

JWF9562

粗细联输送系统

ROVING-RING LINK CONVEYING SYSTEM



70 多年的粗纱机生产经验
紧跟国际粗纱机的发展潮流

70 years of experience in the production of roving frames, closely following the development trend of international roving frames

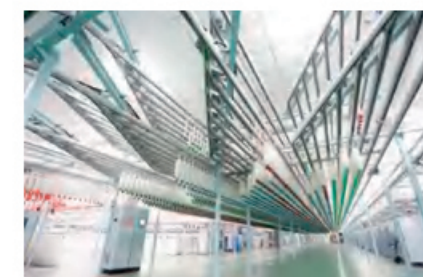
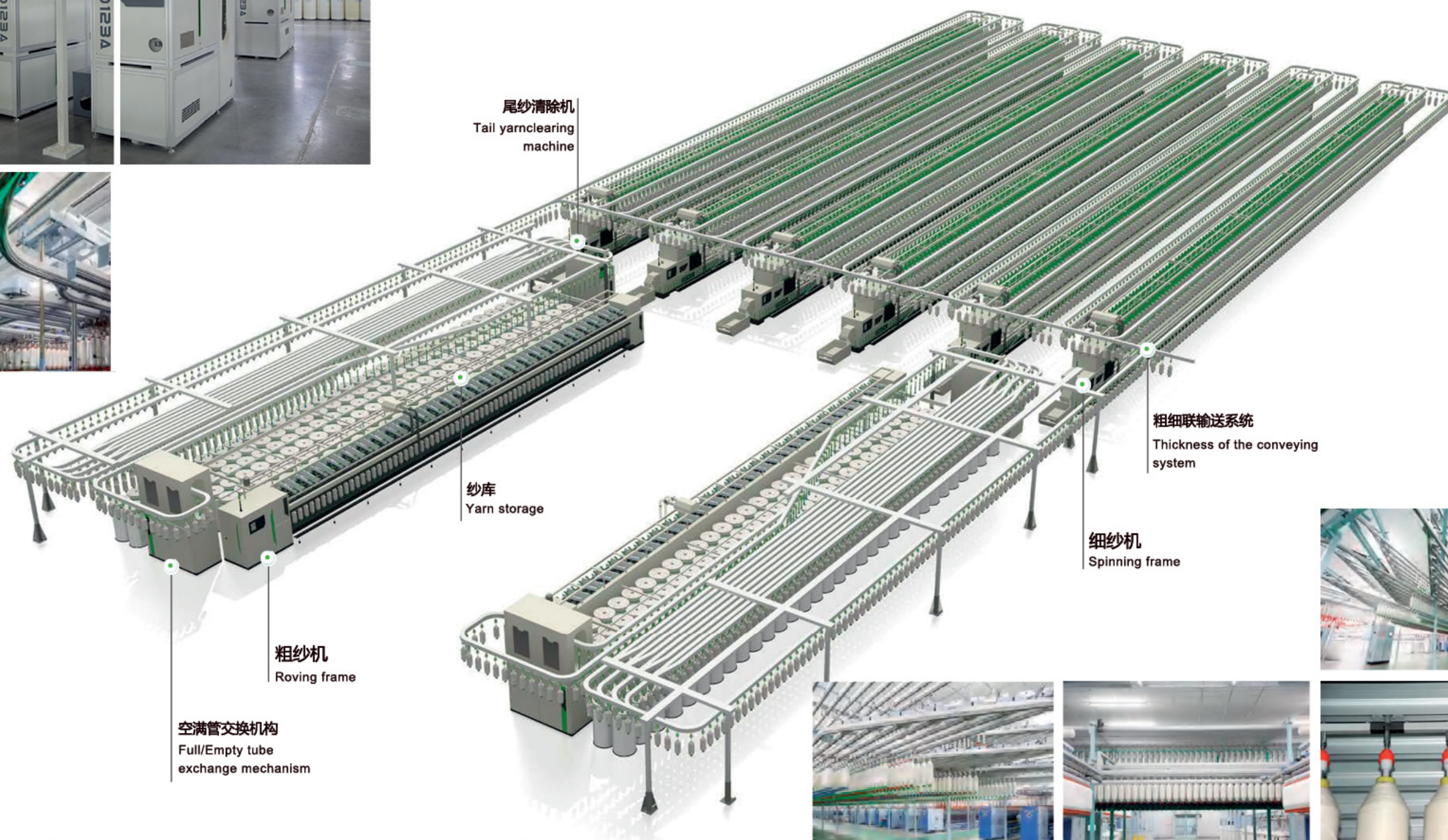
JWF9562 粗细联输送系统是指在粗纱和细纱工序间建立一条可实现在线监控、信息采集分析、自动控制和连续输送的空间立体的物流线路，其基本功能是将粗纱机落下的满筒粗纱送至满筒纱库，待细纱机发出需求信号后再将满筒粗纱送至细纱机，将细纱机用完的空管送回空管库，待粗纱机发出需求信号后再将空管送至粗纱机，实现粗细联。

