.

杰伟机械制造有限公司
Jwell Machinery Co.,LTD.

安富塑胶机械有限公司
Anfu Plastic Machinery Co.,LTD.

新泉塑料机械有限公司
Cheer Plastic Machinery Co.,LTD.

天佳塑料机械有限公司
Tianjia Plastic Machinery Co.,LTD.

达诚机械有限公司
Desicner Machinery Co.,LTD.

海精科机械有限公司
Hjktech Machinery Co.,LTD.

泓泰机械有限公司
Hongtai Machinery Co.,LTD.

明发机械有限公司
Mingfa Machinery Co.,LTD.

美国科利来集团 (南京) 分公司
Clear Lam Group Co.,LTD. (Nanjing) Branch

日本拓普勒集团 (中国) 分公司
Topla Plastic (china) Co.,LTD.

日本拓普勒集团 (印尼) 分公司
Topla Plastic (indonesia) Co.,LTD.

韩国纳诺集团 (东莞) 分公司
Nano Chem-tech Group Co.,LTD.(Dongguan) Branch

韩国纳诺集团 (苏州) 分公司
Nano Chem-tech Group Co.,LTD.(Suzhou) Branch

台湾富士康科技集团公司
Taiwan Foxconn Group Co.,LTD.

新协力包装制品 (深圳) 有限公司
New Hip Lik Packaging (shenzhen) Co.,LTD.

浙江佳友生物科技 (集团) 公司
Zhejiang Jiayou Biotech (group) Co.,LTD.

卓高泰 (广州) 包装制品有限公司
Tragot (guangzhou) Packaging Co.,LTD.

香港鸿达塑胶集团公司
Hongkong Hongda Plastic & Rubber Group Company

隆诚国际集团
Lung Shing International (group) Co.,LTD.

惠州溢民塑胶有限公司
Huizhou Yimin Plastic & Rubber Co.,LTD.

(排名不分先后 In alphabetical order)