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专注塑料成形自动化精密机器一站式供应

Focus on one-stop supply of plastic forming automatic precision machines

广东富克兰精密机器股份有限公司

Guangdong FUKEL Precision Machinery Co., Ltd.



公司简介Company Profile



在过去几年的生产，管理和探索中，富克兰建立了自己的质量管理体系，全面的服务体系，完整的产品线，强大的制造能力以及出色的产品质量控制体系。这些优势使我们受到市场和客户的认可。我公司以“节能，优质，高效，精密”为质量目标，以“先进技术，优良品质，用户至上”为经营宗旨。在2008年，我们通过了国际质量管理体系认证 CE 认证，获得了许多产品外观和先进技术专利，还获得了高科技多项荣誉称号。

With the experiences improving on production, management and exploration, Fukel has built the quality management system comprehensive service system, strong manufacturing capability, and excellent product quality control system. These advantages enable us to be recognized by the market and customers. Our company take “energy saving high quality, high efficiency, high precision” as quality objective and use “advanced technology excellent quality, Customer first service” as our business purpose. In 2008, we have passed the international quality management system certification and CE certification. Fukel obtained patents of many product appearance and advanced technology. Also won many honors of high technology titles.



广东富克兰精密机器股份有限公司总部深圳富克兰精密机器有限公司于2003年在深圳成立，是一家专业生产制造注塑成型周边设备的企业，近年来随着公司业务量不断增长，2018年公司为了扩大规模搬迁至中国荷花名镇—东莞桥头镇，现有20000多平方米现代化标准生产基地，我们一直致力于塑胶成型自动化周边设备的研发与创新工作，公司拥有数控剪、数控折、激光切割等领先专业设备，研发、制造、销售等各界精英。在一大批具有国际水准的高级工程技术人员的带领下，研发生产除湿干燥系列、送料输送系列、混合拌料系列、冷热交换系列、粉碎回收系列近200种规格产品。公司秉承着以满足客户为基准，自助创新为原动力，达到一站式服务商为目的，不断开拓创新，研发推出国际先进高科技产品。

Guangdong Fukel Precision Machinery Co., Ltd, the subsidiary of Shenzhen Fukel Precision Machinery Co., Ltd, was established in Shenzhen in 2003 as the professional manufacturer of plastic forming automatic precision machines. In recent years, with the continuous growth of business volume, we moved to the famous lotus town in China—Qiaotou Town, Dongguan in 2018. With more than 20,000 square meters of modern standard production base, we are committed to the research and development and innovation work of plastic molding automation peripheral equipments. CNC shears CNC folding, laser cutting etc are our leading professional equipments. Meanwhile we have integrated elites of research and development, manufacturing and sales etc. Under the leadership of a group of senior engineering and technical personnel with international standards, we have R&D and production of dehumidification and drying series, feeding and conveying series, mixed mixing series, cold and heat exchange series, crushing and recycling series etc approx 200 kinds of products. We adheres to the principle of satisfying customers, and self-service innovation as the original motivation, to achieve the goal of one-stop service provider. We continue to create, develop and launch international advanced high-tech products.



富克兰将始终为客户量身定制的产品实施客户价值创造的概念，以满足不同客户的需求，并不断为客户提供解决方案和技术支持。热忱欢迎您的光临，开拓交流的疆界。我们愿成为您理想的合作伙伴！

FUKEL will always implement the concept of customer value creation for customized products to satisfy different customer's demand. Meanwhile we continue to provide customers machines solutions and technical support. Warmly welcome your visiting! Open up the boundaries of communication. We aim to be your best partner!

公司资质Company Qualification



合作品牌Cooperation brand



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直结式真空填料机

Direct Type Vacuum Autoloader



说明：

FAL系列直结式真空填料机采用欧化设计，不锈钢料斗能确保原料不受污染；表面烤漆处理，外形美观大方；消音马达罩，降低电机运转时产生的噪音；安装方便，微电脑自动工作模式装置，适合新料的输送。

FAL series direct type vacuum autoloader machine adopts European design, stainless steel hopper can ensure the contamination of raw materials, finish with baking varnish, beautiful appearance, silencer motor cover, reduce the noise caused by motor running, easy to install, Microcomputer automatic working mode device, suitable for new materials delivery.

FAL-330

本机特点：

- 操作简单,维修方便；
- 不锈钢料斗；
- 马达保护装置；
- 可选配蜂鸣器为缺料报警；
- 自动逆洗装置、布质滤网为标准配置；

Features:

- Easy to operate and easy to maintain.
- Stainless steel hopper.
- Motor protection device.
- Optional buzzer for shortage alarm.
- Automatic backwashing device and cloth filter are standard.





FAL-300G



FAL-300GE



FAL-400G

规格表
Specification

机型 Model	FAL-300G	FAL-300GE	FAL-330	FAL-400G
风机形式 Fan Type	碳刷式 Carbon brush			感应式 Inductive
马达功率 (KW) Motor Power	1.2KW (1Φ)	1.2KW (1Φ)	1.2KW (1Φ)	0.75KW (3Φ)
输送能力 (kg/hr) Conveying capacity	300kg/h	300kg/h	300kg/h	250kg/h
料斗容量 (L) Hopper capacity	7.5L	7.5L	6L	7.5L
输料管内径 (Φ) Conveying Pipe Inside Diameter	Φ38mm	Φ38mm	Φ38mm	Φ38mm
高 H (mm) Height	550	660	595	775
宽 W (mm) Width	420	390	355	460
长 L (mm) Length	370	340	345	460
重量 (kg) Weight	15	19	18	30

* 产品规格若有变更,恕不另行通知!

Product specifications are subject to change without notice!

注: ①附玻璃管料斗及光电开关和逆止阀, 机型后加注“E”;
②输送能力测试条件为: 比重约 0.65, 直径为3-5mm塑胶原料颗粒, 以垂直高度4m, 水准距离1m测试标准所得;
③使用压缩空气: 4-6kgf/cm²;
④机器电压规格除FAL-400G为3相(Φ) 380V, 50Hz,其余机种皆为1相(Φ) 230V, 50Hz;

Note: ①Attached glass tube hopper,photoelectric switch and check valve, on the back of machine marked "E".
②Conveying Capacity Testing Conditions: specific gravity about 0.65, diameter of 3-5mm plastic raw material particles vertical height 4m,horizontal distance 1m.
③Using compressed air: 4-6kgf/cm².
④Machine voltage are 1 (Φ) 230V, 50Hz except model FAL-400G is 3 (Φ) 380V, 50Hz.

分离式真空填料机

Split Type Vacuum Autoloader

FUKEL

说明:

FAL-700G/ 800G/900G 适用于长距离输送原料, 主机与料斗分离的设计可满足客户使用需求。各机型均采用不锈钢料斗, 确保原料不受污染, 配有高效高压风机, 并装有马达过载保护及缺料自动报警, 可延长机器使用寿命并维持使用效率兼具轻便耐用、吸力强、安装简单、操作容易等特性。

FAL-700G/800G/900G is suitable for long distance transportation of raw materials, and the design of separating the main machine from the hopper can meet the needs of customers. All models adopt stainless steel hopper to ensure the raw materials are free from pollution, equipped with high-efficiency high-pressure fan, and equipped with motor overload protection and automatic alarm for material shortage, which can extend the service life of the machine and maintain the service efficiency with the characteristics of light, durable, strong suction, simple installation, easy operation and so on.

FAL-800G

本机特点:

- 主机与料斗分离设计、安全简便;
- 不锈钢料斗, 确保原料不受污染;
- 微电脑控制, 操作简单, 控制精准并有多项报警指示灯;
- 马达保护装置, 可增长使用寿命;
- 缺料警报提示, 可让操作人员及时排除;
- 独立滤清器装置, 方便清除积尘;
- 真空料斗直接安装于成型机料斗上;
- 电眼料斗可直接安装于成型机入料口;
- 可选配旋风集尘器, 减少滤清器清洁次数, 适用于粉碎料输送;
- 可选配两料比例阀, 用于新料与粉碎料混合使用或粉碎料立即回收;



Features:

- The main unit and the hopper are designed separately, safe and easy.
- Stainless steel hopper to ensure that raw materials are not contaminated.
- Microcomputer control, simple operation, precise control, and multiple alarm indicators.
- Motor protection device can increase the service life.
- Missing material alarm prompt, can let the operator eliminate in time.
- Independent filter device for easy removal of dust.
- The vacuum hopper is directly mounted on the hopper of the molding machine.
- The electric eye hopper can be directly installed at the inlet of the molding machine.
- Optional cyclone dust collector can reduce the cleaning time of the filterNumber, suitable for crushing material transportation.
- Optional two-component proportional valve for mixing new materials with crushed materials or for immediate recovery of crushed materials.



规格表
Specification

机型 Model		FAL-700G	FAL-800G	FAL-800G1	FAL-800G2	FAL-900G2
主机 Host	马达形式 Motor Type	碳刷式 Carbon bru	感应式 Inductive			
	马达功率(KW) Motor Power	1.2 (1Φ)	0.75 (3Φ)	1.1 (3Φ)	1.5 (3Φ)	1.5 (3Φ)
	尺寸(mm) H*W*L dimensions	590x300x4390	660x370x420	660x370x420	660x370x420	680x375x740
	净重(kg) Weight	25	40	50	70	56
料斗 Hopper	搭配型号 Match model	FMH-7.5L/FVH-7.5L	FMH-7.5L/FVH-7.5L	FMH-7.5L/FVH-7.5L	FMH-7.5L/FVH-7.5L	FMH-7.5L+FVH-7.5L
	储料容量(L) Storage capacity	7.5	7.5	7.5	7.5	7.5
	尺寸高*宽*长(mm) H*W*L dimensions	450x260x300	450x260x300	450x260x300	450x260x300	450x260x300 585x260x300
输料管内径(mm) Feed pipe diameter		38	38	38	38	38
输送能力(kg/hr) Conveying capacity		300	200	300	450	700

* 产品规格若有变更,恕不另行通知!
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注: ①“2”表示采用2HP风机;
②“G”代表主机采用分离式;
③“FMH”表示真空料斗“FVH”表示电眼料斗;
④输送能力测试条件为:垂直高度4m;
⑤机器电压规格除FAL-700G为1相(Φ) 230V, 50Hz,其余机种皆为3相(Φ) 380V, 50Hz;

Note: ①"2" means using a 2HP fan.
②"G" means the host is separated.
③"FMH" means that the vacuum hopper "FVH" represents an electric eye hopper.
④Conveying Capacity Testing Conditions:Vertical height 4m.
⑤Machine voltage are 3 (Φ) 400V, 50Hz except model FAL-700G is 1 (Φ) 230V, 50Hz.

欧化分离式真空填料机

Europeanize Split Type Vacuum Autoloader



说明:

FAL-HP系列欧化分离式真空填料机是在分离式填料机基础上,开发设计一款功能强大、外形美观、安装操作简便的填料机。各机型采用不锈钢料斗,确保原料不受污染;采用高压风机为动力核心,具有不易损坏,吸力大,使用寿命长等优点。另提供经济型机种供客户选择。FAL - HP系列真空填料机,它具备标准分离式产品的一切优点,另有双段风机可供选配;根据在用户端的不同使用情形,可选择装卸不同过滤器的料桶,适用于全新料及含粉量30%以下的物料输送作业。

FAL-HP series europeanize split type vacuum autoloader is developed and designed on the basis of the separation type auto loader. It has powerful functions, beautiful appearance and easy installation & operation. All models use stainless steel hopper to ensure that the raw materials are not contaminated; It adopted high-pressure fan as the motive core, which has the advantages of not easy to damage absorption, and long service life. FUKEL also provides economical models for customers to choose from. FAL-HP series vacuum auto loader has all the advantages of standard separate auto loader, and there is also a two-stage machine for optional; according to the different using conditions at the end user, you can choose to load and unload different filter barrels, It is suitable for conveying new materials and materials with powder content less than 30%.

FAL-2HP

本机特点:

- 微处理器记忆体使用 EEPROM, 不会丢失设定资料,可永久保存;
- 下吸风式设计,滤清器下搭配旋风挡板与分离式的集尘桶,有效的减轻滤清器的负荷;
- 可直接配置欧化两料比例阀使用;
- 料斗可选配自动清洗装置, 附布质滤网, 机型后加注“C”;
- FAL-5HP以上机型, 可额外选购储压罐, 机型后面加注“A”;
- 提供标准型FMH-7.5L/12L/24L和欧化集料斗FHR-7.5U/12U/24U供选配 (FAL-XF吸粉系列除外);
- FAL - HP系列共有两种过滤器装置, 布袋式与板式, 适于 10% 及 30% 含粉量的输送作业, 可根据客户需求做搭配;
- FAL-HP系列主机配备单、双段风机 (3.5HP以上), 可供客户自选;
- FAL-HP系列当输送的原料当中, 粉碎料占30%以上时, 可选配200目的不锈钢滤网+滤布;
- 改为欧规安全回路机型时, 机型后加注“CE”;

Features:

- The microprocessor memory uses EEPROM and will not lose the setting data and can be saved permanently.
- The lower suction type design is equipped with a cyclone baffle and a separate dust collecting bucket under the filter to effectively reduce the load of the filter.
- It can be directly configured with the European two-component proportional valve valve body.
- The hopper can be equipped with an automatic cleaning device, with a cloth filter. After the model, add “C”.
- For FAL-5HP and above models, an additional pressure storage tank can be purchased, and "A" is added to the back of the model.
- Provide standard FMH-7.5L / 12L / 24L and Europeanized collecting hopper FHR-7.5U / 12U / 24U for optional (except FAL-XF powder suction series).
- The FAL-HP series has two kinds of filter devices, cloth bag type and plate type, suitable for 10% and 30% powder content transportation operations, and can be matched according to customer needs.
- FAL-HP series mainframes are equipped with single and double-stage fans (above 3.5HP), which can be used by customers only.
- FAL-HP series When the crushed material accounts for more than 30% of the conveyed raw materials, 200 mesh stainless steel filter + filter cloth can be selected.
- When it is changed to the European standard safety circuit model, "CE" shall be added after the model.





FAL-1HP~5HP

FAL-7.5HP~15HP

机型 Model		FAL-1HP	FAL-1.5HP	FAL-2HP	FAL-3HP	FAL-5HP	FAL-7.5HP	FAL-10HP	FAL-15HP
主机 Host	功率 (KW) Power	0.75 (3Φ)	1.1 (3Φ)	1.5 (3Φ)	2.2 (3Φ)	3.7 (3Φ)	5.5 (3Φ)	7.5 (3Φ)	11 (3Φ)
	H (mm)	1205	1205	1205	1380	1380	1830	1830	1830
	W (mm)	350	350	350	490	490	585	585	585
	L (mm)	530	530	530	570	570	675	675	675
	净重 (kg) Weight	46	55	65	73	74	140	160	190
料斗 Hopper	搭配型号 Match model	FMH-7.5Lx1	FMH-7.5Lx1	FMH-7.5Lx1	FMH-12Lx1	FMH-25Lx1	FMH-36Lx1	FMH-50Lx1	FMH-50Lx1
	储料容量 (L) Storage capacity	7.5	7.5	7.5	12	25	36	50	100
	H (mm)	420	420	420	470	720	963	963	963
	W (mm)	285	285	285	315	315	315	315	315
	L (mm)	360	360	360	400	400	400	400	400
	净重 (kg) Weight	6	6	6	8	13	15	20	20
输料管内径 (mm) Feed pipe diameter		38	38	38	50	50	50	50	63
吸风管内径 (mm) Suction pipe diameter		38	38	38	50	50	63	63	63
输送能力 (kg/hr) Conveying capacity		200	300	450	600	750	1000	1200	1500

* 产品规格若有变更，恕不另行通知！
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注： ①“D”表示二段； ②附玻璃管及光电开关和逆止阀，机型后加注“E”； ③料斗内部做抛光处理，机型后加注“P”；
④可选配ACF-1旋风集器； ⑤FAL-5HP以上机型装破真空阀以保护电机； ⑥噪音值75dB；
⑦输送能力测试条件为：比重约0.65，直径为3~5mm塑胶原料颗粒，以垂直高度4m，水准距离5m为测试标准所得；
⑧机器电压规格为：3相(Φ) 380V, 50Hz;

Note: ① "D" indicates double stage. ② With glass tube, photoelectric switch and check valve, add "E" after the model . ③ Polishing inside the hopper, add "P" after the model. ④ Optional ACF-1 cyclone collector. ⑤FAL-5HP and above models are equipped with broken vacuum valves to protect the motor. ⑥ Noise value is 75dB. ⑦ Conveying capacity test conditions specific gravity is about 0.65, plastic raw material particles with a diameter of 3 ~ 5mm, the vertical height is 4m, and the horizontal distance is 5m.
⑧The voltage specification of the machine is: 3Φ, 380V, 50Hz.

真空吸粉机

Vacuum Powder Autoloader



说明：

FAL-HP-XF系列真空吸粉机适用于塑料色粉、化工粉末、电木粉、颜料等无粘性粉料、粉料掺杂料的输送，可输送1000目以下的粉末。采用脉冲压缩空气反吹清理装置，保证吸粉顺畅。可避免输送过程中粉尘飞扬，实现车间无尘化生产，不锈钢料斗确保原料不受污染，清料容易，微电脑按键控制，操作简单。

FAL-HP-XF series vacuum powder autoloader machine is suitable for the conveyance of non-sticky powders, powder dopants such as plastic toners, chemical powders, bakelite powders, pigments, etc., and can transport powders below 1000 mesh. The pulse compressed air back blowing cleaning device is adopted to ensure smooth suction of powder. It can avoid dust flying during transportation and realize dustfree production in the workshop. The stainless steel hopper ensures that the raw materials are not contaminated, the cleaning is easy, the microcomputer key control, and the operation is simple.

FAL-3HP-XF

本机特点：

- 采用2000目的过滤布袋有效的防止粉尘外漏；
- 双重过滤系统 保证电机的使用寿命；
- 自动高压脉冲曝气清洗，防止粉尘引起的堵塞；
- 振动排料系统可防止粉末搭桥，使排料更顺畅；
- 吸风吸料加装截气阀避免在曝气中粉尘外扬；

Features:

- Use 2000 mesh filter cloth bag to effectively prevent dust leakage.
- Double filtering system to ensure the service life of the motor.
- Automatic high-pressure pulse aeration cleaning to prevent blockage caused by dust.
- Vibration discharge system can prevent powder from bridging and make discharge more smoothly.
- The suction suction material is equipped with a cut-off valve to avoid dust exhalation in aeration





规格表
Specification

机型 Model	主机 Host				料斗 Hopper			输料管径 (mm) Feed pipe diameter	吸风管径 (mm) Suction pipe diameter	输送能力 (kg/hr) Conveying capacity
	功率 (KW) Power	规格 standard	外形尺寸 高*宽*长 (H x W x L mm)	净重 (kg) Weight	储料斗 容量(L) Storage capacity	外形尺寸 高*宽*长 (H x W x L mm)	净重 (kg) Weight			
FAL-2HP-XF	1.5	3Φ	1000 x 400 x 500	54	24	690 x 315 x 400	16	50	50	200
FAL-3HP-XF	2.2	3Φ	1380 x 490 x 590	73	24	690 x 315 x 400	16	50	50	450
FAL-5HP-XF	3.7	3Φ	1380 x 490 x 590	85	24	690 x 315 x 400	16	50	50	600
FAL-7.5HP-XF	5.5	3Φ	1830 x 585 x 675	156	36	930 x 315 x 400	20	50	50	900
FAL-10HP-XF	7.5	3Φ	1830 x 585 x 675	178	36	930 x 315 x 400	20	50	50	1100
FAL15HP-XF	11	3Φ	2370 x 690 x 974	236	48	975 x 350 x 485	26	63	63	1500

* 产品规格若有变更,恕不另行通知!
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注: ① “2” 表示采用2HP风机;
② “XF” 代表吸粉吸料机简称;
③ 输送能力测试条件为: 200目粉末, 垂直高度4m;
④ 机器电压规格为3相(Φ) 380V, 50Hz;

Note: ① "2" means use 2HP fan.
② "XF" stands for Powder Absorber.
③ Conveying capacity test conditions: 200 mesh powder, vertical height 4m.
④ Machine voltage specifications are 3Φ 380V, 50Hz.

水式模具控温机

Water Mold Temperature Machine

FUKEL

说明:

FTM-W系列水式模具控温机主要应用于模具的加热与恒温。此外,还可适用于其他有相同需求的领域。此系列模温机以模具回水直接冷却的方式,再由泵浦加压经过电热管高温加热后送至模具,来达到加热与恒温的要求。其优化的设计使加热温度可达 120℃。采用精密 P.I.D 温度控制,可确保高性能的稳定温度控制,其温差可控制在±1℃。

FTM-W series water mold temperature machine is mainly used for heating the mold at constant temperature. In addition, it can also be applied to other areas with the same needs. This series of mold temperature machine adopts the way of direct cooling of the mold return water, and then pressurized by the pump to heat the electric tube to send it to the mold to achieve the requirements of heating and constant temperature. Its optimized design enables heating temperatures up to 120 ° C. The precision P.I.D temperature system is used to ensure high-performance stable temperature control, and the temperature difference can be controlled at ± 1 ° C.

FTM-6KW-GW (高配型)

本机特点:

- 采用全数位P.I.D分段式控温系统,在任何操作状态下均可维持稳定的模具温度,控温精度达±1℃;
- 多项安全装置,当发生故障时,本机可自动侦测到异常并有指示灯显示异常情况;
- 直接冷却,冷却效果佳,自动直接补水装置,可快速降温至设定温度;
- 电热管及内部主管道均采用不锈钢制造;
- 外形设计美观大方,便于拆卸,维修方便;

Features:

- Adopts all digital P.I.D segmented temperature control system, which can maintain stable mold temperature under any operation state, and the temperature control accuracy is ± 1 ° C.
- Multiple safety devices, when a failure occurs, the machine can automatically detect the abnormality, and the indicator light shows the abnormal situation.
- Direct cooling, good cooling effect, automatic direct water supply device, can quickly cool down to temperature setting.
- Electric heating pipe and internal main pipe are made of stainless steel.
- The appearance design is beautiful and generous, easy to disassemble and convenient to maintain.





油式模具控温机

Oil Mold Temperature Machine



说明：

FTM-O系列油式模具控温机有标准型和高温型两种，主要应用于模具加热与恒温。此外，还可适用于其他有相同需求的领域。此系列模温机采用模具回油经冷却器间接冷却的方式，再由泵浦加压经过电热管高温加热后送至模具，来达到加热与恒温的要求。精密P.I.D电脑控制器，可确保温度稳定控制。

FTM-O series oil mold temperature machine has two types: standard and high temperature. It is mainly used for mold heating and constant temperature. In addition, it can also be applied to other areas with the same needs. This series of mold temperature machine adopts the method of indirect cooling of the mold return oil through the cooler, and then pressurized by the pump to pass After heating, it is sent to the mold to meet the requirements of heating and constant temperature. Precision P.I.D computer controller ensures stable temperature control.

