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**浙江日发纺织机械股份有限公司**  
ZHEJIANG RIFA TEXTILE MACHINERY CO.,LTD

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地址: 浙江省绍兴市新昌县梅渚工业区沃西大道88号

**浙江日发纺机技术有限公司**  
ZHEJIANG RIFA TEXTILE MACHINERY TECH CO.,LTD

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For the purpose of improving product quality, our company reserves the right to change product specifications without notice.



## FIBRE PREPARATION Solutions

### 前准备解决方案

短纤加捻系列

SHORT FIBER TWIST SERIES

精密并纱系列

PRECISE ASSEMBLY WINDING SERIES



## 关于日发纺机

浙江日发纺织机械股份有限公司成立于2002年，注册资金6948.7万。公司系国家重点高新技术企业，国家机械工业重点骨干企业，国家863计划CIMS工程示范企业，全国CAD应用工程示范企业，国家火炬计划重点高新技术企业，中国纺织机械协会副会长单位。现旗下控股山东日发纺织机械有限公司、安徽日发纺织机械有限公司、浙江日发纺机技术有限公司。

公司以成为“敏捷化的国际性公司”为愿景，以“为用户提供智能纺织装备系统解决方案，并协助用户逐步实现数字化工厂梦想”为使命，致力于机电行业的“数字科技”，已成为国内外享有高知名度的纺织设备生产企业。二十几年来已成功开发了清梳联、并条机、转杯纺纱机、喷气涡流纺纱机、倍捻机、直捻机、假捻变形机、精密并纱（络筒）机、自动穿经机、喷气织机、喷水织机、剑杆织机、毛巾织机、特种织机、针织圆机、无缝内衣机、袜机、非织造布设备等系列的上百种产品，能够为行业提供纺纱、前准备、织造、非织造四大解决方案，涉及纺织行业的各个领域。产品遍及全国各地，并销往全球30多个国家和地区，在各个行业的市场占有率位居前列。

日发纺机正致力于创造崭新的“数字科技”理念，在未来的整机生产中，建立“人流、物流、信息流”的互动平台，实现科技、环境、制造的和谐统一。铸就“信息化、敏捷化、国际化”的机械制造生产基地。

浙江日发纺机技术有限公司系日发纺机全资子公司，注册成立于2009年。公司主要产品为针织圆机、袜机、无缝内衣机、倍捻机、直捻机、假捻变形机、精密并纱（络筒）机、无水印花机，继承日发纺机二十多年的专业经验，致力于打造世界智能化高端纺织机械研发与制造基地。



## About Us

Zhejiang Rifa textile machinery co., ltd. is founded in 2002 with a registered capital of 69.487 million yuan. The company is a China national key high-tech enterprises, a key enterprise of the China national machinery industry, a demonstration enterprise of both China national 863 program CIMS engineering and China national CAD application engineering, a China national torch plan high-tech enterprise, and a vice president unit of China textile machinery association. It now holds three subsidiaries: Shandong Rifa textile machinery co., ltd., Anhui Rifa textile machinery co., ltd. And Zhejiang Rifa textile machinery tech co., ltd.

With the vision of “become an agile and international company” and the mission of “Provide users with intelligent textile equipment system solutions, and help users gradually realize the dream of a digital factory”, Zhejiang Rifa Textile Machinery Co., Ltd. is devoted to the area of “digital technology” in mechanical and electrical industry, and has become a well-known textile equipment manufacturer with excellent reputation at home and abroad. For over twenty years, the company has successfully developed four solutions such as spinning, fibre preparation, weaving and non-woven, including blow-room machine, draw frame, rotor spinning machine, air jet vortex spinning machine, two-for-one twister machine, twister machine for tire cord, false-twist texturing machine, precise winding machine (precise rewinding machine), automatic warp drawing machine, air jet loom, water jet loom, rapier loom, terry towel loom, specific loom, circular knitting machine, seamless knitting machine, hosiery machine and non-woven equipment etc hundreds of machines. These products have been distributed to all areas around China and sold to more than 30 foreign countries and regions with a leading market share in each respective industry.

RIFA is devoting itself to create a whole new theory of digital technology, establishing an interactive platform of “people flow, material flow and information flow”, realizing harmony and unify of science and technology, environment and manufacturing, and aiming to become a manufacturing base of “informatization, agility and internationalization”.

Incorporated in 2009, Zhejiang Rifa Textile Machinery Tech Co., Ltd. is a wholly-owned subsidiary of RIFA. The company's main products include circular knitting machine, hosiery machine, seamless underwear machine, two-for-one twister machine, twister machine for tire cord, false-twist texturing machine, precise doubling machine (precise rewinding machine) and waterless decorating machine. The company has inherited professional experience of over 20 years in RIFA, and is committed to becoming the world R&D and manufacturing base of intelligent high-end textile machinery and equipment.





