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*THE GLOBAL TEXTILE INDUSTRY FRIENDS,
THE PRIDE OF CHINA'S MANUFACTURING INDUSTRY*

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产品规格与外观可能有变更，恕不预先通知。

The specifications and external appearance of this unit are subject to change without prior notice.



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JWF1458A/JWF1468A 系列自动落纱粗纱机
JWF9562 粗细联系统



粗纱机市场的开拓者

THE LEADER OF
ROVING FRAME MARKET

JWF1458A/JWF1457 自动落纱粗纱机

AUTO-DOFFING ROVING FRAME

高速、长车、省工、智能化、易维护
High speed, long car, labor saving,
intelligent, easy maintenance



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

JWF1458A/JWF1457 粗纱机为外置式全自动落纱粗纱机，既可作为自动落纱粗纱机单独使用，又可粗细联输送系统配套使用。该机单侧最大锭数可达 216 锭 /224 锭。

The JWF1458A/JWF1457 AUTO-DOFFING ROVING FRAME is a full-automatic external doffer roving frame; It can be used alone or in conjunction with roving transfer system to constitute a roving and spinning unit. The machine provides up to 216 spindles/224 spindles

纺制高质量纱线的理想选择
HIGH QUALITY YARNS MAKING IT THE
MOST IDEAL OPTION FOR SPINNING

主要特点：

1

外置式落纱

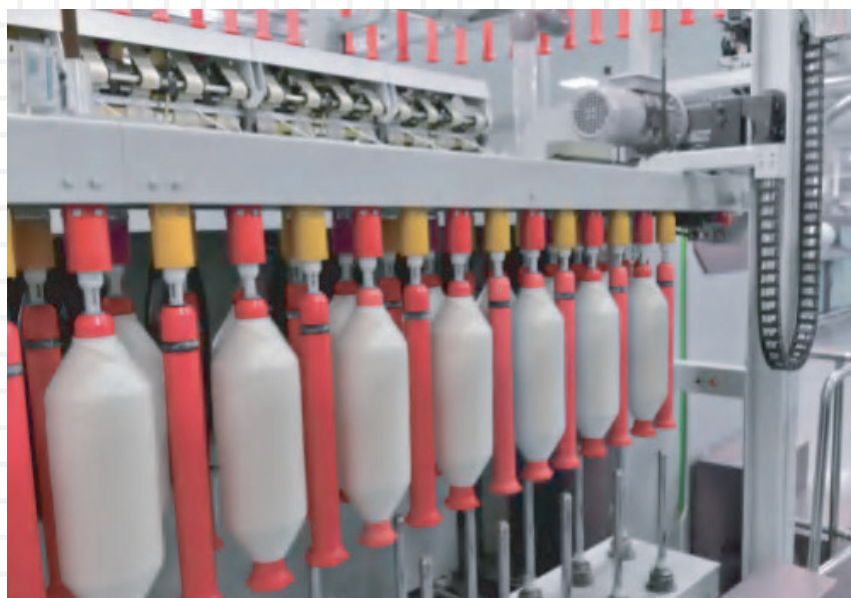
External automatic doffer system

高效率：故障率低、维护保养落纱系统不影响正常纺纱

Hight efficiency: low failure rate/ Doffing system can be maintained and repaired without affecting normal operation of the roving system

高成功率：落纱、空满管交换、自动生头成功率接近100%

Hight success rate: the success rate of doffing/empty and full tube exchange/spinning in is almost 100%



2

具有三罗拉、四罗拉两种形式

There are two types. One is with three rollers. The other one is with four rollers.

