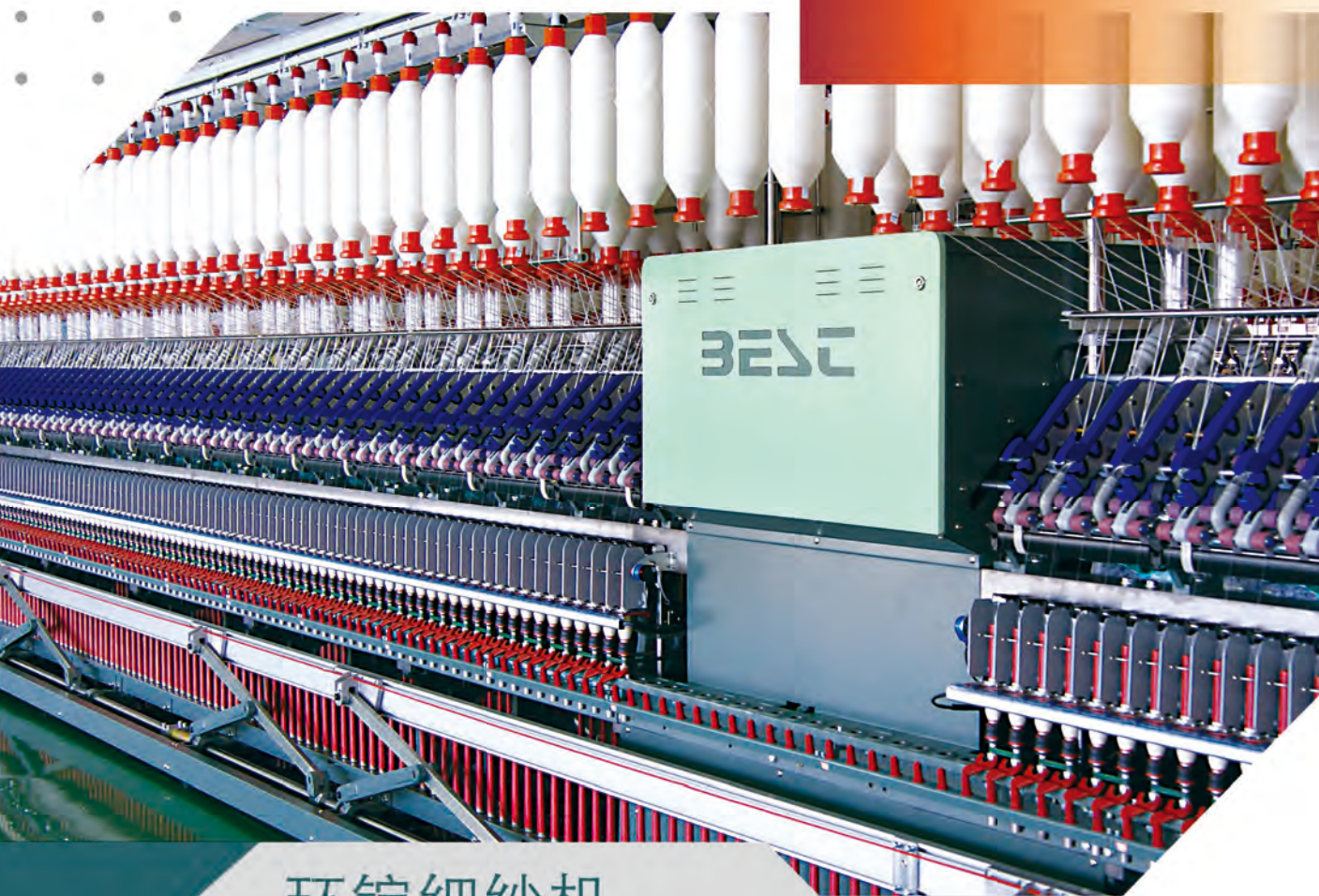


BEST

■ MODEL BS56



## 环锭细纱机

新一代智能型特长系列

A NEW GENERATION OF INTELLIGENT EXTRA-LONG SPINNING FRAME



贝斯特机械制造有限公司  
BEST MACHINERY COMPANY LTD.