水式经济型/高配型参数表

Water Type Economical/High Configuration Parameter Table

机型 Model	最高温度 Max.temp	电热 (kw) Heater	泵浦功率 (kw) Pump	泵浦最大 流量 (L/min) Max.Pump Flow	泵浦最大 压力 (bar) Max.Pump Pressure	加热桶数量 Number of heating barrels	加热桶 容量 (L) Heating barrel capacity	冷却方式 Cooling method	模具接头 (inch) Mould Coupling	外形尺寸 (mm) Dimensions(H x W x L)	净重 (kg) Weight
FTM-6KW-GW	120°C	6	0.37	35	3	1	3.0	直接 冷却	3/8" (2进2出)	650x300x800	65
FTM-6KW-W	110°C	6	0.37	35	3	1	3.0		3/8" (2进2出)	650x300x800	50
FTM-9KW-GW	120°C	9	0.75	50	3.5	1	3.5		3/8" (4进4出)	650x300x800	75
FTM-9KW-W	110°C	9	0.37	35	3	1	3.0		3/8" (4进4出)	650x300x800	60
FTM-12KW-GW	120°C	12	1.5	110	4.5	1	4		3/8" (4进4出)	650x300x800	85
FTM-12KW-W	110°C	12	0.75	50	3.5	1	4		3/8" (4进4出)	650x300x800	70
FTM-18KW-GW	120°C	9x2	1.5	250	2.5	2	7	Direct cooling	1" (1x2)	900x300x800	110
FTM-18KW-W	110°C	9x2	1.1	150	1.5	2	7		1" (1x2)	900x300x800	95
FTM-24KW-GW	120°C	12x2	2.2	320	3.0	2	9		1.5" (1x2)	900x300x800	165
FTM-24KW-W	110°C	12x2	1.5	210	2.0	2	9		1.5" (1x2)	900x300x800	150

水式高温型参数表

Water type high temperature parameter table

机型 Model	最高 温度 Max.temp	电热 (kw) Heater	泵浦功率 (kw) Pump	泵浦最大 流量 (L/min) Max.Pump Flow	泵浦最大 压力 (bar) Max.Pump Pressure	加热桶数量 Number of heating barrels	加热桶 容量 (L) Heating barrel capacity	冷却桶 容量 (L) Cooling barrel capacity	冷却方式 Cooling method	模具接头 (inch) Mould Coupling	外形尺寸 (mm) Dimensions(H x W x L)	净重 (kg) Weight
FTM-9KW-PW	180°C	9	1.1	42	5.0	1	3.4	2	直接 冷却	3/8" (4进4出)	765x320x765	85
FTM-12KW-PW	180°C	12	1.5	74	6.2	1	3.4	4.6	Direct cooling	3/8" (4进4出)	795x340x820	95

* 产品规格若有变更,恕不另行通知!

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注： ①为确保加热温度的稳定性,冷却水压力不可低于2kg/cm，不可高于5kg/cm;
②泵浦测试条件：50Hz电源，20°C 纯净水； ③“W”代表水式、“G”代表高配、“PW”代表高温水式;

Note:① In order to ensure the stability of the heating temperature, the cooling water pressure must not be lower than 2kg / cm and not higher than 5kg / cm.
②Pump test conditions: 50Hz power supply, 20 °C pure water.
③ "W" stands for water type, "G" stands for high configuration, and "PW" stands for high temperature water type.

FTM-9KW-GO (高配型)

本机特点：

- 采用全数位P.I.D分段式控温系统,在任何操作状态下均可维持稳定的模具温度,控温精度达±1°C;
- 采用高效率高温泵浦,压力大,稳定性强;
- 多项安全装置,当发生故障时,本机可自动侦测到异常;并有指示灯显示异常情况;
- 电热管及内部主管道均采用不锈钢制造;
- FTM标准型加热温度可达200°C;
- 先进的回路设计,在油路故障时,不会发生高温爆裂;
- 外形设计美观大方,便于拆卸,维修方便;

Features:

- Adopts all digital P.I.D segmented temperature control system, which can maintain stable mold temperature under any operation state, and the temperature control accuracy is ± 1 °C.
- High efficiency and high temperature pump, high pressure and high stability.
- Multiple safety devices, when a failure occurs, the machine can automatically detect the abnormality, and the indicator light shows the abnormal situation.
- Electric heating pipe and internal main pipe are made of stainless steel.
- FTM standard heating temperature can reach 200 °C.
- Advanced circuit design, in the oil fault, no high temperature burst.
- Beautiful appearance design, easy to disassemble, easy to maintain.





风冷式工业冷水机

Air Cooled Chiller

FUKEL

说明：

FIC-A系列风冷式工业冷水机采用单级蒸汽压缩回路，并具有压缩机过载保护、泵浦过载保护、逆相缺相警示、防止结冰保护、高低压力保护等装置，机器性能稳定，寿命长。可快速降温，温控稳定，满足客户要求。此系列产品主要应用冷热交换的原理进行工作。适用于现代工业中的冷却领域，且不受环境温度的影响，是不可或缺的配置设备。

FIC-A series air cooled chiller adopts single-stage steam compression circuit, and has compressor overload protection, pump overload protection, reverse phase loss warning, anti-icing protection, high and low pressure protection, etc. The machine has stable performance and long life. long. It can quickly cool down, stable temperature control, and meet customer requirements. This series of products mainly apply the principle of cold and heat exchange to work. It is applicable to the cooling field in modern industry and is not affected by the ambient temperature. It is an indispensable configuration device.

油式经济型/高配型参数表
Oil type economical / High Configuration Parameter Table

机型 Model	最高 温度 Max.temp	电热 (kw) Heater	泵浦功率 (kw) Pump	泵浦最大 流量 (L/min) Max.Pump Flow	泵浦最大 压力 (bar) Max.Pump Pressure	加热桶数量 Number of heating barrels	加热桶 容量 (L)	油箱 容量 (L)	冷却方式 Cooling method	模具接头 (inch) Mould Coupling	外形尺寸 (mm) Dimensions(H x W x L)	净重 (kg) Weight
FTM-6KW-GO	200℃	6	0.37	35	3	1	3	6	间接 冷却 Indirect cooling	3/8" (2进2出)	650x300x800	65
FTM-6KW-O	180℃	6	0.37	35	3	1	3	6		3/8" (2进2出)	630x300x700	55
FTM-9KW-GO	200℃	9	0.75	50	3.8	1	3	6		3/8" (4进4出)	650x300x800	75
FTM-9KW-O	180℃	9	0.37	35	3	1	3	6		3/8" (4进4出)	630x300x700	65
FTM-12KW-GO	200℃	12	1.5	110	4.5	1	4	6		3/8" (4进4出)	650x300x800	90
FTM-12KW-O	180℃	12	0.75	50	3.5	1	4	6		3/8" (4进4出)	630x300x700	75
FTM-18KW-GO	200℃	18	1.5	250	2.5	2	6	20		1" (1x2)	900x300*800	115
FTM-18KW-O	180℃	18	1.1	150	1.5	2	6	20		1" (1x2)	900x300*800	100
FTM-24KW-GO	200℃	24	2.2	320	2.8	2	8	20		1.5" (1x2)	900x300*800	150
FTM-24KW-O	180℃	24	1.5	210	2	2	8	20		1.5" (1x2)	900x300*800	140

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注：①为确保加热温度的稳定性, 冷却水压力不可低于2kg/cm，不可高于5kg/cm;
②泵浦测试条件: 50Hz电源, 20℃ 纯净水;
③“O”代表油式、“G”代表高配;

Note: ① In order to ensure the stability of the heating temperature, the cooling water pressure must not be lower than 2kg / cm and not higher than 5kg / cm.
② Pump test conditions: 50Hz power, 20 °C pure water.
③ "O" stands for oil type, "G" stands for high configuration.

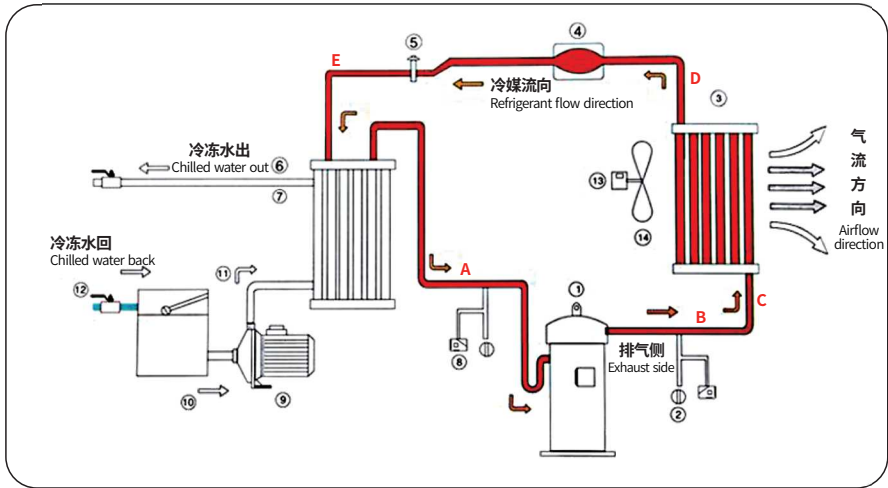
FIC-10A

- 本机特点：**
- 冷却温度范围3℃-35℃；
 - 不锈钢保温水箱, 防结冰保护装置；
 - 制冷剂采用R22, 制冷效果好；
 - 冷冻回路采用高、低压开关控制；
 - 压缩机及泵浦均有过载保护；
 - 采用微电脑控制系统, 精度高；
 - 操作方便, 结构简单, 易于维修；
 - 中压泵浦为标准配置, 另可选用高压泵浦；
 - 可选增加配置水箱液位计；
 - 采用日本松下或日本大金压缩机；
 - FIC-A风冷式采用套片式冷凝器, 传热效果佳, 散热快, 无需提供冷却水；
 - 改为欧规安全回路机型时, 机型后加注“CE”；

- Features:**
- Cooling temperature range: 3 °C -35 °C.
 - Stainless steel heat preservation water tank, anti-icing protection device.
 - The refrigerant is R22, which has good refrigeration effect.
 - The refrigeration circuit is controlled by high and low voltage switches.
 - The compressor and pump have overload protection.
 - Microcomputer control system, high precision.
 - Easy to operate, simple structure, easy to maintain.
 - Medium pressure pumps are standard, and high pressure pumps are optional.
 - Optional increase tank water level gauge.
 - US Copeland or Daikin compressor.
 - The FIC-A air-cooled type uses a jacketed condenser, which has good heat transfer effect and fast heat dissipation without the need to provide cooling water.
 - When it is changed to the European standard safety circuit model, "CE" shall be added after the model.



FIC-A风冷式系统流程示意图
Working Principle of Air-cooled Models



符号 symbol	品名 Name
①	压缩机 Compressor
②	高压控制器 High voltage controller
③	冷凝器 Condenser
④	干燥过滤器 Dry filter
⑤	膨胀阀 Expansion valve
⑥	防冻开关 Anti-freeze switch
⑦	蒸发器 Evaporator
⑧	低压控制器 Low-voltage controller
⑨	水泵 Water pump
⑩	水箱 Water tank
⑪	浮球开关 Ball float switch
⑫	球心阀 Ball float valve
⑬	电机 Motor
⑭	风扇 Fan

FIC-A系列风冷式冷水机主要由压缩机、冷凝器、热力膨胀阀、蒸发器四大部件组成，采用单级蒸汽压缩制冷系统，利用制冷剂的液相相互转换，吸收和释放热量的原理，从而达到制冷的效果。

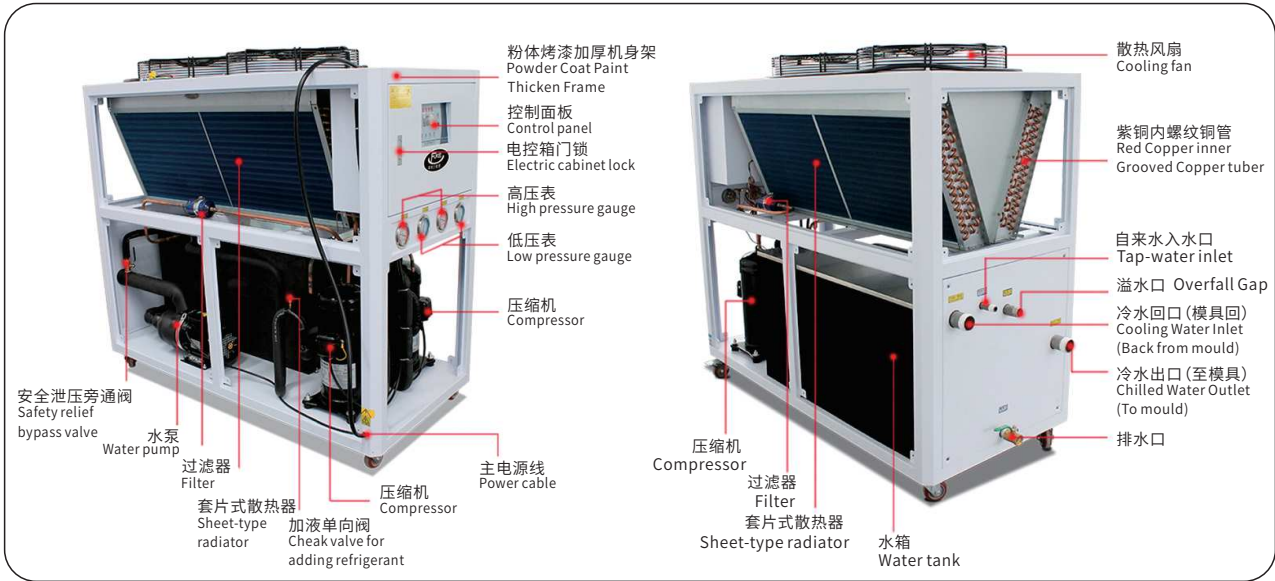
FIC-A 系列开机后，压缩机①开始工作，制冷剂在压缩机的压缩作用下变成高压高温气体，往A-B的方向循环；在 B-C-D 过程高温高压的制冷剂气体通过冷凝器③，与空气发生热交换，由气态转变为液态，同时被空气带走热量；D-E过程，液态的高压制冷剂通过热力膨胀阀⑤，压力下降，部分制冷剂由液态转换为气态，此时制冷剂通过蒸发器⑦，在蒸发器内与热媒介发生交换，冷却冷冻水到所需的温度满足设定要求；经蒸发器后的气体制冷剂循环回到压缩机，完成一次制冷循环。

FIC-A series air-cooled chiller is mainly composed of four major components: compressor, condenser, thermal expansion valve and evaporator. It adopts a single-stage vapor compression refrigeration system and uses the gas phase of the refrigerant. The principle of mutual conversion, absorption and release of heat, so as to achieve the effect of cooling.

After the FIC-A series is started, the compressor ① starts to work, and the refrigerant becomes high-pressure high-temperature gas under the compression of the compressor, and circulates in the direction of AB; during the BCD process, the high-temperature and high-pressure refrigerant gas passes through the condenser ③, and air When heat exchange occurs, the gaseous state changes to the liquid state, and at the same time the heat is taken away by the air; in the DE process, the liquid high-pressure refrigerant passes through the thermal expansion valve ⑤, the pressure drops, and some of the refrigerant changes from the liquid state to the gaseous state. At this time, the refrigerant passes through the evaporator. A: Exchange with the heat medium in the evaporator, cool the chilled water to the required temperature, and meet the set requirements, the gas refrigerant after the evaporator is circulated back to the compressor to complete a refrigeration cycle.

FIC-A风冷式结构示意图

FIC-A air-cooled structure diagram



风冷式工业冷水机参数表 (一)
Parameter list of Air-cooled water chiller (1)



型号 Model			FIC-1A	FIC-2A	FIC-3A	FIC-4A	FIC-5A	FIC-6A
参数 Parameters								
制冷量 Cooling capacity	KW	50HZ	2.94	5.67	8.39	10.90	13.95	16.90
		60HZ	3.44	6.63	9.82	12.75	16.32	19.77
	Kcal/h	50HZ	2528	5701	7216	9347	11990	14560
		60HZ	2958	5701	8442	10698	14028	17000
总输入功率 Total input		KW	1.31	2.6	3.6	4.5	5.5	6.6
量大运行电流 Maximum Running Current		A	8	15.8	8.8	10.9	13.4	16
电源 Power supply			1相(Φ) ~220V 50HZ		3相(Φ) ~380V/415V 50HZ			
制冷剂 Refrigerant	名称 Name		R22					
	充注量(kg) Charge		0.8	1.8	2.7	3.5	4.3	5
	控制方式 Control typ		毛细管 Capillary Tube					
压缩机 compressor	类型 Type		全封闭回转式 Hermetic Rotary		全封闭涡旋式或活塞式 Hermetic scroll or piston			
	功率(kw) Motor		0.75	1.5	2.25	3	3.75	4.5
冷却风量 Air Flow	m³/h		1000	2000	3000	5000	5000	6000
冷冻水 Chilled water	水量(m³/h) Flow		0.51	0.97	1.44	1.87	2.40	2.91
	水箱 (m³) Tank		0.028	0.038	0.038	0.065	0.065	0.11
	进出水管径 In/out pipe size		G1"	G1"	G1"	G1"	G1"	G1"
水泵 Pump	功率 KW		0.37	0.37	0.37	0.37	0.37/0.75	0.75
	压力 KPA		180	180	205	205	205	205
外形尺寸 Size	长 L mm		800	850	1180	1300	1300	1300
	宽 W mm		470	520	530	630	630	630
	高 H mm		830	830	1180	1220	1220	1220
重量 (kg) Weight			80	110	170	200	220	250

* 产品规格若有变更,恕不另行通知!

Product specifications are subject to change without notice!

注: ①冷量依据冰水入口温度12℃, 出口温度7℃; 冷却风入口温度35℃; 出口温度55℃得出;

Note: ① The cooling capacity is based on ice water inlet temperature of 12 °C and outlet temperature of 7 °C, cooling air inlet temperature of 35 °C, outlet temperature of 55 °C.

风冷式工业冷水机参数表(二)
Parameter list of Air-cooled water chiller(2)

型号 Model			FIC-8A	FIC-10A	FIC-12A	FIC-15A	FIC-20A	FIC-30A
参数 Parameters								
制冷量 Cooling capacity	KW	50HZ	21.8	28.01	33.78	44.15	59.08	87.20
		60HZ	25.50	32.78	39.53	51.65	69.12	102.02
	Kcal/h	50HZ	18748	24089	29059	37965	50805	74992
		60HZ	21935	28184	33999	44419	59442	87741
总输入功率 Total input		KW	8.6	11	13.3	17	22.8	33.7
量大运行电流 Maximum Running Current		A	20.9	26.7	32.3	41.3	55.4	79.8
电源 Power supply			3相(Φ)~380V/415V 50HZ					
制冷剂 Refrigerant	名称 Name		R22					
	充注量(kg) Charge		3.5 x 2	4.3 x 2	5 x 2	4.3 x 3	8.5 x 2	8.5 x 3
	控制方式 Control typ		毛细管/ 外平衡式热力膨胀阀 Capillary / External Balanced Thermal Expansion Valve					
压缩机 compressor	类型 Type		全封闭涡旋式或活塞式 Hermetic scroll or piston					
	功率(kw) Motor		3 x 2	3.75x2	4.5 x 2	3.75x3	7.5 x 2	7.5x3
冷却风量 Air Flow	m³/h		8000	10000	12000	15000	20000	30000
冷冻水 Chilled water	水量(m³/h) Flow		3.75	4.82	5.81	7.60	10.16	12.34
	水箱 (m³) Tank		0.11	0.188	0.188	0.285	0.285	0.405
	进出水管径 In/out pipe size		G1-1/2"	G1-1/2"	G1-1/2"	G2"	G2"	G2-1/2"
水泵 Pump	功率 KW		0.75	1.1	1.1	1.5	2.2	2.2
	压力 KPA		205	205	205	250	250	250
外形尺寸 Size	长 L mm		1560	1560	1560	1700	1900	2250
	宽 W mm		700	700	700	700	800	1000
	高 H mm		1370	1370	1370	1620	1730	1800
重量 (kg) Weight			270	350	370	520	590	790

* 产品规格若有变更,恕不另行通知!

Product specifications are subject to change without notice!

注：①冷量依据冰水入口温度12℃，出口温度7℃；冷却风入口温度35℃；出口温度55℃得出；

Note:① The cooling capacity is based on ice water inlet temperature of 12 °C and outlet temperature of 7 °C，cooling air inlet temperature of 35 °C，outlet temperature of 55 °C.

水冷式工业冷水机

Water Cooled Chiller



说明：

FIC-W系列水冷式冷水机采用单级蒸汽压缩回路，并具有压缩机过载保护、泵浦过载保护、逆相缺相警示、防止结冰保护、高低压力保护等装置，机器性能稳定，寿命长。可快速降温，温控稳定，满足客户要求。此系列产品主要应用冷热交换的原理进行工作。适用于现代工业中的冷却领域，且不受环境温度的影响，是不可或缺的配置设备。

FIC-W series water cooled chiller adopts single-stage steam compression circuit, and has compressor overload protection, pump over-load protection, reverse phase loss warning, anti-icing protection, high and low pressure protection, etc. The machine has stable performance and long life. long. It can quickly cool down, stable temperature control, and meet customer requirements. This series of products mainly apply the principle of cold and heat exchange to work. It is applicable to the cooling field in modern industry and is not affected by the ambient temperature. It is an indispensable configuration device.

FIC-5W

本机特点：

- 冷却温度范围3℃-35℃；
- 不锈钢保温水箱，防结冰保护装置；
- 制冷剂采用R22，制冷效果好；
- 冷冻回路采用高、低压开关控制；
- 压缩机及泵浦均有过载保护；
- 壳管式冷凝器、导热快，散热效果佳,需提供冷却水；
- 壳管式蒸发器/盘管式蒸发器导热与热交换快，散热及制冷效果好；

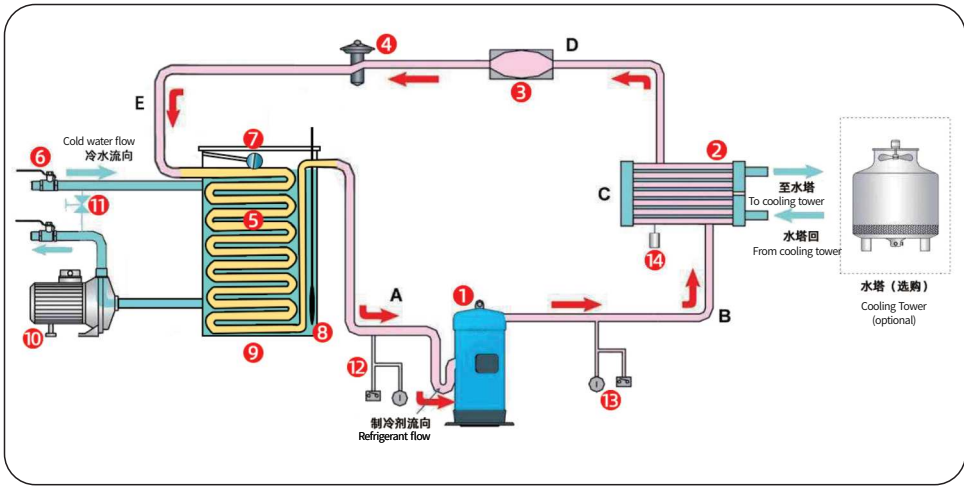
Features:

- Cooling temperature range: 3 °C -35 °C.
- Stainless steel heat preservation water tank, anti-icing protection device.
- The refrigerant is R22, which has good refrigeration effect.
- The refrigeration circuit is controlled by high and low voltage switches.
- The compressor and pump have overload protection.
- Shell and tube condenser, fast heat conduction, good heat dissipation effect.
- Shell and tube evaporator/coil evaporator have fast heat conduction and heat exchange, good cooling and cooling effect.