RFTS20D短纤倍捻机主要适用于棉纺、缝纫线、包芯纱、毛纺、混纺等领域股线的加捻，适用范围广；设备采用模块化设计，可灵活配置各功能模块。其主要特点如下：

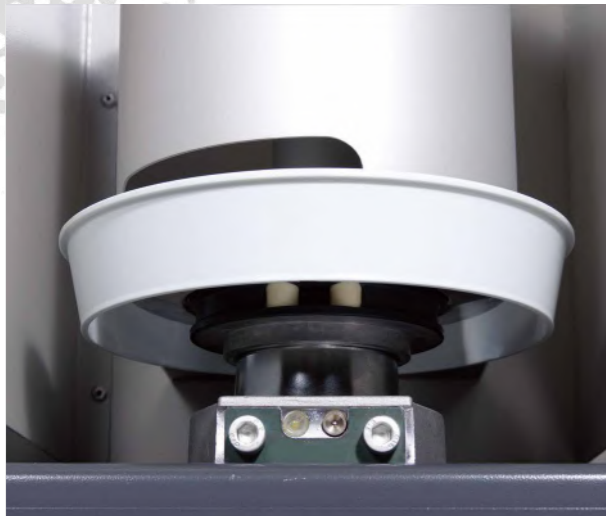
- 采用气动引纱、气动延时抬升，大幅提升伸头效率并解决纱线磨损问题。
- 采用双排固定式轴承结构，最高转速可达14000rpm。
- 加捻区与传动区分开，彻底解决油污纱问题。
- 智能电子导纱系统，工艺设置方便，具有断电同步、速度闭环、班产管理、峰谷电、松式卷绕、物联网功能等。

RFTS20D short fiber twister is mainly suitable for twisting strand threads in cotton spinning, sewing thread, core spun yarn, wool spinning, blending and other fields, with a wide range of applications; The equipment adopts modular design and can flexibly configure various functional modules. Its main features are as follows:

- Pneumatic yarn guiding and pneumatic delay lifting are adopted to greatly improve the efficiency of piecing and solve the problem of yarn wear out;
- It adopts double row fixed bearing structure, and the maximum speed can reach 14000rpm;
- The twisting area is separated from the transmission area to completely solve the problem of greasy yarn;
- The intelligent electronic yarn guide system is convenient for process setting, and has the functions of power-off synchronization, speed closed loop, shift production management, peak valley power, loose winding, Internet of things, etc.

### 短纤倍捻机

### SHORT FIBER TWO-FOR-ONE TWISTER



**高品质纱线**  
追求更高的捻不匀要求；彻底解决油污的污染。

**High Quality Yarn**  
In pursuit of higher requirement for unevenness of yarn twisting; Solved the problem of oil pollution yarn.



**高自动化**  
精密控制技术，实现单锭数据显示；数据采集系统，有效实现自动化生产车间。

**High Automation**  
Precise control technology to realize single spindle data display; Data acquisition system designed for effective implementation of automated production workshop.



**高效率**  
高锭子转速，有效提高产能；精密成型技术，有效提升后道退解效率。

**High Efficiency**  
The spindle with high speed to effectively increase productivity; Precision forming technology to effectively improve the efficiency of unwinding of yarn.



**少人工**  
采用电脑集中控制，工艺设置简单便捷；气动引纱功能，有效提升接头效率；集中落纱装置，减少搬运过程；气动抬升装置，避免卷绕筒子空转。

**Less Requirement for Labor**  
The computer centralized control is adopted, the process setting is simple and convenient; The pneumatic yarn function effectively improves the joint efficiency; The centralized yarn doffing device reduces the handling process; The pneumatic lifting device, avoid the idling of the winding cylinder.



**高稳定性**  
良好的加工设备，保障零件稳定性；成熟的控制系统，保障设备稳定性。

**High Stability**  
Good processing equipment to ensure the stability of parts; Mature control system to ensure the stability of equipment.

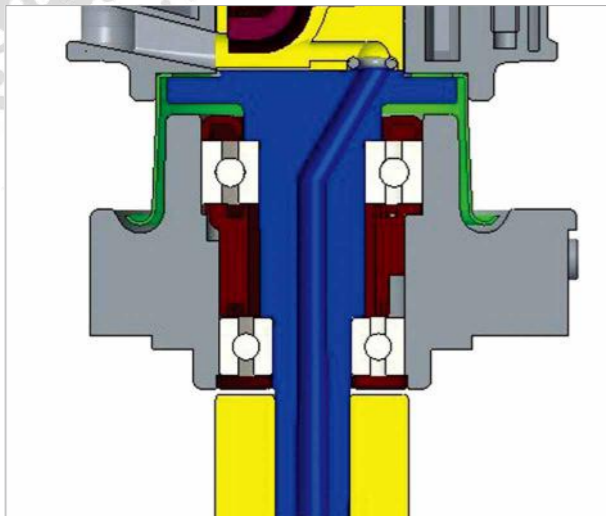


**少能耗**  
双轴承锭子结构，有效减少锭子能耗；优良的锭子结构，有效减少纱线气圈能量消耗。

**Less Energy Consumption**  
Double-bearing spindle structure to effectively reduce energy consumption of spindle; Excellent spindle structure to effectively reduce energy consumption of yarn balloon.