## 符合市场需求的 新一代智能化高效节能产品

MEETING WITH THE MARKET DEMAND

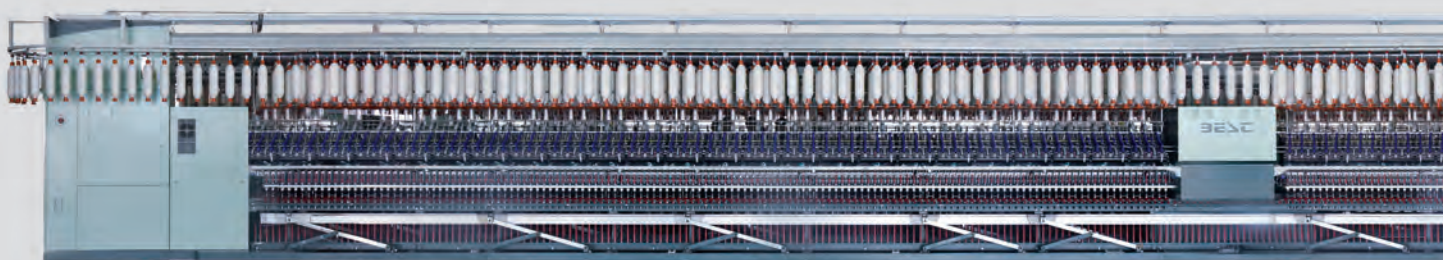
A NEW GENERATION OF INTELLIGENT EFFICIENT ENERGY SAVING PRODUCTS

### BS56 新一代智能型环锭细纱机系列

采用系列化模块化创新设计理念,突破特长细纱机设计制造壁垒,实现特长智能型全系列细纱机的生产,为客户提供灵活多样的智能化解决方案。该产品最长锭数配置达2448锭,使贝斯特细纱机研发技术站在了智能化高速高效高品质纺纱的市场需求的前端。

Higher production and better quality

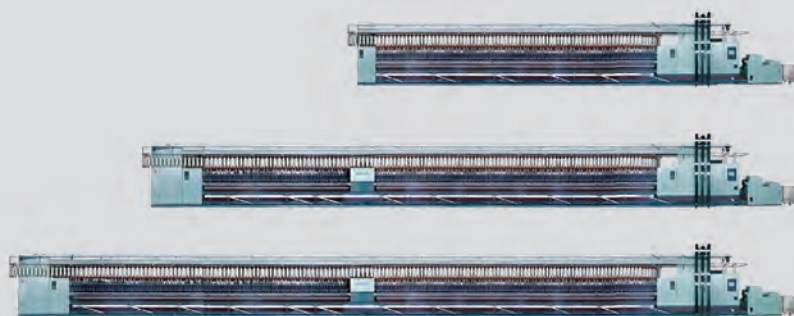
更高产量 更优质量



• BS56 a new generation of intelligent ring spinning frame series, using a series of modular innovative design concept, breaking through the design and manufacturing barriers of extra-long spinning frame, to achieve the production of extra-long intelligent spinning frame, to provide customers with flexible and diverse intelligent solutions. The maximum number of spindles of this product is 2448 spindles, which puts BEST spinning machine research and development technology at the front of the market demand for intelligent, high-speed, efficient and high-quality spinning.