FIC-W水冷式系统流程示意图

Working Principle of water-cooled Models



符号 symbol	品名 Name
①	压缩机 Compressor
②	冷凝器 Condenser
③	干燥过滤器 Dry filter
④	膨胀阀 Expansion valve
⑤	蒸发器 Evaporator
⑥	球阀 Ball valve
⑦	浮球开关 Float switch
⑧	温度感应开关 Temperature sensor switch
⑨	水箱 Water tank
⑩	泵浦 Pump
⑪	旁通阀 Bypass valve
⑫	低压控制器 Low-voltage controller
⑬	高压控制器 High voltage controller
⑭	泄压阀 Pressure relief valve

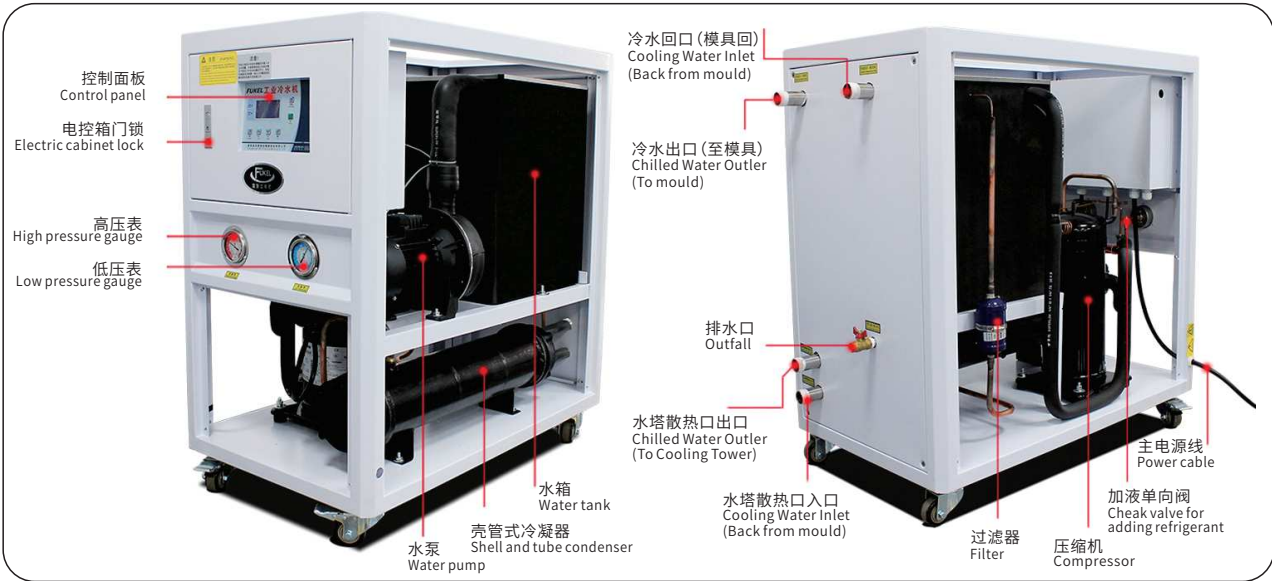
FIC-W 系列水冷式冷水机主要由压缩机、冷凝器、热力膨胀阀、蒸发器四大部件组成，采用单级蒸汽压缩制冷系统，利用制冷剂的气液相互转换，吸收和释放热量的原理，从而达到制冷的效果。

FIC-W系列开机后，压缩机①开始工作，制冷剂在压缩机的压缩作用下变成高压高温气体，往B-C的方向循环；在B-C过程高温高压的制冷剂气体通过冷凝器②，与水塔冷却水发生热交换，由气态转变为液态，同时被冷却水带走热量；D过程，液态的高压制冷剂通过③干燥过滤器，再通过热力膨胀阀④，压力下降，部分制冷剂由液态转换为气态，此时制冷剂通过蒸发器⑤，在蒸发器内与热媒介发生交换，冷却冷冻水到所需的温度，满足设定要求；经蒸发器后的气体制冷剂向A方向循环回到压缩机，完成一次制冷循环。

FIC-W series water-cooled chiller is mainly composed of four major components: compressor, condenser, thermal expansion valve, and evaporator. It uses a single-stage, vapor compression refrigeration system and uses the gas and liquid phase of the refrigerant. The principle of mutual conversion, absorption and release of heat, so as to achieve the effect of cooling.

After the FIC-W series is turned on, the compressor ① starts to work, and the refrigerant becomes high pressure, and high temperature gas under he compression of the compressor, and circulates in the direction of BC; during the BC process, the high temperature and high pressure refrigerant gas passes through the condenser ② and the water tower The cooling water undergoes heat exchange, and changes from a gaseous state to a liquid state, and at the same time is taken away by the cooling water. In the D process, the liquid high-pressure refrigerant passes through ③ the drying filter and then passes through the thermal expansion valve ④. The pressure drops and part of the refrigerant is converted from the liquid state. It is gaseous. At this time, the refrigerant passes through the evaporator ⑤ and exchanges with the heat medium in the evaporator. The chilled water is cooled to the required temperature and meets the set requirements. The gas refrigerant after the evaporator circulates back to the direction A. Compressor to complete a refrigeration cycle.

FIC-W水冷式结构示意图 FIC-W water-cooled structure diagram



水冷式工业冷水机参数表 (一)

Parameter list of water-cooled water chiller (1)



型号 Model			FIC-3W	FIC-4W	FIC-5W	FIC-6W	FIC-8W	FIC-10W
参数 Parameters								
制冷量 Cooling capacity	KW	50HZ	9.59	12.43	15.91	19.18	24.85	31.83
		60HZ	11.22	14.54	18.32	22.45	29.08	37.24
	Kcal/h	50HZ	8251	10682	13690	16503	21370	27370
		60HZ	9654	12498	16018	19308	25009	32023
总输入功率 Total input		KW	2.8	3.55	4.5	5.4	6.8	8.4
量大运行电流 Maximum Running Current		A	6.7	8.4	10.5	12.6	16.5	20.4
电源 Power supply			3相(Φ)~380V/415V 50HZ					
制冷剂 Refrigerant	名称 Name		R22/134a					
	充注量(kg) Charge		1.7	2.2	2.8	3.4	2.2 x 2	2.8 x 2
	控制方式 Control typ		毛细管 Capillary Tube					
压缩机 compressor	类型 Type		全封闭涡旋式或活塞式 Hermetic scroll or piston					
	功率(kw) Motor		2.25	3	3.75	4.5	3 x 2	3.7 x 2
冷却水 Colling water	水量 (m³/h) Flow		2.06 2.41	2.67 3.12	3.42 4.00	4.13 4.83	5.34 6.25	6.85 8.01
	水箱 (m³) Tank		28	27	34	30	38	34
	进出水管经 In/out pipe size		G1"	G1"	G1"	G1"	G1-1/2"	G1-1/2"
冷冻水 Chilled water	水量 (m³/h)Flow		1.65 1.93	2.14 2.50	2.75 3.20	3.30 3.86	4.27 5.00	5.47 6.40
	水箱 (m³) Tank		0.038	0.038	0.038	0.11	0.11	0.188
	进出水管径 In/out pipe size		G1"	G1"	G1"	G1"	G1-1/2"	G1-1/2"
水泵 Pump	功率 KW		0.375	0.375	0.37/0.75	0.75	0.75	1.1
	压力 KPA		242	242	290	290	290	205
外形尺寸 Size	长 L mm		980	980	980	980	1450	1450
	宽 W mm		550	550	550	550	650	650
	高 H mm		1000	1000	1000	1000	1360	1360
重量 (kg) Weight			120	135	150	200	210	290

* 产品规格若有变更, 恕不另行通知!

Product specifications are subject to change without notice!

注: ①冷量依据冰水入口温度30℃, 出口温度35℃;

Plus: ① The cooling capacity is based on ice water inlet temperature of 30 °C and outlet temperature of 35 °C.

水冷式工业冷水机参数表(二)
Parameter list of water-cooled water chiller (2)

型号 Model			FIC-12W	FIC-15W	FIC-20W	FIC-25W	FIC-30W	FIC-40W
参数 Parameters								
制冷量 Cooling capacity	KW	50HZ	38.37	50.14	67.14	81.53	99.19	122
		60HZ	44.89	58.66	78.56	85.39	116.05	137.22
	Kcal/h	50HZ	32994	43120	57748	70120	85303	104900
		60HZ	38603	50451	67565	82040	99805	118016
总输入功率 Total input		KW	10.1	13.1	17.3	21.3	25.6	33.7
量大运行电流 Maximum Running Current		A	24.6	31.8	42.1	48.5	58.3	70
电源 Power supply			3相(Φ)~380V/415V 50HZ					
制冷剂 Refrigerant	名称 Name		R22/134a					
	充注量(kg) Charge		3.4 x 2	4.2 x 3	5 x 2	6.3 x 2	5 x 3	5 x 4
	控制方式 Control typ		毛细管/ 外平衡式热力膨胀阀 Capillary / External Balanced Thermal Expansion Valve					
压缩机 compressor	类型 Type		全封闭涡旋式或活塞式 Hermetic scroll or piston					
	功率(kw) Motor		4.5 x 2	3.75x3	7.5 x 2	9.4 x 2	7.5x3	7.5x4
冷却水 Colling water	水量 (m³/h) Flow		8.24 9.64	10.78 12.61	14.44 16.90	17.54 20.52	21.32 24.94	25.22 29.51
	水箱 (m³) Tank		41	28	38	30	36	37
	进出水管径 In/out pipe size		G1-1/2"	G2"	G2"	G2-1/2"	G2-1/2"	G2-1/2"
冷冻水 Chilled water	水量 (m³/h)Flow		6.59 7.72	8.62 10.09	11.55 13.52	14.03 16.41	17.06 19.96	20.18 23.61
	水箱 (m³) Tank		0.188	0.285	0.285	0.405	0.405	0.405
	进出水管径 In/out pipe size		G1-1/2"	G2"	G2"	G2-1/2"	G2-1/2"	G3
水泵 Pump	功率 KW		1.1	1.5	1.5	2.2	3	4
	压力 KPA		205	205	220	220	220	250
外形尺寸 Size	长 L mm		1450	1700	1700	1850	1850	1850
	宽 W mm		650	650	700	750	750	800
	高 H mm		1360	1360	1400	1400	1400	1500
重量 (kg) Weight			310	400	440	690	690	760

* 产品规格若有变更,恕不另行通知!
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注：①冷量依据冰水入口温度30℃，出口温度35℃；
Note:① The cooling capacity is based on ice water inlet temperature of 30 °C and outlet temperature of 35 °C.

水冷螺杆式冷水机组
Water Cooled Screw Chiller



说明：

FIC-WS系列水冷螺杆式冷水机组主机采用台湾汉钟压缩机，具有卓越的技术特性，分为单压缩机和双压缩机。适用于R22，R134a等多种冷媒。高效率冷凝器与蒸发器均有国家压力容器制造许可，热性稳定，维修保养方便，先进的微电脑控制器，功能强大，采用高速嵌入式微电脑处理器，性能远高于同行业中适用的单片机。

FIC-WS series water-cooled screw chiller adopts Taiwan Hanzhong compressor, which has excellent technical characteristics and is divided into single compressor and double compressor. Suitable for R22, R134a and other refrigerants. High efficiency condenser and evaporator have national pressure vessel manufacturing license, thermal stability, easy maintenance, advanced microcomputer control. The machine has powerful functions and adopts high speed embedded microcomputer processor. Its performance is much higher than that of the single chip machine in the same industry.

FIC-100WS

本机特点：

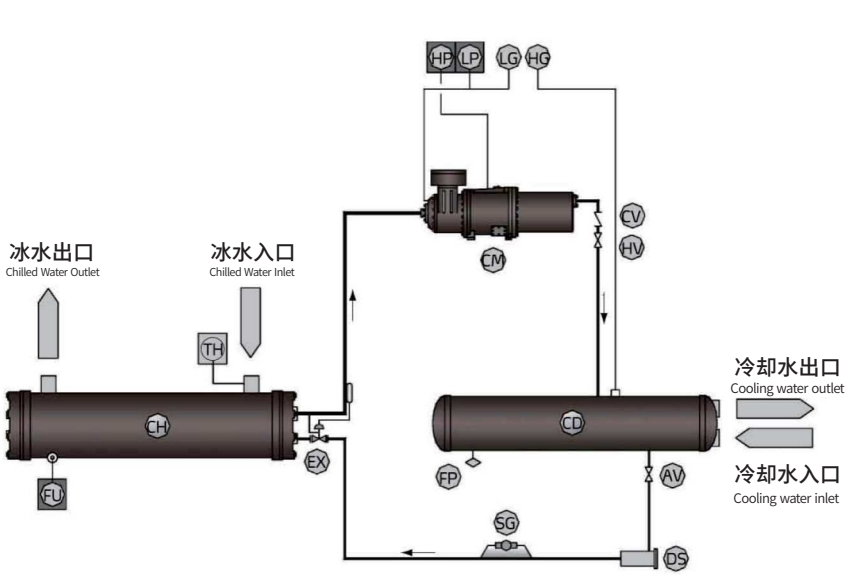
- 采用台湾汉钟压缩机，轴承寿命长，可确保长时间运转；
- 压缩机多级能量调节，可依客户需求作调整以达到节能的效果；
- 冷凝器和蒸发器高热性能交换，维修保养方便；
- 控制器扩展性能良好，可方便硬件及程序的扩展和升级；
- Watchdog技术使微电脑控制器的硬件组件具有自我诊断能力，能自动检测故障；
- 配备稳定性高的记忆体，512K的程序存储容量及128K的断电数据保存容量，可大量存储资料且不会流失；
- 独特的屏幕保护系统使触控屏寿命可达十年以上；
- 故障查询功能与故障统计功能可以按照故障序列号、故障次数和发生时间来分析故障发生的原因,加以改善。



Features:

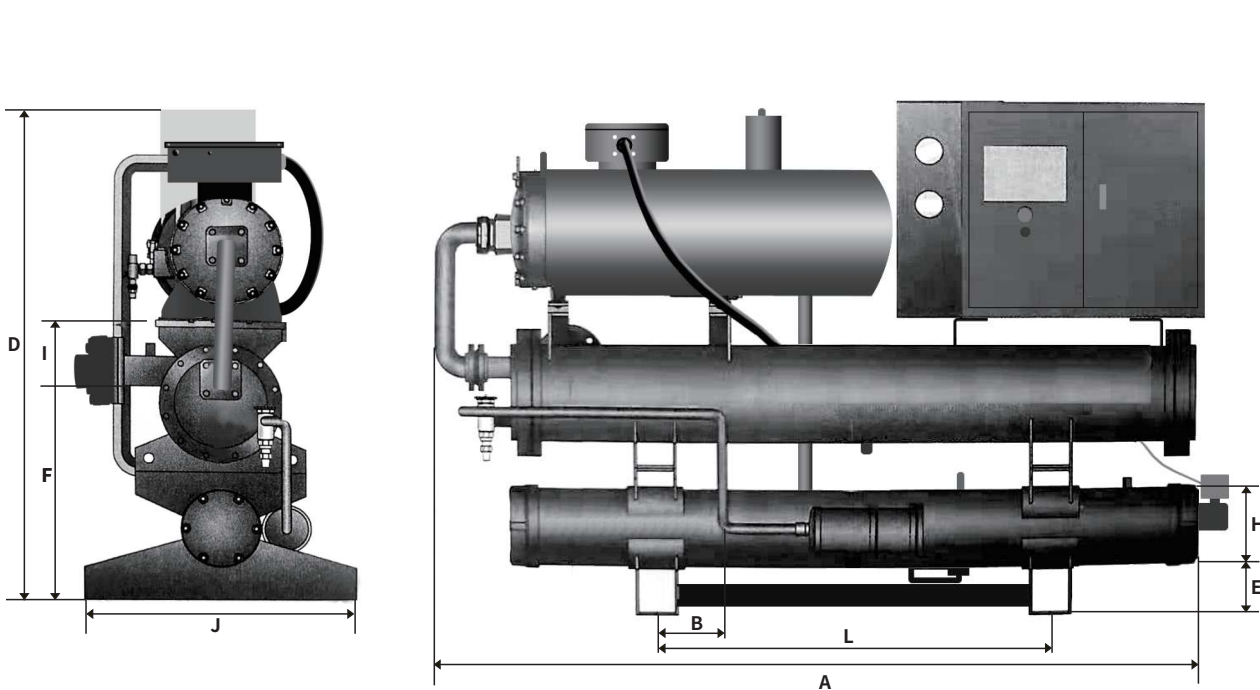
- Adopt Taiwan Hanzhong compressor, long bearing life, can ensure long-term operation.
- Multi-stage energy adjustment of the compressor can be adjusted according to customer needs to achieve energy saving effects.
- High heat performance exchange between condenser and evaporator, easy maintenance.
- Controller expansion performance is good, which can facilitate the expansion and upgrade of hardware and programs.
- Watchdog technology enables the hardware components of the microcomputer controller to have self-diagnostic capabilities and to automatically detect faults.
- Equipped with high stability memory, 512K program storage capacity and 128K power-off data storage capacity, can store a large amount of data without losing.
- The unique screen protection system makes the life of the touch screen more than ten years.
- The fault query function and fault statistics function can analyze the cause of the fault according to the fault serial number, the number of faults and the occurrence time, and improve it.

单机系列流程示意图
 Working Principle (One Compressor)



符号 symbol	品名Name	数量 Quantity
CM	压缩机 Compressor	1
CD	冷凝器 Condenser	1
CH	蒸发器 Evaporator	1
EX	膨胀阀 Expansion valve	1
FP	易熔塞 Fusible plug	1
AV	出液角阀 Outlet angle valve	1
DS	干燥过滤器 Dry filter	1
SG	视液镜 Sight glass	1
CV	逆止阀 Check valve	1
HV	高压止阀 High pressure check valve	1
HG	高压表 High pressure gauge	1
LG	低压表 Low pressure gauge	1
HP	高压开关 High voltage switch	1
LP	低压开关 Low voltage switch	1
TH	温度开关 Temperature Switches	1
FU	防冻开关 Antifreeze switch	1

单机系列尺寸结构图
 Dimensions (One Compressor)



水冷螺杆式冷水机组参数表(一)
 Parameter list of Water-cooled screw chiller(1)



单机系列
 One Compressor

型号 Model			FIC-100WS	FIC-130WS	FIC-170WS	FIC-190WS	FIC-255WS	FIC-300WS
项目 Ltem								
制冷量 Colling Capacity		Kcal/h	86000	111800	146200	163400	219300	258000
		KW	100	130	170	190	255	258000
输入功率 Power Input		KW	22	30	36	41	56	61
最大运行电流 Maximum Running Current		A	38	51	61	70	95	103
能量调节范围 Capacity Control		%	100-66-33-0				100-75-50-0	
电源 Power Supply			3相 (Φ) ~380V/415V 50HZ					
制冷剂 Refrigerant	名称 Type		R22/135a					
	充注量 Charge	kg	17	22	28	32	42.5	50
	控制方式 Control		感温式外部均压膨胀阀 Thermostatic Expansion Valve					
压缩机	类型 Type		半封闭螺杆式 Screw wemi hermetic					
Compressor	功率 Motot	KW	22	30	36	41	56	61
蒸发器 Evaporator	类型 Type		壳管式 Shell and hermetic					
	冰水流量 Flow Rate	m³/h	17.2	22.4	29.3	33	43.9	51.6
	水阻力 Pressure Drop	Kpa	42	45	40	44	44	44
	进出水管径 Pipe Size	英寸	G3″	G3″	G3″	G3″	G4″	G4″
冷凝器 Condenser	类型 Type		壳管式 Shell and hermetic					
	冷却水流量 Flow Rate	m³/h	22.4	29.2	35.2	42.9	57.1	67.1
	水阻力 Pressure Drop	Kpa	38	43	43	43	43	45
	进出水管径 Pipe Size	英寸	G3″	G3″	G3″	G3″	G4″	G4″
保护装置 Safety Device		压缩机过热保护, 过流保护, 高低压力保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 Compressor overheat protection, high and low pressure protection, overtemperature protection, traffic protection, phase sequence/phase loss protection, gas, thermal protection, frost protection						
外形尺寸 Size	A	mm	2500	2500	2650	2800	3000	3000
	B	mm	750	750	750	750	750	900
	C	mm	1800	1800	1800	1800	1800	1800
	D	mm	2000	2000	2275	2375	2575	2575
	E	mm	650	650	650	650	650	800
	F	mm	900	900	900	900	900	950
	G	mm	640	640	640	640	640	690
	H	mm	250	250	250	250	250	300
	I	mm	150	150	150	150	150	150
	J	mm	1635	1635	1735	1735	2135	2135
机组重量 Net Weight		kg	800	800	100	1140	1500	1800
运行重量 Operating Weight		kg	900	900	1200	1250	1650	1960

* 产品规格若有变更, 恕不另行通知!
 Product specifications are subject to change without notice!

注: ①冷量依据冰水入口温度12°C, 出口温度7°C; 冷却水入口水温30°C; 出口温度35°C得出;
 Plus: ①Cooling capacity is based on ice water inlet temperature of 12°C and outlet temperature of 7°C
 cooling water inlet water temperature of 30 °C, outlet temperature of 35°C.

