

# Shini Group

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- Ningbo
- Pinghu
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Pune

Profile 公司简介

www.shini.com Simple Solution



# 发展

1969年,吴一夫先生在台北 成立信一电器行, 主要经营电 热片、电热管、电机维修及电 控箱设计装配。1975年,信 一电器行开始生产SHD料斗干 燥机,正式跨入塑料辅机行 业, 1978年更名为"信易电热 有限公司",信易由此正式诞 生。

## 行业协会

中国塑料机械工业协会 副会长单位

中国塑料加工工业协会 注塑制品专业委员会理事单位

# 目标市场

注塑成型 | 挤出成型

中空成型 | 模压成型

智能成型 | 整厂规划

中国塑机优势企业

荣誉

国家级专精特新 "小巨人"企业

中国驰名商标

国家知识产权优势企业

国家高新技术企业

# 二维码













# Development

In 1969, Shini Electrical Work Shop was established in Taipei by the chairman Mr. I-Fun Wu. Its primary products include a band heater, pipe heater, motor service, design, and assembly for the control box. In 1975, Shin I Electrical Work Shop began producing the classic SHD hopper dryer and entered the plastic material handling equipment industry. In 1978, Shin I Electrical Work Shop was renamed "Shini Electric Heaters Co., Ltd." Since then, Shini has been officially established.

## **Industry Association**

China Plastics Machinery Industry Association Vice President Unit

China Plastics Processing Industry Association Governing unit of association of Injection Moulding Product

# Profession

Plastic Injection Plastic Extrusion

Blow moulding Compression moulding

Thermoforming Turnkey solution

#### Honor

China's leading enterprise in plastic machinery

National specialized, refinement, differential, and innovation "Little Giant" Enterprise

China Famous Trademark

National Intellectual Property Advantage Enterprise

National high-tech enterprises

# QR code











华南信易(东莞厂) South China (Dongguan) Factory Started in 1992

华东信易(宁波厂) East China (Ningbo) Factory Started in 2001

华东信易(平湖厂) East China (Pinghu) Factory Started in 2010



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Corporate Technology Center

Started in 2005



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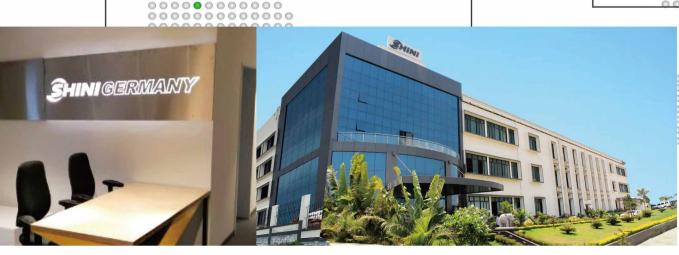
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信易德国分公司 Shini Germany Office Started in 2013

印度信易 Shini India Started in 2010



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越南信易 CONG TY TNHH VSP Vietnam (Shini Vietnam) Started in 2022

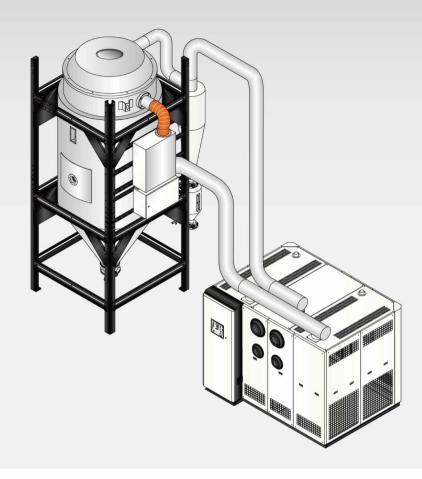
总公司及新北厂 Headquarters & New Taipei Factory Started in 2006

# **除湿干燥系列**Drying and Dehumidifying



SCD 欧化除湿干燥送料组合 "All-in-One" Compact Dryers 在对吸湿性塑料成型制程中,干燥成为 尤为关键的阶段,必须确保原料中的水 分被除去并且干燥温度合理。信易的蜂 巢转轮除湿技术可提供持续稳定的湿度 和温度的空气,保证生产效率和质量。 我们也提供热风干燥料斗供您选择,主 要用于去除非吸湿性热塑性塑料表面的水

In hygroscopic plastic, material drying becomes one of the essential steps in the process. The moist material must dry at the correct temperature and time. The desiccant wheel dehumidifying dryer can deliver constant low dew-point air and ensure production efficiency and quality. We also provide a classic hopper dryer for the drying process of non-hygroscopic material.



转轮除湿机SD-H-C与干燥料桶 DH-U-PH组成大型除湿干燥系统, 可分为地面及平台安装型两种。若 原料中粉尘过多污染原料,可选用 旋风集尘器ACF。

The dehumidifying dryers system consists of Honeycomb Dehumidifier SD-H-C and Hopper Dryer DH-U-PH. It includes the floor stand version or the customized platform version. If too much dust contaminates the material, cyclone dust-collector ACF can be an option.



SD-H 转轮除湿机 Honeycomb Dehumidifiers



SDD 欧化除湿干燥组合 Dehumidifying Dryers

转轮除湿机可提供-40°C 或更低露点干燥空气,并可实现适时监控各项参数及确保露点恒定,干燥空气流量可高达4,000m³/hr。

采用全分子筛蜂巢除湿,相比硅胶吸附 式蜂巢除湿效果更好。

采用P.I.D.温度控制系统,可精确控制 温度。可选购PLC控制搭配LCD触控式 人机界面,更能方面操作及监控。

可选装多种类型的节能装置,实现节能减排,综合节能值最高可达70%。

A desiccant wheel dehumidifying dryer can provide a constant low dew-point air of -40°C or lower. Also, it can achieve continuous detection of all the crucial parameters and maintain the dew-point. The largest can provide dry air up to 4000m<sup>3</sup>/hr.

The molecular sieve desiccant wheel offers much more advantages over the silica gel desiccant wheel.

The unit uses a P.I.D. temperature controller for precise control of temperature. The optional PLC control and HMI offer flexibility and the same level of performance.

Various optional energy-saving devices are available to realize energy saving and emission reduction. In a large dehumidified drying system, as much as 60% of energy can be saved.



SHD-U 欧化料斗干燥机 Hopper Dryers



智能模块化除湿干燥组合 Smart Modular Dryer

料斗干燥机采用一周定时自动开关机功能,以达到省电目的。可选装控制系统根据当前料位高低,采用变频控制技术来自动调整干燥风量大小,将干燥桶调整至最合理的热能工作状态,以达成理想的烘干效果。干燥风量的降低,即为干燥电热能源消耗的降低,可节省能源超过20%。提供20L~8000L的料桶容量供选择。

智能模块化除湿干燥组合采用模块化的结构,可拆式的脚架方便随时移动与扩充,可同时搭配1对多个干燥料桶进行除湿干燥作业,可精确控制进入到每个干燥桶的干燥风量。

Shini hopper dryer utilizes a programmable weekly timer to maximize energy consumption and efficiency.

An optional energy control system using energy management software and inverter control technology. The control system will automatically adjust the airflow according to the temperature profile to optimize the working process of the drying hopper to deliver the optimal drying result and energy consumption. Management of optimal airflow will lead to a power reduction from the drying heater and realize as much energy saving as 20% or

Optional hopper capacities of 20L~8000L are available.

Shini smart modular dryer embraces a modular structure. A detachable floor stand is convenient for moving and extension at any time. One dehumidifier and several drying hoppers can centrally dry several materials, precisely controlling the drying air quantity in each drying hopper.

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# 除湿干燥系列

# Drying and Dehumidifying





SHD-E料斗干燥机可用于对大多数不易吸湿的塑料原料进行 干燥,如PS、PP、ABS等,最高干燥温度可达160℃。另 有诸多配件供选用,可实现热风回收可利用、过滤原料中铁 屑杂质等功能,亦可搭配脚架实现落地式安装。可提供 12kg~600kg的料桶供选择。

SHD-E hopper dryers are used to dry non-hygroscopic plastics, such as PS, PP, ABS...etc., which can reach the highest drying temperature of up to 160°C. In addition, the unit has multiple optional accessories to realize different process needs, such as recycling hot air, floor stand, and filtering metal impurities in the materials. Optional hopper capacities of 12kg~600kg are available.