Faster installation, easier maintenance

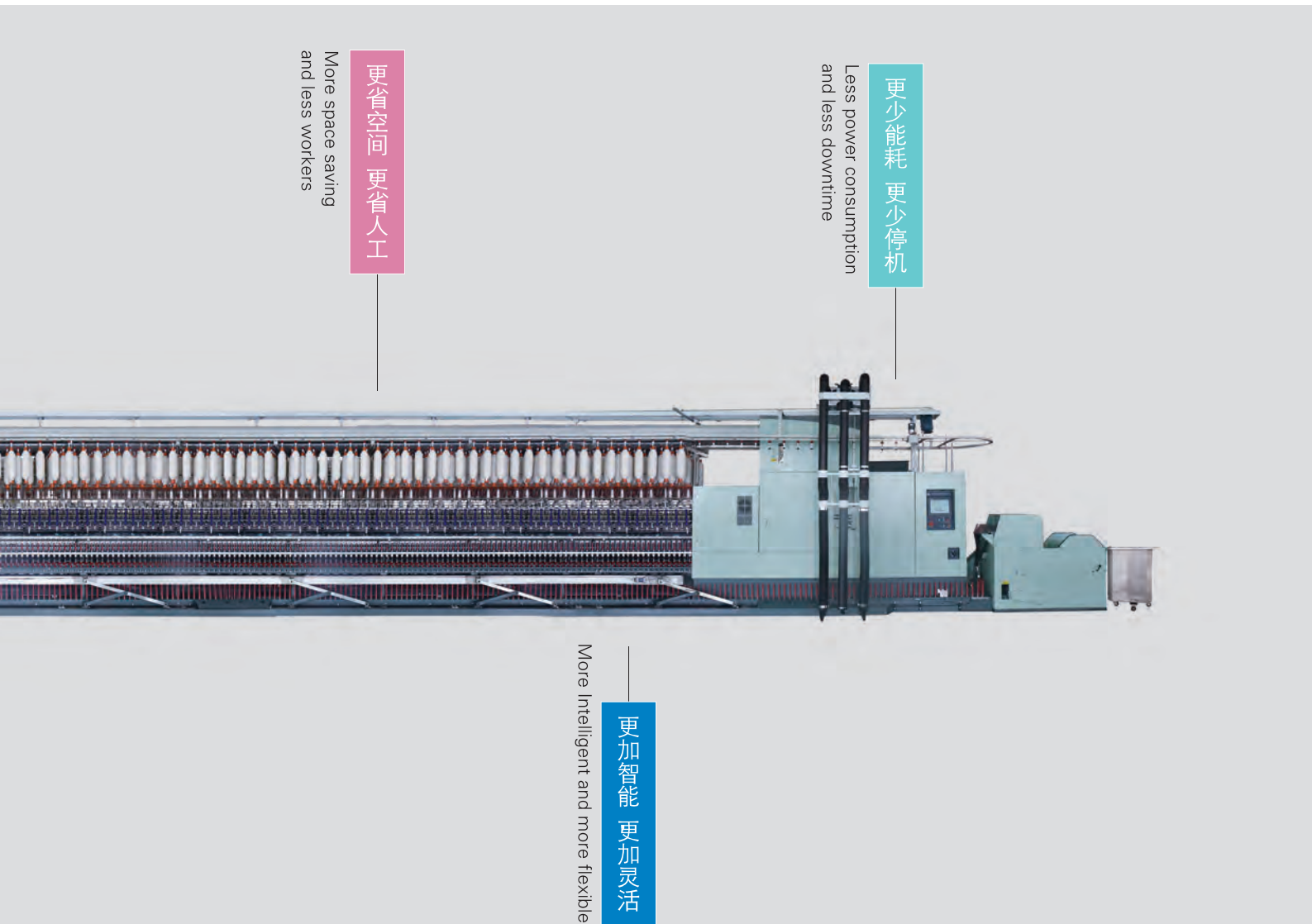
更快安装 更易维护





EXTRA-LONG RING SPINNING FRAME SERIES

新一代特长机系列



BS56 产品系列			
环锭纺系列	紧密纺系列	锭数	产品特征
BS56LE2	BS56LE2M	600-1236	长车, 电子加捻, 两电机牵伸
BS56LE3	BS56LE3M	600-1236	长车, 电子加捻, 三电机牵伸
BS56XLE2	BS56XLE2M	1356-1824	超长车, 电子加捻, 两电机牵伸
BS56XLE3	BS56XLE3M	1356-1824	超长车, 电子加捻, 三电机牵伸
BS56VLE2	BS56VLE2M	1836-2448	特长车, 电子加捻, 两电机牵伸
BS56VLE3	BS56VLE3M	1836-2448	特长车, 电子加捻, 三电机牵伸