水冷螺杆式冷水机组参数表 (二)
Parameter list of Water-cooled screw chiller(2)

单机系列
One Compressor

型号 Moldel			FIC-330WS		FIC-400WS		FIC-490WS		FIC-575WS		FIC-630WS		FIC-770WS		
项目 Ltem															
制冷量 Coling Capacity			Kcal/h	283800		344000		421400		494500		541800		662200	
			KW	330		400		490		575		630		770	
输入功率 Power Input			KW	70		85		114		119		132		167	
最大运行电流 Maximum Running Current			A	119		145		170		202		225		285	
能量调节范围 Capacity Control			%	100-75-50-25-0											
电源 Power Supply			3相 (Φ) ~380V/415V 50HZ												
制冷剂 Refrigerant	名称 Type			R22/135a											
	充注量 Charge		kg	55		67		82		96		105		128	
	控制方式 Control			感温式外部均压膨胀阀 Thermostatic Expansion Valve											
压缩机 Compressor	类型 Type			半封闭螺杆式 Screw wemi hermetic											
	功率 Motot		KW	70		85		114		119		132		167	
蒸发器 Evaporator	类型 Type			壳管式 Shell and hermetic											
	冰水流量 Flow Rate		m³/h	56.8		68.8		84.3		99		108.4		132.4	
	水阻力 Pressure Drop		Kpa	42		45		40		44		44		44	
	进出水管径 Pipe Size		英寸	G4''		G4''		G5''		G5''		G6''		G6''	
冷凝器 Condenser	类型 Type			壳管式 Shell and hermetic											
	冷却水流量 Flow Rate		m³/h	74		89.4		110		129		141		172.2	
	水阻力 Pressure Drop		Kpa	45		48		45		49		49		44	
	进出水管径 Pipe Size		英寸	G4''		G5''		G5''		G5''		G6''		G6''	
保护装置 Safety Device			压缩机过热保护, 过流保护, 高低压力保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 Compressor overheat protection, high and low pressure protection, overtemperature protection, traffic protection, phase sequence/phase loss protection, gas, thermal protection, frost protection												
外形尺寸 Size	A		mm	3100		3200		3606		3606		3800		3900	
	B		mm	900		900		1220		1280		1320		1320	
	C		mm	1800		1800		1600		1600		1650		1650	
	D		mm	2575		2775		3100		3100		3100		3100	
	E		mm	800		800		1020		1070		1120		1120	
	F		mm	900		900		350		350		400		400	
	G		mm	640		640		250		250		250		250	
	H		mm	250		250		250		250		250		250	
	I		mm	150		150		150		200		200		200	
	J		mm	2135		2335		2660		2660		2660		2660	
机组重量 Net Weight			kg	1900		2000		100		2750		2950		3200	
运行重量 Operating Weight			kg	2050		2180		1200		3000		3150		3500	

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注： ①冷量依据冰水入口温度12℃, 出口温度7℃;冷却水入口水温30℃;出口温度35℃得出;
Note:①Cooling capacity is based on ice water inlet temperature of 12 °C and outlet temperature of 7 °C
cooling water inlet water temperature of 30 °C, outlet temperature of 35 °C.

料斗干燥机
Hopper dryer



说明:

FHD系列料斗干燥机是干燥塑料原料有效且经济的机型，可以干燥因包装、运送或回收而潮湿的原料，直结式的设计特别适合于直接安装在塑料成型机上进行干燥。即快速又节省空间。这种上吹式 (FHD-800/ 1000为下吹式并附清理门) 的热风干燥机能提供装料量为12-1000公斤，共分为十三种机型。所有机型皆可选配24小时定时器。

The FHD series hopper dryer is the most effective and economical model for drying plastic raw materials. It can dry raw materials that are wet due to packaging, transportation or recycling. The straight-knot design is particularly suitable for direct installation on plasticold-ing machines for drying. Fast and space-saving. This type of hot-air dryer (FHD-800 / 1000 is a lower-blowing type with cleaning door) can provide a loading capacity of 12-1000 kg, which is divided into 13 models. All models are available with a 24-hour timer.

FHD-50KG

本机特点:

- 采用均匀分散的热风扩散装置,保持塑料干燥温度均匀,提高干燥效率;
- 特有热风弯管设计,可避免粉屑堆积于电热管底部引起燃烧;
- 料桶内及内部零件一律采用不锈钢制作,确保原料不被污染;
- 料桶与料斗分离,清料方便,换料迅速;
- 采用数显温控器,可精确控制温度;
- 有过热保护装置,可减少人为或机械故障所产生之意外;
- 全系列配备超温警示灯及风机接触器与过载器,E型除外;
- 全系列配备外露式电源开关,E型除外;
- 全系列机型配置标准铝制底座;
- 各种机型皆可选配预定时装置及保温桶;
- 可选购排风旋风器,排风空气滤清器、热风回收器、铝制磁力底座,风车入口过滤器,料斗磁铁、吸料盒、“L””A”型脚架可供选配;

Features:

- Adopt uniform and highperformance hot air diffusion device to keep plastic drying temperature uniform , improve drying efficiency.
- Unique hot air pipe design, can avoid powder accumulation on the bottom of electric heating pipe to cause combustion.
- The inside and inside of the barrel are all made of stainless steel to ensure that the raw materials are not polluted.
- The bucket is separated from the hopper, which is convenient for cleaning and quick to change materials.
- Digital temperature controller can be used to precisely control the temperature.
- There are overheating protection devices, which can reduce the occurrence of human or mechanical failure.
- All series are equipped with over-temperature warning lights and fan contactors and overloaders, except for type E.
- All series are equipped with exposed power switches, except for type E.
- All series models are equipped with standard aluminum base.
- Various models can be equipped with scheduled time device and insulation bucket.
- Optional exhaust cyclone, exhaust air filter, hot air recycler, aluminum magnetic base,Windmill inlet filter, hopper magnet, suction box, "L" and A "type tripod are optional.



选购配件 Optional accessories



单管热风回收器
Single tube hot air recycler



双管热风回收器
Double-pipe hot air recycler



铝制磁力底座
Aluminum magnetic base



排风空气过滤器
Exhaust air filter

规格表 Specification

机型 Model	FHD-12	FHD-25	FHD-50	FHD-75	FHD-100	FHD-150	FHD-200	FHD-300	FHD-400	FHD-500	FHD-600	FHD-800	FHD-1000
干燥电热 (KW) Dry electric heating	2.2	3	3.9	4.2	6	8	12	15	18	19.5	21	24	32
风机 (KW) Fan	0.12	0.12	0.12	0.12	0.18	0.18	0.25	0.25	0.25	0.25	0.55	0.55	1.1
装料量 (kg) Loading	12	25	50	75	100	150	200	300	400	500	600	800	1000
A (mm)	Φ325	Φ385	Φ470	Φ530	Φ595	Φ595	Φ750	Φ750	Φ910	Φ910	Φ910	Φ960	Φ960
B (mm)	660	725	840	900	955	955	955	1230	1230	1365	1365	1365	1420
C (mm)	865	1015	1145	1240	1340	1580	1750	1985	2105	2285	2530	2700	3000
D (mm)	750	925	1045	1150	1340	1605	1480	1480	1840	1840	2015	2240	2470
E (mm)	360	405	490	550	605	605	770	770	915	915	950	600	600
F (mm)	370	460	520	620	725	970	975	1220	1220	1400	1545	540	540
H (mm)	110	210	220	220	226	226	258	258	302	302	302	1550	1845
I (mm)	170	170	170	170	166	166	158	158	222	222	222	222	222
G (mm)	375	410	380	475	470	470	550	550	775	775	775	950	950
K/L (mm)	150	150	150	150	220	220	257	257	345	345	345	345	345
M (mm)	Φ55	Φ55	Φ55	Φ55	Φ90	Φ90	Φ90	Φ90	Φ105	Φ105	Φ105	Φ105	Φ105
净重 (kg) Weight	35	40	45	55	70	75	120	120	165	170	240	280	300

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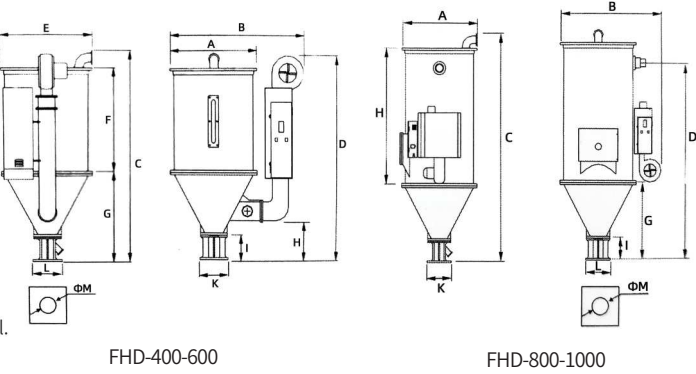
注:

- ①加装24小时计时器, 机型后加注“T”;
- ②选附铝制磁力底座, 机型后加注“M”;
- ③改选配双层保温料桶, 机型后加注“L”;
- ④改为160℃高温型, 机型后加注“H”;
- ⑤改为单相电压, 机型后加注“S”;
- ⑥以上装料量是以比重约0.65, 直径为3~5mm; 塑胶原料颗粒为标准;
- ⑦机器电压规格为:3相 (Φ) 400V, 50Hz;

Note:

- ① Install 24-hour timer, add "T" after the model.
- ② with aluminum magnetic base, add "M" after the model.
- ③ change to double-layer insulation bucket, add "L".
- ④ Change to 160 °C high temperature type, add "H" after the model.
- ⑤ Change to single-phase voltage, add "S" after the model.
- ⑥ The above loading amount is about 0.65 specific gravity, and the diameter is 3 ~ 5mm Plastic raw material particles are marked.
- ⑦The voltage specification of the machine is: 3Φ, 380V, 50Hz.

外形尺寸 Dimensions



干燥送料组合
Drying Feeding Combination



说明:

FDL系列热风干燥送料组合将塑料干燥及输送功能结为一体, 特别适用于厂房高度受到限制的大型射出成型机及立式射出成型机, FDL系列干燥送料组合, 提供一组用来输送干燥原料的电眼料斗为标准配备。此外也可选择FAL-900G来达到二段送料的应用。

The FDL series hot air drying combination integrates plastic drying and conveying functions, which is especially suitable for large injection molding machines and vertical injection molding machines with restricted plant heights. The FDL series dry feeding combination provides a set of electric eyes for conveying dry raw materials. The hopper is equipped as standard. Alternatively, FAL-900g can be chosen to achieve twoApplication of section feeding.

FDL-50+800G

本机特点:

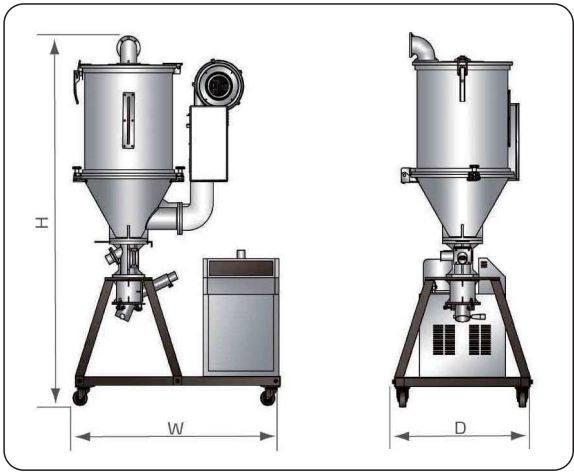
- 采用数显温控表, 可精确控制温度;
- 弹性的机型配置, 方便用户自由搭配;
- 占地小, 移动方便, 可任意更换机台使用;
- 料桶内部采用不锈钢制作, 确保原料不被污染;
- 料桶与料斗分离, 方便清理;
- 密闭回路送料系统, 避免干燥后的原料因接触外界空气而受潮;
- 料斗可选做抛光处理, 确保原料不受污染;
- 可配备警示灯;
- 可选购单管、双管吸料盒使用;
- 全系列机型配置标准铝制底座;
- FDL型集干燥、单段送料于一体, 可选配24小时定时器;
- 可搭配FAL-900G达成二段送料;
- 有热风回收器、风车入口过滤器、空气滤清器、旋风集尘器、铝制磁力底座、料斗磁铁可供选配;

Features:

- Digital temperature control meter can be used to precisely control the temperature.
- Flexible model configuration, convenient for users to choose.
- It occupies a small area, is easy to move, and can be replaced at will.
- The inside of the barrel is made of stainless steel to ensure that the raw materials are not polluted.
- The bucket is separated from the hopper for easy cleaning.
- Closed loop feeding system to prevent the dried raw materials from getting wet due to contact with the outside air.
- The hopper can be optionally polished to ensure that the raw materials are not contaminated.
- Can be equipped with warning lights.
- Optional single tube and double tube suction box can be used.
- All models are equipped with standard aluminum base.
- The FDL type integrates drying and single-stage feeding, and can be optionally equipped with a 24-hour timer.
- Can be matched with FAL-900G to achieve two-stage feeding.
- Hot air recycler, windmill inlet filter, air filter, cyclone dust collector, aluminum magnetic base and hopper magnet are available for optional.



外形尺寸
Dimensions



搭配吸料机机型
Suction machine mode



FVH 电眼料斗
FVH Electric Eye Hopper



FMH 真空料斗
FMH Vacuum Hopper

规格表 Specification

机型 Model	搭配干燥机型 Applicable Dryer Model	搭配填料机型 Applicable Loader Model	搭配料斗型号 Applicable Hopper Model	输送能力 (kg/hr) Conveying Capacity	储料斗 容量 (L) Hopper Volume	外形尺寸 (H x W x D mm) Dimensions	净重(kg) Weight
FDL-25	FHD-25	FAL-700G/800G	1 x FVH-7.5L	300	7.5	1620 x 1000 x 640	95
		F A L - 9 0 0 G	1 x FVH-7.5L 1 x FMH-7.5L	450	2 x 7.5		
FDL-50	FHD-50	FAL-700G/800G	1 x FVH-7.5L	300	7.5	1750 x 1000 x 640	110
		F A L - 9 0 0 G	1 x FVH-7.5L 1 x FMH-7.5L	450	2 x 7.5		
FDL-75	FHD-75	FAL-700G/800G	1 x FVH-7.5L	300	7.5	1850 x 1000 x 640	115
		F A L - 9 0 0 G	1 x FVH-7.5L 1 x FMH-7.5L	450	2 x 7.5		
FDL-100	FHD-100	FAL-700G/800G	1 x FVH-7.5L	300	7.5	1950 x 1080 x 710	155
		F A L - 9 0 0 G	1 x FVH-7.5L 1 x FMH-7.5L	450	2 x 7.5		
FDL-150	FHD-150	FAL-700G/800G	1 x FVH-7.5L	300	7.5	2200 x 1080 x 710	160
		F A L - 9 0 0 G	1 x FVH-7.5L 1 x FMH-7.5L	450	2 x 7.5		
FDL-200	FHD-200	FAL-800G	1 x FVH-7.5L	300	7.5	2385 x 1140 x 840	210
		FAL-900G2	1 x FVH-7.5L 1 x FMH-7.5L	450	2 x 7.5		
FDL-300	FHD-300	FAL-800G	1 x FVH-12L	300	12	2690 x 1140 x 840	285
		FAL-900G2	1 x FVH-12L 1 x FMH-12L	450	2 x 12		
FDL-400	FHD-400	FAL-800G2	1 x FVH-12L	400	12	2800 x 1240 x 1020	319
		FAL-900G2	1 x FVH-12L 1 x FMH-12L	700	2 x 12		

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注: ①加装24小时计时器, 机型后加“T”; ②FDL-300及以下机型改附铝制磁力底座, 机型后加“M”; ③改选配双层保温料桶, 机型后加“I”;
④改为160℃高温型, 机型后加“H”; ⑤改为单相电压, 机型后加“S”; ⑥机器电压规格为: 3相(Φ) 380V, 50Hz;

Note:① Install 24-hour timer, add "T" after the model.
② Models of FDL-300 and below are re-attached with aluminum magnetic base, and "M" is added after the model.
③ Choose double-layer thermal insulation bucket, add "I" after the model.
④ Change to 160 °C high temperature type, add "H" after the model.
⑤ Change to single-phase voltage, add "S" after the model.
⑥ Machine voltage specifications are: 3Φ, 380V, 50Hz.

欧化干燥机
Euro-Hopper Dryer

FUKEL

说明:

FHD-U系列下吹式欧化干燥机, 料斗采用不锈钢制造, 配备有“热气下吹”和“旋风排气”功能以及双层保温桶 特别适合搭配除湿机来干燥工程塑料, 该系列能提供的装料容量由20~8000U, 共分为25种机型。

FHD-U series down-blown Europeanized dryer. The hopper is made of stainless steel. It is equipped with "hot air blowing" and "cyclone exhaust" functions and double-layer insulation barrels. It is especially suitable for drying engineering plastics with a dehumidifier. The charging capacity of this series ranges from 20 to 8000U and is divided into 25 types.

FHD-160U

本机特点:

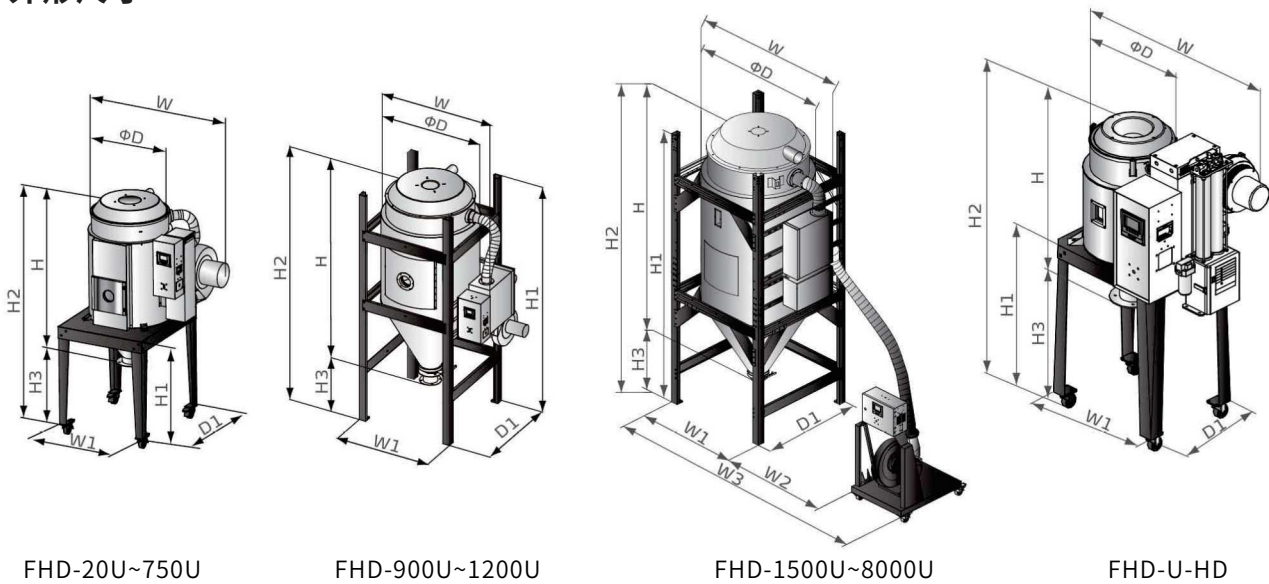
- 采用双层保温型不锈钢料桶, 可减少用电使用能耗;
- 特有以下吹风管设计, 能均匀分散热风, 保持塑料干燥, 温度稳定, 提高干燥效率;
- 全数位式P.I.D控制, LED状态显示;
- 外表新颖光亮, 整洁大方;
- 有过热保护装置, 可减少人为或机械故障所产生的意外;
- 一周定时自动开关机, 以达到省电目的;
- FHD-80U及以上机型采用可打开的视料门, 密封性好, 清理方便;
- FHD-1200U及以下机型标准配备不锈钢托板, 铝制底座;
- FHD-1500U及以上机型手动蝶形阀, 可选配护梯;
- 此机为高温型, 整机为全保温, 温度可设定30°C-250°C;
- 可选购欧化吸料盒、欧化脚架、料斗磁铁、磁力底座(铝制或不锈钢型)、
- 风机入口过滤器、热风回收器、排风空气滤清器可供选配;
- 改为欧规安全回路机型时, 机型后加注“CE”;

Features:

- Adopt double-layer thermal insulation stainless steel bucket, which can reduce energy consumption.
- Unique lower air duct design, can evenly distribute hot air keep plastic dry, and stable temperature.
- Improve drying efficiency.
- The appearance is novel, the appearance is bright, neat and generous.
- New appearance and bright appearance.
- Overheat protection device can reduce accidents caused by human or mechanical failure.
- Automatically turn on and off at a regular time a week to achieve power saving purposes.
- FHD-80U and above models use an openable sight door which has good sealing and easy cleaning.
- FHD-1200U and below models are equipped with stainless steel pallet and aluminum base as standard.
- FHD-1500U and above manual butterfly valve, optional elevator.
- This machine is high temperature, the whole machine is fully insulated and the temperature can be set to 180-250 °C.
- European-style suction box, European-style foot stand, hopper magnet magnetic base (aluminum or stainless steel type), fan inlet filter, hot air recycler, and exhaust air filter are optional.
- When it is changed to the European standard safety circuit model, "CE" shall be added after the model.



外形尺寸 Dimensions



FHD-20U~750U

FHD-900U~1200U

FHD-1500U~8000U

FHD-U-HD

规格表 Specification

机型 Model	干燥电热 (kW) Heater Power	风机 (kW) Blower	料桶容量(L) Hopper Capacity	外形尺寸 (H x W x D mm) Dimensions	脚架尺寸 (H x W1 x D1 mm) Floor Stand	整体高度 (mm) Whole Height	排风管 口径 Air Inlet Pipe Dia	出风管 口径 Air Out Pipe Dia	风机脚架尺寸 (H3 x W3 x D3 mm) Blower Stand	净重(kg) Weight
FHD-20U	2.2	0.12	20	730 x 575 x 325	790 x 450 x 550	1260	2"	1.5"	.....	40
FHD-40U	3	0.12	40	760 x 640 x 390	790 x 450 x 550	1295			.....	45
FHD-80U	3.9	0.12	80	940 x 722 x 475	840 x 552 x 722	1465	2.5"	2"	.....	50
FHD-120U	3.9	0.12	120	1210 x 722 x 475	840 x 552 x 722	1735			.....	60
FHD-160U	6	0.18	160	1225 x 822 x 575	920 x 662 x 795	1835	3"	2.5"	.....	90
FHD-230U	6	0.18	230	1505 x 822 x 575	920 x 662 x 795	2105			.....	100
FHD-300U	12	0.25	300	1450 x 945 x 695	970 x 790 x 930	2085			.....	130
FHD-450U	12	0.25	450	1850 x 945 x 695	970 x 790 x 930	2435			.....	160
FHD-600U	18	0.55	600	1820 x 1170 x 915	1130 x 1000 x 1200	2470	4"	3"	.....	200
FHD-750U	18	0.55	750	2100 x 1170 x 915	1130 x 1000 x 1200	2780			.....	220
FHD-900U	18	0.55	900	2070 x 1340 x 1050	1320 x 1200 x 1200	2730	4"	4"	.....	250
FHD-1200U	18	0.55	1200	2500 x 1340 x 1050	1320 x 1200 x 1200	3160			.....	380
FHD-1500U	32	1.1	1500	2950 x 1542 x 1250	1400 x 1500 x 1500	3470	5"	5"	1210 x 560 x 700	495
FHD-2000U	32	1.1	2000	3350 x 1542 x 1250	1400 x 1500 x 1500	3870			1210 x 560 x 700	570
FHD-2500U	48	2.2	2500	3510 x 1770 x 1400	1500 x 1640 x 1640	4050	6"	6"	1210 x 560 x 700	620
FHD-3000U	48	2.2	3000	3910 x 1770 x 1400	1500 x 1640 x 1640	4400			1210 x 560 x 700	700
FHD-3500U	64	4	3500	4310 x 1770 x 1400	1500 x 1640 x 1640	4800	8"	8"	1400 x 680 x800	785
FHD-4000U	64	4	4000	4050 x 1980 x 1600	1650 x 1900 x 1900	4550			1400 x 680 x800	860
FHD-4500U	80	5.5	4500	4350 x 1980 x 1600	1650 x 1900 x 1900	4850			1400 x 680 x800	940
FHD-5000U	80	5.5	5000	4650 x 1980 x 1600	1650 x 1900 x 1900	5150			1400 x 680 x800	1050
FHD-5500U	96	5.5	5500	4950 x 1980 x 1600	1650 x 1900 x 1900	5450			1400 x 680 x800	1120
FHD-6000U	96	5.5	6000	4350 x 2220 x 1800	1850 x 2100 x 2100	5100			1450 x 780 x 850	1210
FHD-6500U	112	7.5	6500	4600 x 2220 x 1800	1850 x 2100 x 2100	5350			1450 x 780 x 850	1285
FHD-7000U	112	7.5	7000	4850 x 2220 x 1800	1850 x 2100 x 2100	5600			1450 x 780 x 850	1375
FHD-8000U	128	11	8000	5350 x 2220 x 1800	1850 x 2100 x 2100	5850			1450 x 780 x 850	1445

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注：①内桶做抛光处理,机型后加“P”；②机器净重包含风机,但不包含脚架；
③机器电压规格为:3相(Φ) 380V, 50Hz;

Note:① The inner barrel is polished, and "P" is added after the model.
② It is changed to 180 °C high temperature type, and a safety insulation bucket is added.
③ The net weight of the machine includes a fan, but does not include a stand.
④ The voltage specifications of the machine are: 3Φ, 380V, 50Hz.

