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捻线系统

TWISTING SYSTEM

加捻系列
TWISTER SERIES

并纱系列
WINDER SERIES



江苏鑫至诚智能装备有限公司

JIANGSU SINFOR INTELLIGENT EQUIPMENT CO., LTD.

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INTRODUCTION OF ENTERPRISE

With the maturity of artificial intelligence technology, human beings will enter the era of intelligence in the 21st century. This is a revolutionary change. A large number of artificial intelligence technologies, such as natural language processing, computer vision, machine learning, intelligent automation, robotic process automation and in-depth learning, will fundamentally change the relationship between us and technology. This change will have a significant impact on the way digital enterprises build systems. Same time, it will also provide many new opportunities to help customers and employees achieve their personal and professional goals in their lives and work.

Xin Zhi Cheng adheres to the goal of building intelligent textile equipment, focusing on the research of twist series textile machinery. We have successfully developed twisting equipment to meet the needs of different customers, and it has been recognized by customers. Customer demand is our driving force, strong technology is our resource, Our common mission to realize the intelligent upgrading of twist textile machinery.



企业简介

随着人工智能技术的成熟，21世纪人类将步入智能时代。这绝对是一个革命性的改变，大量的人工智能技术，如自然语言处理、计算机视觉、机器学习、智能自动化、机器人过程自动化和深度学习等，将会从根本上改变我们与技术之间的关系。这种变化的关系将对数字化企业构建系统的方式产生重大影响。同时，它还将提供许多新的机会，帮助客户和员工在他们的生活和工作中完成个人和职业目标。

鑫至诚秉承于打造智能纺织装备为目标，专注于研究捻线系列纺织机械。现已研发成功满足不同客户工艺需求的捻线设备，并得到了客户的认可。客户的需求是我们动力，强有力的技术是我们的资源，实现捻线纺织机械的智能化提升是我们共同的使命。

品质

加捻系统专件

- ◎超级节能降噪设计。
- ◎适合高速运转(最高转速可达14000转)。
- ◎稳定性高,使用寿命长。

卷绕系统结构

- ◎大承载设计,运转稳定。
- ◎特殊导纱路线,成形良好。
- ◎高精度变频器控制、可靠的伺服电机横动导纱独立驱动。

工艺系统积累

- ◎纱线加捻通道特殊处理,纱线摩擦小,适合高品质纱线加捻。
- ◎多种可选工艺配置。
- ◎拥有各领域的客户,实现工艺积累。

QUALITY

SPECIAL COMPONENTS OF TWISTING SYSTEM

- ◎Super energy saving and noise reduction design
- ◎Suitable for high-speed rotation (with a maximum of 14000 RPM)
- ◎High stability, long working life.

STRUCTURE OF WIDING SYSTEM

- ◎Big bearing capacity and stable rotation
- ◎Special guide routine, and good shape
- ◎High-precision frequency converter control and reliable Traversed offing individual drive with servo motor

PROCESSING ACCUMULATION

- ◎Yarn twisting channel is processed especially with little fraction, which is suitable for high quality yarn twisting.
- ◎Multiple processing configuration
- ◎Have application customers in various fields to achieve process accumulation.



系统

技术系统

- ◎专业纺织机械研究中心及实验室。
- ◎业界顶尖的设计管理软件
- ◎不断增加的专利技术。

制造系统

- ◎国际高精度专业锭子全流程制造系统。
- ◎全进口钣金自动生产线。
- ◎德国全自动喷涂生产线。

检测系统

- ◎高效稳定的品质检测体系。
- ◎全套锭子在线专业检测设备。
- ◎进口整机制造零部件工艺检测设备。

产量

$$\text{产量 (kg)} = \frac{\text{纱速} \times \text{工作时间} \times \text{锭数} \times \text{工作效率}}{\text{公支数} \times 1000} \text{ (kg)}$$