## 节能降耗,依靠科技力量提高纱线的经济性

ENERGY SAVING AND CONSUMPTION REDUCTION, RELYING ON SCIENCE AND TECHNOLOGY TO IMPROVE THE YARN ECONOMY

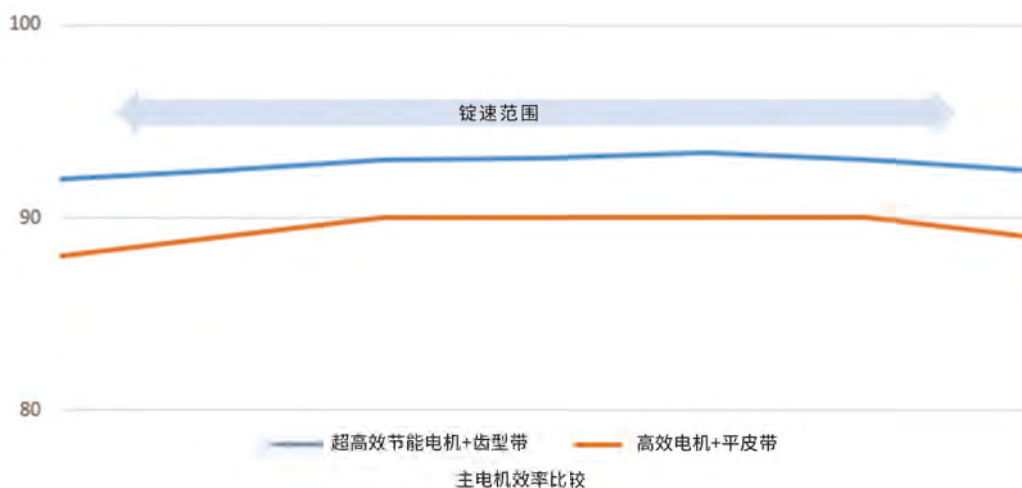
### 2448锭——全球细纱设备的最高锭数。

贝斯特先进的特长细纱机制造技术,为纺纱企业带来更高的经济效益。

2448 spindles -- the maximum number of spindles of ring spinning machine in the world.

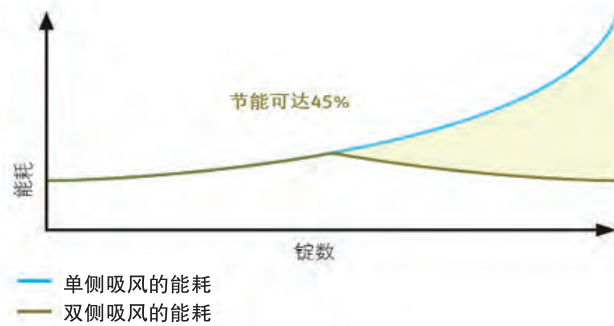
BEST advanced extra-long frame manufacturing technology for ring spinning brings more economic benefits for the spinning enterprises.

- 设备锭数增加的同时,降低维护成本,大批量生产实现更高生产效率
  - 主轴传动采用超高效节能电机,配套高性能齿形带传动,获得极佳的节能体验
  - 优选的高性能专件显著提升能效,降低吨纱成本
- While the spindles increases, the maintenance cost is reduced, and the mass production achieves higher production efficiency.
  - The main shaft drive adopts ultra-efficient energy-saving motor, supporting high-performance teeth type belt drive, to obtain excellent energy-saving experience.
  - The optimized high performance of special components significantly improves the energy efficiency and reduces the yarn cost of per ton.