SHD-E 料斗干燥机 Hopper Dryer



SND氮气干燥机 Nitrogen Dryer



SMD 模具除湿机 Mould Dehumidifier

氮气干燥机主要针对光学级注塑制品 干燥,填充氮气可以防止注塑原料在 干燥过程中变黄, 并且经过制氮膜过 滤后得到的氮气露点极低, 可保证对 塑胶材料有效干燥。干燥温度可达 140°C。

各种制程条件。

material in plastic injection. It fills the unit with nitrogen to contain the plastic materials from oxidation and yellowing during over-drying. Besides, the nitrogen dew point is very low after being filtered by the nitrogen membrane, and the drying temperature can reach 140°C.

SND series is used for drying optical-grade

模具除湿机能有效的解决因模具使用冷 Shini mould dehumidifier can effectively keep the injection mould free from condensation. 冻水来缩短成型周期而使模具外壳和型 This ensures stable moulding conditions for 腔形成冷凝水的问题, 保证稳定的成型 rapid cycle times and maximizes the PET 条件和PET系统的最大生产能力。除湿 system's production capability. The units are 风量从500~3000m3 /hr不等,满足 capable of capacity up to the quantity of 500~3000m3/hr of dry air.



SICR结晶送料组合 Crystallizing System SICR结晶送料组合包括加热装置、保温料桶、搅拌组件、填料装 置、送料装置。当未晶相化的PET原料进入料斗后,对其进行结晶处 理,同时进行搅拌,可防止原料结块。结晶后的塑料可以从料斗 底部输送到储料桶或直接输送到干燥料桶中干燥后使用。

This system mainly consists of heating elements, an insulated hopper, an agitator assembly, a material loader, and a material conveying loader. A transparent clear color identifies the non-crystallized PET (also known as Amorphous PET) materials fed into the crystallizing hopper. Amorphous PET should be crystallized by heating the material above the glass transition temperature (Tg) of 80°C (180°F) and agitating the material during softening status before further drying the PET at the higher temperatures. The system starts crystallization with an agitator to prevent materials from sticking and forming a large lump. The crystalline PET is discharged to the material storage hopper from the bottom or directly to the drying hopper for further drying.



SCR PET結晶机 PET Crystallizers



SCAD-U 空压式干燥机 Compressed Air Dryer

PET结晶机SCR与SICR结晶送料组合 功能类似,但没有集成输送功能,可灵 活定制搭配各种输送装置使用, 结晶料 桶容量为160~2500L不等。

PET crystallizer SCR has similar functions with Shini Crystallizing System SICR, but without integrated conveying function, which can be flexibly collocated with various conveying devices. The crystallizing hopper capacity varies from 160~2500L.

SCAD-U 空压式干燥机无需风机,直接 使用加热后的压缩空气对小批量塑料, 如ABS、PS等塑料进行成型前预热处 理。最高温度可达160℃。提供1~40L 的料桶供选择

SCAD-U, a compressed air dryer for drying small volumes of engineering plastics such as ABS and PS. It is also suitable for pre-heating of material before plastic moulding. The max. drying temperature can reach 160°C, and optional hopper capacities of 1~40L are available.

# 供料输送系列 Feeding and Conveying



SAL-U Self-contained Hopper Loaders 直结式和分离式真空填料机, 利用风机 在料斗内形成真空, 使料斗内产生压力 差,实现塑胶原料的自动输送,并确保 无污染和浪费。整体输送包括适合不同 条件下吸料机和料斗, 最高输送量可达 2,000kg/hr,输送距离可达100米。

Shini "Standard" Self-contained Hopper Loader and "Standard" Separate-vacuum Hopper Loader both use the blower to generate the vacuum and pressure difference inside the hopper, thus achieving auto conveying of plastic materials without contamination and wastes. The conveying system comprises different hopper loaders and hopper receivers with a conveying capacity of up to 2,000kg/hr and a conveying distance of 100m.



欧化分离式真空吸粉机系列用于塑料颗 粒与粉体混合物或者全粉体的输送,标 准配备逆洗功能,确保物料顺畅输送。

SAL-UGP separate hopper loaders are suitable to convey the mixture of plastic granules and powder or all powders. It is standard equipped with the reverse purging function to ensure smooth conveying.

欧化直结式真空填料机



SAL 直结式真空填料机 "Standard" Self-contained Hopper Loaders



SAL-UG 欧化分离式真空填料机 Separate-vacuum Hopper Loaders

与原料接触的部分采用不锈钢材质,配 备过滤装置,有效确保了塑料原料在输 送过程中不被污染。

配备布质过滤网及自动清洗装置, 在此 基础上全系列配备手动控制开关,方便 机器安装于高处时进行电源切换。

可直接安装在干燥桶上或成型机入料口 实现自动输送。

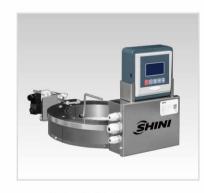
欧化分离式真空填料机采用高压风机为 动力核心,具有不易损坏,吸力大,使 用寿命长等优点。

控制方面使用LCD显示屏搭配微电脑 控制器, 其具有独立的混料与截料输出 功能,可直接控制两料比例阀SPV-U 和截料阀SBU。标配RS485通讯接口 和声光警报装置。

The part in contact with the materials is made of stainless steel and equipped with a filter device. This effectively ensures that the plastic materials are free from contamination.

It is equipped with a cloth filter and an automatic purging device. The entire series is equipped with a wired control switch to facilitate the machine installed at a high location. It can be directly mounted at the feed port of the drying hopper or injection moulding machine to realize auto conveying.

The U series separated hopper loaders feature a high-pressure blower as the vacuum source. The blower has the advantages of a robust structure, strong vacuum, long service life, and much more. The unit is comprised of an LCD and microcomputer controller. The control has independent proportion mixing and line cleaning output, and it can directly control the material



吸粉式真空填料机

Vacuum Powder Loader

SMM 料斗原料消耗检测器 Material Consumption Monitor for Hopper Receiver



SHR-U-V(SV)欧化型真空料斗 Vacuum Hopper Receiver

可实时监控原料消耗,操作人员根据原 料消耗数据与合格产品量,统计出产品 的合格率, 监控生产。也可按需供料干 燥,减少传统干燥换料时间,提高生产 效率。

可以通过钢化玻璃观察斗内的原料量和 状态,料斗采用不锈钢贴合钢化玻璃制 造,确保原料不受污染;标准配备钢丝 过滤网、真空分离阀。

The material consumption monitor SMM is suitable for a hopper loader and receiver with a line cleaning function to monitor material consumption in real-time. The operator can document the product rate and control the production according to consumed material data. SMM also can supply drying materials on demand to reduce the conventional drying and replacing time and improve the production process.

The hopper receiver is made of stainless steel and tempered glass to ensure no contamination. The material level and status can be checked via tempered glass. The receiver has a standard steel mesh filter and a vacuum-breaking valve.

# 混合拌料系列 Dosing and Mixing



SGB 秤重式拌料混合机 Gravimetric Blenders 本系列产品包含了各种类型的混合计量设备,可完成各种不同类型的工艺需求,实现了体积式、称重式及失重式等不同主流计量技术的混合应用,满足各种个性化工艺需求。

This series of products includes all kinds of mixing, metering, and dosing equipment, which can meet various process requirements. We realize the application with different metering technologies such as volumetric, gravimetric, and loss-in-weight and fulfill various process needs.



SCM 計量式色母混合机 Volumetric Dosers

SGD 秤重式色母混合机 Gravimetric Dosers



SPM 容积式比例混合机 Proportional Mixer

秤重式拌料混合机SGB的产量范围为 40-3000kg/hr,计量组分从4到8组分不 等。

特殊的高温型秤重式拌料混合机设计包括 秤重传感器及料位检测器,可应对高温原 料处理。

SGB和SGD控制器配备以太网功能,配合相应软件,可通过此通讯功能读取原料配比数据如最大产量、实际产量、配比精度)以便于产品质量控制。

SGB具有回收料自动补偿功能,可根据回收料下料量的多少自动计算色差补偿。

秤重式色母机SGD采用失重计量方式,生产范围为0.04-60kg/hr。

SGB's throughput ranges from 40~3000kg/hr with 4, 6, or 8 components.