其中: 纱速 = $\frac{\text{锭速} (r/min) \times 2}{\text{捻度} (T/m)}$ m/min
 Nm (metric count) = Ne (count) x 1.715
 例如 (Example) Cotton (Ne60S/2) . 850T/M, 11000r/Min, 180Spindles

$$\text{纱速} = \frac{11000 \times 2}{850} = 25.9 \text{ m/min}$$

$$\text{Nm} = 60 / 2 \times 1.715 = 51.54$$

$$\text{产量} = \frac{25.9 \times 24 \times 60 \times 180 \times 0.98}{51.45 \times 1000} = 127.9 \text{ kg/天 (kg/Day)}$$

SYSTEM

TECHNICAL SYSTEM

- ◎Professional spinning machine research center and labs
- ◎Top design and management software in the industry
- ◎Increasing patented technology

MANUFACTURING SYSTEM

- ◎International entire process manufacturing system for high precision professional spindle
- ◎Imported mental automatic production line
- ◎Germany automatic spraying production line

DETECTING SYSTEM

- ◎Efficient and stable quality detection system
- ◎Professional online detection equipment of a full set of spindles
- ◎Detection equipment for manufacturing components by imported machine

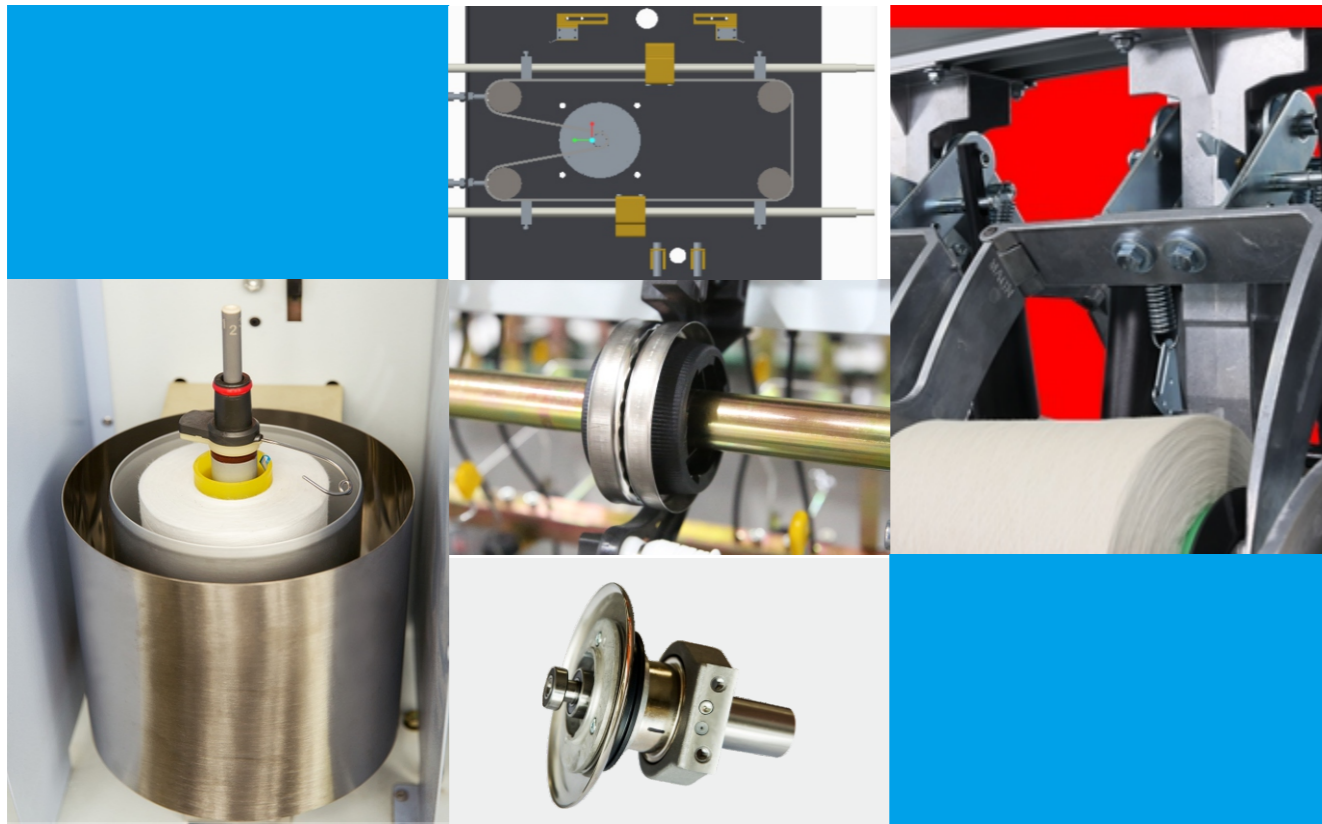
$$\text{Production (kg)} = \frac{\text{Yarn speed} \times \text{working time (minute)} \times \text{No. of spindle} \times \text{Efficiency}}{\text{Nm (metric count)} \times 1000} \text{ (kg)}$$