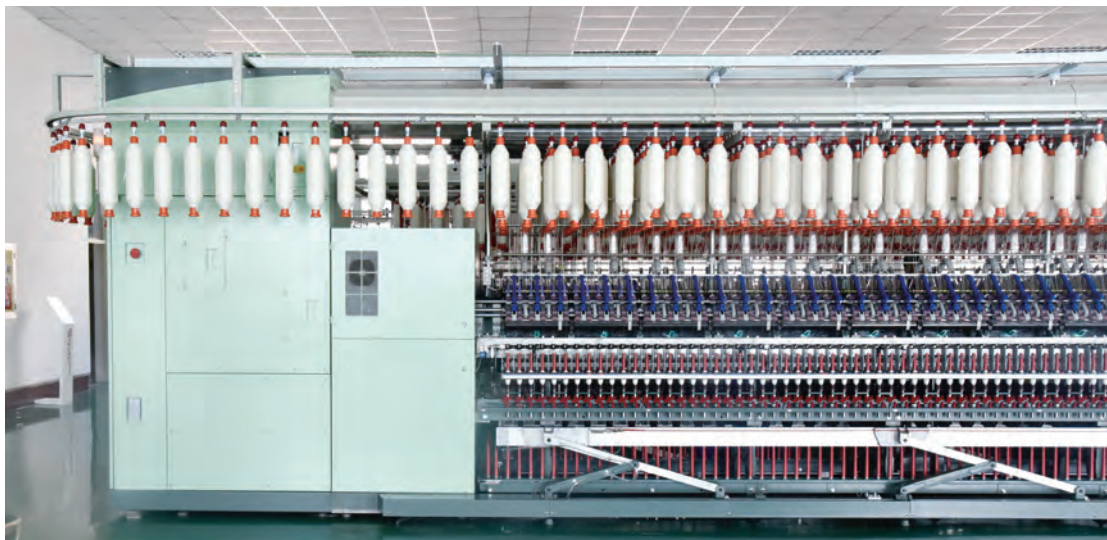
The suction system is optimized to ensure the minimum power consumption under the balanced effective negative pressure.

- 双侧吸风,减小吸棉电机单锭平均消耗
- 优化吸风通道,保障吸风效果,有效减少断头,提升生产效率
- 变频控制风机,设定负压,节能降耗



### 吸风能耗对照图

- Double side suction system reduces the average consumption of per spindle for the suction motor.
- Optimizing the suction channel, ensuring the suction effect
- The inverter controls the fan and sets the negative pressure, save energy and reduces consumption.





## 特长设备,同样具有极高的纺纱稳定性

THE EXTRA – LONG RING SPINNING FRAME ALSO HAS EXTREMELY HIGH SPINNING STABILITY

1

### 特长设备制造技术融科技创新于客户生产体验

The extra-long equipment manufacturing technology integrates scientific and technological innovation into customer production experience.

2

### 伺服控制等智能化电气控制方式的融入,充分保障了罗拉传动的高标准、高精度同步

The integration of servo control and other intelligent electrical control methods fully guarantees the high standard and high precision synchronization of roller transmission

3

### 中间驱动系统的设计,消除罗拉扭振弊端,在避免开车断头的同时保证特长设备稳定的成纱质量

The design of the middle driving system eliminates the short point of torsional vibration of the roller, and ensures the stable yarn quality of the extra-long frame while avoiding the end breaking from the starting.

4

### 升降系统设计,有效均衡驱动部分受力,稳定机械性能,减少故障,获得完美成形

The lifting system design can effectively balance the force of the driving part, stabilize the mechanical properties, reduce the troubles, and obtain the perfect yarn bobbin building.