JWF9562 Roving-Ring Link Conveying System is the established between a rovings and spinning process can be realized on-line monitoring, information collection and analysis, automatic control and continuous delivery of three-dimensional space logistics lines, its basic function is to send the full package rovings roving machine falling cheese to the full storage, to be issued a demand signal and then spinning the barrel full of rovings sent spinning, spinning run the empty pipe back to the empty tube storage, to be roving frame will then issue a demand signal to the empty tube control roving frame, to achieve Roving-Ring Link Conveying System Union.

在线监控
信息采集分析
自动控制
连续输送

ON-LINE MONITORING
INFORMATION COLLECTION ANALYSIS
AUTOMATIC CONTROL
CONTINUOUS DELIVERY

系统总装示意图 /SYSTEM ASSEMBLY DIAGRAM



系统特点/The system characteristics

导轨/Guider

由高强度的铝合金型材制成，轨道截面采用封闭式，可防止污染物的堆积。

By a high-strength aluminum alloy made, a closed section of the track, to prevent the accumulation of pollutants.



输送链条/Conveying chain

由铝合金型材链杆、高强度的塑料铰链和一体式滑架小车组成，可在水平与垂直两个方向自由转动，运行滑快，无明显振动与噪声。

The aluminum alloy bar chain, high-strength plastic hinges and integrated trolley carriage composed of freely rotatable in both horizontal and vertical directions, run sliders, no vibration and noise.



拨叉机构/Shifting fork mechanism

用于输送换向的拨叉机构，有手动和自动两种形式。自动拨叉采用电动控制，定位可靠，保证输送线路准确。

For transporting commutation shift fork mechanism, shift fork automatic control, positioning and reliable to ensure accurate transmission lines.



驱动/Drive

该系统采用轻型悬挂输送系统，有手动和自动两种工作模式，即可采用手动牵拉，也可采用电机驱动。电机传动由耐磨材料制成的滚轮直接摩擦驱动。

The system uses a light hanging conveyor system and motor driven. Motor drive wheel wear-resistant material is made by the direct friction drive.



控制/Control

采用优质的检测开关，智能准确输送每一根送纱导轨。

The precise control module and high quality detection switch are adopted to realize the automatic, continuous and digital control of the track and accurately convey each yarn feeding chain.



轨道清洁系统/Rail cleaning system

安装在输送系统纱库上方，用于自动清洁纱库轨道。可调节工作周期。

Rail cleaning system is installed above the convey system yarns for automatic cleaning of yarns rail. The working cycle is adjustable.



WLAN局域网控制：

通过WLAN实现系统联网，配备平板电脑的APP上监控出整个系统运行：

①实施跟踪记录输送的运行状态；②方便品种调度及管理；③显示故障报警，及时提醒进行维护。

WLAN LAN control: the WLAN makes it possible to realize system networking, equipped with a tablet computer APP monitoring out of the entire system operation:

- ① implementation of tracking and recording the running state of transmission;
- ② Convenient variety scheduling and management;
- ③ Display fault alarm, reminder for maintenance timely.



射频识别RFID技术：准确记录纺纱品种，避免品种混乱。

RFID technology: record the variety of spinning accurately, avoid variety confusion.

节省人工：全自动模式，省工，降低劳动强度。

Save labor: full automatic mode, save labor, reduce labor intensity

节省空间：搭建立体空间的自动输送线，满纱、空管可直接贮存在系统中，节省占地，优化车间布局。

Save space: set up three-dimensional automatic conveying line, full yarn, empty tube can be directly stored in the system, save space, optimize the layout of the workshop.



优化成纱质量：避免了半成品输送环节由人工干预造成粗纱之间的碰撞，保证后道工序的纱线品质，提高成品的质量。

Optimize yarn quality: avoid the collision between roving yarns caused by manual intervention in the semi-finished product conveying link, ensure the yarn quality of the following process and improve the quality of finished products.

布局灵活多变：各部分组成形式多样且通用互换，可按用户所需合理布局。

Flexible layout: Each part is composed of various forms and universal interchange and can be arranged according to the user's requirements.