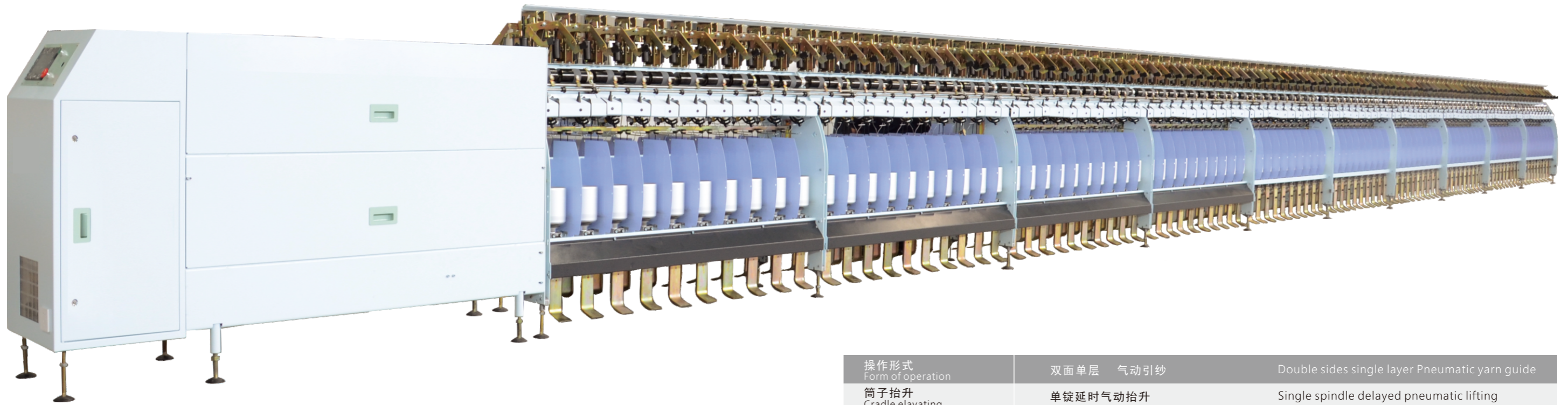
$$\text{Yarn speed} = \frac{\text{spindle speed} (r/min) \times 2}{\text{No. of twists} (T/M)} \text{ m/min}$$