The specially customized high-temperature gravimetric blender with a high-temperature load cell and the level sensor is suitable for high-temperature applications.

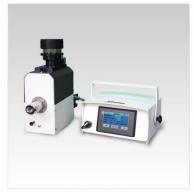
The PLC controllers of SGB and SGD are equipped with ethernet capability works with the relevant software for data logging, such as actual throughout, max throughout, and dosing ratio of the material, to facilitate product quality control.

SGB has regrinds auto compensation function. It compensates masterbatch automatically based on the ratio of regrind material.

SGD masterbatch doser adopts loss-in-weight technologies with an output of 0.04-60kg/hr.



SCM-H 高温型计量式色母混合机 Volumetric Dosers (High-temp. Series)



SGD-Micro小型称重式计量喂料机 Micro Doser

高温型色母混合机SCM-H配备内部冷却水循环冷却功能,能防止色母料粒进入主原料流可能出现的熔融,从而保证了精确地计量。

模块式装配结构,具有强制清料功能,更换色母时清理方便。

记录现有运作模式,不受停电影响, 复电后即可恢复运作。

可设定若干模周期添加一次色母, 以满足微量计量要求。

小型称重式计量喂料机,适用于微小产品生产中的精密计量称重混合。控制精度达到0.01g,输出范围小于40g/分钟。

体积式色母机SCM可实现对色母原料的精确计量,单机生产范围为0.1-130kg/hr。

The Volumetric Doser SCM can realize precise metering of masterbatches, and a dosing throughput from 0.1-130kg/hr.

The high-temperature volumetric masterbatch dosers, SCM-H, have a water cooling mechanism that can prevent masterbatch from melting and choking the dosing screw, such as in the PET preform application, and delivers the exact precision dosing.

A modular structure with masterbatch purge cleaning for easy colour change.

The current control cycle is registered and free from power failure. When power returns, the system is resumed without loss of setting.

The programmable setting of masterbatch dosing with every X amount production cycle. The function is for the demanding micro-dosing needs.

Micro Doser is most suitable for material dosing and mixing of small item production. The control precision can reach 0.01g, and the throughput is less than 40g/min.



信易开发的模温机种类多样,分为水式、油式、高温水式和大流量型系列, 能够满足精确的控温要求及成型工艺的需求。

Shini has launched various types of mould temp. controller, including water heater, oil heater, high temp. water heater and large flow water/oil heater series, which can meet precise temperature control and moulding process demands.



STM-W/O 水油两用式模具控温机 Dual-purpose Water/Oil Heater

以水或油为传热媒介,最高温度可达:用水时 $90^{\circ}$ C,用油时 $160^{\circ}$ C。

采用全数字P.I.D 分段式控温系统,控温精度达到  $\pm 0.5^{\circ}C$  。

配备电热功率切换功能,可进行3KW、6KW、 9KW切换使用。

Adopt water or oil as the heat transfer medium; the maximum operating temperature for water is  $90^{\circ}$ C, and for oil is  $160^{\circ}$ C.

P. I. D multi-stage temperature control system can maintain a mould temperature with an accuracy of  $+0.5^{\circ}$ C

Programmable heating capacity in 3kW, 6kW, or 9kW via HMI.



STM 油式模具控温机 Oil Heaters



STM-W 水式模具控温机 Water Heaters

加热功率从6kW到48Kw, 加热温度从95~350°C, 配备涡轮泵或流量泵或磁力驱动泵。

控制器采用按键式或触控式,显示直观、操作简单友好。

采用P.I.D. 控温系统,在任何操作状态下均可维持稳定的模具温度,控温精度可达到 $\pm 0.5^{\circ}$ C。

能适用于精密模具及小直径模具回路中 的控温需求,实现精密控温和高效率热 交换。

配备RS485通讯功能,可选装回水温度 及流量显示功能,亦有多款不同的选装 件和配件可满足各种工艺的控温需求。 The heater power is from 3kW to 48Kw, and heating temp. is from 95~350°C, equipped with the turbo pump or flow pump or magnetic-driven numps.

The controller adopts press or touch buttons, with an intuitive and user-friendly interface.

The P.I.D. temperature control will maintain stable mould temperature and control precision of ±0.5°C.

The unit will fulfill the requirements of different precision plastics processing needs and maintain high efficiency in heat exchange.

Equipped with RS485 communication function, and optional displaying function of the return water temp. and flow is available. There are also many different options and accessories to meet the temperature control demands of various processes.



STM-SPW 高端高温型水式模温机 High-end high-temp. water heater



STM-PW 高温水式模具控温机 High-temp. water heater

STM-SPW系列配备PT100热电阻式与 SSR综合控温,控温精度更高更稳定,配 置电子流量显示及电子压力显示,方便实 时监测管路输送流量及压力,可通过 RS485通讯功能实现主机监控,满足更全 面的信息智能监控管理需求。

以水为传热媒介最高加热温度可达200℃。

最高工作温度可达180°C,采用4.3″触控 屏显示,人机界面操作更便捷。 采用板式换热器间接冷却,控温更为精确, 以水之低粘滞性,快速达到热交换效果 采用全数字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, 控温精度达到±0.5°C。

有一周定时开关机功能,支持中/英文切换 及°C/°F转换。 STM-SPW series is equipped with PT100 thermoelectric resistance and SSR solid state relay for temperature control, which has better stable temperature precision control. It is equipped with a digital flow meter and pressure, and it's easy to monitor the water pressure and flow in real-time; with the aid of an RS485 interface, the system can achieve information intelligent monitoring and management. The maximum heating temperature of the water heater can reach up to 200°C.

STM-PW maximum water heating temperature is 180°CIndustrial grade 4.3" touch-screen controller with easy-to-use HMI. The unit uses a plate heat exchanger for rapid indirect cooling and precision temperature control.

The multi-stage P.I.D controller can maintain stable mould temperature with a precision of  $\pm$ 1-0.5°C.

The control software has built a weekly timer with  $^{\circ}\text{C}/^{\circ}\text{F}$  unit conversion.



SIC-A-R2 环保冷媒风冷式冷水机 CFC-free Refrigerant Air-cooled Water Chiller

信易的环保R410A冷媒冷水机,无臭氧层破坏,满足当今世界对环境保护的高标准。

全新开发的新一代高可靠度、超高效率冷水机采用高速低噪音散热风扇,能够在环境温度(0~43°C),及冷冻水出水温度在7~25°C范围内稳定、安全、可靠的工作。

R410A is a CFC-free refrigerant, a replacement for the R22 refrigerant, and it doesn't cause harm to ozone like the R22.

The new generation of water chiller maintains a higher standard of reliability and efficiency. It is made with a low-noise cooling fan, which can safely, and reliably work under the environment temperature of 0~43°C, and the chilled water set temperature range of 7~25°C.



对于模具、注塑和各类塑料成型设备的精确冷却,信易的冷水机冷却系统可做到精确的控制温度、流量和压力,最大限度的发挥制冷效果,其产品包括风冷和水冷式冷水机、冷却水塔、水泵、水箱。

High-efficient centralized water cooling solution for different applications such as injection moulding, extrusion ...etc. Shini water chillers can achieve precise water temperature, flow, and pressure to maximize their cooling result. The product line consists of an air-cooled chiller, water-cooled water chiller, cooling tower, pump station, and insulated water tank.



SIC-W-R2 环保冷媒水冷式冷水机 CFC-free Refrigerant Water-cooled Water Chillers



SIFR 智能流量调节器 Intelligent Flow Regulator

冷水机内部自带大容量圆型自力搅拌水箱,热容量倍增进而使温度变化小,更增强了主机运转的稳定性,另外采用防锈水管路,防止生锈;微电脑控制、操作方便、功能多样。

精简合理的系统水管路设计和安装,使 得设备运行更为顺畅的同时也降低了客 户使用成本。

采用电子式流量、温度监控系统,可实时监控各管路流量、温度,能在模具回路堵塞时即刻显示,避免不良品

各回路中设有手动或自动调节阀,可根据不同水路环境进行调节,精确控制各回路流量

实时流量、温度监测报警功能,及时提 醒回路异常

配备RS485通讯接口,可与主机通讯实 现集中监控。 The water chiller contains a large self-stirring round water tank. The multiplication of the water tank allows a buffer for minor temperature variations, thus strengthening the main machine's reliability. In addition, it adopts a rust-proof water pipeline. The new microcomputer controller with easy, user-friendly, and additional functions.