5

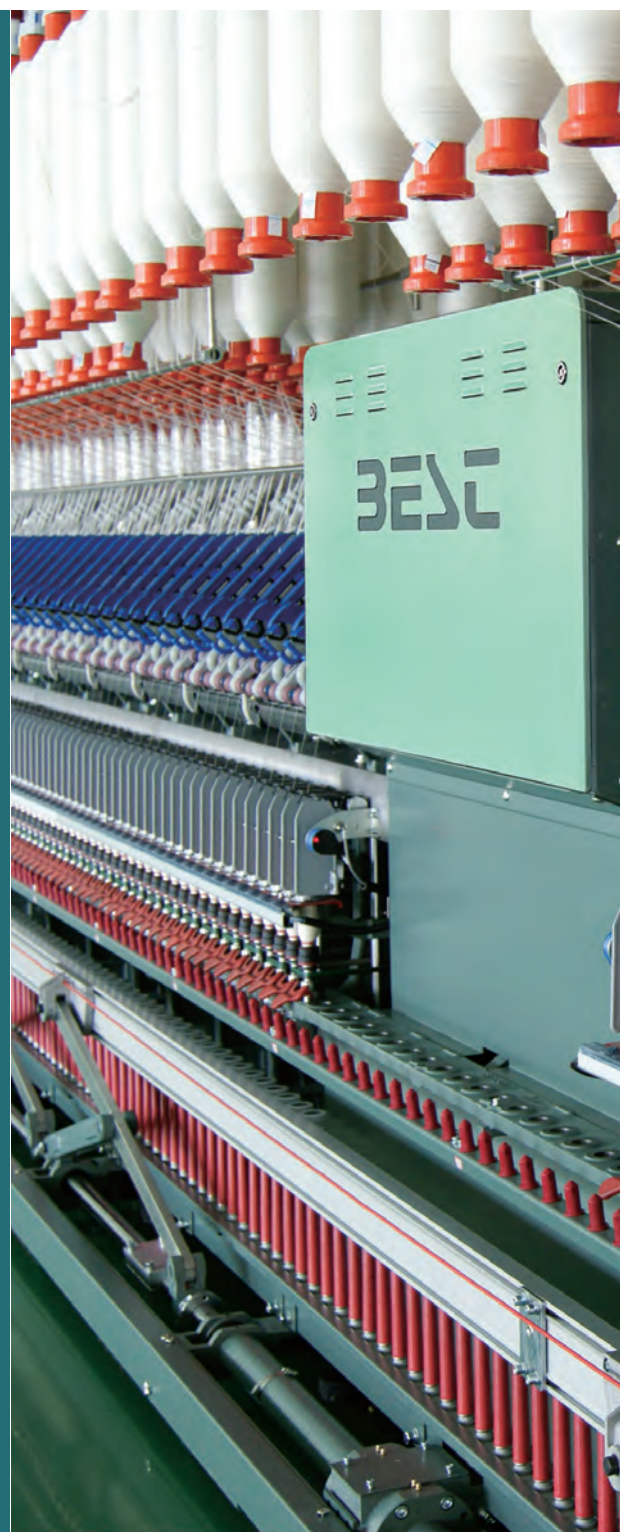
### 钢领板销孔定位,防止长向窜动,化解误差累积

The ring rail is positioned by pin to prevent it longitudinally moving and avoid from error accumulation.

6

### 集落中间传动,保证特长设备气架动作准确,落纱稳定可靠

Auto-doffing intermediate driven ensures accurate action of doffing bar and stable doffing of extra-long frame.



● 坚实稳固高精度的经典机架结构,承载着特长设备长期稳定运转的专业技术积淀

The solid, stable and high-precision frame structure bears the professional and technical accumulation for the long-term and stable operation of the extra-long frame.