智能管理：该系统可实现无人化、信息化、智能化管理。

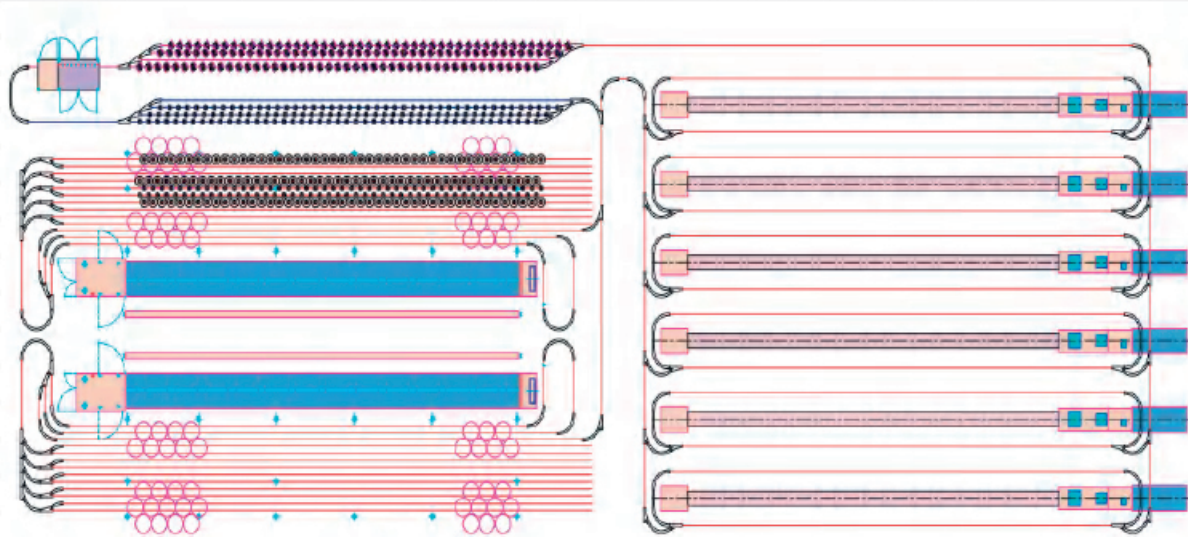
Intelligent management: the system can achieve unmanned, information and intelligent management.

灵活多变的布局 / FLEXIBLE LAYOUT

外循环单元布局 / STANDARD CYCLE UNIT LAYOUT

该模式增加了纱库设计和换向机构，使得每台粗纱机生产的粗纱均能由纱库中转并最终到达任意一台细纱机。

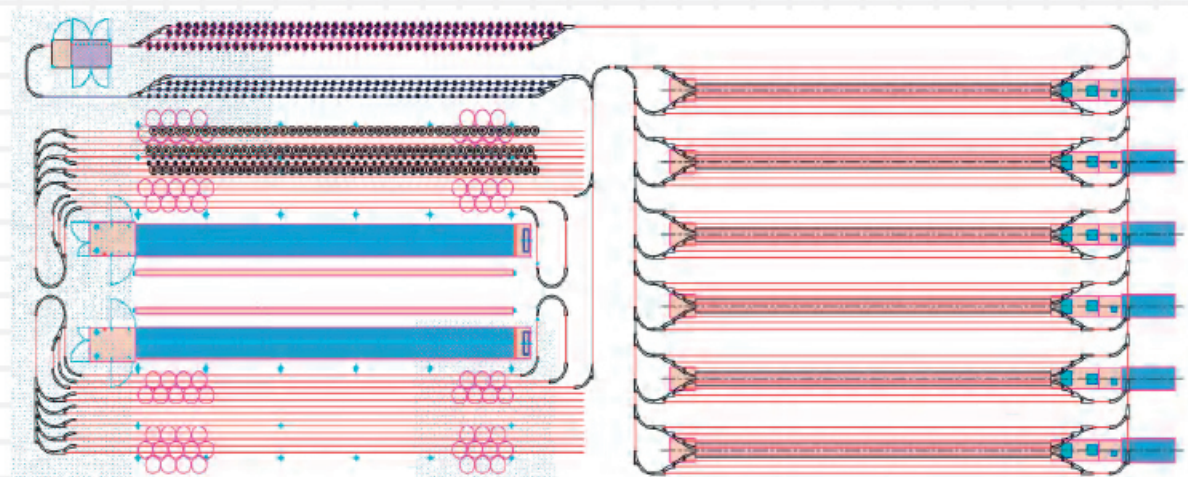
This mode increases the yarn storage design and commutation mechanism so that each rove of roving frame product can transfer production from the yarn storage and finally send to next spinning.