The new compact footprint reduction design and pipeline optimization have enabled the cooling system to operate smoothly and be highly energy-efficient. As a result, it ultimately lowers the production expenses of the customer.

Digital flow and temperature monitoring systems with real-time display and manual control of each pipe's flow rate and temperature. Which can alarm and display mould loop blockage to avoid the rejects.

The regulating valve in each return loop can control the flow rate by adjusting different water loops.

The display of graphic and numerical data enables a more intuitive adjustment of the return loop.

RS485 communication interfaces make centralized monitoring with the host units unrestricted.



SICC-W-R3

环保冷媒水冷式中央式冷水主机

CFC-free Refrigerant Water-cooled Central Water Chillers

SICC-A-R2 环保冷媒风冷式中央冷水主机 CFC-free Refrigerant Air-cooled Central Water Chiller

模块化的设计,由单元模块组合而成,根据负荷需要可选择1~15个单元模块。若需增加容量,可以增加模块或再选择适当的模块组成机组,接入已有的系统就可投入运行。

安装方便,模块连接只需在一模块上接进出水管即可完成整个水路的 连通,不需每台单独配进出水管;模块之间采用橡胶软管连接,施工 方便。

防护等级: IP54。

The modularized design with max a combination of 15 units. Cooling capacity can be enlarged by adding a number of modules to the existing system. The additional modules can easily connect to the inlet/outlet chilled water loop without requiring a new pipeline. An easily assemble rubber anti-vibration joint combines the modular unit. Ingress Protection Rating IP54

# 冷热交换系列 Heating and Cooling

# 粉碎回收系列 Granulating and Recycling



经济节能:以环境空气作为冷却介质,无需压缩机,节省成本,整个水路采用密闭循环式,耗水量极少,极大的节约资源。

蒸发式湿帘: 夏天可直接喷自来水,提高换 热效率,维持流程水温稳定,喷水时间无限制 且高效免维护。

Economic energy saving: take ambient air as the cooling medium without the compressor to save the cost. The hermetic circulation water loop with little water consumption greatly holds the water resource.

Evaporative wet curtain: In the summer, it can directly spray water to increase heat exchange efficiency and maintain constant water temperature. The spraying time is unlimited, highly efficient, and maintenance-free.



机边粉碎机包括齿啃式与慢速机边粉碎 两大系列,适用于塑料成型机旁与取出 机或皮带输送机将水口料或少量不良品 的粉碎。

Shini machine side granulator includes screenless granulators and low-speed granulators. It is suitable for grinding sprues and rejects in small quantities. It is placed on the IMM side and sprue picker or collocates with a conveyor belt.

SG-24N 齿啃式粉碎机 Screenless Granulators



SDC-A 干式密闭冷却水塔 Dry Hermetic Cooling Tower

因可提供清洁的冷却水,而广泛应用于对冷却水质量要求较高的行业中,如电子,食品,化工,铸造,空调和制冷行业; 采用模块化设计,扩容方便,减小故障维修的影响。

安装简捷:模块体积小,运输方便,现场安装只需接通电源 连接好水管即可投入运行。

经济节能:以环境空气作为冷却介质,无需压缩机,节省成本,整个水路采用密闭循环式,耗水量极少,极大的节约资源。

Due to the closed loop system, clean cooling water is available. It's widely used in industries with high demands for cooling water quality, such as the electronic, food, chemical, casting, air conditing, and refrigeration industries.

Easy installation: Small footprint, modular design, and convenient to move around. Which only needs to connect the power supply and water pipe to start operation.

Economic energy saving: take ambient air as the cooling medium without the compressor to save the cost. The hermetic circulation water loop with little water consumption greatly holds the water resource.



SG-L 齿啃式粉碎机 Screenless Granulators



SG-16N/20N慢速機邊粉碎機 Low-speed Granulators

齿啃式粉碎机采用无筛网设计,齿啃式 刀具搭配切断刀具,粗粉碎与细粉碎同 时进行,粉碎均匀,粉尘极少,可立即 与新料混合使用。(多种机型供选择, 其粉碎室尺寸为

240mm×175mm~240mm×460mm)

梯形齿刀,使应力集中产生的可能性有效降低,承受能力提高,从而使刀具使用寿命延长。

微电脑侦测遇阻自动逆转及警报,可于 清除堵塞的原料后自动复位正转。

慢速机边粉碎机包括爪刀与片刀两大类, 爪刀采用免调试活动刀片设计,片刀采 用渐切式一体化动刀设计。(多种机型 供选择,其粉碎室尺寸为 160mm×210mm~200mm×420mm) Screenless design granulators, teeth cutters, and large cutting blades are orderly organized and integrated with the cutting chamber. With the unique design of the teeth cutter and low speed, dusting powder is minimal during the recycling process. The regrinds can be immediately mixed and recycled with virgin materials back to the production process. (Multiple models are available, and the cutting chamber size is 240mm×175mm~240mm×460mm).

The new inclined teeth cutter reduces the possibility of stress concentration, enhances strength capacity, and improves the life span of cutter blades.

When the material stops the cutting blade, the unit will alarm and reverse the motor to free itself, and it will resume working automatically after the trouble is clear.

The low-speed granulators adopt new staggered blades and paddle blades. After re-sharpening the blades, the staggered blades keep a settled cutting clearance without needing precise adjustment. The paddle blades with a suitable angle create a good slice result. (Multiple models are available, and the cutting chamber size is 160mm×210mm~200mm×420mm).

# 粉碎回收系列 Granulating and Recycling



集中粉碎机适用于各种注塑成型、吹塑成型或废料的集中粉碎回收。粉碎室尺寸从230×240mm到1200×2500mm不等,完全满足各种不同尺寸的粉碎要求。

Granulators are suitable for centralized grinding rejects from plastic production. The range of cutting chamber size is from 230×240mm to 900×2000mm.



集中粉碎机适用于粉碎各种塑料材料, 包括注射成型、吹塑成型或挤压成型后 产生的废料。

Shini granulators are suitable for granulating various plastic reject from injection moulding, blow moulding, or extrusion moulding.

SG-120250B 重型集中粉碎機 Central Granulator



SG-43 静音集中粉碎机 Sound-proof Central Granulators



SG-70 静音集中粉碎机 Sound-proof Central Granulators

免调刀的刀架设计,刀具更换 更为简便。

配备电流继电器,马达超载保 护及多重安全保护装置。

大型机种转动刀具采用V形切割技术,可将待破碎材料送至转刀中央,可避免材料贴在侧壁上,同时也增加了侧壁的使用寿命。

#### 3x2型刀具(标准型)

两排固定刀的设计使得机壳进口空间很大,加上刀具的起始切割点低,材料可以被迅速的抓住并切碎。这种机壳的设计使其适用于粉碎空心体,如瓶子、滚筒等大体积的材料。

# 5x3型刀具

五爪式的半封闭式转子,每行叶片之间的空隙不大,被粉碎原料不会掉入转刀中。这种大型、重型转刀尤其适用于粉碎注塑料头料、厚壁物体及厚的板材等。

The blade retainer is designed for quick blade replacement without adjustment.

The unit features a current relay, motor overload protector, and multiple safety devices.

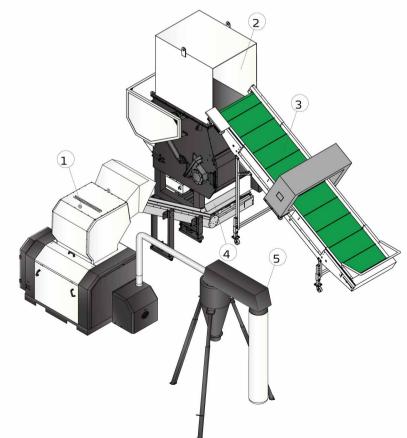
The V-formation rotating blades on the large granulators can force the material to the center of the rotating blades. It will prevent the material from rubbing against the side walls of the cutting chamber, increasing its life span.

Standard 3x2 Type (3 Rows of Rotating Blades and 2 Rows of Fixed Blades)

The models have larger inlet space and a low initial cutting point. Material can be easily grabbed and cut, making this ideal combination for the granulation of hollow objects such as bottles, crates, drums, and large bulky materials.