★**标准配置：**中国YJ-40A弹簧加压摇架。

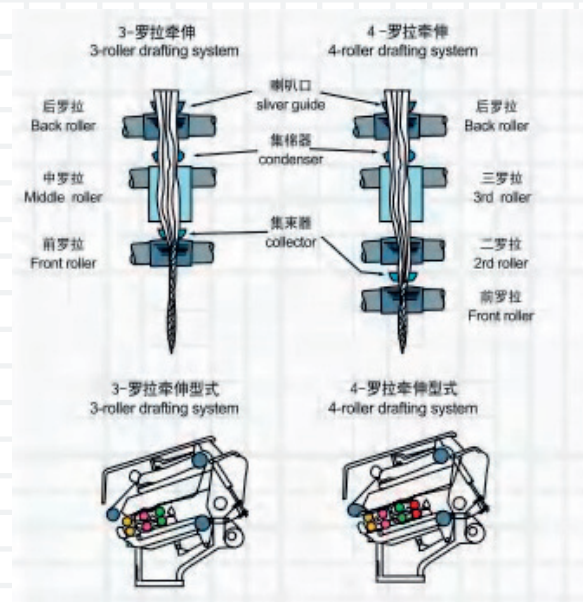
Standard configuration: Chinese YJ-40A spring-loaded drafting system.

★**选用配置：**德国TEXParts公司弹簧加压摇架。

Optional configuration: Germany Texparts spring-loaded drafting system.

德国Suessen公司的板簧加压摇架。

Germany Suessen spring-loaded drafting system.



3

分组传动形式

Drive in groups

下龙筋采用圆弧齿齿形带分组传动，实现超长粗纱机。传动平稳，噪音低、速度高 (纯棉纺纱锭速可达到1300转/分钟)。

The lower spindle rail tube drives the spindles in groups with circle-arc tooth belt. It makes it possible for long roving frames. Smooth transmission, low noise, high speed (pure cotton spinning spindle speed up to 1300 rpm/min).



清洁系统

Cleaning system

清洁装置主要由上下清洁器，吹吸风装置及机后的吸尘装置组成，能有效清除积花。避免纱疵，为纺制高档产品创造了积极条件。巡回式清洁器运行模式可根据节能需求设定运行周期和间隔时间。

The cleaning system comprises the upper and lower cleaners/suction unit and dust suction device behind it. It can effectively remove the accumulated flying and avoids yarn faults, creating favorable conditions for delivering high-grade products. Tour cleaners operating mode can be set to run cycle and intervals as needed.



空满交换

Spool changeover

实现全自动落纱粗纱机粗纱和空管的自动交换。

Automatic changeover is achieved between the empty and full spools of full-automatic doffing roving frame. The change frequency is adjustable.



操作界面人性化、易操作

the operation interface is user-friendly and easy to operate

多电机同步控制，实现恒张力纺纱。

Multi-motor synchronous control for constant tension spinning.

多段速纺纱，纺纱速度在显示屏可设。自动保持粗纱离心力的恒定，提高纺纱品质。

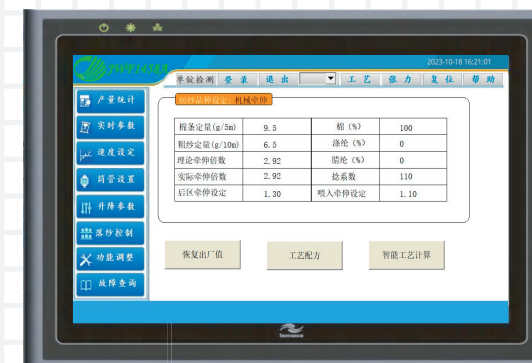
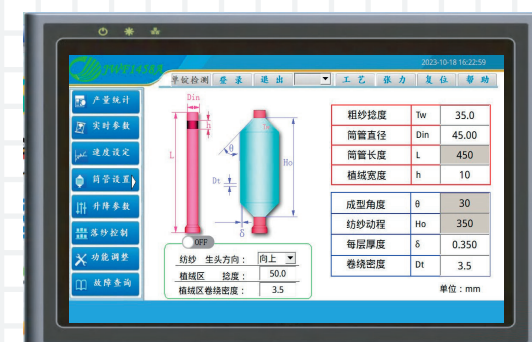
The multi-stage speed is adopted to spin and the spinning speed can be set on the screen. Automatically keep centrifugal force constant and improve spinning quality.

通过人机界面，可以进行状态、故障查询等，自动存储故障记录，停车记录等。

Through the HMI, the state inquiry, fault finding queries. Automatic storage of fault records and stop records, etc.

