

# INTELLIGENT HANGER SYSTEM

## 智能吊挂系统

- ▶ 圣瑞思智能吊挂是一套智能化、数字化的服装生产流水线系统。它采用电脑化管理，配合企业级数据库、管理软件、电子技术、RFID射频技术、工业自控技术及先进的机械传动技术。

系统采用单件流水，可显著提高企业的生产效率、产品质量及生产管理水乎，降低工人成本与管理成本，使企业盈利能力不断提升。

### 系统版权

圣瑞思拥有完全自主的软件著作权和单片机版权。对核心技术完全掌控，使得我们的产品更加适合客户的需求，并能提供周到的服务，客户的产品维护和更新也能得到及时保障。

### 系统语言

圣瑞思智能化控制软件，多语言设计，界面直观，操作简便，上手更快不易出错。以简体中文为默认语言，贴合中国人的使用习惯。

### 数据管理

圣瑞思强大的数据报表功能，有利于您的管理更加得心应手。方便简洁的查询功能，以便于您对整个生产流程进行完全掌控。

### 射频与通讯技术

系统采用RFID射频识别技术，信息识别、读取即快又准。采用工业级CAN总线，直接通讯距离可大10m，通讯速率达 1Mbps，便于企业信息化管理的推进与实施。

- ▶ The Intelligent garment hanging system is a set of intelligent, digital garment production assembly line with computerized management, combined with an enterprise class database, management software, electronic technology, RFID technology, industrial automation control technology and advanced mechanical transmission technology.

SUNRISE system adopts a one-piece flow system, which significantly improves production efficiency, product quality and production management levels, reduces the production cost and management cost, which all make the enterprise profitability continue to improve.

### THE COPYRIGHT OF THE SYSTEM

SUNRISE have complete independent copyright of software and single - chip microcomputer. Because we totally control core technology, it makes our products more suitable for the needs of customers, and also provides the best service to make the maintenance and updating in time.

### SYSTEM LANGUAGE

There is a intelligent control software , multi language design, intuitive interface, and easy operation, while faster and less error prone. Simplified Chinese as the default language is more fit to Chinese usage.

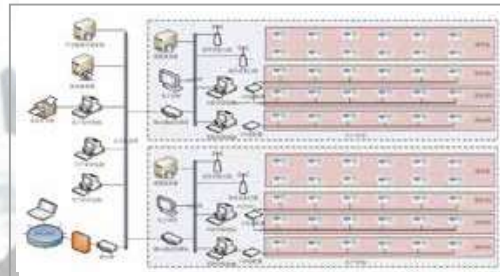
### DATA MANAGEMENT

The powerful data report is beneficial to your management .The simple query function makes it easy to handle complete control of the whole production process

### RADIO FREQUENCY AND COMMUNICATION TECHNOLOGY

It is the first use of RFID radio frequency identification technology and the information recognition is quick and accurate. It uses industrial grade CAN bus that gives direct communication of more than 10m. The baud rate is up to 1Mbps and it is convenient to facilitate information management of the enterprise.

系统网络拓扑结构图  
NETWORK STRUCTURE DIAGRAM



SUNRISE S-50  
The Standard Type Of The Intelligent Garment Hanging System

## S50型智能吊挂系统



Human-computer  
Operation Interface



Air Pressure Monitor  
Device



Air Source Outlet for  
Every Station

- ▶ S50型，简约的结构设计，能安装在绝大多数客户工厂，维护、保养操作相对简单；齐全的软件功能，良好的操作界面，简单的操作方式深受客户信赖。链条、轨道采用密封设计能确保器械运行环境安全与清洁，营造安全、高效、整洁的生产氛围。针对不同客户不同的生产环境生产要求，亦可对产品相进行定制化设计，做到更加人性化，更加符合客户实际需求。标准配置，适应性高，适用于大多数缝制产品。

The S50 type, with the simple structure and maintenance operation, can be installed in the majority of factories. The complete software functions, good interface, simple operating method are well trusted by customers. The chains, track sealed are designed to ensure the equipment running environment is safe and clean, and it create a safe, efficient, clean production environment. According to different customers' production needs and production environments. The standard configuration and the high adaptability is suitable for the majority of sewing products.