短纤倍捻机

SHORT FIBER TWO-FOR-ONE TWISTER



少维护  
固定式轴承结构，有效减少中间换油工作。

**Less Maintenance Requirement**  
Fixed bearing structure to effectively reduce the oil change in the middle process.



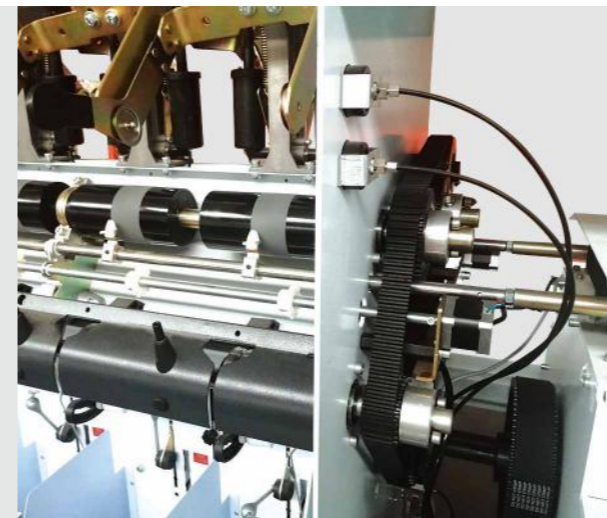
上蜡装置（选配）  
上蜡工艺可以再纱线驱动的上蜡装置上完成，用以减少纱线在下道工序中的摩擦力。

**Waxing Device (Optional)**  
The waxing process can be completed by the waxing device driven by yarn, which can reduce the friction force of yarn in the next stage.



少占用场地  
紧凑型设计，可减少占地面积10%以上。

**Less Space Requirement**  
Compact design, which can reduce floor area of machine by more than 10%.



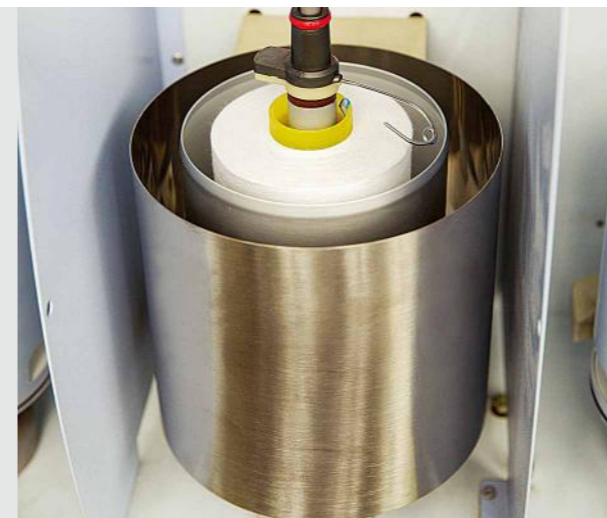
独立机械留尾纱装置（选配）  
机械留尾纱装置采用步进电机独立驱动，结构简洁，留尾精度高，尾纱长度可在触摸屏上按需调整。

**Independent Mechanical Keep Tail Device (Optional)**  
The mechanical keep tail device adopts stepping motor to drive independently, the structure is simple, the tail precision is high, and the tail yarn length can be adjusted on the touch screen as require.



输送带落纱装置（选配）  
通过输送带将纱线将输送到车尾，实现定点落纱功能，有效减少人工的搬运过程，降低劳动强度。

**Conveyor Belt Doffing Device (Optional)**  
The conveyor belt is used to convey the yarn to tail box, and realizes fixed-point doffing function, which can effectively reduce manual handling process and reduce labor intensity.



气圈罩（选配）  
气圈罩决定了气圈的最大直径。它固定在机器中央墙板上。与不带气圈罩锭子相比，其优点是：

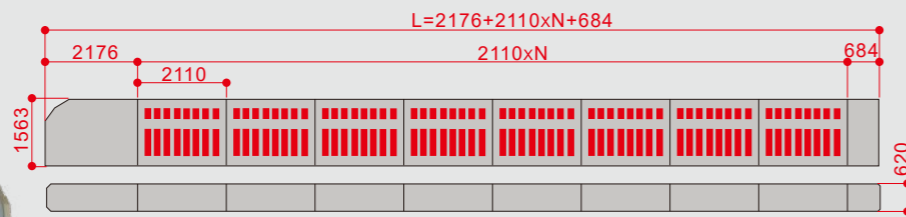
- 更高的锭子转速
- 更低的能耗
- 降低了气圈张力

**Balloon Limiter (Optional)**  
The balloon limiter determines the maximum diameter of balloon. It is fixed on the central wall board of the machine. Compared with the spindle without limiter, the advantages of balloon limiter go as follows:

- Higher spindle speed
- Lower energy consumption
- Reduction of balloon tension



RFTS30D是在RFTS20D基础上优化设计的全新气动倍捻机。新增以下优点：  
Based on existing RFTS20D short fiber two-for-one twister machine, the new pneumatic two-for-one twister machine has been optimized. Add following advantages:

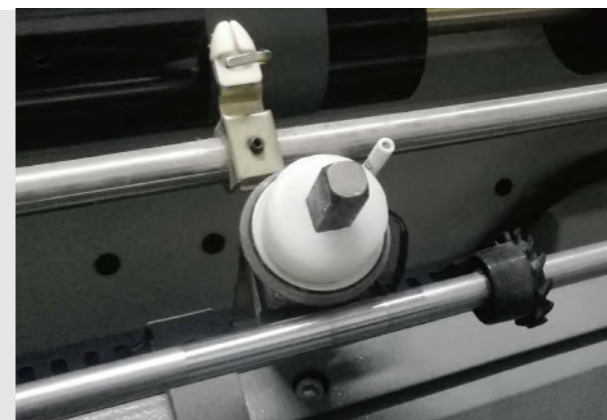


外观新颖，流线型工业设计。  
Novel appearance and streamlined industrial design.



更合理的卷取三角区，可扩展多种配置，提升成纱各项性能指标。

More reasonable winding triangle area, which can expand various configurations, and improve various performance indicators of yarn.