箱型干燥机
Cabinet Type Dryer



说明:

箱型干燥机适用于所有种类的聚合物材料烘干,并能同时烘干不同的材料,适合用于少量,多样性的原料或试模时使用,也可用于电子、电机、电镀、烤漆、印刷等多行业相同产品之预热或干燥处理。

The box dryer is suitable for drying all kinds of polymer materials, and can dry different materials at the same time. It is very suitable for small and diverse raw materials or test molds. It can also be used for electronics, motors, plating, baking paint, Printing and other industries of the same product preheating or drying treatment.

CD-9

本机特点:

- 采用精密P.I.D电子温度控制,达到均匀的烘干效果;
- 高温密封门可保持一致的温度并降低热量损耗;
- 不锈钢材质的烤盘及内衬,可防止在烘干过程中污染原料;
- 优化设计,方便维修保养;
- 入风口、排风口均可调式设计,可方便调节风量;
- 24小时定时装置,操作方便;
- 配备超温保护器,可避免超温干燥;
- 配备马达过载保护;
- 配备警示灯,可立即反应故障;
- 可依需求定制烤盘或整机特制;
- 改为欧规安全回路机型时,机型后加注“CE”;

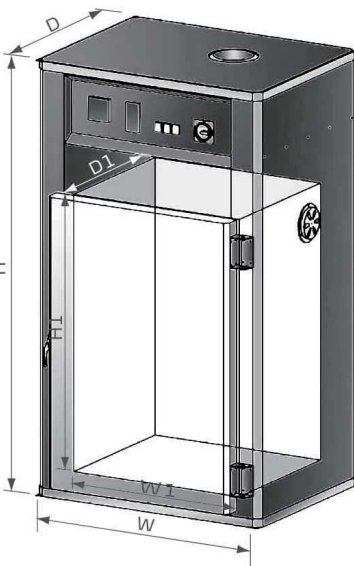


Features:

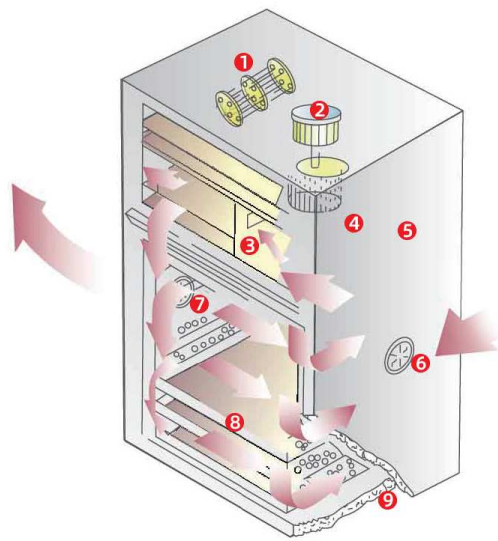
- Adopt precise P.I.D electronic temperature control to achieve uniform drying effect.
- High temperature sealed door can maintain consistent temperature and reduce heat loss.
- Stainless steel baking pan and lining can prevent contamination of raw materials during the drying process.
- Optimized design for easy maintenance.
- The air inlet and air outlet are adjustable design, which can easily adjust the air volume.
- 24-hour timer device, easy to operate.
- Equipped with over-temperature protector to avoid over-temperature drying.
- Equipped with motor overload protection.
- Equipped with warning lights, can immediately respond to faults.
- Can be customized according to demand or special machine.
- When it is changed to the European standard safety circuit model, "CE" shall be added after the model.



外形尺寸
Dimensions



工作原理图
Working Principle



符号 symbol	品名 Name
①	发热丝 Heating Fuse
②	马达入风口 Motor inlet
③	风室 Wind chamber
④	多翼式风轮 Multi-wing wind wheel
⑤	烤漆外层钢板 Steel plate
⑥	进风口 Air Inlet
⑦	排风口 Exhaust port
⑧	不锈钢托盘 Stainless steel tray
⑨	耐高温保温岩棉 Insulation cotton

工作原理
Working Principle

箱型干燥机中，有可以移动的盘子，可将要烘干的原料放在盘子内，运行时风车迫使空气通过发热丝，经过发热丝加热后，再通过风板均匀吹进原料，潮湿的空气由排风口排出，当原料均匀烘干后，定时时间到会自动停机。

In the box type dryer, there are movable plates, and the raw materials to be dried can be placed in the plates. During operation, the windmill forces the air to pass through the heating wire. The raw materials are blown in, and the humid air is exhausted from the air outlet. When the raw materials are uniformly dried, the machine will automatically stop when the time is up.

规格表 Specification

机型 Model	电热功率 (KW) Heater Power	风车马达 (KW) Blow Motor	最高干燥 温度(°C) Max. Drying Temperature	烤盘数量 (层) Tray Number	装料量 (KG) Loading Capacity	外部尺寸(mm) (H*W*D) Outer Dimensions	内部尺寸(mm) (H1*W1*D1) Inner Dimensions	净重(kg) Weight
CD-5	4	0.37	250	5	50	1300 x 800 x 685	640 x 590 x 540	150
CD-9	4.5	0.37	250	9	90	1550 x 800 x 685	900 x 590 x 540	180
CD-20	9	1.5	250	20	200	1800 x 1210 x 950	1000 x 970 x 800	415
CD-20L	18	1.5	250	20	350	1970 x 1440 x 1200	1190x 1160 x 1040	550

* 产品规格若有变更，恕不另行通知！

Product specifications are subject to change without notice!

注：①防爆机型后面加“P”；

Note: ① "P" is added behind explosion-proof models.

蜂巢转轮除湿机
Honeycomb wheel dehumidifier



说明：

FD-H系列蜂巢转轮除湿机主要是用来对吸湿性较强的工程塑料进行高效率的除湿作业，本公司所采用的蜂巢转轮在理想状态下露点可达到-50℃，全系列采用P.I.D电脑控制器为标准装置，另提供PLC控制搭配LCD触控式人机界面供选购，提供可实时监控机器除湿效果的露点计供选配，该系列产品共有14种机型最大干燥风量可达4000m³/hr。

FD-H series honeycomb wheel dehumidifier is mainly used for high-efficiency dehumidification of engineering plastics with strong hygroscopicity. The honeycomb rotor adopted by our company can ideally have a dew point of -50 °C. PID temperature control system is standard equipment. PLC control and LCD touch-screen human-machine interface are also available for purchase. Dew point meter can be used to monitor the dehumidification effect of the machine in real time. This series of products has a maximum of 14 models. Up to 4000m³ / hr.

FD-200H

本机特点：

- 该系列采用P.I.D温度控制系统，可精确控制再生温度；
- 该系列除湿系统采用双冷却器结构，确保更低回风温度及露点；
- 可选配干燥电热与温控表，搭配干燥料桶可对原料进行除湿干燥作业；
- 内部装有回风过滤器，确保蜂巢转轮不受原料粉尘污染；

Features:

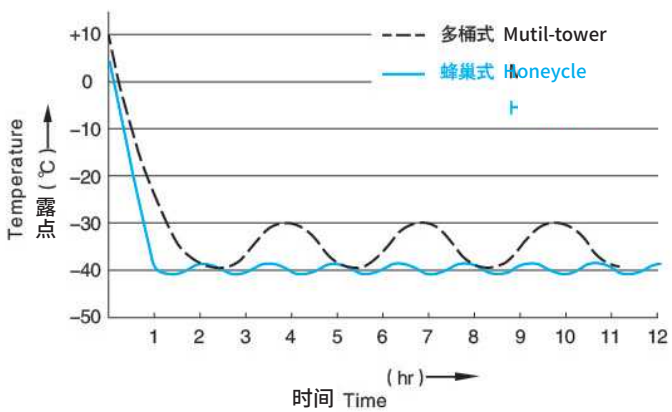
- This series adopts P.I.D temperature control system, which can accurately control the regeneration temperature.
- This series of dehumidification system adopts double cooler structure to ensure lower return air temperature and dew point.
- Optional drying electric heating and temperature control meter, with drying barrel can perform dehumidification and drying of raw materials.
- Inside is equipped with a return air filter to ensure that the hive runner is not polluted by raw material dust.



湿度及含水率对照表
Humidity and moisture content

露点(°C) Dew-point	相对湿度(%) Relative Humidity	含水率Moisture content	
		PPM	%
20	100	23.072	2.307
+10	52.50	12.117	1.212
0	26.10	6.027	0.603
-10	11.20	2.574	0.257
-20	4.40	1.025	0.103
-30	1.60	378	0.038
-40	0.60	128	0.013
-50	0.20	39	0.004

露点效果比较
Dew-point Comparison



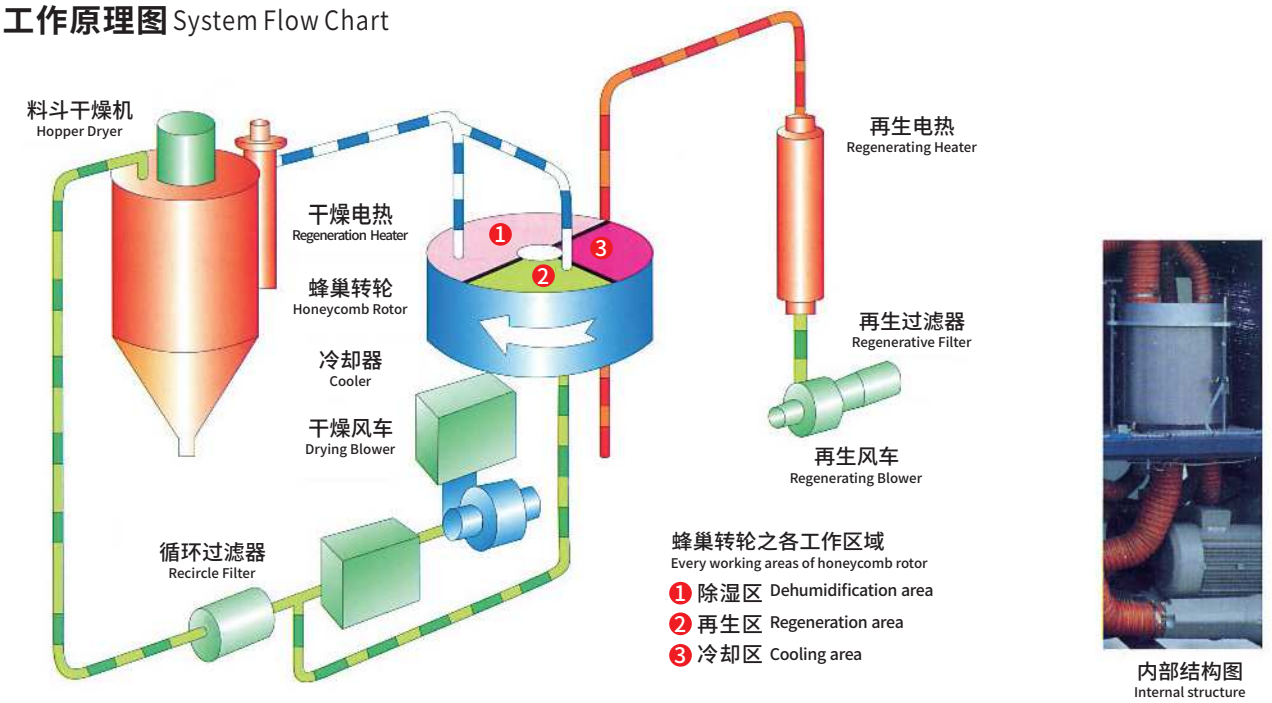
规格表 Specification

机型 Model	FD-	30H	50H	80H	120H	150H	200H	300H	400H	500H	700H	1000H	1500H	2000H	3000H	4000H
干燥风量 (m³/hr) Process Air Flow		30	50	80	120	150	200	300	400	500	700	1000	1500	2000	3000	4000
干燥风车功率 (kw) Process Blower		0.2	0.4	0.85	0.85	1.6	1.6	3	4	2.2	2.2	5.5	11	11	11x2	11x2
再生风车功率 (kw) Regen.heater		0.2	0.4	0.4	0.4	0.85	0.85	0.85	0.85	1.6	1.6	3	3	4	3x2	4x2
再生电热功率 (kw) Regen.Blower		3	3	4	4	6	6	7	7	12	12	15	24	24	24x2	24x2
出口管径 (inch) Outlet pipe diameter		2"	2"	2"	2"	2.5"	2.5"	3"	3"	4"	4"	4"	5"	8.5"	8.5"	8.5-10.7"
电压规格 Voltage Specifications		3相(Φ)380V/415V 50Hz														
外形 Shape	H(mm)	1260	1260	1360	1360	1560	1570	1745	1745	1935	1935	2145	2145	2060	2500	2500
	W(mm)	480	480	530	530	660	660	900	900	900	900	1300	1300	1410	1600	2000
	D(mm)	755	755	820	820	1050	1050	1255	1255	1385	1385	1550	1910	2150	2160	2200
	净重(kg)Weight	80	80	140	140	215	225	240	280	290	300	400	510	630	760	8800

* 产品规格若有变更,恕不另行通知! Product specifications are subject to change without notice!

注：该系列机型可选干燥电热及温控; Note:This series of models can choose dry electric heating and temperature control.

工作原理图 System Flow Chart

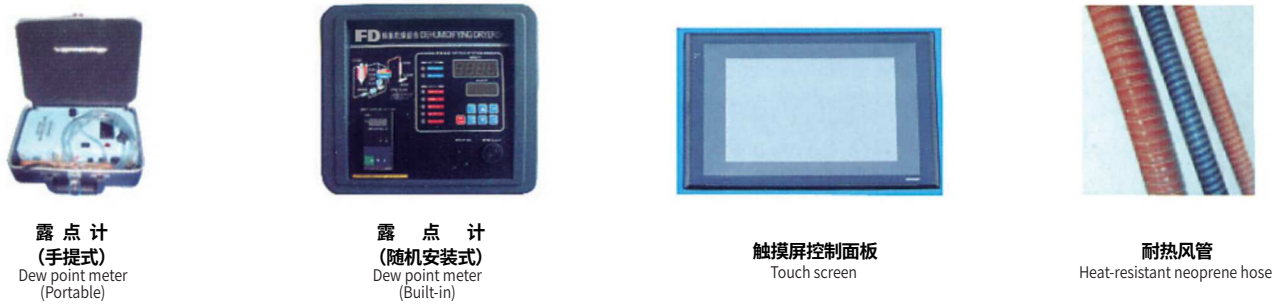


何谓“蜂巢转轮” What is a "Honeycomb wheel”

蜂巢转轮的主体由陶瓷及有机添加剂制造成之陶瓷蜂巢构成，再以分子筛及矽胶为基本材料经高温结晶使之表面坚硬并强力吸附蜂巢内部，故不会如同一般筒装或转盘式分子筛因老化后产生粉粒随干燥风吹入干燥桶污染塑料，而且蜂巢转轮寿命无限制又可以清洗，不像一般分子筛既易于饱和或老化必须经常更换，潮湿回风穿过蜂巢转轮的无数小孔时水份将迅速被分子筛吸收，故当它离开蜂巢时已被完全除湿并达到非常较低之露点的干燥风，再生与除湿原理相似而且同时进行，只是再生风流方向相反。

The main body of the honeycomb wheel is composed of ceramic honeycomb made of ceramic and organic additives, and then the molecular sieve and silica gel as the basic materials are crystallized at high temperature to make the surface hard and adsorb the honeycomb strongly Inside, it will not contaminate the plastic with the powder particles generated after aging into the drying drum with the dry wind as the general tubular or rotating molecular sieve. Moreover, the life of the honeycomb runner is unlimited and can be cleaned, unlike the conventional cylindrical or rotating molecular sieve Generally, molecular sieves are prone to saturation or aging and must be replaced frequently. Moisture is quickly absorbed by the molecular sieves when the moist return air passes through the numerous holes of the honeycomb wheel, so it is completely absorbed when it leaves the honeycomb Dry winds that dehumidify and reach very low dew points regenerate in a similar and simultaneous manner to dehumidification, except that the regenerated air flows are in the opposite direction.

选购配件 Optional accessory



原料干燥参数表 Raw material drying parameter table

原料 Raw Material	干燥 温度℃ Drying Temp.	干燥 时间 (hr) Drying Time	比热 (J/kg·℃) Specific Heat	原料 比重 (kg/dm³) Materials Specific Gravity	除湿前 含水率 (%) Moisture Content Before Drying	除湿后 含水率 (%) Moisture Content After Drying	干燥能力 Drying Capacity (kg/hr)														
							FD-30H	50H	80H	120H	150H	200H	300H	400H	500H	700H	1000H	1500H	2000H	3000H	4000H
ABS	80	2-3	0.34	0.6	0.3	0.02	11	18	27	35	71	105	180	210	285	355	425	710	1065	1500	1600
CA	75	2-3	0.5	0.5	1	0.02	9	15	22	30	60	90	150	180	235	295	355	590	885	1200	1330
CAB	75	2-3	0.5	0.5	0.8	0.2	9	15	22	30	60	90	150	180	235	295	355	590	885	1200	1330
CP	75	2-3	0.6	0.6	1	0.02	11	18	27	35	71	106	180	210	235	355	425	710	1060	1500	1600
LCP	150	4	0.6	0.6	0.04	0.02	8	13	20	27	55	80	135	160	210	265	320	530	800	1150	1200
POM	100	2	0.35	0.6	0.2	0.02	16	27	40	53	105	160	265	320	425	530	640	1060	1600	1800	2400
PMMA	80	3	0.35	0.65	0.5	0.02	11	19	29	38	77	115	192	230	307	383	460	767	1150	1530	1730
IONOMER	90	3-4	0.55	0.5	0.1	0.04	7	11	17	22	44	66	111	133	177	220	265	442	663	750	1000
PA6/6.6/6.10	75	4-6	0.4	0.65	1	0.05	6	10	14	19	38	58	96	115	153	192	230	383	575	960	1040
Pa11	75	4-5	0.58	0.65	1	0.05	7	12	17	23	46	69	115	138	184	230	275	460	690	780	1150
Pa12	75	4-5	0.28	0.65	1	0.05	7	12	17	23	46	69	115	138	184	230	275	460	690	780	1150
PC	120	2-3	0.28	0.7	0.3	0.01	13	21	31	41	83	124	206	250	330	413	495	826	1238	1400	1860
PU	90	2-3	0.45	0.65	0.3	0.02	11	19	29	38	77	115	190	230	307	383	460	767	1150	1530	2080
PBT	130	3-4	0.3-0.5	0.7	0.2	0.02	9	15	23	31	62	93	155	186	248	310	372	620	930	1100	1600
PE	90	1	0.55	0.6	0.01	<0.01	32	53	80	106	212	318	531	637	850	1062	1275	2125	3185	3600	4800
PEI	150	3-4	0.6	0.6	0.25	0.02	8	13	20	27	53	80	133	160	212	265	320	530	800	1030	1370
PET	160	4-6	0.3-0.5	0.85	0.2	0.05	8	13	19	25	50	75	125	150	200	250	300	500	750	1150	1360
PETG	70	3-4	0.6	0.6	0.5	0.02	8	13	20	27	53	80	133	160	212	265	320	530	800	1030	1370
PEN	170	5	0.85	0.85	0.1	0.05	9	15	23	30	60	90	150	180	240	300	360	600	900	1150	1360
PES	150	4	0.7	0.7	0.8	0.02	9	15	23	30	60	90	150	180	240	300	360	600	900	1050	1400
PMMA	80	3	0.65	0.65	0.5	0.02	11	19	29	38	77	115	190	230	310	385	460	765	1150	1530	1730
PPO	110	1-2	0.4	0.5	0.1	0.04	13	22	33	44	88	133	220	265	355	440	530	885	1330	1730	2660
PPS	150	3-4	0.6	0.6	0.1	0.02	8	13	20	27	53	80	133	160	212	265	320	530	800	1030	1370
PI	120	2	0.27	0.6	0.4	0.02	16	27	40	53	105	160	265	320	425	530	640	1060	1600	1800	2400
PP	90	1	0.46	0.5	0.1	0.02	26	44	66	88	180	265	442	530	710	885	1060	1770	2655	3500	4000
PS(GP)	80	1	0.28	0.5	0.1	0.02	26	44	66	88	180	265	442	531	708	885	1062	1770	2655	3500	4000
PSU	120	3-4	0.31	0.65	0.3	0.02	8	14	22	29	60	85	145	173	230	290	345	575	865	1300	1485
PVC	70	1-2	0.2	0.5	0.1	0.02	13	22	33	44	90	135	220	265	355	442	530	885	1330	1730	2660
PAN(AS)	80	1-2	0.32	0.5	0.1	0.05	13	22	33	44	90	135	220	265	355	442	530	885	1330	1730	2660
TPE	110	3	0.7	0.7	0.1	0.02	13	20	30	40	85	125	205	250	330	413	495	826	1238	1650	1860

* 产品规格若有变更,恕不另行通知! Product specifications are subject to change without notice!

注： ①使用独立干燥料斗；
②在20℃的大气温度及65%的相对湿度下，干燥后其水份含量低于0.005%；

Note: ① Use independent drying hopper.
② At 20 ° C atmospheric temperature and 65% relative humidity, its moisture content after drying is less than 0.005%.