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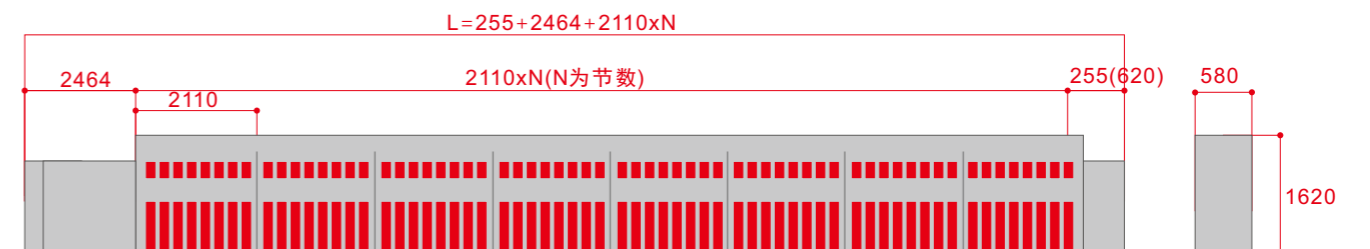
操作形式 Form of operation	双面单层 气动引纱	Double sides single layer Pneumatic yarn guide
筒子抬升 Cradle elevating	单锭延时气动抬升	Single spindle delayed pneumatic lifting
卷绕直径(mm) Take-up diameter(mm)	最大φ280	Max φ280
卷取速度(米/分钟) Take-up speed(m/min)	最大80米/分	Max 80(m/min)
锭子传动方式 Spindle driving	电机直接驱动, 变频无级调速 Direct motor drive, Stepless speed regulation of frequency conversion	
卷绕方式 Winding mode	断电同步电子系统 Power-off synchronous electronic system	

技术参数Specification

适用支数范围 Suitable yarn range	Ne3/2~160/2棉纱、涤棉、毛纺及其混纺纱 Ne3/2~160/2 cotton yarn, CVC, wool yarn, blended yarn, etc	
节数 No. of sections	≤13, 标准10节	≤13, standard 10 sections
捻度范围(T/M) Twist(T/M)	80~2500T/M(无级可调)	80~2500T/M(Stepless- adjusted)
捻向 Twist direction	S或Z捻	S or Z Direction
卷绕动程 Traverse length	152mm	152mm (Stepless- adjusted)
卷绕角 Angle of wind	任意可调	Setting direct(Stepless-adjusted)
额定功率(KW) Rated power(KW)	标准22kw+1.3kw+2.5kw	
卷取筒管 Winding bobbin	筒管长度170mm Bobbin length 170mm	顶盘(plate) □18.2mm □26mm □34mm □40mm □58.5mm □66.8mm □68mm
供纱筒管尺寸(内径×外径×长度) Supply bobbin size	Øφ37.5×φ43.5×170(230)	
锭子张力器 Spindle tensioner	胶囊式	Capsule
启动方式 Start mode	软启动	Soft start

可选技术参数 Options

锭距 Spindle gauge	208mm 231mm 260mm 297mm
单节长度 Single segment length	2110mm
锭子型号 Type of spindle	136、146、156、166、196
每节锭数 Spindles per section	20 18 16 14
锭速范围 Spindle speed	2000-14000r/min

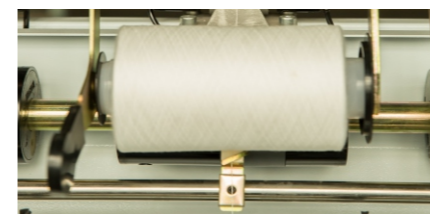
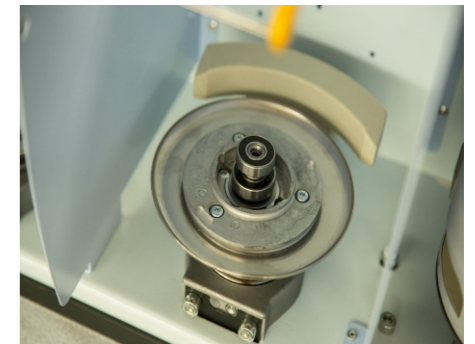
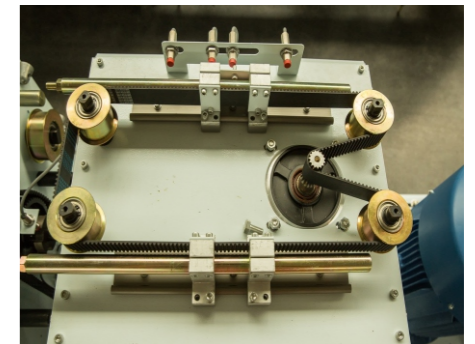