可配置独创的单锭上蜡装置，步进电机匀速驱动蜡盘旋转，转速根据不同纱线、不同工艺方便可调，保证每段纱线上蜡均匀，提高后道生产效率及产品质量。

It can be equipped with unique waxing device, with one single spindle to drive wax tray to ensure waxing consistency. Speed adjustable according to different yarn, different process, ensure each yarn waxed evenly, improve the production efficiency and product quality for post process.



RFTF20D是我司开发的中卷装倍捻机,其适合POY、HDY、FDY、DTY等各种长纤维的单股或多股的加捻也适合各类地毯纱、草坪丝及各短纤粗纱的加工。其主要特点如下:

- 可实现最大卷装可达4kg。
- 满足部分纱线直接原料加工的要求,减少倒筒的工序。
- 采用铝制筒子架结构,保证纱线成型的稳定性。
- 部分纱线工艺可以选配气动引纱的功能,有效提升伸头的效率。
- 锭子采用双轴承结构,运行稳定性更佳,维护更方便。

The product is a medium-package two-for-one twister machine developed by our company. It is suitable for single or multi-strand twisting of various filament fibers such as POY, HDY, FDY, DTY, etc. Also suitable for the processing of all kinds of carpet yarn, lawn yarn and various staple coarse yarn. Its main features are as follows:

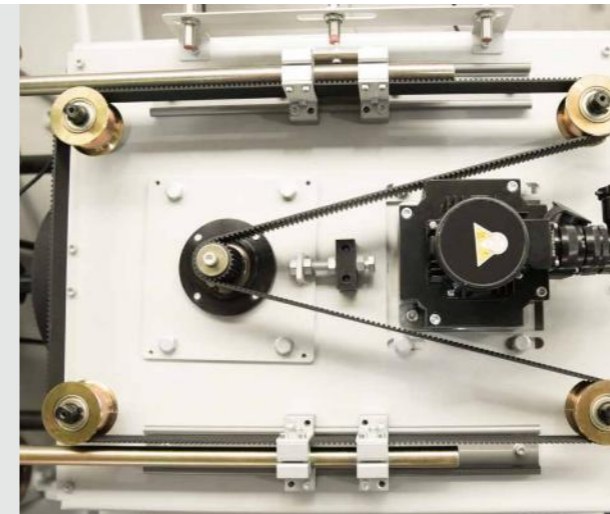
- It can achieve a maximum package size of up to 4kg.
- Meet the requirements of direct processing of some yarns and reduce the process of rewinding.
- Aluminum creel structure ensures the stability of yarn forming.
- The yarn process can be equipped with the function of pneumatic yarn feeding to effectively improve the efficiency of piecing,
- The spindle adopts double bearing structure for better running stability and easier maintenance.

### 倍捻机 TWO-FOR-ONE TWISTER



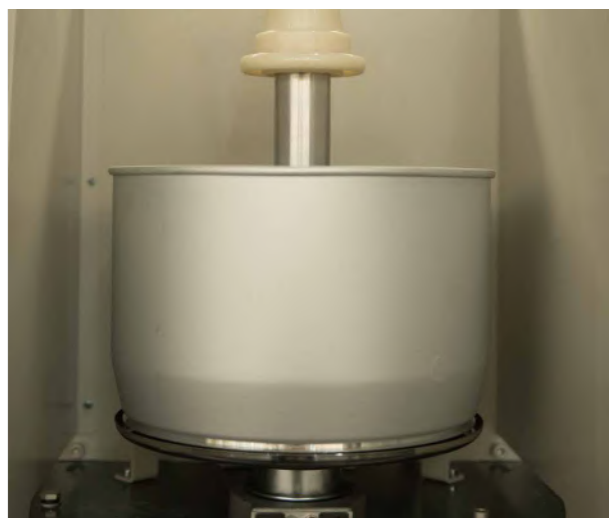
最大卷取速度可达120m/min，适合低捻度产品的加工。触屏设置工艺参数，减少生产辅助工时，提高效率降低生产成本。

The max take-up speed can reach up to 120m/min, which is suitable twisting yarn with low twist. The processing parameter is set on touch screen, reducing the production time, increasing efficiency, and reducing production cost.



采用电子成形能达到集体收边功能。

Electric forming are adapted to realize collectively shrinking side.



供纱原料重量达到5kg，化纤原料可直接使用加弹后的原料筒纱。

The weight of feeding yarn can reach up to 5kg, and filament fiber materials can directly use textured yarn.



筒子架恒压设计，提高成形质量。

The constant pressure for creel improves the forming quality.