配备安全警报系统



便捷的操作按钮

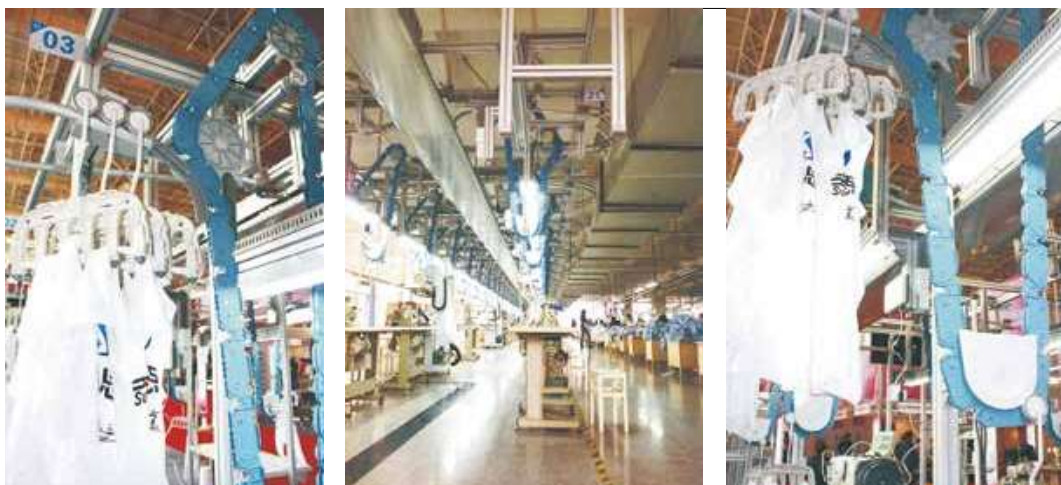


适用款式 (部分)



SUNRISE S-70  
The Standard Type Of The Intelligent Garment Hanging System

## S70型智能吊挂系统



- ▶ S70型，采用立地式与吊顶式双重设计，不但提高客户空间利用效率，同时也更加美观大气，大大增强客户车间的通透性。

S70的悬挂高度可自由调节，使得流水线生产的服装款式更为广泛，可充分挖掘流水线生产潜力，真正为客户提高效益服务。强大的软件功能使得客户能够实时有效监测生产情况，并进行生产分析，加强对生产线的管控。同时亦可根据客户实际情况进行定制化的生产与服务。

The S70 type, which is designed to standards and ceiling, is not only to improve customer space utilization efficiency, but also to create a better work environment, It also greatly enhances accessibility in the customers workshop.

The suspension height of the S70 can be adjusted freely, so that a wider range clothing styles can be manufactured on the production line and also it can free the full potential of the real production line, which will improve the efficiency of service for customers. The powerful software function allows customers to monitor production in real time, and analyze production and give increased control of the production line .At the same time it can be set up according to the actual production situation requirements.



完备的电器接口  
Perfect Power Socket



配置LED节能照明  
Energy-saving LED Light



激光扫描机构  
Scanning Sensor



SUNRISE S-80  
The Standard Type Of The Intelligent Garment Hanging System

## S80型智能吊挂系统



- ▶ 针对性专业化设计  
加大化的机构设计  
家纺衣架结构设计  
无需取下载片缝制  
适用于家纺、布艺、童车等  
Targeted and Special Design  
Customized Structure Design  
Special Textile Hanger Design  
Sewing Without Taking Down  
Available for Textile, Cloth Art and Baby Carrier

- ▶ 专用型家纺衣架结构设计  
Special Customized Basket Design



- ▶ S80型，是专门为家纺客户打造的产品。经过研发团队专业化设计，产品结构与功能都有了定向的改进，完全能满足家纺床上用品企业的生产需求。针对家纺用户，产品体积较大，重量较重的特点对衣架进行专门设计，无需取下载片缝制。按照客户的生产需求推出可定制产品，做到完全从客户角度出发，帮客户解决实际问题。

The Type S80 is designed for home textile products in particular. With the professional design by R&D group, it is improved to the new structure and function, which is fully able to meet the needs of enterprises home textile bedding. As for home users, it is designed specially for larger product volume and sewing without removing the cutting pieces. According to the customer's production needs, The special customized product is completely designed to meet customers' requirements, and to help customers to solve practical problems.

- ▼ 专用型吊兰结构设计



SUNRISE S-100  
The Standard Type Of The Intelligent Garment Hanging System

## S100型智能吊挂系统



▲ 系统标配8/10寸平板系统，安卓操作系统  
具备扫读RFID、一二维码（选配）  
视屏等多媒体功能

Equipped with 8/10 inch Computer Panel, applied in Android OS, contain RFID identification, one or two dimensional code scanning, video playing and other multi-media functions

- ▶ S100系统是专门为家居等超大超重产品缝制需求而特殊设计的。  
S100系统经过研发团队专业化设计，产品结构 with 功能都有了定向的改进，完全能满足家居、汽车座椅产品企业的生产需求。  
S100系统采用全封闭的轨道设计，系统衣架在设备中运行稳定，精准定位，不脱落，安全可靠。  
S100系统采用EtherCAT工业总线设计。通信效率高，传输信道稳定，扩展速度快，峰值带宽可支持100M。  
S100系统按照客户的生产需求推出可定制产品，做到完全从客户角度出发，帮客户解决实际问题。

S100 system is designed to tailor the needs of the special large products such as Furnishings.