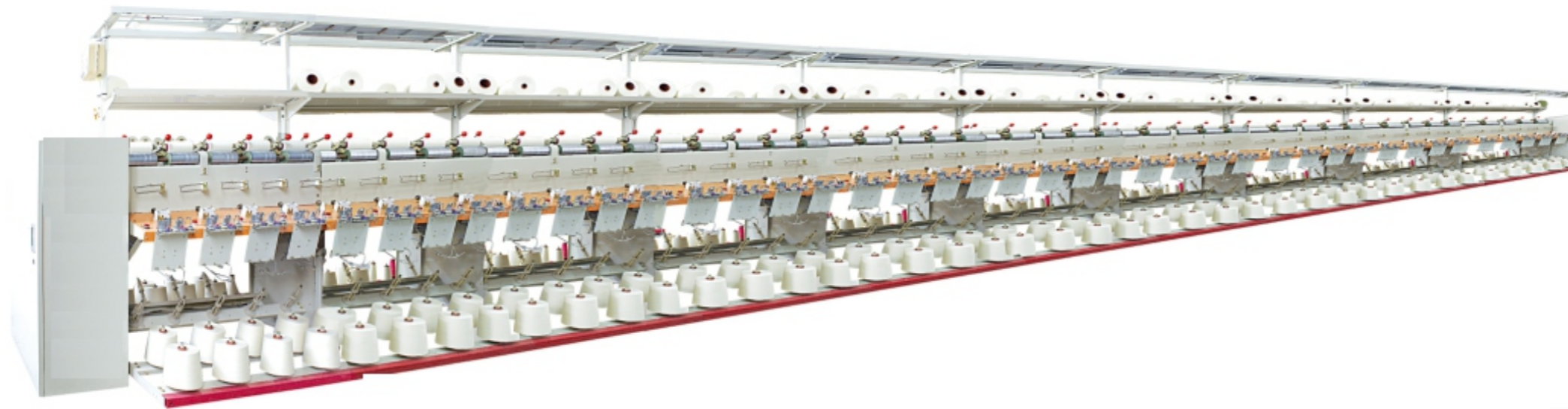


FA80 倍捻机

FA80 TWO-FOR-ONE TWISTER

- NO.1 高品质纱线**
追求更高的捻不匀要求；有效防止多股纱的出现；有效减少油污的污染。
High quality yarn:The pursuit of higher requirement of yarn twist unevenness; Effectively prevent the emergence of multiple strands of yarn; Effectively reduce oil pollution.
- NO.2 高效率**
高锭子转速，有效提升产能；精密成型技术，有效提升后道退解效率。
High efficiency:High spindle speed, effectively increase productivity ; Precision forming technology can effectively improve the efficiency of the yarn reverse.
- NO.3 高稳定性**
良好的加工设备，保障零件稳定性；成熟控制系统，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.
- NO.4 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 for single spindle data display; Data acquisition system, effective implementation of automated production workshop.
- NO.5 少人工**
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。
Less manual labor:The process is simple and convenient; The pneumatic yarn feeding function can effectively improve the piecing efficiency;Centralized doffing device can reduce handling process.
- NO.6 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耗。
Less energy consumption:Double bearing spindle structure, effectively reduce spindle energy consumption; Excellent spindle structure, effectively reduce the energy consumption of yarn balloon.
- NO.7 少维护**
固定式轴承结构，有效减少中间换油工作。
Less maintenance:The fixed bearing structure can effectively reduce the oil change in the middle.
- NO.8 少占用场地**
紧凑型设计，可减少占地面积10%以上。
Less space: The compact design reduces the machine covering area by more than 10%.