紧凑型设计，可减少占地面积10%以上。

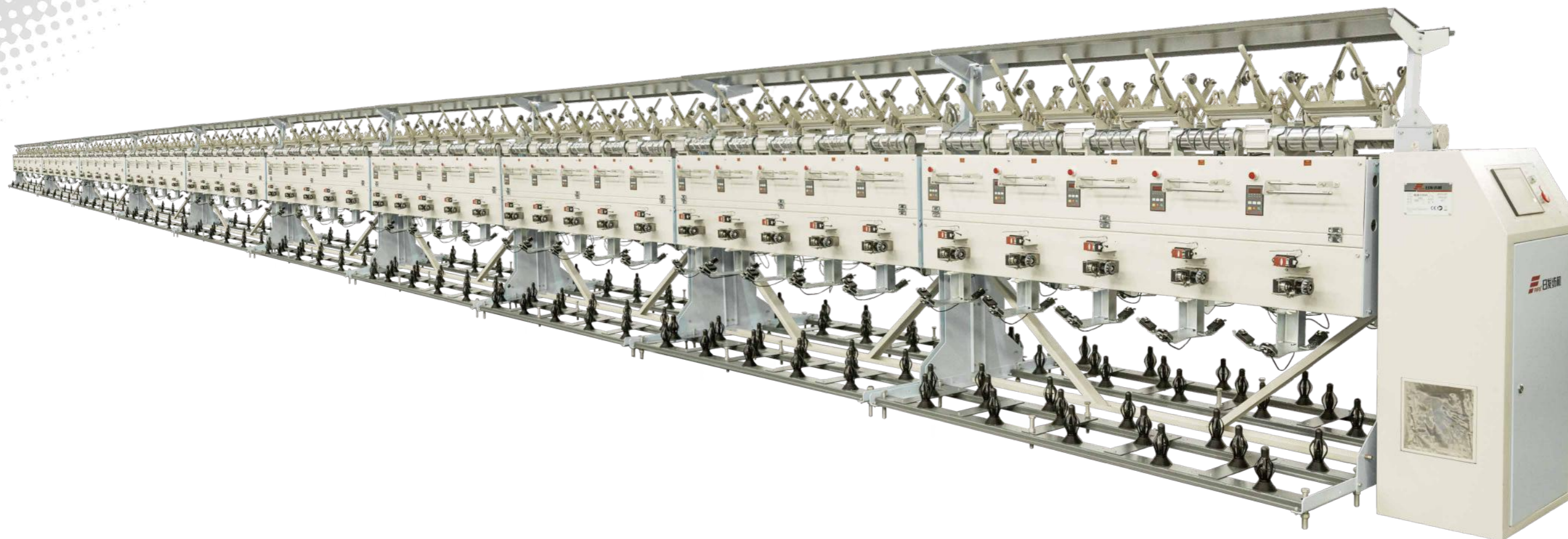
The compact fuselage reduces floor space at least 10%.



配备数据采集接口，可监控设备运行状态。

The machine is equipped with data collect interface to monitor the running status of the machine.





此产品是在原先槽筒并纱机的基础上, 优化导纱线路而推出的全新槽筒式并纱机。产品可把2~3股棉、麻、毛及部分混纺纱线并合卷绕成并纱筒子, 适用于倍捻机等后道工序的加工。其优点主要有:

- 全新的筒子架结构, 满足纱线运行的稳定性。
- 优良的过丝道结构, 确保纱线高速运行。
- 优化的槽筒结构, 可以大幅度减少分纱现象的产生。
- 全新的控制系统, 满足不同客户的工艺要求。

This product is a new assembly winder machine with grooved drum that is based on the original model and optimizes the yarn guiding path. The product can be used to combine 2~3 strands of cotton, hemp, wool and partial blending yarns into a doubling bobbin, which is suitable for processing of subsequent processes such as two-for-one twister machine. Its main advantages include:

- Whole new bobbin creel structure to meet the stability requirement of yarn operation.
- Excellent yarn passing passage structure to ensure high-speed running of yarn.
- Optimized grooved drum structure can greatly reduce occurrence of yarn splitting.
- Whole new control system to meet the process requirements of different customers.

### 高速并纱机

### HIGH SPEED ASSEMBLY WINDER MACHINE



本产品可以把2-3股棉、毛及混纺纱线合并卷绕成并纱筒子，适用于倍捻机等后道工序的加工。

This product can merge and wind 2-3 strands of cotton, woolen or blending yarns into doubling bobbin, which is suitable for processing of subsequent processes such as two-for-one twister machine.



直线型纱路设计，运行速度更高，对纱线的损伤更小，从而满足稳定高速的要求。

Straight-line yarn passage design, with higher running speed, less damage for yarn, which can satisfy the requirement for high speed.



实行机电一体化设计制造，结构简练，易安装调整，操作简单方便。

It is designed and manufactured in form of mechanical-electrical integration, with simple structure, easy for installation and adjustment, convenient for operation.



单锭直连槽筒电机、电子锭长、满筒自停、电子防叠、变频调速、单锭控制、断纱自停、单锭清零、数据记忆。

Single-spindle direct-connection grooved drum motor, electrical fixed length, automatic stop after full bobbin, electric anti-fold, frequency conversion speed regulation, single spindle control, automatic stop after yarn break, single spindle reset, and data memory.



触屏设置工艺参数、产量统计等功能。

Functions including touch screen setting of processing parameters, production statistics, etc.



可选配置：隔纱板、空气捻接器、清洁装置、筒纱输送装置、空气捻接器。

Optional configuration: separator plate, air splicer, cleaning device, bobbin yarn conveyor and air splicer.