S100 system has been professionally designed for many years through R & D team, and its product structure and function have been improved by orientation. It can fully meet the needs of large-scale special sewing production such as home and car seats.

The S100 system adopts full closed track design, and the special clothes rack is stable, unshedding, safe and reliable during the operation of the system.

The S100 system is designed by Ethercat industrial bus. It has more efficient communication efficiency, more stable transmission channel, faster expansion way, and peak bandwidth can support 100M.

S100 system can be customized in accordance with the customer's production requirements, to complete the customer perspective, to help customers to solve practical problems.



# SOFTWARE SYSTEM

## 吊挂应用系统

### PROCESS BALANCE INFORMATION

▶ 软件实时显示-工序平衡信息

Color separation, more powerful visual management  
颜色区分，更强的可视化



系统软件具备生产现场实时显示功能，实时显示工序平衡信息，易于监控实时的生产线平衡。

The software of the System has the function of production real-time display, process balance information in real time, and it is easy to monitor the balance of the real-time production line

### YIELD BALANCE INFORMATION

▶ 工序产量平衡信息

The software of System has the function of production real-time display, which shows balance information in real time, and is easy to monitor the balance of production schedule in the real-time.

系统软件具备生产现场实时显示功能，实时显示工序产量平衡信息，易于监控实时的生产进度。



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### COMMUNICATION MONITORING WINDOW

▶ 通讯监视窗口

Monitors each site hanger and communication status in real time  
实时监视每个站点衣架进出站及通讯状况



Monitor the equipment operation, prevents production loss due to device problems. Do the maintenance the equipment according to the device daily operation log.

实时监视设备运行情况，预防因设备坏点造成的生产效益损失。可根据每天形成的设备运行日志对设备进行有效的维护保养。

**HANGER PATH**  
 软件实时显示-衣架路径

Basic information of the processing of hanger  
 在加工衣架的基本信息

The path information of the rack processing  
 衣架加工的路径信息

Human intervention to repair  
 人为干预修复

The Real time recording of the hanger running path ensure the reliability of data. Damaged hangers caused by accidents in process can be replaced quickly in the process of the real time control system, so it does not affect production data; It can detect any inconsistencies between in information, caused by human factors.

实时记录衣架运行路径，保证数据的可靠性。对因意外情况损坏的在加工产品衣架可实时通过系统更换新衣架，不影响生产数据；对人为因素导致的衣架信息与实物不符的衣架进行人为干预修复。

**MULTI ROUTE RUNNING SIMULTANEOUSLY**  
 多路线同时运行

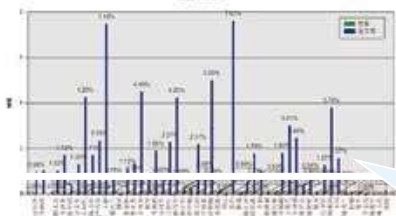
The system can control the process of multiple styles simultaneously, and it only need to be switched from one style to another styles at in-line station.

系统可满足同时加工多个款式，只需要在挂片站切换款式即可。

Corresponds to the system settings, hanging Station real time display, red is the hangingline  
 系统对应设置区，挂片站实时显示，红色表示正在挂片的路线

Distinguish the different routes by alpha-numeric text.  
 可以以字母，数字，文字来区分不同路线

**丰富的报表 RICH FORMS**



It can analyse workshop production from different angles with more than 20 types of report.  
 20多种报表，从多角度分析车间生产情况

The System has a great variety of report forms, and can be added to the new according to customer needs . For example: staff workload statements, group output statements, employee payroll report etc...

系统自带样式丰富的报表，也可根据客户需求二次开发报表。如员工工作量报表，组别产量报表，员工薪资报表等等。

SYSTEM CUSTOMIZATION SERVICES

# 吊挂系统定制服务

▶ 客户可根据不同型号选购所需的功能配置提供硬件、软件功能量身定制服务

The workshop station system, there is the wireless control device and information collecting device, which can collect production data automatically and deliver into the CPU of system in the real time and make the integration on data analysis for achieve the dynamic management of workshop information.



立柱设计  
Column design



桥接设计  
Bridge design



吊顶设计  
Ceiling design



软件的二次开发  
Software redevelopment



系统选购件  
System optional hanger



包柱设计  
Package column design