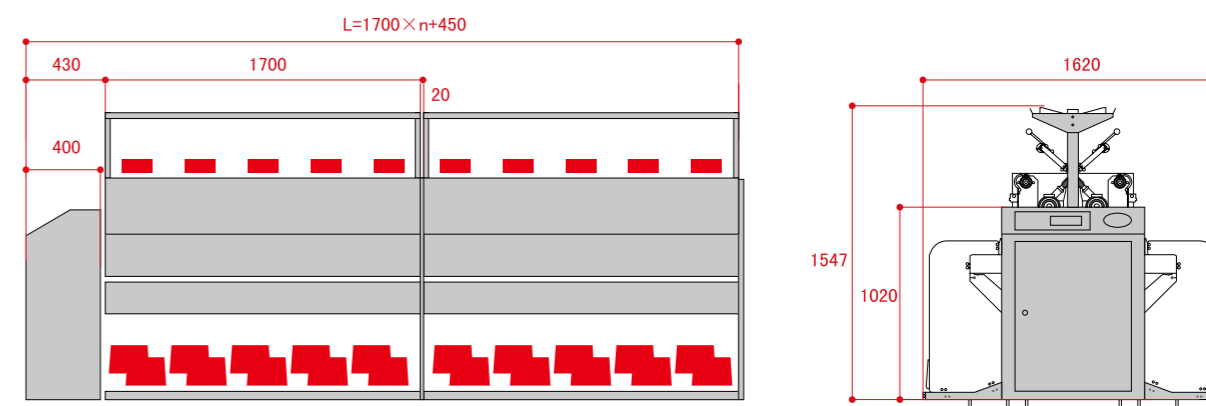




技术参数Options

适用纱线 Suitable yarn	棉、毛短纤维纱线 Cotton and wool short fiber yarns	
支数范围 Yarn count range	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4kg	Maximum:4kg
锭子排列 Spindle arrangement	双面布	double sided
传动装置 Transmission device	单锭	Single spindle
每节锭数 No. of spindles / section	标配10锭(或者8锭)	10spindles(or 8 spindles)
锭位数 No. of spindles and No. of sections	最多120锭	Max 120 spindles
锭距 Spindle gauge	标配340mm	425mm
节距 Section length	1700 mm	
卷绕形式 Package mode	槽筒式	Grooved drum
卷装形式 winding mode	不可调	Not adjustable
筒管形状 Bobbin type	空管最小直径：内径38mm外径43mm Minimum diameter of empty bobbin: Inner diameter 38mm Outer diameter 43mm	
空管长度 Length of empty bobbin	170mm 230mm	170mm or 230mm
卷取直径(mm) Take-up diameter(mm)	最大200mm	Maximum 200mm
横动长度 Traverse length	152 mm或215 mm	

机械速度 Mechanical speed	最大600m/min(工艺速度取决于纱线与工艺参数) Maximum 600m/min(the technical speed depends the yarn and the technical parameters)
电源频率 Supply frequency	50/60Hz
每锭装机功率 Installed power per spindle	0.09kw
每锭实际消耗功率 Actual power consumption per spindle	0.05-0.07kw(根据工艺不同而不同) 0.05-0.07kw(different according to the process)
巡回式吹吸风机功率(选配) Travelling cleaner Power (optional)	1.1kw
	电清；单纱张力辅助装置 Electronic yarn clearer; Tension sensor; Spandex device; Single yarn tension auxiliary device