具备联网远程运维功能，可实现网络管理，网络诊断，提高生产效率。

With network remote operation and maintenance function, can realize network management, network diagnosis and enhanced productivity



JWF1468A/JWF1467 自动落纱粗纱机
JWF1468A/JWF1467AUTO-DOFFING ROVING FRAME

JWF1468A/JWF1467 是 JWF1458A/JWF1457 自动落纱粗纱机的衍生机型，采用双车头中间传动，满足 JWF1458A/JWF1457 的全部功能，最长锭数达到原机器的两倍，节省占地空间。

JWF1468A / JWF1467 is a derivative model of JWF1458A / JWF1457 AUTO-Doffing roving frame . It adopts double front middle transmission, which can meet all the functions of JWF1458A / JWF1457. The spindles is twice that of the original machine, saving floor space.



主要规格 /SPECIFICATIONS

机型		JWF1458A	JWF1457
锭距(毫米)		216	185
锭数系列(锭)		N*12 (10 ≤ N ≤ 18)	140,156,168,182,196,212, 224
试纺棉纤维长度(毫米)		22~38	
试化学纤维长度(毫米)		65以下	
适纺线密度 (Tex)		1000~200 (1~5公支)	
总牵伸倍数		4.2~12	
适纺捻度范围 (捻/米)		18.5~80	
锭翼转速 (转/分)	纺纱速度	1300	
	机械速度	1500	
机器手向		左、右手	
锭翼形式		悬锭 (下锭杆)	
牵伸形式		三罗拉或四罗拉双短皮圈	
加压形式		YJ40A-190x4; PK1550; HP4080	
棉条筒直径 (毫米)		Φ400、Φ500 或 Φ600	Φ400 或 500 或 Φ600

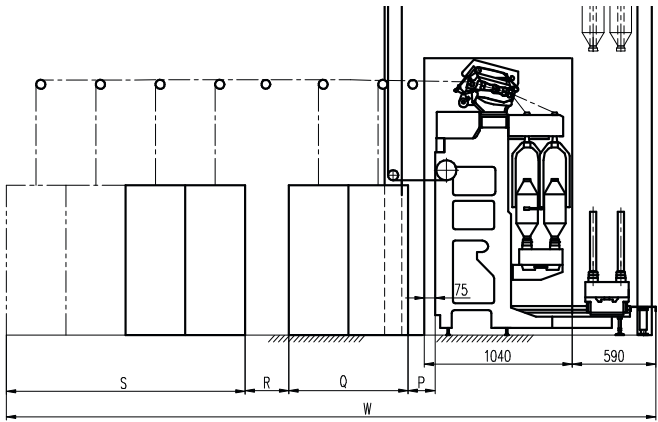
Model		JWF1458A	JWF1457
Spindle pitch (mm)		216	185
Series of spindles (spindle)		N*12 (10 ≤ N ≤ 18)	140,156,168,182,196,212, 224
Cotton fiber length (mm)		22~38	
Chemical fiber length (mm)		<65	
Density for roving (Tex)		1000~200 (1~5 metric number)	
Total draft multiple		4.2~12	
Twisting range (twist/m)		18.5~80	
Flier speed (rpm)	Roving speed	1300	
	Mechanical speed	1500	
Robot-hand direction		Left-right	
Flier form		Suspended (lower spindle blade)	
Draft form		3/4-roller 2-short apron	
Pressure form		YJ40A-190x4; PK1550; HP4080	
Diameter of silver can (mm)		Φ400 、Φ500 or Φ600	Φ400 or Φ500 Φ600

JWF1458A

锭数 Nos.of spindle	尺寸 Dimensions	代号 Symbols	代号 Symbols
	e	L	f
120	13211	15315	1495
132	14507	16611	1495
144	15803	17907	1495
156	17099	19203	1495
168	18395	20499	1495
180	19691	21795	1495
192	20987	23091	1495
204	22283	24387	1495
216	23579	25683	1495