5x3 Type (5 Rows of Rotating Blades and 3 Rows of Fixed Blades)

The models have smaller pockets between each rotating blade. Enhance these massive, highly robust rotors ideally suited for heavy-duty applications such as plastic lumps, thick-walled articles, etc.



- 1.静音集中粉碎机 Sound-proof central granulator
- 2.破碎机 Shredder
- 3.金属侦测输送机 Belt conveyors with metal detector
- 4.上行式皮带输送机 Up-feed belt conveyor
- 5.旋风器 Dust separator

# 输送带系列 Conveying <u>Belt</u>





横走式三/五軸伺服机械手主要应用于注塑成型时成品及水口料的取出。适用于二板模、三板模及热流道模具。能实现各种特殊动作,如排列、堆放、品检和埋入等。适用于锁模力在80~300T的射出成型机。

The ST3/ST5 series is designed for rapid and repeatable removal of injected products from the moulding machines. It applies to 2- or 3-plate moulds or with a hot runner. Capable of arranging, stacking, further quality inspection, and mould insertion. Suitable for injection moulding machine with clamping force 80~300 tons.





ST5-I

横走式五轴伺服机械手(驱控一体)

Five Axes Servo Driven Robot (Driven-control integrated)



ST3-S2 标准横走式三軸伺服機械手 Standard Three-Axes Servo Driven Robot



ST3-LT-S 三轴伺服大型开放式机械手 Large Three Axes Servo Telescopic

#### 糖來性

三轴均采用伺服马达驱动,配合高精度线性滑轨及进口钢丝皮带传动,速度快、噪音低且定位准确。

#### 安全性

横走、引拔及上下方向各极限位置均装有防撞装置,可有效防止操作失控。

#### 知能化

7寸TFT高清晰触摸屏,友好的人机界面,可通过USB进行手控器及主板升级、程序数据下载,开放式程序教导,8GB存储器,独立的双16位IO扩展板设计,最大可扩展4块IO板。

## 人性化

系统自带多种语言,方便不同地区客人使用,预留辅助设备接口,便于用户增加辅助设备。

#### Precision

Heavy-duty servo motors drive all linear movements with precise linear guide rails and high-power V belts for fast, silent, and precise operation.

#### Safety

The travel limit of the X, Y, and Z-axis are with anti-collision devices. Thus, it can effectively prevent operations out of control.

#### Intelligence

7.0-inch high-definition TFT touch screen with user-friendly HMI, open program teaching. The USB port is used to upgrade and export the hand control and mainboard data. 8GB memory bank and an independent dual 16- bit IO expansion board can expand to a maximum of 4 IO boards.

#### User Friendl

The control came with a multi-language selection and reserved auxiliary equipment slots for the user's further expansion.



SAC 角式皮带输送机 Belt Conveyor SAC



SPC 平面式皮带输送机 Belt Conveyor SPC

角式皮带输送机,机身由高精度铝 合金结构组成,传送皮带采用高质 量加布塑料材料,可有效保护产品 外观且具极高的耐磨性

传统的丝杆搭配手轮升降模式集成 在一体化脚架中,表面烤漆,可依 升降尺寸调节高度

隐藏式旋钮式调速器,可自由调整运转速度,操作简单,防触碰。

平面式皮带输送机主要用于机械手取出产品的输送,能有效提升工作效率,保护产品外形与机械手信号连接,可搭配机械手实现全自动化作业,也可独立作业。

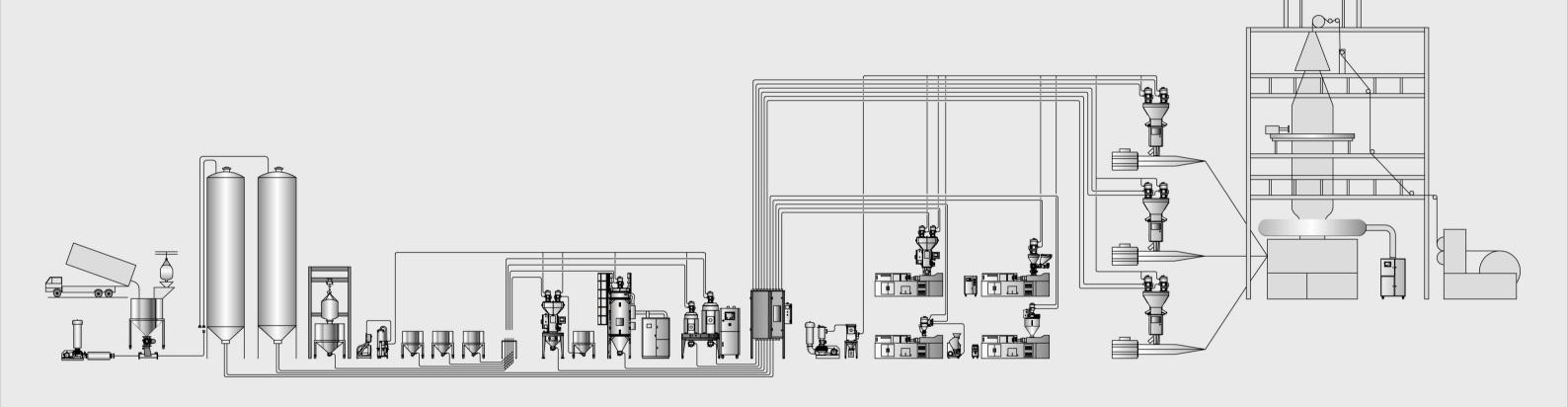
Shini Belt Conveyor is composed of a high-precision aluminum alloy frame. The conveying belt is made of quality plastics with cloth, effectively protecting the product's appearance and ensuring high wear resistance. It integrates a traditional screw + lifting hand wheel into the floor stand, with a baking finish surface, which can adjust the height according to the lifting range. The hidden knob speed controller can adjust the belt speed flexibly, make simple operations and avoid touches.

Shini Belt Conveyor is mainly used for conveying the products taken out by the robots. It will dramatically improve the working efficiency and protects product appearance. The signal between the robots and the conveyor belt. Moreover, it can collocate with the robot to achieve automatic operation or work independently.



助您提高效益,提升产品质量,满足市场日益竞争的需求,根据您的需要,信易将为您提供个性化的原料 处理方案,以优化产品生产流程。

Shini is always here to help the industry improve product quality and enhance its competitiveness in marketing. Shini can cater to different needs by providing customized plastic material handling solutions and optimizing the product production process.



















储存 输送 Storage Conveying

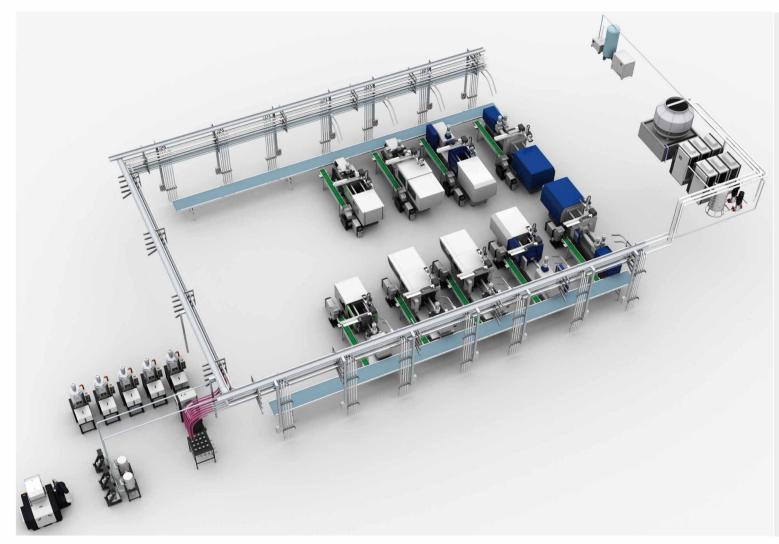
分配 Distribution

计量混合 干燥 Dosing and Mixing Drying

挤出控制 Extrusion Control

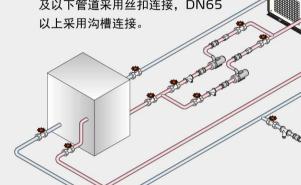
# **SHINI**

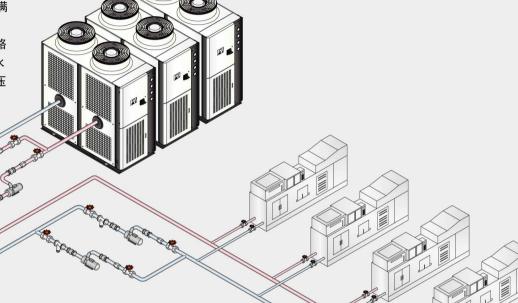
# 中央水电气整厂规划



# 水系统概览

冷却循环水管道材质采用镀锌钢管,符合PN16耐压标准,管道壁厚均满足国家管材相关标准,针对机台数量较多时,冷却水管道采用同程管路设计方式进行安装,确保每台机器水流量、压力均衡,不会出现抢水、压力不稳定等情况出现,管径DN65及以下管道采用丝扣连接,DN65以上采用沟槽连接。