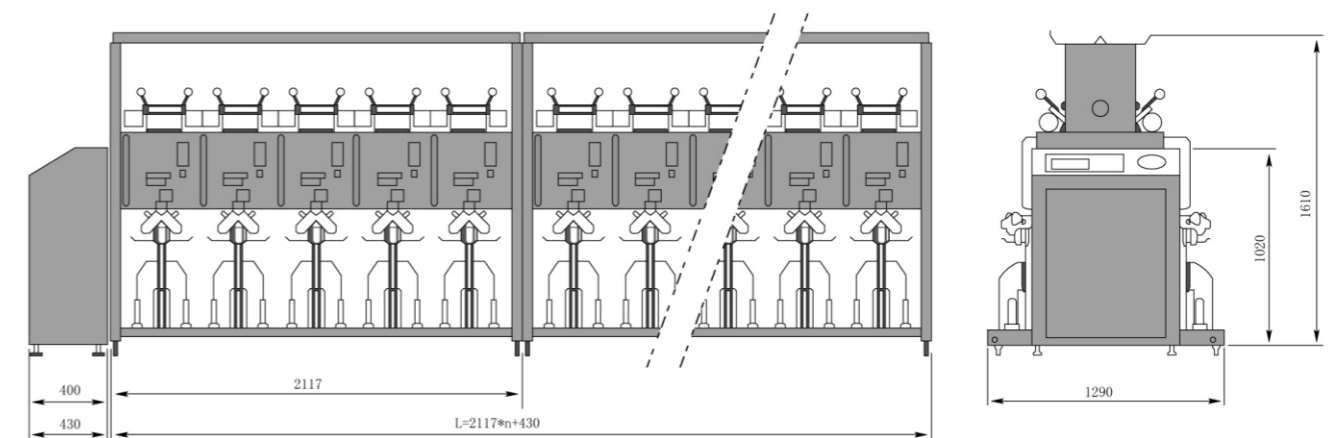




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每节锭数 No. of spindles / section	标配10锭(或者8锭)	10spindles(or 8 spindles)
锭位数 No. of spindles and No. of sections	最多120锭	Max 120 spindles
锭距 Spindle gauge	标配365mm	415mm
节距 Section length	1700 mm	
卷绕形式 Package mode	槽筒式	Grooved drum
卷装形式 winding mode	不可调	Not adjustable
筒管形状 Bobbin type	空管最小直径：内径38mm外径43mm Minimum diameter of empty bobbin: Inner diameter 38mm Outer diameter 43mm	
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机械速度 Mechanical speed	最大800m/min(工艺速度取决于纱线与工艺参数) Maximum 600m/min(the technical speed depends the yarn and the technical parameters)
每锭装机功率 Installed power per spindle	0.1kw



FA80倍捻机可选配置Options

输送带落纱装置(选配)

通过输送带将纱线输送到车尾，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。

THE CONVEYOR BELT DOFFING DEVICE (OPTIONAL)

The conveyor belt conveying the yarn to tail box, fixed-point doffing function. effectively reduce the manual handling process, reduce labor intensity.

上蜡装置(选配)

上蜡工艺可以在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)

Waxing process can be adopted to the waxing device of yarn drive, to reduce the friction of yarn in the next step.

气圈罩(选配)

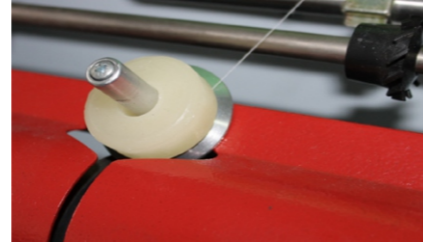
气圈罩决定了气圈的最大直径。它固定在机器中央墙板上。与不带气圈罩锭子相比，其优点是：

- ◎更高的锭子转速
- ◎更低的能耗
- ◎降低了气圈张力

BALLOON LIMITOR (OPTIONAL)

The balloon limiter determines the maximum diameter of balloon.It is fixed on the central wall board of the machine.Compare with the spindle without limiter,advantages of balloon limiter is followed:

- ◎The spindle speed is higher
- ◎Lower energy consumption
- ◎Reducing balloon tension



客户至上

ATTENTIVE SERVICE

用心服务

服务热线

公司拥有独立的服务部分，满足客户的售前、售中以及售后服务。服务热线：0510-86871889

SERVICE HOTLINE

The company has an independent service section to meet customer pre-sales, in-sales and after-sales service.

Service hotline:0510-86871889

服务宗旨

以提高客户设备使用满意度为工作目标；以优先恢复客户生产为基本原则。

SERVICE TENET

Target: Target of work is to improve customer satisfaction with equipment use; Basic principle: to give priority to the production of customer

服务内容

配件供应；设备维修；设备保养；客户培训；技术升级；设备改造；工艺支持；移机调试等。

SERVICES

Pare part supply; equipment repair; equipment maintenance; customer training; technology upgrading; equipment transformation; processing support; relocation and commission, etc.