JWF1457

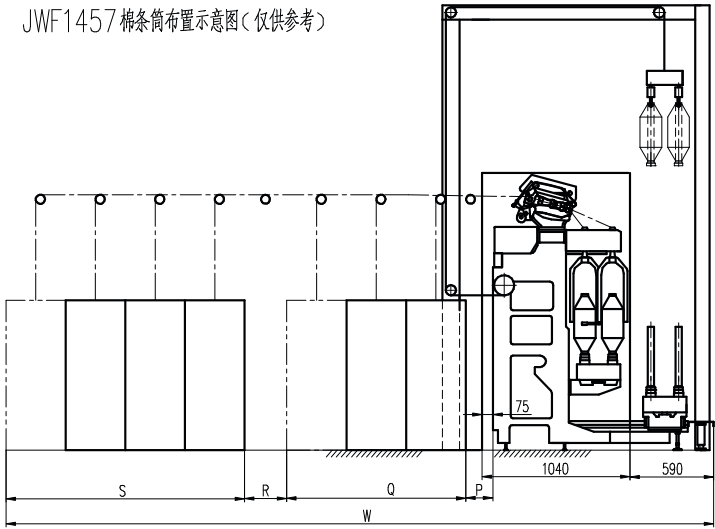
锭数 Nos.of spindle	尺寸 Dimensions	代号 Symbols	代号 Symbols
	e	L	f
140	13211	15315	1495
156	14692	16796	1680
168	15803	17907	1495
184	17284	19388	1680
196	18395	20499	1495
212	19876	21980	1680
224	20987	23091	1495



JWF1458A 棉条筒布置图表(仅供参考)
symbol

Cans dia 条筒规格	代号 symbol	P	Q	R	S	W
Ø400		560	780	450	780	4125
Ø500		378	989	680	1448	5050
Ø600		455	1175	650	2267	6102

JWF1457 棉条筒布置示意图(仅供参考)



JWF1457 棉条筒布置图表(仅供参考)
symbol

Cans dia 条筒规格	代号 symbol	P	Q	R	S	W
Ø400		400	797	444	1206	4402
Ø500		460	990	535	1910	5450
Ø600		360	1818	650	2362	6745

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

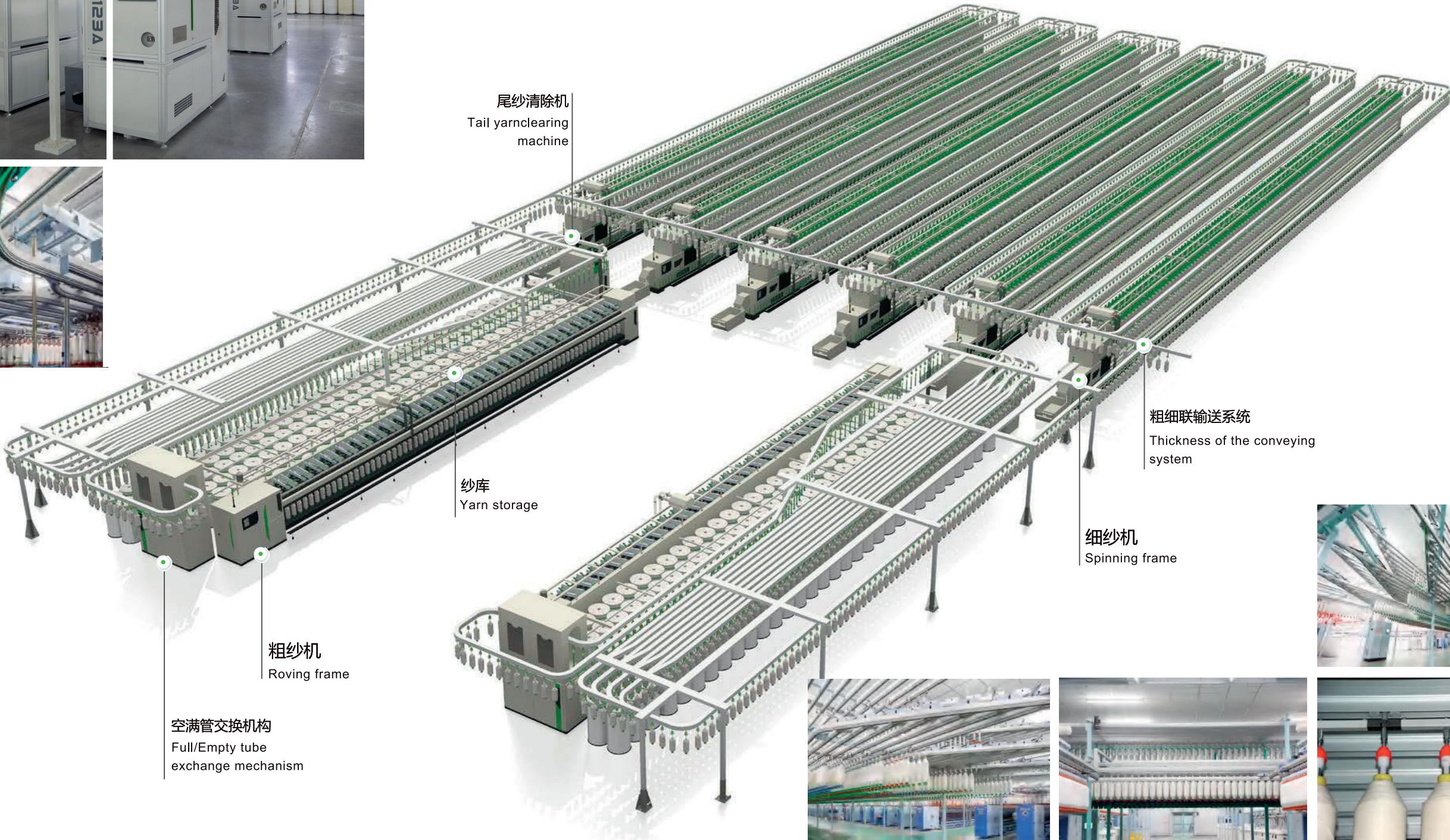
JWF9562 粗细联输送系统是指在粗纱和细纱工序间建立一条可实现在线监控、信息采集分析、自动控制和连续输送的空间立体的物流线路，其基本功能是将粗纱机落下的满筒粗纱送至满筒纱库，待细纱机发出需求信号后再将满筒粗纱送至细纱机，将细纱机用完的空管送回空管库，待粗纱机发出需求信号后再将空管送至粗纱机，实现粗细联。