# Overview of water system

The cooling circulating water pipes are made of galvanized steel pipes, which meet the pressure resistance standard of PN16. The wall thickness of the pipes meets the relevant national standards for pipe materials. When the number of machines is large, the cooling water pipes are installed by the same way of pipeline design to ensure that the water flow and pressure of each machine are balanced, and there will be no water rush, pressure instability and other situations. The pipes with pipe diameter of DN65 and below are connected by screw thread, and the pipes with pipe diameter of DN65 and above are connected by groove.

### 电系统概览

电力电缆符合GB/T12706、GB12666等国家标准。

电线、电缆的生产厂均有国家级部门颁发的生产许可证。

电线、电缆均有国家认可的质量检测机构出具的检验合格报告和"3C"认证。

# Overview of electrical system

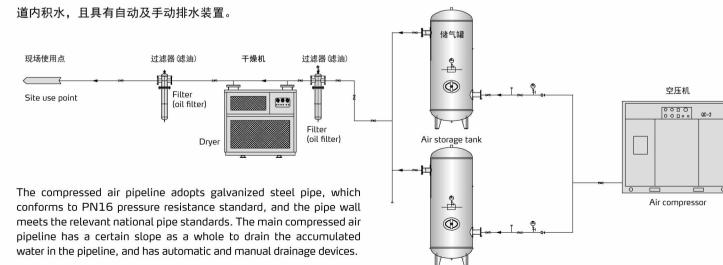
Power cables comply with GB/T12706, GB12666 and other national standards. Wire and cable manufacturers have production licenses issued by national departments. The wires and cables are provided with the inspection report and "3C" certification issued by the nationally recognized quality inspection agency.



动力柜 Distribution Cabinet

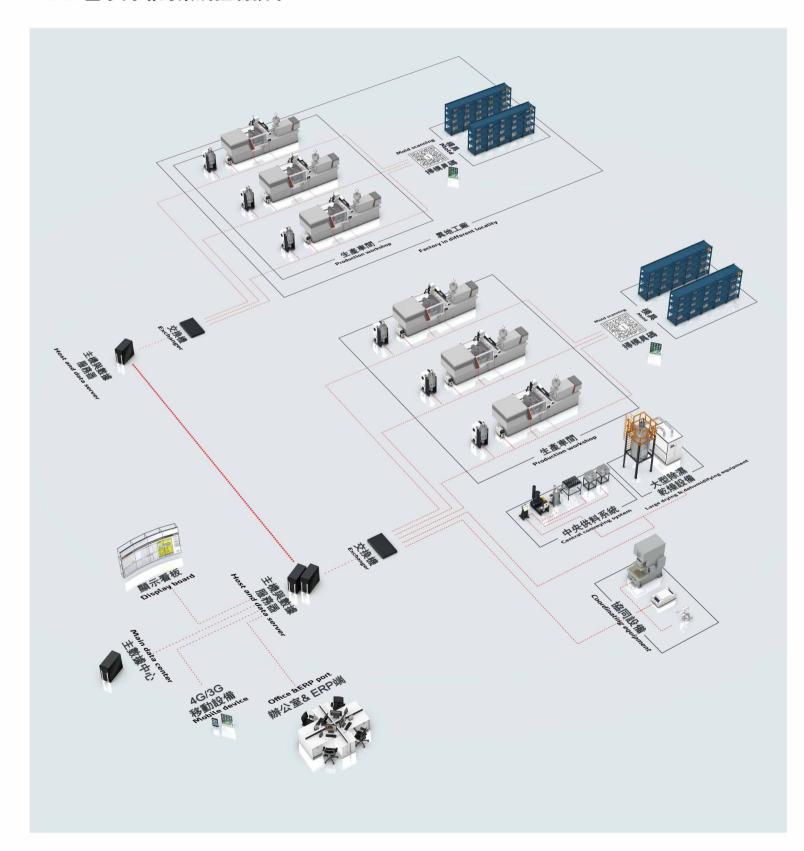
## 气系统概览 Overview of gas system

压缩空气管道采用镀锌钢管,符合PN16耐压标准,管道壁满足国家管材相关标准。压缩空气主管道整体具有一定的坡度,以便排放管



# **SHINI**

# sLink 基于网络的集成控制技术



# sDATA 注塑工厂数据采集监控系统



sDATA数据采集监控系统是对注塑工厂的生产过程数据进行实时采集,存储,并对这些工厂详细制造数据和过程进行报表化和图表化的软硬件解决方案。

sDATA data acquisition and monitoring system is a software and hardware solution that collects and stores the production process data of injection molding plants in real time, and reports and charts the detailed manufacturing data and processes of these plants.