除湿干燥组合

Dehumidification and Drying Combination

说明：

FDD系列由除湿、干燥两种功能一体，广泛适用于各种塑料原料，尤其是吸湿性较强的工程塑料，如：PA、PC、PBT、PET等，蜂巢转轮在理想状态下最低可达-50℃以下的露点。该系列产品采用FD-H系列蜂巢转轮除湿机搭配下吹式全不锈钢欧化保温干燥料桶组合而成。

The FDD series has two functions of dehumidification and drying. It is widely used in various plastic materials, especially engineering plastics with high hygroscopicity, such as: PA, PC, PBT, PET, etc. In the ideal state, the hive runner can reach the lowest Dew point below -50 ° C This series of products adopts the FDD-H series honeycomb rotary dehumidifier combined with a down-blown all-stainless-steel European-style heat preservation and drying barrel.

FDD-800U

本机特点：

- FDD系列欧化除湿干燥组合一律配备蜂巢转轮除湿机，造型为半开放式，整体造型美观新颖；集除湿、干燥两种功能于一体，并可选择一对多的系统；
- 保温式干燥料桶采用特有下吹风管设计搭配旋风排气装置能提高干燥效率，并能防止热能散失，确保湿度；
- 该系列除湿系统采用双冷却器结构，确保更低回风温度及露点；
- 机器占地小，移动方便，可任意更换机台使用；
- 该机配备微电脑控制为标准，可选配PLC控制搭配LCD触控式人机界面，操作集中方便，可控制整机自动运行；
- 可选配露点计，方便随时监控露点；
- 改符合欧规安全回路机型时，机型后加住“CE”；

Features:

- The FDD series of Europeanized dehumidification and drying combinations are all equipped with honeycomb rotor dehumidifiers. Open type, the overall shape is beautiful and novel.
- it integrates two functions of dehumidification and drying, and Choose a one-to-many system.
- Heat-preserving drying bucket adopts unique lower blower design and cyclone exhaust device to improve Drying efficiency, can prevent heat loss and ensure humidity.
- This series of dehumidification system adopts double cooler structure to ensure lower return air temperature and dew point.
- The machine occupies a small area, is easy to move, and can be replaced at will.
- The machine is equipped with microcomputer control as standard, optional PLC control and LCD touch-type man-machine Interface, convenient and centralized operation, can control the whole machine to run automatically.
- When it is changed to the European standard safety circuit model, "CE" shall be added after the model.



规格表 Specification table

MOD型	再生电热 功率 (kw) Regen.Heater Power	再生风机 功率 (kw) Regen.Blower Power	干燥电热 功率 (kw) Process Heater Power	干燥风机 功率 (kw) Process Blower Power	除湿风量 (m³/hr) Dry Air Capacity	保温桶容量 (L) Drying Hopper Capacity	外形尺寸 (mm) Dimensions H x W x D	净重 (kg) Weight
FDD-20U/30H	3	0.2	2.4/3	0.2	30	20	1240 x 875 x 755	110
FDD-40U/30H	3	0.2	3/4.5	0.4	30	40	1300 x 930 x 755	190
FDD-40U/50H	3	0.4	3/4.5	0.4	50	40	1300 x 930 x 755	190
FDD-80U/50H	3	0.4	4.5/6.6	0.4	50	80	1410 x 1030 x 755	210
FDD-120U/80H	4	0.4	4.5/6.6	0.85	80	120	1780 x 1220 x 820	250
FDD-160U/80H	4	0.4	6.6/7.2	0.85	80	160	1740 x 1220 x 820	255
FDD-160U/120H	4	0.4	6.6/7.2	0.85	120	160	1740 x 1220 x 820	265
FDD-230U/120H	4	0.4	6.6/7.2	0.85	120	230	2010 x 1220 x 820	295
FDD-230U/150H	4	0.4	6.6/7.2	1.6	150	230	2150 x 1450 x 1050	375
FDD-300U/150H	4	0.4	12/15	1.6	150	300	2040 x 1450 x 1050	410
FDD-300U/200H	6	0.4	12/15	1.6	200	300	2040 x 1450 x 1050	420
FDD-450U/200H	6	0.4	15/18	1.6	200	450	2440 x 1450 x 1050	550
FDD-450U/300H	7	0.85	15/15	3	300	450	2480 x 1490 x1255	580
FDD-600U/300H	7	0.85	18/24	3	300	600	2380 x 1745 x 1255	615
FDD-600U/400H	7	0.85	18/24	4	400	600	2380 x 1745 x 1255	620
FDD-750U/400H	7	0.85	18/24	4	400	750	2610 x 1745 x 1255	650
FDD-750U/500H	12	1.6	18/24	2.2	500	750	2760 x 2140 x 1380	760
FDD-900U/500H	12	1.6	18/24	2.2	500	900	2640 x 21450 x 1380	820
FDD-900U/700H	12	1.6	18/24	2.2	700	900	2640 x 21450 x 1380	830
FDD-1200U/700H	12	1.6	24/36	2.2	700	1200	3070 x 2140 x 1380	870
FDD-1500U/1000H	15	3	36/48	5.5	1000	1500	3300 x 3600 x 2500	1200
FDD-2000U/1000H	15	3	36/48	5.5	1000	2000	3500 x 3600 x 2500	1500
FDD-2500U/1500H	24	4	48/60	11	1500	2500	3500 x 3600 x 2500	2000
FDD-4000U/2000H	24	4	72/84	11	200	4000	4500 x 3900 x 2700	2800

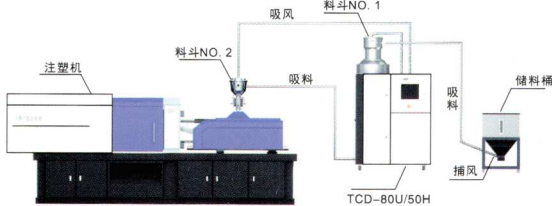
* 产品规格若有变更,恕不另行通知！Product specifications are subject to change without notice!

注： ①对于原料有接触的机器壁面做特殊抛光处理，机器后加注“P”； ②改180℃高温加完全保温，机型后加注“HT”；
③采用PLC控制搭配LCD触控式人机界面，机型后加注“LC”； ④加装高效率微尘过滤器；
⑤可搭配吸料盒与自动填料机，方便供料；

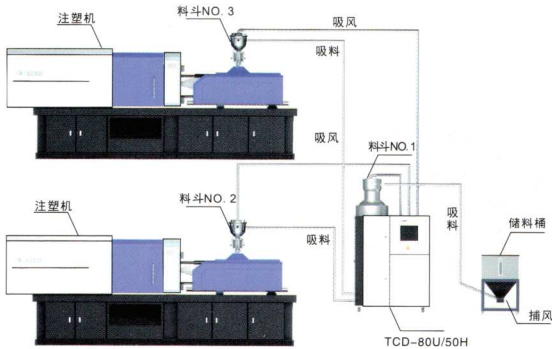
Note: ①Special polishing treatment is applied to the wall of the machine that has contact with the raw materials, and the machine is filled with "P".
②Change the high temperature of 180 °C and add complete insulation, add "HT" after the model.
③Adopt PLC control with LCD touch-type human-machine interface, add "LC" after the model . ④ Install high-efficiency dust filter.
⑤It can be equipped with suction box and automatic filling machine for convenient feeding.

除湿干燥组合示意图

Dehumidification and drying combination diagram



1对1 除湿干燥二段送料示意图 (标准)
1To1 2stage diagram



1对2 除湿干燥三段送料示意图 (标准)
1To2 3-stage diagram

除湿干燥送料组合

Dehumidification and Drying & Feed Combination

说明：

FCD系列除湿干燥送料组合集除湿、干燥、二段送料三种功能于一体，广泛适用于各种塑料原料，尤其是吸湿性较强的工程塑料，如：PA、PC、PBT、PET等，FCD-H型在理想状态最低可-50°C的露点，该系列产品采用FD-H系列蜂巢转轮除湿机搭配下吹式全不锈钢欧化保温干燥料桶组合而成。全系列采用P.I.D温控系统为标准装备，另提供PLC控制搭配LCD触控式人机界面供选购，提供露点计以及自动填料机供选配。

FCD series is composed of dehumidification and drying feed combination, dehumidification, drying and two-stage feeding. It is widely used in various plastic raw materials, especially engineering plastics with strong hygroscopicity, such as PA, PC, PBT, PET, etc. The FCD-H type can also have a dew point as low as-50° C in the ideal state. This series of products adopts the FD-H series honeycomb rotary dehumidifier combined with a down-blown all-stainless-steel European-style heat preservation and drying barrel. The entire series adopts P.I.D temperature control system as standard equipment. PLC control and LCD touch-screen human-machine interface are also available for purchase. Dew point meter and automatic filling machine are optional.

FCD-80U/50H

本机特点：

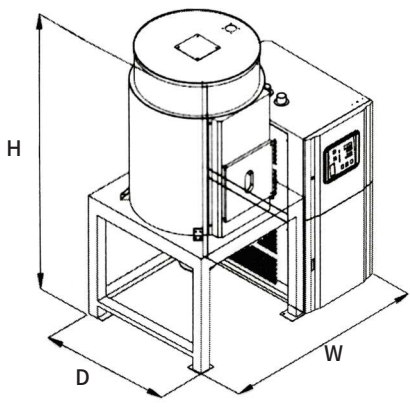
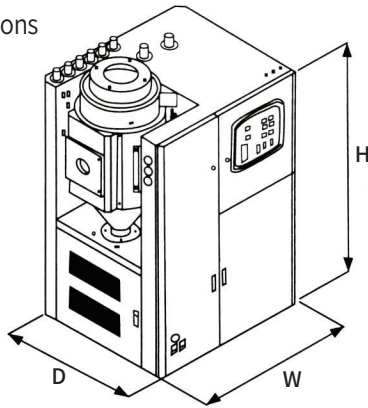
- FCD除湿干燥组合一律配备蜂巢转轮，可得到稳定性好的低露点干燥空气，造型分为半开放式与全密闭两种；
- 适用于吸湿性较强的工程塑胶原料如：PA、PC、PBT、PET等；
- 集除湿、干燥、二段送料三种功能于一体。并可选择三、四段送料功能；
- 保温式干燥料桶采用下吹风管设计，搭配旋风排气装置，防止热能散失，确保温度，提高干燥效率；
- 所有机器均接回路密闭的送料系统，可避免干燥后的原料因接触外界空气而再度受潮；
- 该系列除湿系统采用双冷却器结构，确保更低回风温度及露点；
- 送料系统配备截料阀，确保料管中无残余原料；
- 该机配备微电脑控制为标准装备，可选购PLC控制及LCD触控人机界面，操作集中方便，可控制整机自动运行；

Features:

- FCD dehumidification and drying combinations are all equipped with honeycomb runners, which can obtain dry air with good stability and low dew point. The shapes are divided into semi-open and fully closed.
- Suitable for engineering plastic materials with strong hygroscopicity, such as: PA, PC, PBT, PET, etc .
- It integrates three functions of dehumidification, drying and two-stage feeding. And can choose three or four sections feeding function.
- The heat-preserving drying bucket adopts the design of the lower blower tube and the cyclone exhaust device to prevent the loss of heat energy, ensure the temperature and improve the drying efficiency.
- All machines are connected to the closed loop feeding system, which can prevent the dried raw materials from getting wet again due to contact with the outside air.
- This series of dehumidification system adopts double cooler structure to ensure lower return air temperature and dew point.
- The feeding system is equipped with a cutting valve to ensure that there is no residual material in the material pipe. The machine is equipped with microcomputer control as standard equipment. PLC control and LCD touch-screen human-machine interface can be purchased. The operation is centralized and convenient, and the whole machine can be controlled to run automatically.



外形尺寸 Dimensions



规格表(全封闭式) Specification(Full-intergral Design)

机型Model FCD-		20U/30H	40U/30H	40U/50H	80U/50H	120U/80H	160U/80H	160U/120H	230U/120H	230U/150H	300U/150H	300U/200H	450U/200H
干燥系统 Drying System	干燥电热功率 (kw) Process Heater Power	3	3	4	4	6	6	6	7	7	12	12	15
	干燥风机功率 (kw) Process Blower Power	0.2	0.4	0.4	0.4	0.85	0.85	0.85	0.85	1.6	1.6	1.6	1.6
	保温桶容量 (L) Drying Hopper Capacity	20	40	40	80	120	160	160	230	230	300	300	450
	再生电热功率 (kw) Regen.Heater Power	3	3	3	3	4	4	4	4	4	4	6	6
除湿系统 Dehumidifying System	再生风机功率 (kw) Regen.Blower Power	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	除湿风量 (m³/hr) Dry Air Capacity	30	50	50	50	80	80	120	120	150	150	200	200
	送料风机功率 (kw) Conveying Blower Power	0.85	0.85	0.85	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
送料系统 Conveying System	吸料机配管 (inch) Conveying Blower Power	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	FMH料斗 (L) FMH Hopper	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	12	12	12
	FVH料斗 (L) FVH Hopper	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	12	12	12
外形尺寸 (mm) Dimensions	H (mm)	1490	1550	1550	1520	1990	1860	1860	2070	2130	2160	2160	2350
	W (mm)	1000	1040	1040	850	1105	1190	1190	1190	1425	1460	1460	1460
	D (mm)	875	875	875	810	875	875	875	875	1015	1020	1020	1020
	净重(kg) Weight	305	325	325	325	340	385	505	515	540	560	565	595

规格表(半开放式) Specification(Semi-intergral Design)

机型Model FCD-		450U/300H	600U/300H	600U/400H	750U/400H	750U/500H	900U/500H	900U/700H	1200U/700H
干燥系统 Drying System	干燥电热功率 (kw) Process Heater Power	15	18	18	18	18	24	24	24
	干燥风机功率 (kw) Process Blower Power	3	4	4	4	5.5	5.5	5.5	5.5
	保温桶容量 (L) Drying Hopper Capacity	450	600	600	750	750	900	900	1200
	再生电热功率 (kw) Regen.Heater Power	7	7	7	7	12	12	12	12
除湿系统 Dehumidifying System	再生风机功率 (kw) Regen.Blower Power	0.85	0.85	0.85	0.85	1.6	1.6	1.6	1.6
	除湿风量 (m³/hr) Dry Air Capacity	300	300	400	400	500	500	700	700
	送料风机功率 (kw) Conveying Blower Power	1.5	1.5	1.5	1.5	1.5	2.4	2.4	2.4
送料系统 Conveying System	吸料机配管 (inch) Conveying Blower Power	1.6	1.6	1.6	1.6	1.6	2	2	2
	FMH 料斗 (L) THL-U-E Hopper	12	24	24	24	24	24	24	36
	FVH 料斗 (L) THL-U Hopper	12	24	24	24	24	24	24	36
外形尺寸 (mm) Dimensions	H (mm)	2480	2380	2380	2610	2760	2640	2640	3070
	W (mm)	1490	1745	1745	1745	2140	2140	2140	2140
	D (mm)	1255	1255	1255	1255	1380	1380	1380	1380
	净重(kg) Weight	600	635	640	690	710	820	850	900

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注： ①可定制450U/300H-750U/500H全密闭式； ②机器电压规格为：3相(Φ) 400V，50Hz；
Note: ① 450U / 300H-750U / 500H fully enclosed type can be customized. ② Machine voltage specifications: 3Φ, 400V, 50Hz.

储料桶
Storage Barrel

说明：

储料桶 (储料箱、不锈钢装料桶), 主要用于塑料机械行业中注塑机生产成型前的原料储备用, 在吸料机输送原料过程中用来装原料和粉碎后再利用的水口料。

Storage bucket (storage box, stainless steel charging pass), mainly used for the original savings before injection molding machine production in the plastic machinery industry, used for loading raw materials and crushing the reused materials during the conveying process of the suction machine.

本机特点：

- 料桶采用不锈钢材料制造, 清洗容易, 避免腐蚀;
- 底部装有吸料盒, 方便吸料或卸料;
- 360°万向轮, 使储料箱移动方便、同时轮子有固定刹车扣, 可定点摆置;
- 桶身结构为不锈钢201材质, 可选配304材质;

Features:

- The bucket is made of stainless steel, which is easy to clean and avoid corrosion.
- A suction box is installed at the bottom for easy suction or discharge.
- The 360 ° universal wheel makes the storage box easy to move. At the same time, the wheel has a fixed brake buckle, which can be placed at a fixed point.
- The barrel body structure is made of stainless steel 201 material, optional 304 material.



规格表 Specification

机型 Model	材料厚度 (mm) Material thickness	容量 (kg) Capacity	外形尺寸 (mm) Dimensions H x W x D	吸料盒管直径 (mm) Suction box tube diameter	吸料盒离地面距离 (mm) Suction box distance from the ground
50kg	1.5	50	910 x 520 x 520	38	330
100kg	1.5	100	1010 x 620 x 620	38	200
200kg	1.5	200	1180 x 760 x 760	38	230

* 产品规格若有变更, 恕不另行通知!
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计量式色母混合机
Metering Type Masterbatch Mixer



说明：

FCM系列计量式色母混合机适用于新料、次料、色母或添加剂等自动比例混合。该系列机型使用直流无刷式马达 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, 其误差不高于±1%。该产品的马达减速比分为30:1及100:1两种, 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, 可依据客户需求搭配任意两台色母机合并使用。

FCM series metering type masterbatch mixer is used for automatic proportion mixing of new materials, secondary materials, masterbatches or additives. This series of models use a DC brushless motor, mixed according to the pre-selected ratio, and automatically converted to the speed directly driven by precision screw extrusion through the conditions set by the all-digital microcomputer control system. This product has two types of motor reduction ratios: 30: 1 and 100: 1. The screw diameter is divided into three types of 12, 14, and 16mm. Six models can be evolved to provide different output of 0.1 ~ 32kg / hr for customers to choose. Another two-color masterbatch machine can be combined with any two masterbatch machines according to customer needs.

FCM-30计量式色母混合机

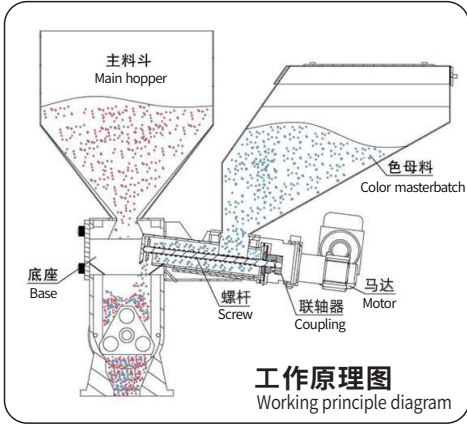
本机特点：

- 使用直流无刷式马达, 无需保养;
- 具备数据永久记忆及存储功能;
- 采用微电脑式控制, 智能化精确计算;
- 可同时满足外部信号输入的要求;
- 螺杆采用镀铬处理, 经久耐用;
- 模组式的装配结构, 拆卸方便, 易于清理及互换;
- 搅拌器为双色色母机的标准配备, 它可以满足客户双重混料需求, 单色色母机机型可选配搅拌器, 混料均匀;
- 主料斗为双色色母机的标准配备, 单色色母机可选配;
- 搭配75kg至200kg之间的干燥机时, 安装底座需要选配承重底座;
- 搭配200kg以上干燥机时需选配脚架;
- 改为欧规安全回路机型时, 机型后加注“CE”;



Features:

- Use brushless DC motor without maintenance.
- With permanent data memory and storage functions.
- Microcomputer control, intelligent and accurate calculation.
- Can simultaneously meet the requirements of external signal input.
- The screw is chrome-plated and durable.
- Modular assembly structure, easy to disassemble, easy to clean and interchange.
- The agitator is a standard equipment of the two-color masterbatch machine, which can meet the customer's double mixing needs. The single-color masterbatch machine can be equipped with an agitator to mix evenly.
- The main hopper is the standard equipment for the two-color masterbatch, and the single-color masterbatch is optional.
- When matching the dryer between 75kg and 200kg, the mounting base needs to be matched Bearing pedestal.
- With more than 200kg dryer, you need to choose a tripod.
- When it is changed to the European standard safety circuit model, "CE" shall be added after the model.

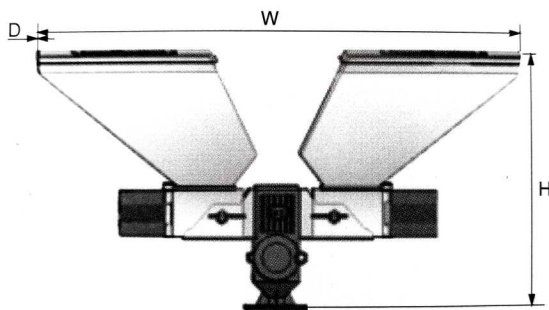
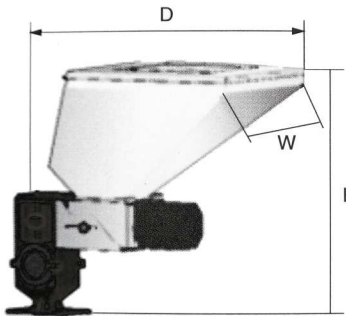


原理：

控制箱的信号传送到马达，马达开始转动，经过联轴器带动螺杆转动，料斗中的色母料落入螺杆，受到螺杆的挤压，被螺杆输送到底座中从而达到精准计量输送色母料的目的。

The signal from the control box is transmitted to the motor, the motor starts to rotate, and the screw is driven by the coupling. The color master batch in the hopper falls into the screw, is squeezed by the screw, and is transferred to the base by the screw, so as to achieve accurate metering and transfer of color master Purpose.

外形尺寸图 Dimension drawing



规格表 Specification

机型 Model	单色机 Monochrome machine						双色机 Two-color machine		
	FCM-30-16	FCM-30-14	FCM-30-12	FCM-100-16	FCM-100-14	FCM-100-12	FCM-D-30/30	FCM-D-30/100	FCM-D-100/100
马达功率(kW) Motor Power	0.12	0.12	0.12	0.12	0.12	0.12	0.12 x 2	0.12 x 2	0.12x 2
马达转速(r.p.m) Rev	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000
搅拌机功率(kW) Mixer Power	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
螺杆外径(mm) Screw External Dia.	16	14	12	16	14	12	**	**	**
输出量(kg/hr) Output Capacity	1.0~32	1.0~20	0.3~10	0.5~15	0.2~8	0.1~4	*	*	*
储料桶(L) Storage Bin	10	10	10	10	10	10	10	10	10
减速比 Gear Ratio	30:1	30:1	30:1	100:1	100:1	100:1	30:1/30:1	30:1/100:1	100:1/100:1
主原料斗 Main Material Hopper	选配 Optional	选配 Optional	选配 Optional	选配 Optional	选配 Optional	选配 Optional	标准 Standard	标准 Standard	标准 Standard
搅拌机 Mixer	选配 Optional	选配 Optional	选配 Optional	选配 Optional	选配 Optional	选配 Optional	标准 Standard	标准 Standard	标准 Standard
脚架 Floor Stands	选配 Optional	选配 Optional	选配 Optional	选配 Optional	选配 Optional	选配 Optional	选配 Optional	选配 Optional	选配 Optional
外形尺寸(mm) Dimensions	H	580	580	580	580	580	580	580	580
	W	530	530	530	530	530	900	900	900
	D	290	290	290	290	290	290	290	290
	净重(kg)Weight	29	29	29	29	29	50	50	50

* 产品规格若有变更，恕不另行通知！Product specifications are subject to change without notice!