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。

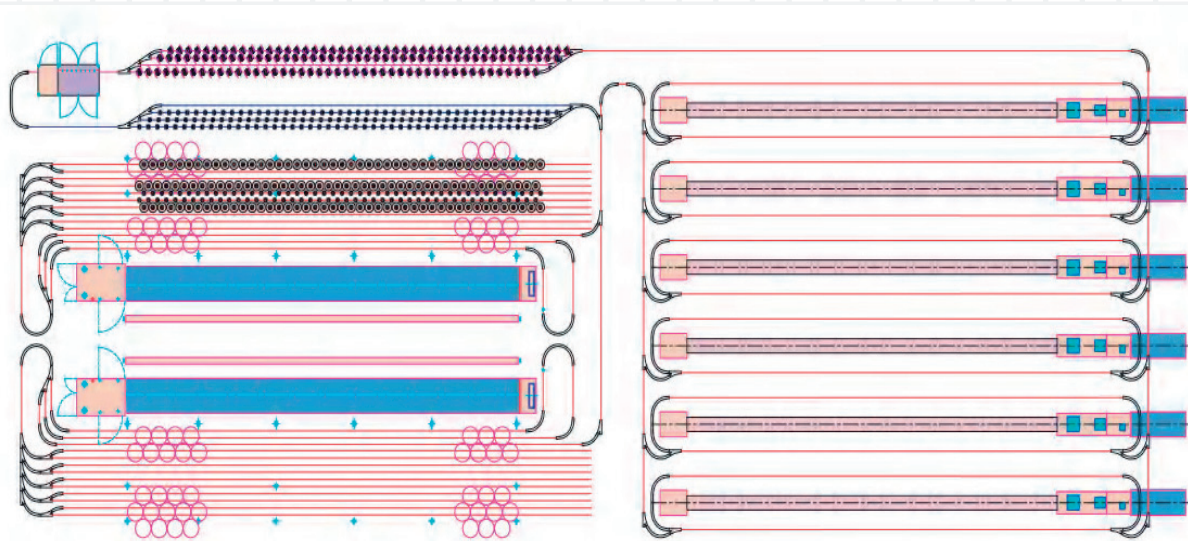
Intelligent management: the system can achieve unmanned, information and intelligent management.