# 主要功能/Main Function











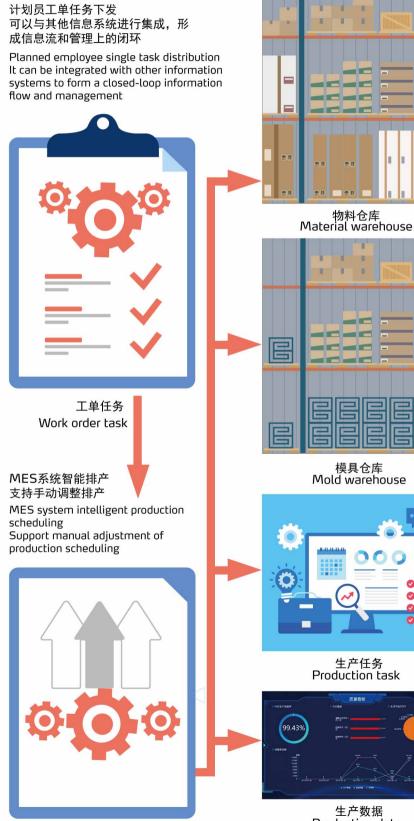




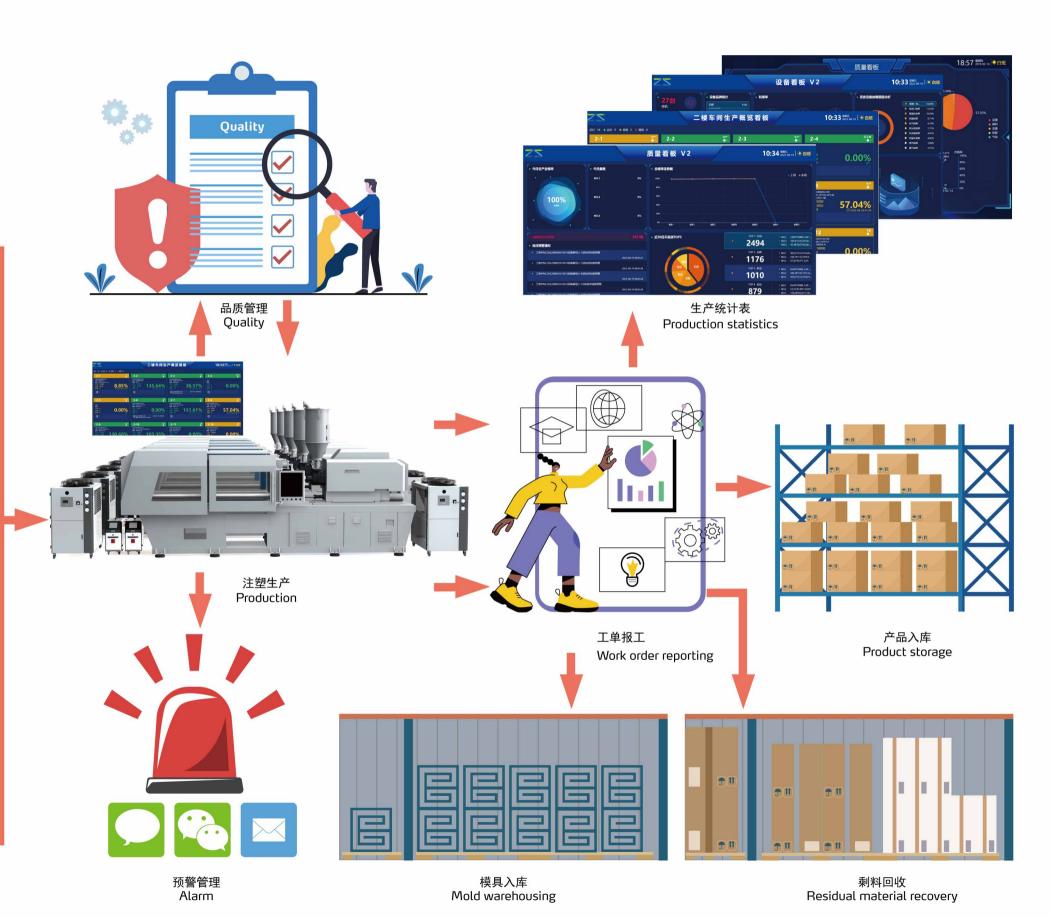




# 智塑云MES系统



Production data



计划排产 Planned production

# <u> SHINI</u>

# MES数字化工厂核心价值

提高管理效率

提高了生产数据统计分析的及时性、准确性,加强了各生产部门的协同办公能力,达到了精细化管理的目的。

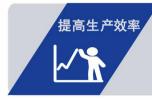


实时采集统计车间生产数据,无需传统的人工数据采集和统计。 工厂数字化,信息化生产,并进行生产 进度提醒。目前一个工人口能看3-5台

进度提醒,目前一个工人只能看3-5台 机器,未来可能一个人可以看5-7台机 器。



结合QMS质量体系和实时预警,全程化、实时性检测生产线状况并及时纠错。结合质量统计报表的不良品原因分析进行针对性的整改措施。



实时采集设备信息,透明的流程管理, 实现车间的全透明化,信息化生产,提 高生产执行效率和生产节拍。



实时监控设备状态和工艺信息,并进行 实时预警,避免使用错误工艺进行生产, 和长时间的设备待机,从而降低物料成 本和能源消耗成本。



如出现产品质量问题,可排查原料供应 商、原料批次、生产者和设备,模具状 况等,同时也支持全流程追溯。

# MES Core values

Improve management
O efficiency
IIII

It improves the timeliness and accuracy of statistical analysis of production data, strengthens the collaborative office capacity of all production departments, and achieves the goal of refined management.



Real-time collection and statistics of workshop production data, without traditional manual data collection and statistics



In combination with the QMS quality system and real-time warning, the whole process and real-time detection of production line conditions and timely correction. Carry out targeted rectification measures based on the analysis of the causes of defective products in the quality statistical report.



Real-time collection of equipment information, transparent process management, full transparency of the workshop, information-based production, and improvement of production execution efficiency and production rhythm.

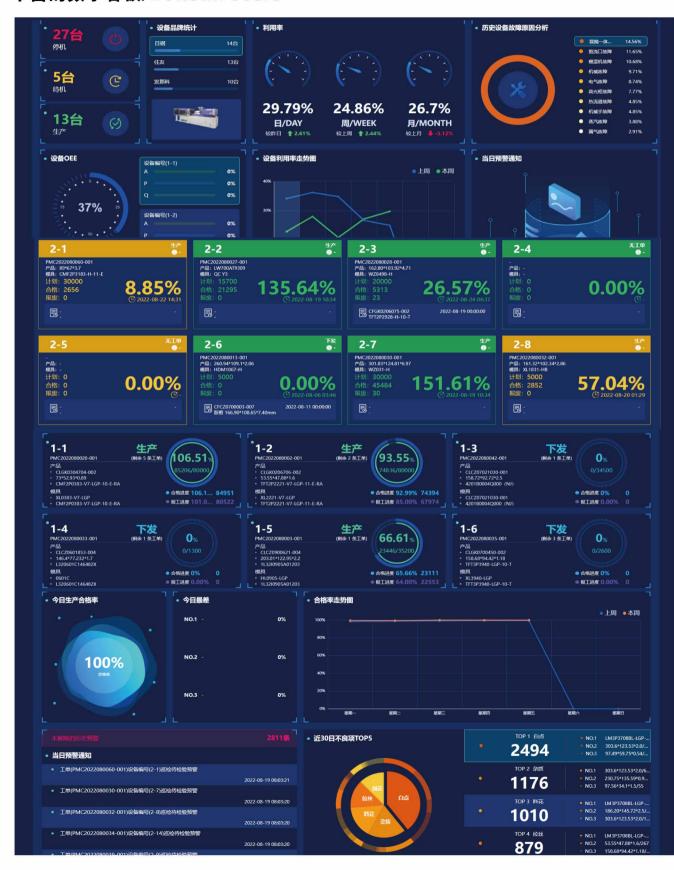


Real-time monitoring of equipment status and process information, and real-time warning to avoid using wrong process for production and long-term equipment standby. So as to reduce the cost of materials and energy consumption.



In case of product quality problems, the raw material supplier, raw material batch, manufacturer and equipment, mold condition, etc. can be checked, and the whole process traceability is also supported.

# 丰富的数字看板/Bulletin board



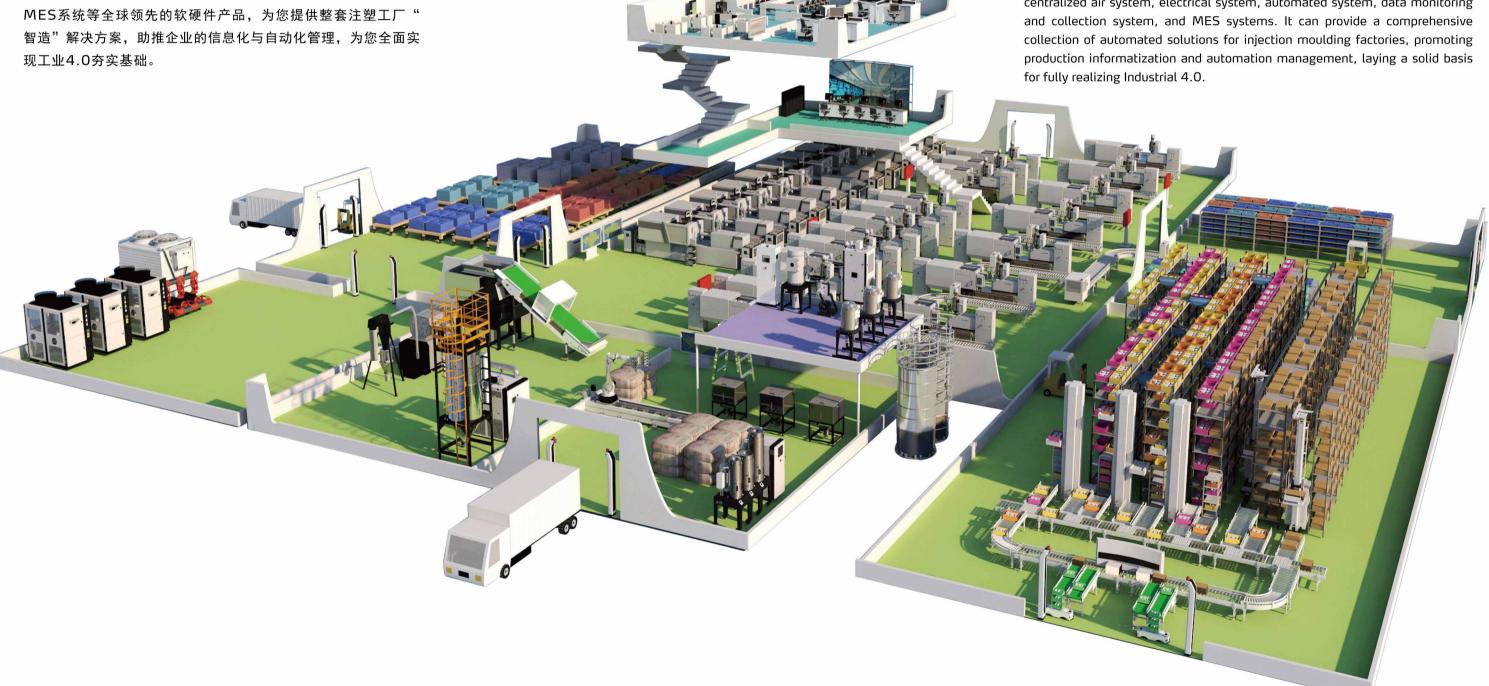
# SHINI

智能注塑工厂中央集成系统SYS

智能注塑工厂中央集成系统,以工业4.0智能注塑为主轴,融合 中央原料处理系统、中央供水系统、中央供电系统、中央供气系 统、智能物流系统、自动化系统、sDATA数据采集监控系统及

# **Central Integrated System SYS**

The "SYS" is formed on the core foundation of Intelligent Injection Moulding and Industrial 4.0. It comprises world-leading software and hardware such as a centralized plastic material handling system, centralized water system, centralized air system, electrical system, automated system, data monitoring for fully realizing Industrial 4.0.