注：① “**”表示依客户所选机型决定输出量大小，可参考单色机资料；② “***”表示螺杆外径依客户选型而定；③ 单色机加装搅拌机，机型后面加注“MS”；④ 机器电规格为：1Φ, 230V, 50Hz；⑤ 选配承重底座的搅拌电机功率为0.09KW；⑥ 以上机型输出量是以比重为1.2，直径为2~3mm的色母粒以连续运转方式为测试标准所得的数据；

Note: ① “**” indicates that the output volume is determined according to the model selected by the customer, and can refer to the information of the monochrome machine. ② “***” indicates that the outer diameter of the screw is determined by the customer's selection. ③ Monochrome machine is equipped with a stirrer, and "MS" is added at the back of the machine. ④ The electrical specifications of the machine are: 1Φ, 230V, 50Hz. ⑤ The power of the stirring motor with the load-bearing base is 0.09KW. ⑥ The output of the above models is the data obtained by using the continuous operation as the test standard for color masterbatches with a specific gravity of 1.2 and a diameter of 2 ~ 3mm.

称重式拌料机
Weighing Plastic Mixer



说明：

FGB系列称重式拌料机采用新一代的西门子PLC控制系统、功能更强大、运算速度更快，具有自动补偿功能，在每次开机时能自动校准以确保精度准确。该系列新产品主要应用于塑料射出、押出或中空成型制程上需要多种原料按重量比例做精确混合的使用场合。

The FGB series weighing plastic mixer adopts a new generation of Siemens PLC control system, siemens PLC control system with more powerful functions, faster calculation speed and stronger anti-interference ability. It has automatic compensation function and can be Automatic calibration to ensure accurate accuracy. This series of new products is mainly used in plastic injection, extrusion or hollow molding, where multiple raw materials need to be accurately mixed by weight.

FGB-200-4

本机特点：

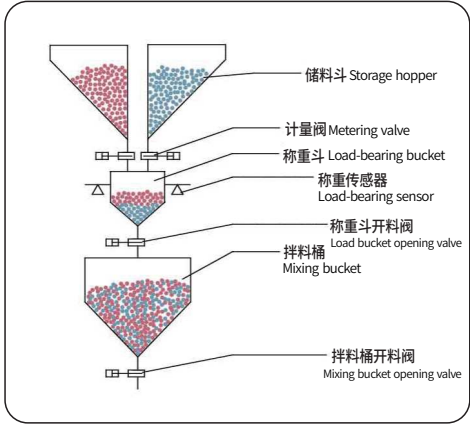
- 采用西门子PLC控制系统设计，功能全面，体积更小，抗干扰能力强；
- 记忆力使用EEPROM，切断电源后设定资料不会丢失，免用电池；
- 使用人机界面状态提示，触摸式键盘资料输入，操作更方便，更可存储大量配方资料(500组)，高速高精度AD抓取重量更快速稳定；
- 所有物料通过重力计算后均匀混合，可严格控制精度；
- 对重量数据及所选择使用的原料进行校验，确保湿料的精度和准确性；可以直接安装在成型设备上，但应选购转接底座；
- 该机用于地面安装时，需选配附有气动截料阀、脚架、储料桶及吸料盒的组合；

Features:

- adopt Siemens PLC control system design, full-featured, smaller size, strong anti-interference ability.
- The memory uses EEPROM, the setting data will not be lost after the power is cut off, and no battery is needed.
- Use human-machine interface status prompt and touch keyboard data input for easier and more convenient operation Store a large amount of recipe data (500 sets), high-speed and high-precision AD grab weight is faster and more stable.
- All materials are evenly mixed after gravity calculation, and the accuracy can be strictly controlled.
- Check the weight data and selected raw materials to ensure the precision and accuracy of the mixture.
- Can be directly installed on the molding equipment, but an adapter base should be purchased.
- When the machine is used for ground installation, it needs to be equipped with a combination of pneumatic cut-off valve, stand, storage bucket and suction box.



工作原理图 Working principle diagram



When the machine starts to work, the storage hopper metering valve is opened according to the preset weight value and the time value calculated by calculating the unit's loading amount. When the loading time is reached, the metering valve is closed and the weight of the weighing pan is detected. Within the error range of the blanking value, it will be transferred to the next storage hopper for measurement. This cycle will be performed until all the hoppers have finished feeding. After the loading is completed, the weighing hopper opening valve opens, and the raw materials fall into the mixing barrel. And start the stirring blade to start stirring, until the set stirring time is reached, the stirring blade stops stirring manually open the material board or automatically open the pneumatic, discharge valve to make the raw materials of the mixing barrel fall into the injection molding machine or storage barrel, and so on.

规格表 Specification

机型 Model		组份数量 Number of components	主计量阀 Main metering valve	次计量阀 Secondary metering valve	最大批处理量 (kg) Maximum batch throughput	拌料马达功率 (kw) Mixing motor power	最大产量 (kg/hr) Maximum output
FGB-40-	4	4	3	1	1	0.25	40
FGB-200-	4	4	3	1	3	0.25	200
FGB-600-	6	6	4	2	8	0.55	400
	4	4	3	1			600
FGB-1200-	6	6	4	2	12	0.55	900
	4	4	3	1			1200
FGB-2000-	8	8	5	3	18	0.55	1200
	6	6	4	2			1600
	4	4	3	1			2000
FGB-3000-	8	8	5	3	40	0.75	2000
	6	6	4	2			2500
	4	4	3	1			3000

* 产品规格若有变更,恕不另行通知! Product specifications are subject to change without notice!

注: ①以上资料是由堆积密度为0.8kg/L直径为3-4mm的均匀颗粒原料以连续转方式测量所得,数值会根据原料的特性变化,如使用不确定物料,请另行商讨;
②主计量阀适用于5%以上的比例,适用于尺寸在6x6x6mm以内的均匀颗粒原料或均匀颗粒回收料; ③次计量阀适用于0.5%-5%以下的比例,适用于尺寸在4x4x4mm以内的均匀颗粒色母或添加剂; ④可配适微量计量阀,适用于0.2%-0.5%的比例,适用于尺寸在4x4x4mm以内的均匀颗粒色母或添加剂
⑤可适配特材计量阀,适用于尺寸在12x12x12mm以内的片料或者不规则粉碎料; ⑥混合配比误差是指各组分的设定百分比的差值,微量计量精度可控制在±0.1%; ⑦附赠一组次计量阀,以便更换配方需要时使用; ⑧搅拌马达采用单相电源;

Note: ① The above information is measured by continuous rotation of uniform granular raw materials with a bulk density of 0.8kg / L and a diameter of 3-4mm, The values will change according to the characteristics of the raw materials. If you use uncertain materials, please discuss separately.
② The main metering valve is suitable for a ratio of more than 5%, and is suitable for uniform granular raw materials or uniform granular recycled materials with a size within 6x6x6mm.
③ The secondary metering valve is suitable for proportions below 0.5% -5%, and is suitable for uniform particle color masterbatches or additives with a size within 4x4x4mm.
④ It can be equipped with a micro-metering valve, suitable for the ratio of 0.2% -0.5%, suitable for uniform particle color masterbatch or additives with a size within 4x4x4mm.
⑤ It can be adapted to special material metering valve, suitable for sheet material or irregular crushed material with the size within 12x12x12mm.
⑥Mixed ratio error refers to the difference of the set percentage of each component, and the precision of micro-metering can be controlled Within ± 0.1%.
⑦A set of secondary metering valves is provided for use when changing the formula.
⑧Three-phase power supply for stirring motor detection.

立式拌料机

Vertical Plastic Mixer



说明:

FVM系列立式拌料机为颗粒,粉末状物料混合机,具有结构简单,容易操作,维护清洗方便,速度快,混合效果佳等特点。主要应用于塑料混合拌料,亦可广泛用于:塑胶、粉末、冶金、陶瓷等行业,是一种理想的混合设备。目前有六种机型,其混料量为25~300kg,可满足客户不同需求。

FVM series vertical plastic mixer for powder, granular material mixer, which has the advantages of simple structure, easy operation, convenient maintenance and cleaning, fast speed, and good mixing effect. It is mainly used in plastic mixing materials and can also be widely used in plastics, powder, metallurgy, ceramics and other industries. It is an ideal mixing equipment. At present, there are six types of machines with a mixing volume of 25 ~ 300kg, which can meet the different needs of customers.

FVM-50

本机特点:

- 料桶采用不锈钢制造,桶内搅拌叶采用不锈钢制造,同时采用抛光处理,光洁度高、容易清洗、无污染;
- 短时间内完成均匀混合,低耗能,高效率;
- 出料口配手动开料板,下料方便;
- 附自动停止装置,可设定0~30min自动停止;
- 连锁安全保护装置,确保操作者自身安全;
- 脚架与机身全部采用焊接工艺,结构牢固;

Features:

- The barrel is made of stainless steel, and the inside of the barrel is made of stainless steel. At the same time, it is polished, which has a high smoothness, easy cleaning and no pollution.
- Complete uniform mixing in a short time, low energy consumption and high efficiency.
- The discharge port is equipped with a manual opening plate, which is convenient for feeding.
- With automatic stop device, it can set 0 ~ 30min to stop automatically.
- Chain safety protection device to ensure the safety of the operator.
- The frame and fuselage all adopt welding technology, the structure is firm.



规格表 Specification

机型 Model	马达功率(KW) Motor Power	马达转速(r.p.m) Motor	混料量(kg) Mixing Capacity	外形尺寸(mm) Dimensions ΦA x H	净重(kg) Weight
FVM-25	1.1	63	25	510 x 1040	90
FVM-50	1.5	63	50	720 x 1090	131
FVM-100	3.0	63	100	850 x 1300	201
FVM-150	4.0	63	150	850 x 1400	287
FVM-200	7.5	63	200	1050 x 1500	435
FVM-300	7.5	63	300	1120 x 1600	496

* 产品规格若有变更,恕不另行通知! Product specifications are subject to change without notice!

注: ①“*”正常混料时间为3min; ②最大噪音值为70dB(A); ③机器电压规格为:3相(Φ)380V,50Hz;
④最大处理量是以比重为0.65,直径为2~3mm颗粒以连续运转方式为测试标准所得数据;

Note: ①“*” normal mixing time is 3min. ② The maximum noise value is 70dB (A). ③ The voltage specification of the machine is: 3Φ, 380V, 50Hz.
④ The maximum processing capacity is the data obtained by using the continuous running method as the test standard for particles with a specific gravity of 0.65 and a diameter of 2 ~ 3mm.

卧式拌料机

Horizontal Plastic Mixer

说明：

此系列料桶及桨叶采用不锈钢材料制作，清洗容易，避免锈蚀。料桶可倾斜100度，方便卸料。连锁安全保护装置，确保操作者及机器设备安全。计时器可在0~30分钟之间选择混料时间。

This series of buckets and paddles are made of stainless steel, which is easy to clean and avoid rust. The bucket can be tilted 100 degrees to facilitate unloading. Interlocking safety protection devices to ensure the safety of operators and machinery and equipment. The timer can choose the mixing time between 0 ~ 30 minutes.

FHM-100



规格表 Specification

机型 Model	功率 Power KW	容量(kg) Capacity	电压(Φ) Voltage	外形尺寸 (mm) Dimensions D x W x H	转速 (rpm) Rotating Speed	净重(kg) Weight
FHM-100	2.2	100	3 相(Φ) 380V	1100 x 800 x 1300	63	285
FHM-150	3	150	3 相(Φ) 380V	1420 x 850 x 1300	63	358
FHM-200	4	200	3 相(Φ) 380V	1580 x 1000 x 1400	63	530

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注：① “*” 正常混料时间为3min； ② 最大噪音值为70dB(A)； ③ 机器电压规格为:3相(Φ) 380V, 50Hz；
④ 最大处理量是以比重为0.65，直径为2~3mm颗粒以连续运转方式为测试标准所得数据；

Note: ① “*” normal mixing time is 3min.
② The maximum noise value is 70dB (A).
③ The voltage specification of the machine is: 3相(Φ) 380V, 50Hz.
④ The maximum processing capacity is the data obtained by using the continuous running method as the test standard for particles with a specific gravity of 0.65 and a diameter of 2 ~ 3mm.

滚筒式混色机

Drum Type Plastic Color Mixer

FRM-50

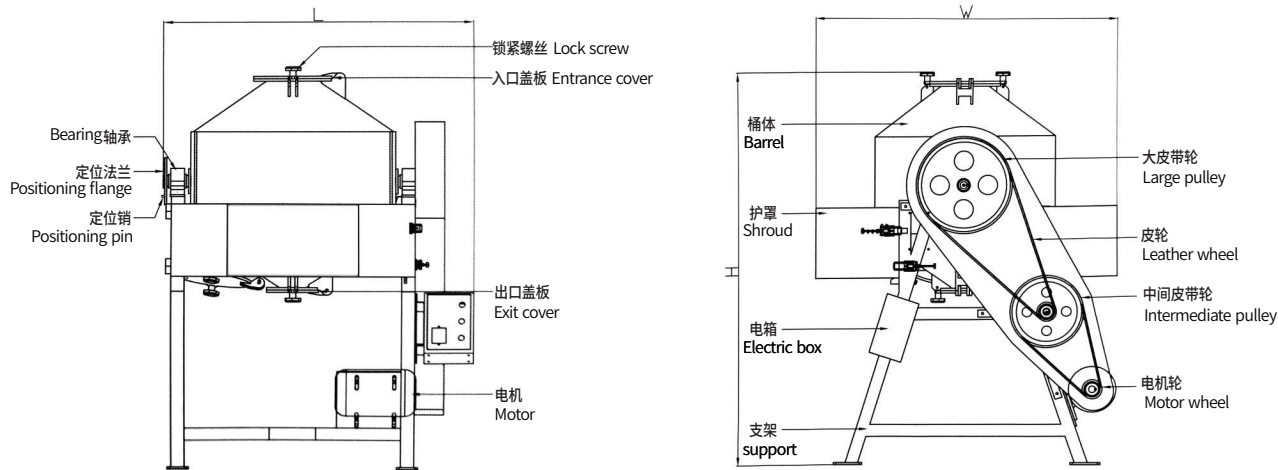
本机特点：

- 桶内采用不锈钢制造，焊接牢固，表面光亮，易清洗；
- 全方位360°旋转混合，入料、出料任意定位，操作方便；
- 保护罩结构合理，美观实用，确保操作安全；
- 计时器可在0~30分钟之间选择混料时间；

Features:

- The barrel is made of stainless steel, with strong welding, bright surface and easy cleaning.
- 360 ° rotation and mixing in all directions, random positioning of feeding and discharging, convenient operation.
- The protective cover has a reasonable structure, is beautiful and practical, and ensures safe operation.
- The timer can choose the mixing time between 0 ~ 30 minutes.

结构图 Structure diagram



规格表 Specification

机型 Model	功率 Power		容量(kg) Capacity	电压(Φ) Voltage	外形尺寸 (mm) Dimensions D x W x H	转速 (rpm) Rotating Speed	净重(kg) Weight
	KW	HP					
FRM-50	0.75	1	50	3 相(Φ) 380V	900 x 890x 1400	46	120
FRM-100	1.5	2	100	3 相(Φ) 380V	1020 x 1100 x 1500	46	147

* 产品规格若有变更，恕不另行通知！Product specifications are subject to change without notice!

FUKEL



振动筛

Vibrating Screen

说明：

FDVL系列振动筛的工作是利用振动电机上产生的离心力得到激振力来实现的。激振力使筛体及物料进行反复上下运动再经过两层筛网的筛选，有效的将物料按照筛网的孔径范围分为3种粗细等级，从而达到理想的筛分效果。

The work of FDVL series vibrating screen is achieved by using the centrifugal force generated by the vibration motor to get the exciting force. The exciting force causes the screen body and the material to move up and down, and then screens through two layers of screens to effectively divide the materials into 3 levels of thickness according to the pore size range of the screen to achieve the ideal screening effect.

FDVL-1300DF

本机特点：

- 设计精巧耐用，操作简单；
- 换网、清洗方便、快捷；
- 杂质粗料自动排出；
- 与原料接触均由不锈钢材料制成；
- 故障少，保养简易，维修方便；
- 机台重量轻，底座配有脚轮，移动摆放轻便；
- 筛网孔径除标准配置外，可根据客户要求定做；

Features:

- Delicate and durable design, simple operation.
- Easy to change screen and clean.
- The magazine coarse material is automatically discharged, which can be automated.
- All raw materials are made of stainless steel to ensure the purity of raw materials.
- Fewer breakdowns, easy maintenance and easy maintenance.
- The machine is light in weight, and the base is equipped with casters, which can be moved and placed lightly.
- Screen diameter in addition to the standard configuration, can be customized according to customer requirements.



规格表 Specification

机型 Model	功率 Power KW	最大激振力(kn) Maximum excitation force	筛网尺寸 (cm) Screen size	筛网层数 Screen layer	筛网孔径 (mm) Hole	外形尺寸 (mm) Dimensions L x M x H
FDVL-1300F	0.09	2	130 x 50	1	Φ3	738 x 1016.5 x 838
FDVL-1300DF	0.25	5	130 x 50	2	上层Φ6/下层Φ3	738 x 1016.5 x 838

* 产品规格若有变更，恕不另行通知！Product specifications are subject to change without notice!

注：① “D”代表双层；
Note: ① "D" stands for double layer.

输送带

Conveyer Belt



性能特点：

- 全机采用高强度铝合金材质制作，超强结构耐久不易变形；
- 双边高度可调整，调整使用方便。手动调整轻松容易；
- 附四个脚轮，移动方便。四支固定脚可以折叠，不用时不占空间；
- 皮带运转速度可以调整，精准可控；
- 附机械手连接标准接头，与机械手连接方便快捷；

Features:

- The whole machine is made of high-strength aluminum alloy material, the super structure is durable and not easy to deform.
- The height of the two sides can be adjusted, which is easy to adjust and use. Easy handwheel adjustment.
- With four casters, easy to move. Four fixed feet can be folded without taking up space when not in use.
- The belt operation speed can be adjusted, accurate and controllable.
- The belt operation speed can be adjusted, accurate and controllable.



齿啃式慢速粉碎机
Low Speed Crusher

说明:

FG系列齿啃式慢速粉碎机采用齿啃式刀具搭配切断刀之设计原理, 可以达到无粉尘的粉碎效果。该机还配备有多重保护装置, 操作安全。此系列适用于坚厚细长或韧性较强的水口料之立即回收与少量废料粉碎。

FG series low speed crusher adopts the design principle of tooth gnawing cutter combined with cutting cutter to achieve dust-free crushing effect. The machine is also equipped with multiple protective devices for safe operation. This series is suitable for the immediate recovery of thick, thin or strong toughness of the nozzle and crushing a small amount of waste.

FG-1.5HP-M

本机特点:

- 采用台湾减速马达, 性能稳定, 寿命长, 传动扭矩大;
- 采用齿刀、爪刀一体化设计;
- 结构严谨, 节省空间, 清扫方便快捷;
- 进料箱采用透明PC制作, 视窗方便;
- 无筛网设计, 粉碎颗粒均匀, 粉末含量少, 可立即与新料混合使用;



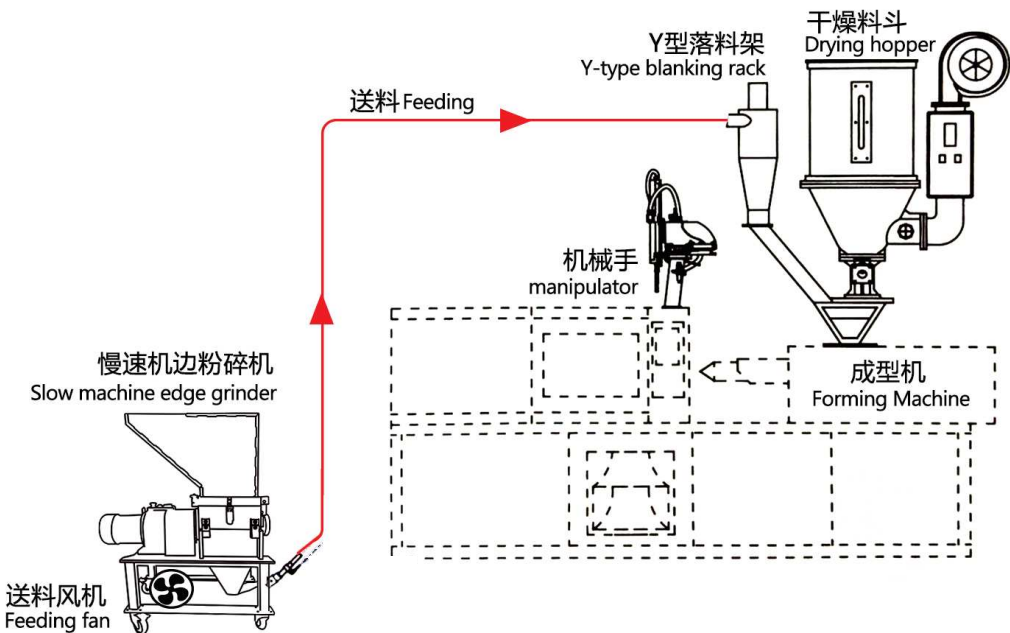
Features:

- Adopt Taiwan reducer motor, stable performance, long life and large transmission torque.
- Integrated design of tooth knife and claw knife.
- Rigorous structure, saving space, convenient and quick cleaning.
- The feeding box is made of transparent PC, and the window is convenient.
- No sieve design, uniform crushed particles, very little powder content, can be mixed with new materials immediately.



齿型刀具
Tooth cutter

风机送料+Y型落料架安装示意图
Fan feeding + Y-type blanking rack installation diagram



规格表 Specification

机型Model	FG-1.5HP-M	FG-2HP-M	FG-3HP-M
电机功率(KW) Motor Power	1.1	1.5	2.2
转速 (rpm,50HZ) Rotating Speed	24	24	24
齿刀材质 Material of Tooth knife	SKD61	SKD61	SKD61
固定刀数量(把) Number of fixed knives	6	6	8
旋转刀数量 Number of rotary moving knives	3	3	4
回旋刀数量 Number of rotary knives	2	2	3
粉碎口径尺寸(mm) Cutting Chamber	315 x 248	315 x 315	315 x 420
最大粉碎能力(kg/h) Max.Throughput Capacity	15-20	20-25	25-30
粉碎时噪音Db(A) Noise during crushing	65-73	65-73	65-75
30秒立即回收系统 30secs.Instant Re	选购	选购	选购
风机送料+Y型落料架(BC型) Regrind Conveyeyor	选购	选购	选购
粉尘分离器 Dust separator	选购	选购	选购
欧化两料比例阀 Europeanized two-material proportional valver	选购	选购	选购
人工收集型储料箱 Manual collection type storage box	选购	选购	选购
外形尺寸(Lx W x H mm) Dimensions	900 x 450 x 1200	1100 x 500 x 1480	1200 x 500 x 1560
重量(kg) weight	210	275	320

* 产品规格若有变更,恕不另行通知! Product specifications are subject to change without notice!