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。

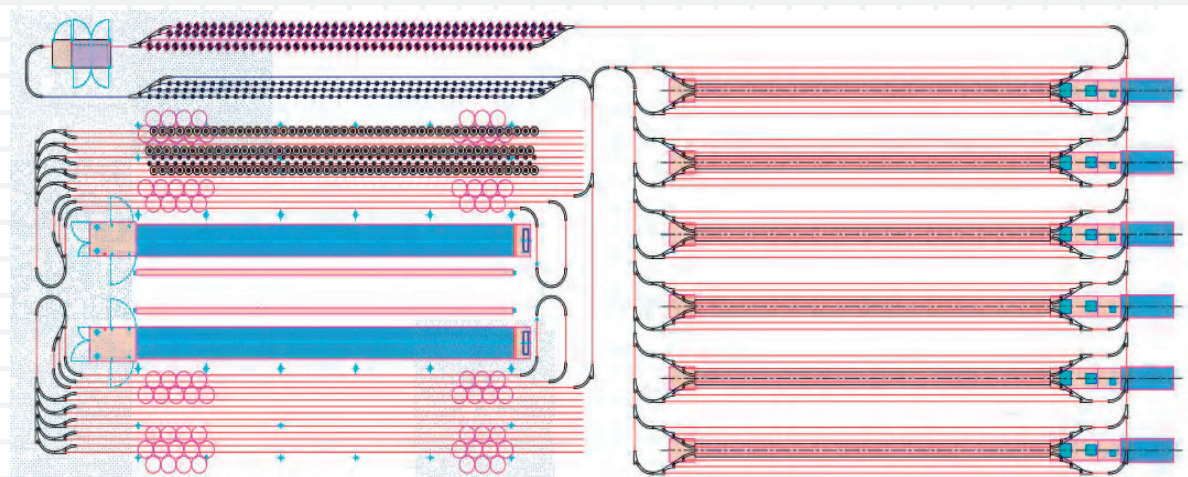
This mode increases the yarn storage design and commutation mechanism so that each rove of roving frame product can transfer production from the yarn storage and finally send to next spinning.