# 系统化对策

# Systematic Solutions

信易集团可以从成型整厂之辅助装备为您规划,包括塑料原料储存、干燥输送到计量混合,从模具的温度控制到成型设备的冷却系统,从自动化机械手到废料的粉碎回收,从薄膜冷却风环到在线测厚等。

Shini design and implement complete plastic material handling equipment and solutions for new or existing production. It includes plastic material storage, material drying, material conveying, material dosing and mixing, mould temperature control and cooling system of moulding machines, injection robots, granulating and recycling plastics, air ring, and online thickness measurement for blow film.



- 1. 需求调查 2. 现场察看 3. 系统规划 4. 3D布置图 5. 确认规范
- 6. 采购合同 7. 系统施工图 8. 项目会议 9. 安装、验收 10. 跟踪调查
- 1.Demand Survey 2.Checking on site 3.System Planning 4.Diagram with 3D Layout
- 5. Confirming Regulations 6. Purchasing Contract 7. System Architectural Drawing
- 8. Project Conference 9. Installation & Acceptance 10. Follow-up Survey

# 挤出制程方案 Extrusion Process Solution





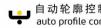


SYdos 连续式失重混合机 Loss-in-weight continuous Dosing System

SYdos是连续式失重计量系统,它用于同时供送多重原料。主料通过两个偏心传感器测重,然后把数据回馈给控制系统,控制系统再通过其他原料上的两个偏心传感器测重并调节螺杆的转速使其与主料达到恒定的配比。SYdos控制软件包括了失重控制、米重/产量控制、原料消耗控制。

SYdos is a continuous loss-in-weight gravimetric dosing system designed to dose and feed multiple components in all processes requiring constant gravimetric feeding. The main material is weighed by two off-center load cells, and the data is transferred to the control system to adjust the screw speed with the data transmitted by each load cell of other materials. The control software of SYdos consists of loss-in-weight control, gram/meter and throughput control, and material consumption control.

















# 造粒回收 Material Granulating and Pelletizing









SHTC-S 温控箱 Temperature Controller



SHTS-V 时序控制器 Timing Controller

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温控箱是一种连续不断保持热流道系统 所需温度值的设备,由温控卡、断路器、 箱体、风扇、接线座和线缆等组成。温 控箱通过内装的温控卡,控制热流道产 品的温度,与系统温度的精确性,自我 保护和容错性取决于温控卡的机能。目 前温控箱是热流道模具应用所必须的电 气系统。

顺序时间控制器是用于使用阀针式热流 道系统时,用以控制模具热咀注塑时间 先后的设备。顺序时间控制器能使热流 道系统的各个浇口得以控制。 A hot runner temperature controller is used in every mould with a hot runner system. It is a device that continuously controls and maintains the required temperature value of the hot runner system. It comprises temperature control cards, a circuit breaker, a cabinet, a fan, terminal blocks, and cables. The cabinet's temperature control card controls each hot runner's temperature. Therefore, the precision of temperature control systems, self-protection, and tolerance depends on the temperature control card.

The timing controller is used in the pins and valves hot runner system and controls the pins and valves' timing and sequence in the hot runner system.



SGFP薄膜粉碎回收造粒机 Granulating Film Pelletizer



SFP薄膜回收造粒机 Film Pelletizer

SGFP系列造粒机集粉碎造粒于一体,适用于MDPE、LDPE、LLDPE和PP等各种塑料薄膜粉碎回收造粒。既可在线式回收切边造粒,也可离线式集中造粒。

风冷系列最大产能根据机型可达 60~90kg/hr。

水冷系列最大产能根据机型可达 100~180kg/hr。

SFP系列造粒机适用于MDPE、LDPE、LLDPE和PP等各种塑料薄膜回收。机器配备网孔式进料篮及牵引装置,既可在线式对吹膜切边料回收造粒,也可离线式对废膜卷引入造粒,粉碎后的片材状废料(需搭配片材喂料机)进行投料,实现废料回收造粒。

风冷系列最大产能根据机型可达 50~90kg/hr。

水冷系列最大产能根据机型可达 130~150kg/hr。

SGFP series of pelletizer integrates crushing and pelletizing into one unit. It is suitable for recycling and pelletizing various plastic films such as MDPE, LDPE, LLDPE, and PP. It can recycle and pelletize online with edge trimming or centrally offline.

The maximum air-cooled series capacity ranges from 60 to 90kg/hr.

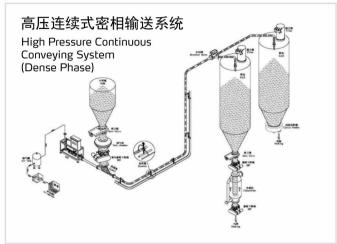
The maximum water-cooled series capacity ranges from 100 to 180kg/hr.

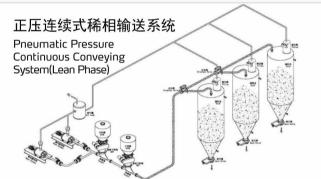
SFP series of pelletizer is suitable for pelletizing plastic films such as MDPE, LDPE, LLDPE, and PP. The machine has a screen feed basket and traction device, which can recycle and pelletize edge films online, roll up films offline with the traction device, or recycle flakes (with a feeder).

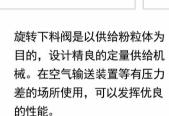
The maximum air-cooled series capacity ranges from 50~90kg/hr.

The maximum water-cooled series capacity ranges from 130~150kg/hr.

# **气力输送系列**Feeding and Conveying







高压旋转下料阀是以供给

粉粒体为目的而设计的最

精良定量供给机器。用于

在高压连续输送方式的气

从集装箱车接收物料通过

空气输送到储料桶。使用

立式旋转下料阀可以不用

挖地下坑。因为是可移动

型, 故在任何地方都可以

接收物料,不需使用时可

以移动, 所以不需要固定

作业场地。因从储料桶和

排出口配管位置到地面间

的距离短, 故是一般旋转

下料阀不可替代的设备。

力输送上。

SRV 旋转下料阀 Rotary Valve

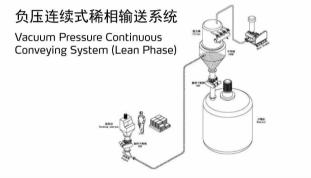


HRV 高压旋转下料阀 High Pressure Rotary Valve



LRV 立式旋转下料阀 Vertical Rotary Valve

# 高压BATCH式密相输送系统 High Pressure Intermittent Conveying System (Dense Phase) RMM Registration Regi



The rotary valve is designed to precisely and effectively convey powder and pellet materials over a distance. The precise mechanism and material pockets provide air locking results from the material hopper and minimal pressure losses for the most demanding pneumatic conveying system.

The high-pressure rotary valve is designed for precise material feeding and batch pneumatic conveying via high pressure. A high-pressure pneumatic conveying system can effectively convey powder and pellet materials over a great distance without damage via low velocity.

The vertical rotary valve system offers an efficient solution to unloading bulk packing from material truck to material hopper without an onboard pumping system. In addition, the mobile design allows flexible unloading locations without the need for pit and lengthy piping, which in return saves time and energy.

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