公司在吸收国内外有关先进技术的基础上自行设计研制的一种新型精密并纱机，技术水平行业领先，通过精密计算排列纱线的轨迹，在不增加张力的情况下，卷绕密度可提高30%以上，为倍捻机节能提供必要条件。单锭单控，所有功能可以在控制终端上管理操作，实时监控。其优点主要有：

- 可实现高密度的卷装要求，最高密度可达到0.65g/cm<sup>3</sup>，通过精密并纱的配合，在下道倍捻机的工序中可以选择更节能的锭子，即在容量不改变的情况下，倍捻机可采用小一规格锭子纱罐，如此一来可以大幅降低能耗。
- 成型方式可以多种多样，卷绕角度可以自行设定，为高支纱和小张力卷绕提供了先决条件，使后道倍捻机加工高品质纱线时退解状态更优。

On the basis of absorbing advanced technologies at domestic and abroad, our Company has designed and developed a new type of precision assembly winder machine with leading technical level in the industry. By precise calculation and arrangement of yarn track, the winding density can be increased at least 30% without increasing tension. It adopts single spindle control mode, with all functions managed and operated on the control terminal, which can realize real-time monitoring. The main advantages include:

- High-density package requirement, with the maximum density up to 0.65g/cm<sup>3</sup>. In combination with the precision doubling, a more energy conservation spindle can be selected in the process of the next process of twister. Keep yarn capacity not change, the twister machiens can use smaller size spindles pot, which can greatly reduce energy consumption .
- Various forming methods and customized setting of winding angle provide a prerequisite for highcount yarns and small tension package, achieving better unwinding state when processing highquality yarn in next stage of two-for-one twister.

精密并纱机

PRECISE ASSEMBLY WINDING MACHINE



**卷装容量**  
通过精密排列，密度提高30%，卷装容量提高30%。

**Winding Package Capacity**  
Though precise arrangement, the density is increased by 30% and the winding capacity is increased by 30%.



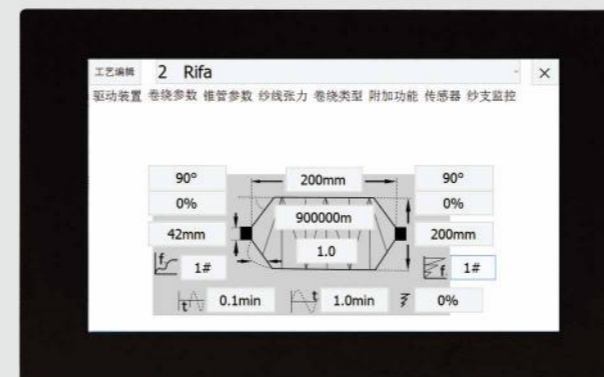
**生产线速**  
生产速度高，最大线速1200米/分钟，可根据不同原料特性，设置适合的速度和成型工艺，极大地提高生产效率。

**Production Yarn Speed**  
High yarn production speed, with max. yarn speed of 1200 m/min, Based on different raw materials, set suitable speed and process which can improve production efficiency.



**退解张力**  
后道倍捻工序退解张力均匀，断头几率减少。相对槽筒并纱一个往复5圈，RFAW22 最高可设12圈，倍捻气圈张力稳定，纱线捻度更加均匀。

**Unwinding Tension**  
Unwinding tension is even in the next process of twisting, with possibility of yarn broken ends. Compared to 5 circles as one round trip for grooved drum winder machine, RFAW22 precision assembly winder machine can set max. 12 circles. The twist balloon tension is stable and yarn twist is more even.



**单锭控制系统**  
计长精度高，精度可控范围千分之五以内，长度一致性好。动程及斜角（收边）无极可调，通过修调可有效避免“菊花心”、“凸边”等现象。

**Single Spindle Control System**  
Yarn length meter with high accuracy, precision rate within 0.5%, also yarn length is with good consistency. The traverse and oblique angle can be adjusted steplessly, and the "chrysanthemum heart" and "convex edge" can be avoided effectively by adjusting.



**横动导纱**  
采用电子横动导纱，完全解决槽筒式分纱和油污纱等问题。

**Traverse Yarn Guide**  
Adopt electronic traverse yarn guide mode, which completely solves the problems of yarn splitting of grooved drum and oil-spotted yarn.