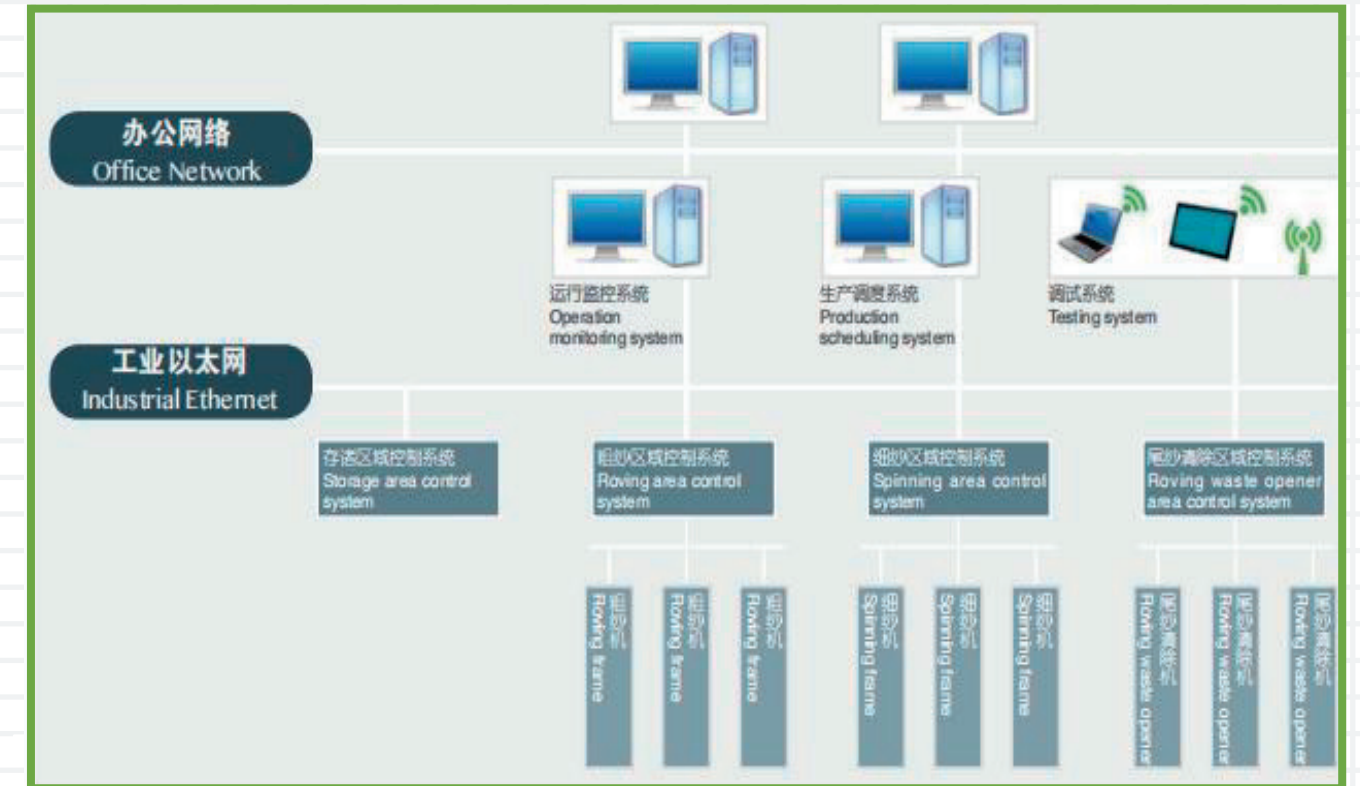
全自动循环单元布局 / AUTOMATIC CYCLE UNIT LAYOUT

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、统计分析和管理的。

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.

选配装置 /OPTIONALEQUIPMENT

JWF0123 系列尾纱清除机
SERIES ROVING WASTE OPENER



JWF0123 A尾纱清除机主要用于粗细联系统中，自动清除细纱机使用过的粗纱管上的尾纱及吸附在粘条上的废花，供粗纱机自动生头时直接使用，也可以作为清洁粗纱筒管的机器单独使用。
JWF0123A Roving Waste Opener, mainly used in the cotton thickness joint track, waste will be spinning machine used roving tube yarn tail and adsorbed on the sticker on the automatic clean, directly for the use of roving machine automatic raw head. Also can be used alone as a clean roving bobbin machine.

主要特点 /MAIN ADVANTAGES

- ★ 本机外露件由钢板及铝型材组成，外形美观。
- ★ 单锭控制，结构简单，占地面积小。
- ★ 整机出厂，安装、运输方便。
- ★ 可根据使用厂尾纱剩余情况，调整动程。
- ★ 可根据使用厂设备配置，进行专门设计。
- ★ 具有筛选管装置、毛刷清洁装置、可供用户选用。
- ★ This machine is exposed parts composed of steel and aluminum, beautiful appearance. Single spindle control, simple structure, small floor area.
- ★ Complete machine factory, convenient installation, transportation.
- ★ According to the user the tail yarn surplus situation, adjust the motor process.
- ★ According to the user the factory equipment configuration, to the special design.
- ★ According to the user the factory equipment configuration, to the special design.

主要规格 /SPECIFICATIONS

机型	JWF0123A
锭距(毫米)	137.5、140、150、206.25、210
锭数(锭)	4、6、8、12、16
外形尺寸(不含轨道) (宽×高)(毫米)	860×2687(不包含轨道)
筒管尺寸(毫米)	Φ45×445
筒管退绕转速(转/分)	900
升降动程(毫米)	483
导轨上筒管下底面距地面高度(毫米)	2200
功率(千瓦)	3

Model	JWF0123A
Spindle pitch (mm)	137.5、140、150、206.25、210
Number of spindles (ingot)	4、6、8、12、16
Profile dimension(Not include the tracks) (W×H)(mm)	860 x 2687
Tube size (mm)	Φ45×445
Tube unwinding speed (RPM / min)	900
Up and down motor process (mm)	483
Guide tube bottom surface height (mm)	2200
Power(kw)	3