注: ①进料口及储料箱改为不锈钢, 机型后加注“R”; ②最大粉碎能力取决于粉碎料的大小和材质; ③粉碎时的噪音因粉碎料和马达的配置而不同; ④SKD为日本JIS标准编号; ⑤齿刀宽度为5mm为标准品, 加宽型齿刀为选购品; ⑥为避免塑胶粘刀, 所有待粉碎料的温度应在常温状态下进行粉碎; ⑦机器标准电压规格为:3相(Φ),380V, 50Hz;

Note: ① The inlet and storage box are changed to stainless steel, and "R" is added after the model. ② The maximum crushing capacity depends on the size and material of the crushed material. ③ The noise during crushing varies with the configuration of the crushing material and the motor. ④SKD is the Japanese JIS standard number. ⑤The width of the tooth knife is 5mm as a standard product, and the wide tooth knife is an optional product. ⑥ In order to avoid plastic sticking knife, the temperature of all materials to be crushed should be crushed at normal temperature. ⑦The standard voltage specifications of the machine are: 3Φ, 380V, 50Hz.

中速粉碎机
Medium speed crusher

说明：
爪刀式中速粉碎机，适合于机边水口料粉碎，该系列粉碎机操作方便，品质优异，价格合理，采用欧化造型，体积小
低速低噪音；粉尘少，刀具使用寿命长，并且符合欧洲安全标准。
Claw-knife type medium-speed crusher, suitable for crushing nozzle material on the side of the machine. The modified series of crushers
are easy to operate, excellent in quality and reasonable in price. They adopt European style, small size, low speed and low noise. European
safety standards.

FG-3HP-Z

- 机身体积小，底部装有脚轮，移动方便；
- 最佳剪切角度，可有效处理废料；
- 低转速和隔音料箱，可有效降低粉碎时所产生的噪音；
- 爪刀式转子设计，切削效率高，能量损耗小；
- 粉碎料颗粒均匀，低粉尘；
- 易于拆装的设计，维护保养省时省力；
- 低速回转，锐角动刀的设计有助于粉碎机运作更平稳；
- 针对含玻纤材料粉碎，粉碎室可装配HT300材质。

Features:
The body is small in size and equipped with casters at the bottom for easy movement;
Optimal cutting angle, which can effectively treat waste materials;
Low speed and sound-proof material box can effectively reduce the noise generated during crushing;
Claw blade rotor design, high cutting efficiency and low energy loss;
The crushed material has uniform particles and low dust;
Easy disassembly design, saving time and effort in maintenance;
Low-speed rotation, the design of the acute-angle moving knife helps the mill to operate more smoothly;
For crushing glass-containing materials, the crushing chamber can be equipped with SKD material.



选购配件
Optional accessories



比例阀
Proportional valve

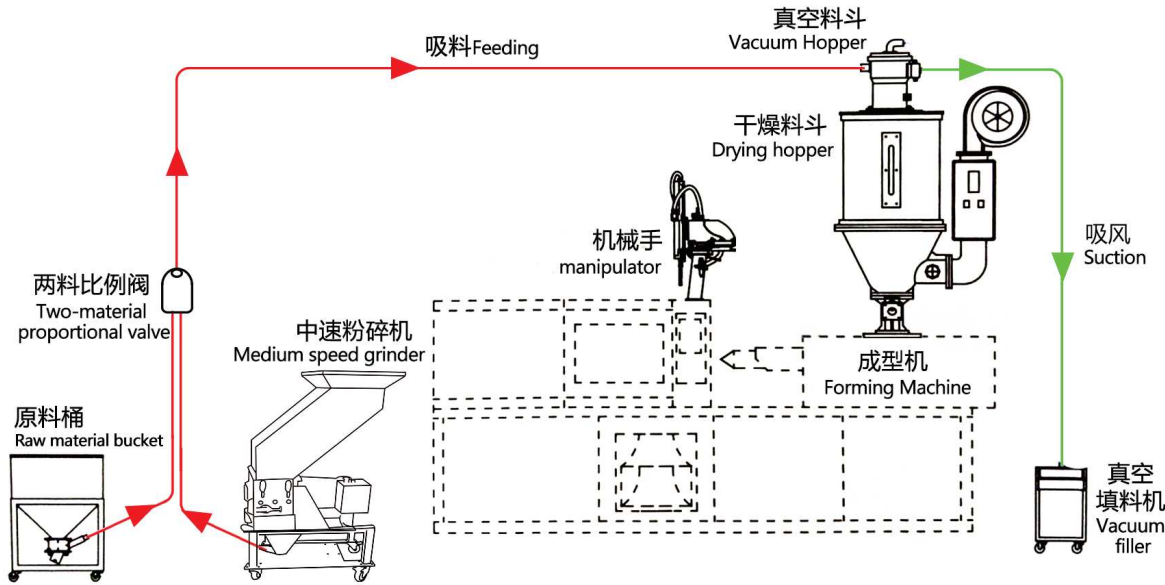


高压风机
High-pressure fan



Y型落料架
Y-type blanking rack

自动吸料机+比例阀安装示意图
Installation of automatic suction machine + proportional valve



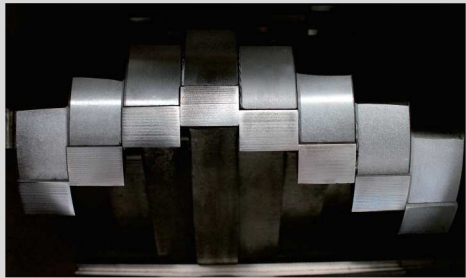
规格表 Specification

机型Model	FG-3HP-Z	FG-5HP-Z	FG-5HP-Z-G(加强型)
电机功率(KW) Motor Power	2.2	3.7	3.7
转速(rpm,50HZ) Rotating Speed	150	150	150
齿刀材质 Material of Tooth knife	SKD61	SKD61	SKD61
固定刀数量(把) Number of fixed knives	4	4	4
旋转刀数量 Number of rotary moving knives	24	30	45
投料口尺寸(mm) Feed opening size	430*420	530*420	440*665
粉碎口径尺寸(mm)Cutting Chamber	234*280	290*280	420*280
最大粉碎能力(kg/h) Max.Throughput Capacity	50-100	70-150	100-200
粉碎时噪音Db(A) Noise during crushing	85-90	85-90	85-90
30秒立即回收系统 30secs.Instant Re	选购	选购	选购
风机送料+旋风集成器(BC型) Regrind Conveyor	选购	选购	选购
粉尘分离器 Dust separator	选购	选购	选购
欧化两料比例阀 Europeanized two-material proportional valver	选购	选购	选购
人工收集型储料箱 Manual collection type storage box	选购	选购	选购
外形尺寸(Lx W x H mm) Dimensions	800*500*1200	900*500*1200	1000*500*1200
重量(kg) weight	150	160	200

* 产品规格若有变更，恕不另行通知！
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- 注：
- ①最大粉碎能力取决于粉碎料的大小和材质；
 - ②粉碎时的噪音因粉碎料和马达的配置而不同；
 - ③机器标准电压规格为：3相(Φ) 380V，50Hz；

Note:
① The maximum crushing capacity depends on the size and material of the crushed material.
② The noise during crushing varies with the configuration of the crushing material and the motor.
③ The standard voltage specifications of the machine are: 3Φ, 380V, 50Hz.



爪型刀具
Claw cutter saddle

集中强力粉碎机

High Speed Crusher

说明：

FG-Y-D-P系列粉碎机，分为爪型破碎机系列，平行破碎机系列，片型破碎机系列，以上机型适用面广，供各种类型塑料制品，粉碎回收利用。

FG-Y-D-P series crushers are divided into claw crusher series, parallel crusher series, and sheet crusher series. The above models are widely applicable for various types of plastic products, crushing and recycling.

适用于各种塑料粉碎再利用，尤其对各类硬性塑料(如料头、鞋楦料等)效果更佳

FGY系列破碎机操作方便，换刀简单快捷；刀架优化设计，爪型刀可分散受力度使得每片刀的剪切加大，适合破碎厚材料，硬质料块，料头等，有效的提高了刀具切削力、减少刀具磨损；采用电控安全设计，料斗采用变层结构，内填隔音材料，使得设备具有良好的安全性及环保性，省电耐用。

It is suitable for crushing and recycling various plastics, especially for all kinds of rigid plastics (such as material heads and shoe last materials).

FGY series crusher is easy to operate, and the tool change is simple and fast. The optimized design of the blade holder can disperse the force of the claw blade, which makes the shear of each blade increase. Improved cutting force and reduced tool wear

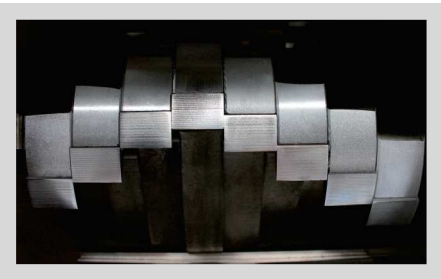
Equipped with electronically controlled safety design, the hopper adopts a variable layer structure and is filled with sound insulation materials, which makes the equipment have good safety, environmental protection, power saving and durability.

适用于箱类、薄管件、吹塑件、瓶胚、薄膜等塑料的回收。FGD系列破碎机操作方便，换刀简便快捷，平型刀宽大的结构适合破碎大体积薄壁、圆管类产品，提高破碎效率；采用电控安全设计，料斗采用双层结构，马达附有超负荷保护装置、电源连锁保护系统，使得设备具有良好的安全性及环保性，省电耐用。

It is suitable for the recycling of plastics such as boxes, thin pipe fittings, blow-molded parts, preforms and films. FGD series crusher is easy to operate, easy and quick to change tools. The flat blade has a wide structure suitable for crushing large-volume thin-walled, round-tube products to improve crushing efficiency. It adopts an electronically controlled safety design. The load protection device and power chain protection system make the equipment have good safety, environmental protection, power saving and durable.

片型刀结构介于爪刀、平刀之间，适合破损普通片材、管材、板材及包装材料等塑料制品、浇道口。通用型塑料粉碎机，采用密闭轴承，使轴承转动长时间保持良好，刀型设计合理，产品颗粒均匀；刀座热缩处理，外形设计美观大方。

The blade knife structure is between claw knife and flat knife, which is suitable for damaging ordinary plastic products such as ordinary sheets, pipes, plates and packaging materials, and sprues. The universal plastic shredder adopts sealed bearings to keep the bearings rotating well for a long time; the knife design is reasonable and the product particles are uniform.the knife seat is heat-shrunked and the design is beautiful and elegant.



爪型刀具
Claw cutter saddle



平型刀具
Flat cutter saddle



片型刀具
Blade cutter saddle



FGP-600



FGP-400



FGP-180

FGP规格表(片型) FGP specification sheet (chip type)

机型 Model		FGP-180	FGP-230	FGP-300	FGP-400	FGP-500	FGP-600	FGP-700
粉碎口径尺寸(mm) Cutting Chamber		185 x 165	265 x 220	310 x 230	410 x 270	500 x 320	610 x 320	710 x 460
粉碎能力(kg/h) Crushing capacity		50-100	100-150	150-200	200-250	300-350	350-450	450-600
固定刀 Fixed knife		2	2	2	2	2	2	2
旋转刀 Rotary knife		6	6	9	12	15	18	21
功率 Power	KW	2.2	4	5.5	7.5	11	15	21
	HP	3	5	7.5	10	15	20	30
外形尺寸(L x W x H mm) Dimensions		750 x 550 x 910	950x620x1190	1000x720x1290	1030x840x1390	1230x1010x1630	1320x1110x1830	1400x1200x2700
重量(kg) weight		130	240	300	400	550	680	1200

FGY规格表(爪型) FGY specification table (claw type)

机型 Model		FGY-250	FGY-400	FGY-500	FGY-600	FGY-700	FGY-790
粉碎口径尺寸(mm) Cutting Chamber		250 x 200	400 x 280	500 x 320	600 x 320	700 x 480	790 x 550
粉碎能力(kg/h) Crushing capacity		100-200	200-300	300-500	300-400	450-600	600-800
固定刀 Fixed knife		2	2	2	2	2	4
旋转刀 Rotary knife		12	18	21	21	27	27
功率 Power	KW	4	7.5	11	15	22/30	37/45
	HP	5	10	15	20	30/40	50/60
外形尺寸(L x W x H mm) Dimensions		950 x 620 x 1200	1070 x 840 x 1390	1240 x 940 x 1630	1390 x 1070 x 1840	1750 x 1430 x 2280	1960 x 1710 x 2770
重量(kg) weight		300	400	550	650	1200	1800

FGD规格表(平型) FGD specification table (flat type)

机型 Model		FGD400	FGD500	FGD600	FGD800	FGD815	FGD960
粉碎口径尺寸(mm) Cutting Chamber		400 x 280	500 x 320	600 x 320	700 x 470	815 x 520	960 x 610
粉碎能力(kg/h) Crushing capacity		200-300	250-350	300-400	450-600	550-700	600-800
固定刀 Fixed knife		2	2	4	4	4	4
旋转刀 Rotary knife		6	4	6	9	12	12
功率 Power	KW	7.5	11	15	22/30	37	37
	HP	10	15	20	30/40	50	50
外形尺寸(L x W x H mm) Dimensions		1000 x 840 x 1390	1240 x 940 x 1630	1390 x 1070 x 1840	1730 x 1490 x 2300	1830 x 1660 x 2450	1950 x 1760 x 2740
重量(kg) weight		420	566	680	1800	1900	3000

* 产品规格若有变更，恕不另行通知！Product specifications are subject to change without notice!

供料输送配件区

Feeding conveyor accessories area



真空料斗
Vacuum hopper



电眼料斗
Electric eye hopper



高压风机
High-pressure fan



吸料机滤芯
Suction machine filter



干燥风机
Dry air blower



磁力底座
Magnetic base



磁力架
Magnetic stand



加热圈
heating



吸料机电机
Suction machine motor



旁管电机
Side tube motor



电机外罩
Motor housing



吸料机电脑板
Suction machine computer board



干燥机电热管
Dry electromechanical heat pipe



A型加高落料架
A-type heightened blanking rack



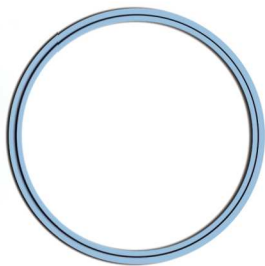
A型移动放料架
A type mobile discharge rack



L型移动架
L-shaped moving frame



碳刷
Carbon brush



吸料机密封圈
Suction machine seal



玻璃管
Glass Tube



集料桶
Aggregate barrels



干燥机筛网
Dryer screen



干燥机变压器
Dryer transformer



长新温控器
Changxin Thermostat



单头加热管
Single head heating tube



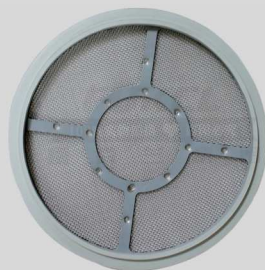
斜口胶
Bevel glue



聚尘袋
Dust bag



下料口挡板
Blanking gate



吸料机过滤网
Suction machine filter



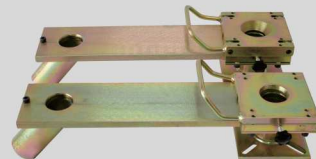
吸料盒
Suction box



单管热风回收
Single tube hot air recovery



电热管
Heater



干燥机滑板
Drier slide

除湿干燥配件区

Dehumidification and drying accessories area



冷热交换配件区
Cold and heat exchange parts area



CM-50 220V 木川泵
CM-50 220V Muchuan Pump



立式管道泵
Vertical pipe pump



YS-15A元欣泵
YS-15A Yuanxin pump



YS-35D元欣泵
YS-35D Yuanxin pump



LTR-5CSRE温控器
LTR-5CSRE Thermostat



AC1-5TS2RW温控器
AC1-5TS2RW Thermostat



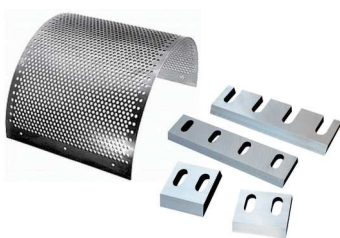
MTR12温控器
MTR12 Thermostat



RDC22温控器
RDC22 Thermostat



除湿机蜂巢转轮
Honeycomb wheel of dehumidifier



粉碎机筛网 刀片
Crusher screen blade



铁弗龙油管
Teflon tubing



分流器
Shunts



模温机电脑板
Die temperature circuit board



GW531B冷水机电脑板
GW531B chiller computer board



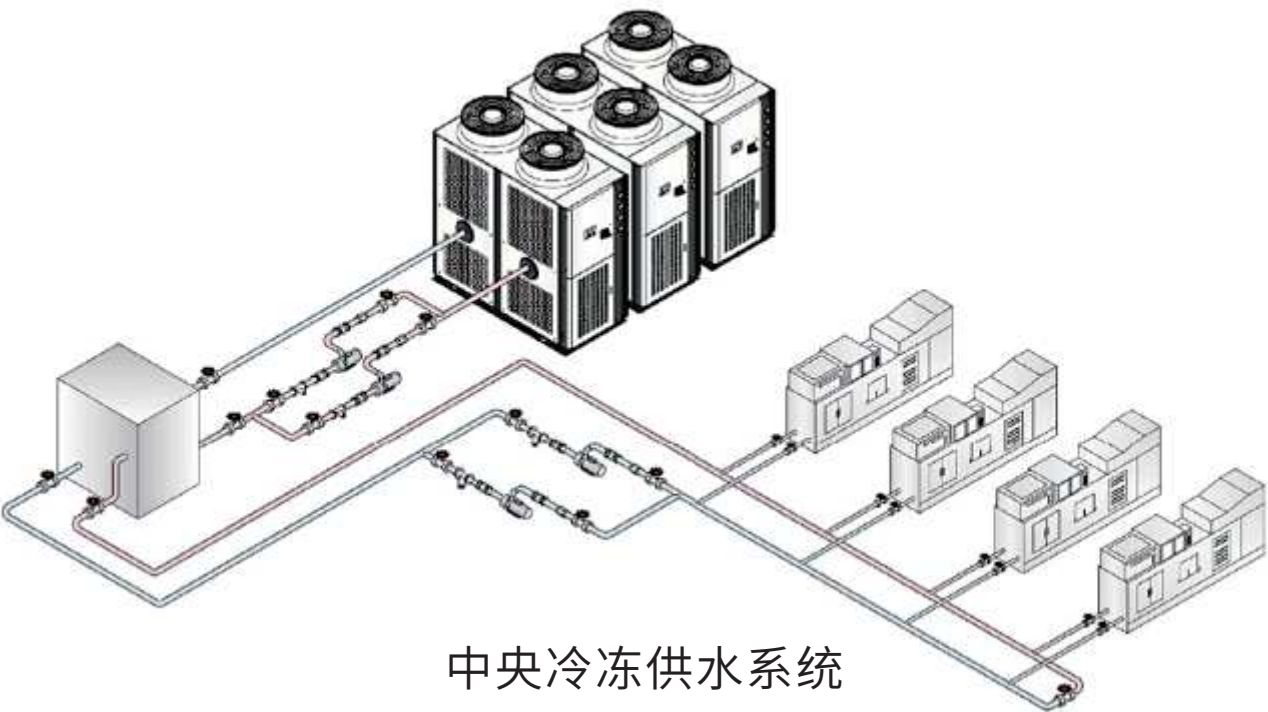
大金压缩机
Daikin compressor



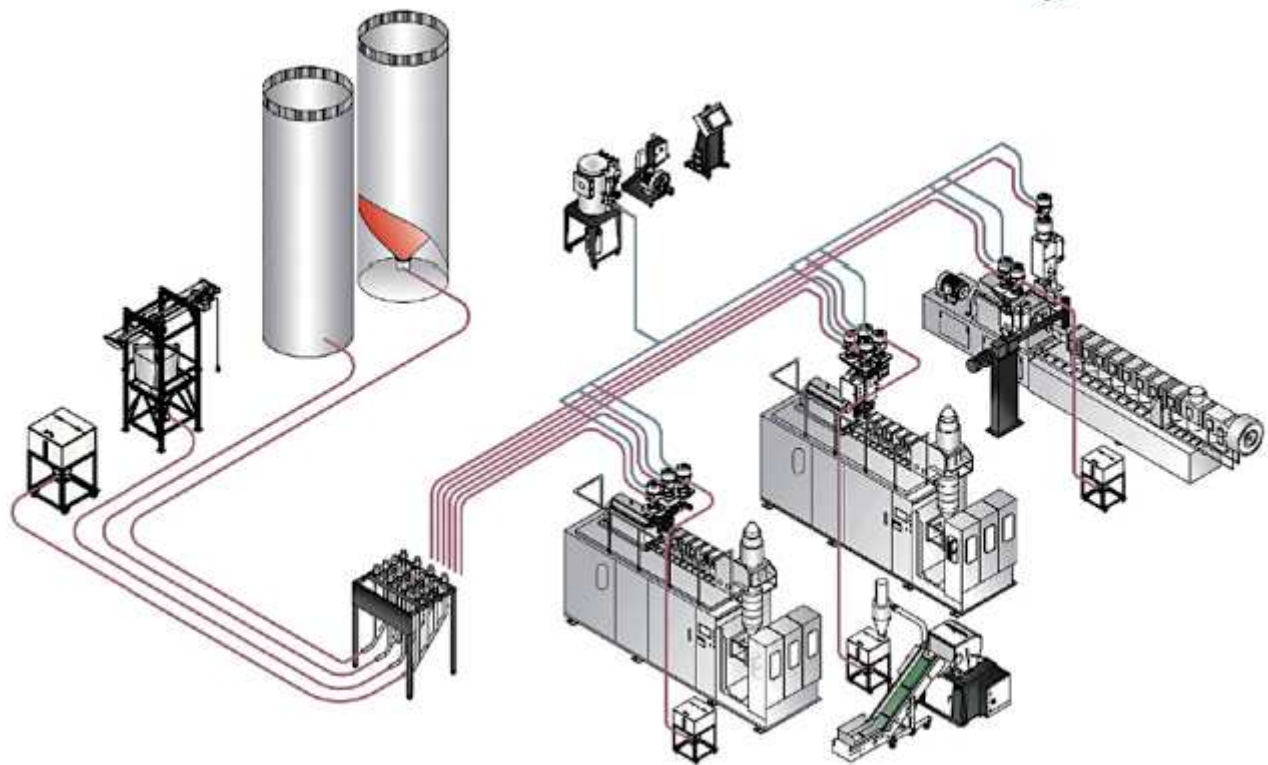
导热油
Thermal oil

系统化中央式解决方案
Systematic centralized solution

FUKEL



中央冷冻供水系统



挤出吹塑供料系统