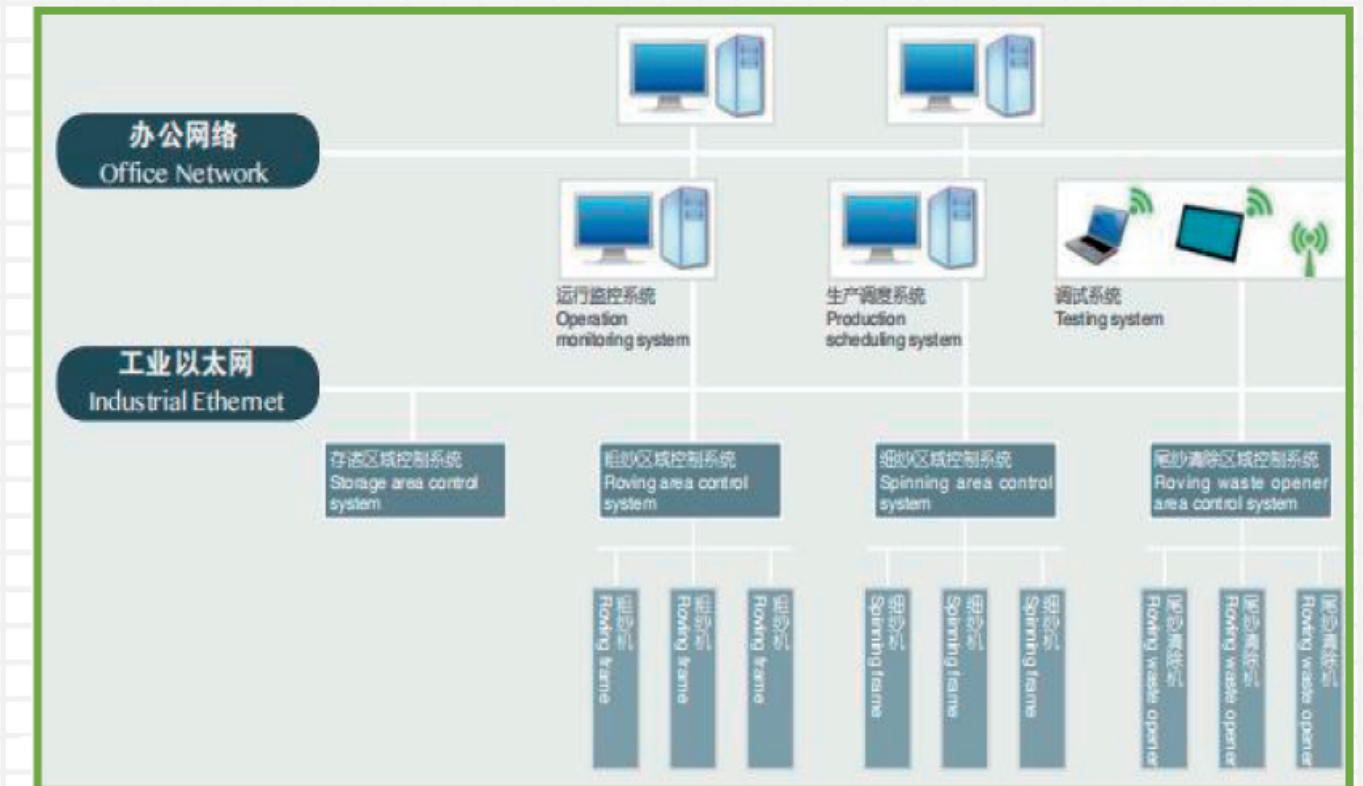
全自动循环单元布局 / AUTOMATIC CYCLE UNIT LAYOUT

该模式是细纱机的纱架由输送系统的轨道代替，使得粗纱不需离开系统即可用于细纱机的生产，取消了粗纱和空管的人工置换过程。

The pattern is spinning creel replaced by a rail transport system, making the rovings can be used to spinning production without leaving



智能控制网络系统 / INTELLIGENT CONTROL NETWORK SYSTEM



模块化程序控制，多电机相互配合并依次动作，按照设定工艺流程完成准确输送，其进行过程由精密的传感器装置实时监测并反馈，人机界面简单易操作，实时监控粗细纱的供需情况，实现生产运行、统计分析和管。

Modular process control, multi-motor movement with each other and in turn, set the process in accordance with the completion of accurate delivery, which carried out the process by a sophisticated real-time monitoring and feedback sensor devices, human interface is simple and easy to operate, supply and demand of real-time monitoring of the thickness of the yarn, achieve production run, statistical analysis and management.