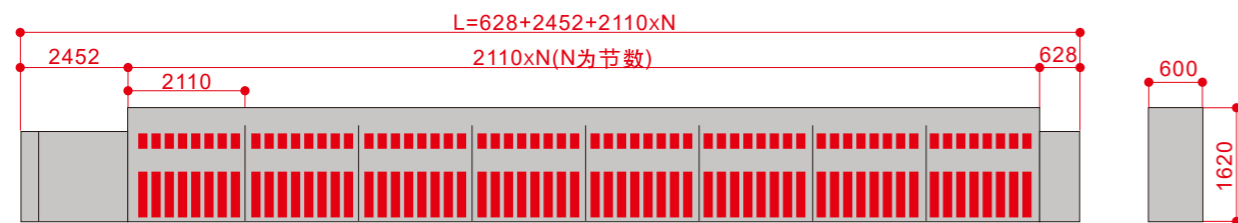
### 技术规格和尺寸图

### SPECIFICATION&DIMENSIONS

项目 Items	技术指标 Parameters
适用支数范围 Applicable Yarn Range	Ne3/2~160/2棉纱、涤棉、毛纺及其混纺 Ne3/2~160/2 cotton yarn, polyester-cotton blend, wool yarn, blended yarn, etc.
节数 No. of Sections	≤13, 标准10节 ≤13, Standard 10 sections
捻度范围 Twist Range	80~2500T/M (无极可调) 80~2500T/m (Stepless-adjusted)
捻向 Twisting Direction	S或Z捻 S or z twist
卷绕动程 Winding Travel Route	152mm内无极可调 152mm (Stepless-adjustable)
卷绕角 Winding Angle	任意可调 Adjustable at will
额定功率 Rated Power	标准22kW+1.3kW+2.5kW 22kW+1.3kW+2.5kW
卷取筒管 Winding Bobbin	筒管长度170±1mm, 顶盘19mm, 26mm, 28mm,34mm, 40mm, 45.5mm, 55mm, 58.5mm, 67.5mm, 68mm Bobbin length170±1mm,plate 19mm, 26mm, 28mm,34mm, 40mm, 45.5mm, 55mm, 58.5mm, 67.5mm, 68mm
供纱筒管尺寸 Supply Bobbin Size	Ø37.5×Ø43.5×170 (230)
锭子张力器 Spindle Tensioner	胶囊式 Capsule-type
启动方式 Start Mode	软启动 Soft start
操作形式 Operation Form	双面单层, 气动引纱 Double-side and single-layer, pneumatic yarn drawing
筒子抬升 Bobbin Lifting	单锭延时气动抬升 Single spindle delayed pneumatic lifting
卷绕直径 Winding Diameter	最大Ø280mm MaxØ280mm
卷取速度 Winding Speed	最大80米/分 Max 80 m/min
锭子传动方式 Spindle Driving Mode	龙带直接传动, 变频无极调速 Tangential belt drive directly, stepless adjust speed with inverter
卷绕方式 Winding Mode	断电同步电子系统 Power-off synchronous electronic system

项目 Items	技术指标 Parameters
锭距 Spindle Gauge	208mm 231mm 260mm 297mm
单节长度 Single Section Length	2110mm
锭子型号 Spindle Type	126 136 146 156 166 196
每节锭数 No. of Spindles / Section	20 18 16 14
锭速范围 Spindle Speed Range	5000-14000r/min

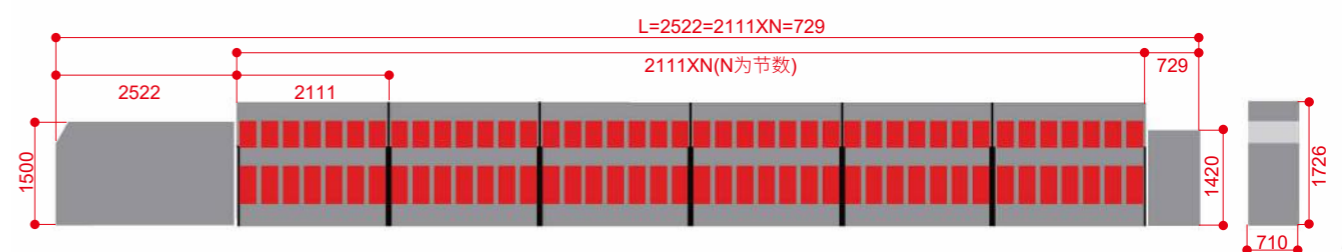
RFTS20D 外形尺寸图 Machine Dimension Drawing



项目 Items	技术指标 Parameters
操作形式 Operation Form	双面单层, 手动引纱/气动引纱 Double sides single layer, manual yarn threading
捻度范围 Twist Range	70~500T/m
捻向 Twisting Direction	S或Z捻 S or Z twist
锭距 Spindle Gauge	297mm, 347mm
锭数 No. of Spindles	14 锭/节, 12 锭/节, 14 Spindles per sections, 12 Spindles per sections
锭子 Spindle	166 锭子, 196 锭子, 250 锭子 166 Spindle, 196 Spindle, 250 Spindle
锭速范围 Spindle Speed Range	3000~9000 r/min
锭子张力器 Spindle Tensioner	钢球式、胶囊式 Steel ball type, capsule type
供纱筒管尺寸 (长度) Length Of Feeding Bobbin	290mm
卷取筒管尺寸 (长度) Length Of Winding Bobbin	直管 230mm, 290mm 230mm, 290mm Straight tube
卷绕动程 Traverse Length	无极可调 Stepless-adjusted
卷绕直径 Winding Diameter	最大Ø230 Max Ø230
额定功率 Rated Power	标准 15kW*2+2.5kW+1.5kW Standard 15kW*2+2.5kW+1.5kW
启动方式 Starting Mode	软启动 Soft start
卷绕角 Angle Of Wind	直接设定 (无极可调) Set directly (Stepless-adjusted)
导丝器往复次数 Reciprocating Number	最大70次 Max 70 times
卷取速度 (米/分) Take-Up Speed	最大120米/分 Max 120 m/min
锭子传动方式 Spindle Driving Mode	电机直接驱动, 变频无极调速 Motor direct drive, variable frequency stepless speed regulation
收边方式 Shrinking Side Mode	集体收边 Collective shrinking side
控制方式 Control Mode	电子化集成控制 Electronic integrated control

项目 Items	TF20A	TF20B (棉纱 Cotton Yarn)	锭子型号 Spindle Type	纱罐型号 Spinning Pot Type	锭距 Spindle Gauge (mm)	卷绕动程L Winding Stroke mm (≤)	卷装量W Volume Of Packaging kg (≤)
适用纱线 Scope Of Application	75D~800d 化纤长丝	合股后 ne2~10 的多股棉纱					
超喂罗拉 Over-Feed Roller	70D~500d chemical fiber	Multi-ply cotton yarn after ne2~10	166	204	297	210	3
纱罐 Yarn Tank	双辊罗拉	棉纱罗拉	166	220	297	210	4
衬锭 Lining Ingot	矮纱罐	高纱罐	196	220	297	210	4
	呼啦圈式	锭翼式	250	250	347	270	5

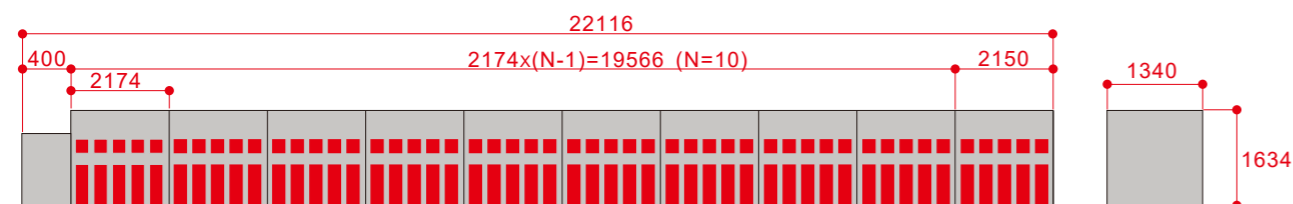
RFTF20D 外形尺寸图 Machine Dimension Drawing



### 技术规格和尺寸图 SPECIFICATION&DIMENSIONS

项目 Items	技术指标 Parameters
机器型式 Type Of Machine	双面单层 Double side, single layer
锭距 Spindle Gauge	415mm
纱线类型 Yarn Type	棉、毛、麻、涤等短纤纱 Cotton yarn, wool yarn, polyester yarn, blending yarn, etc
锭数 No. of Spindles	标准100锭, 10锭/节 Standard 100 spindles, 10 spindle/ section
并和股数 Yarn Strands No. Of Merging	2-3股 2-3Ply
防叠方式 Anti-stack Mode	电子间歇式及槽筒防叠 Electric intermittent type and grooved drum anti-fold
驱动方式 Driving Mode	单锭电机直驱 Single spindle motor direct driving
卷绕形式 Winding Mode	随机卷绕 Random winding
导纱方式 Guiding Yarn Mode	槽筒式 Groove drum
导纱动程 Yarn Guide Travel Route	152mm (6") 212mm (8")
最大线速度 Max Yarn Speed	800m/min
最大卷装直径 Max Package Diameter	Ø200mm
张力控制 Tension Control	弹簧压紧式 Spring compression type
断纱监控方式 Yarn Break Monitoring Method	光电式断纱检测自停并切断 Photoelectric break yarn detection, automatic stop and cut-off
电机功率 Motor Power	0.09kW/锭 (6") 0.12kW/锭 (8") 0.09kW/spindle (6") 0.12kW/spindle (8")

RFAW20-415-100(415锭距10节) 外形尺寸图 Machine Dimension Drawing



项目 Items	技术指标 Parameters
适用纱线 Suitable Yarn	棉、毛短纤维纱线或者棉、毛短纤维纱线与氨纶 Cotton and wool short fiber yarns or cotton, wool short fiber yarns and spandex
支数范围 Yarn Count Range	10-3000 Dtex ne3-80 (nm5-135)
供纱直径 Feeding Yarn Diameter	最大可达230 mm Maximum: 230 mm
满卷重量 Full Package Weight	最大5kg Maximum: 5kg
锭子排列 Spindle Arrangement	单面布置或双面布置 Single sided or double sided arrangement
传动装置 Transmission Device	单锭 Single spindle
每节锭数 No. of Spindles / Section	标配4锭 Standard 4 spindles
锭数 No. of Spindles	单面最大60锭, 双面最大120锭 Max. 60 spindles for single-sided, max. 120 spindles for double-sided
锭距 Spindle Gauge	标配450mm Standard 450mm
节距 Section Length	1944mm
卷绕形式 Winding Mode	数码卷绕、精密卷绕 Digital winding, precise winding
卷装形式 Package Form	可自由编程 Program freely
筒管形状 Bobbin Type	空管最小直径:内径 37.5mm外径43mm Minimum diameter of empty bobbin; Inner diameter of 37.5mm, outer diameter of 43mm
空管长度 Length of Empty Bobbin	170mm或230mm 170mm or 230mm
卷取直径 Winding Diameter	最大280mm Maximum: 280mm
横动长度 Traverse Length	50*210mm
机械速度 Mechanical Speed	最大1200m/min(工艺速度取决于纱线与工艺参数) Maximum 1200m/min (Process speed depends yarn and technical parameters)
电源频率 Power Frequency	50/60Hz
每锭装机功率 Installed Power Per Spindle	0.2kW 0.2kW/spindle
每锭实际消耗功率 Actual Power Consumption Per Spindle	0.05-0.10 kW (根据工艺不同而不同) 0.05-0.10 kW/spindle (Vary depending on different processes)
巡回式吹吸风机功率(选配) Overhead Blower Power (Optional)	1.1kW
环境条件 Environmental Conditions	空气温度20-30°C相对湿度(无冷凝水) 50%-75% Air temperature 20-30°C relative humidity (without condensate water) 50%-75%
可选配置 Optional	电清; 张力传感器; 氨纶装置; 单纱张力辅助装置 yarn cleaner; tension sensor; spandex device; single yarn tension auxiliary device

锭距 Spindle Gauge (mm)	每节锭数 No. of Spindles / Section	合股数 Merging Quantity	节长 Length Of 1 Section	空管长度 Length of Empty Bobbin
400	5	2	2084	170~200
450	4	3	1944	170~230
470	3	4	2194	230~290