- 超经典机架排列、多位一体中墙板、销孔定位,构建高速运转,快速安装完美设备框架
- 6锭一节罗拉,更强的稳定性、更好的抗弯性能,适应长车高速运转
- 锭带张力系统,安装调整便捷可靠,张力稳定一致,捻度锭差小
- 纱架排列适应纺纱多样化需求,安装便捷,减少意外牵伸
- 纺纱断面合理,适纺性能优异,与贝斯特紧密纺装置完美结合,独具成纱优势

- Super classic frame arrangement, multi-in-one wall panel, pin hole positioning, build high-speed operation, fast installation of perfect equipment frame.
- Bottom roller of 6 spindles, stronger stability, better bending resistance, suitable for high-speed operation of long frame.
- The spindle tape tension system is convenient and reliable for installation and adjustment. The tension is stable and consistent, and the twist differences between spindles are very small.
- The creel arrangement is suitable for diversified needs of spinning, convenient installation and reducing accidental drafting.
- The reasonable spinning section and the excellent spinning performance are perfectly combined with the BEST compact spinning system, which is the unique advantage for spinning quality yarn.





## 创新技术,保障优质的成纱 稳定的运行

INNOVATIVE TECHNOLOGY ENSURES SPINNING  
HIGH QUALITY YARN AND STABLE OPERATION AT HIGH SPEED



### ● 高精度的车头,高速高效的设备基础

- 高精度齿轮配合优越的动力传动路线,平稳降噪,为设备长期稳定运转提供保障。
- 油浴式箱体减少运转磨损,降低维护成本。
- 油脂润滑,延长传动系统寿命,减少油雾污染。

### ● 电子加捻、电子牵伸、电子升降等数字化控制技术的融入,使不断优化且经长期验证的传动系统,尽显高速高效稳定智能的优势

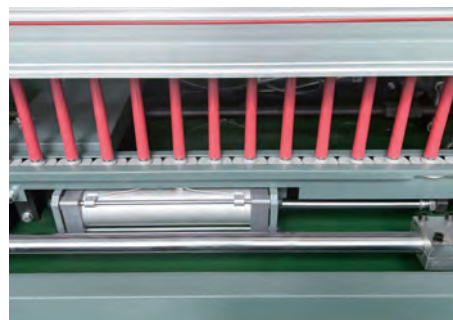


### ● 自动落纱,助力企业高效连续化生产

- 集体落纱,快速稳定,可靠高效,缩短停台时间,提升运转效率及产量。
- 纱管输送,平稳、精准、省时,充分满足超长设备生产需求。
- 全自动理管,无需人工干预,实现生产效率最大化。

### ● 断电同步功能,有效防止意外停电造成的产量损失

- High-precision transmission, high-speed and efficient equipment foundation.
- Auto doffing system helps enterprises to produce efficiently and continuously.
- The integration of electronic twisting, electronic drafting, electronic lifting and other digital control technologies makes the continuously optimized and long-term verified transmission system fully show the advantages of high speed, high efficiency, stable and intelligent.
- Power off synchronization function effectively prevents the loss of production caused by unexpected power failure.





需求引领创新 / 品质成就卓越

DEMAND LEADS INNOVATION / QUALITY ACHIEVES EXCELLENCE

## 灵活便捷,卓越的智能化控制成就完美高效纺纱体验

FLEXIBLE, CONVENIENT AND EXCELLENT INTELLIGENT CONTROL MAKES THE MACHINE PERFECT AND HIGH EFFICIENT SPINNING EXPERIENCE.

### ● 新型紧密纺系统,更优品质更好成纱

- 优化设计,毛羽、强力、纺纱条干水平更优,运转愈加平稳,积花少
- 维护保养方便,原料利用率高,器材损耗少

### ● 超强的适应性,轻松实现多品种纺纱

- 满足灵活多样的产品需求,可纺制包芯纱、赛络纱、竹节纱,段彩纱等多种花式纱线
- 简单安装即可实现紧密纺与环锭纺的切换,灵活应对市场变幻

### ● 图形化操作界面,带给客户全新的数字化管理体验

- 通过屏幕操作即可轻松变化工艺,纺制多品种花式纱线
- 简单操作呈现完美管纱成形,细微处见效益
- 汇聚设备运转状态在线显示、工业参数储存及调取、生产管理等诸多功能,助力棉纺企业智能化

### ● 流程化生产,数字联网,棉纺企业加速智能化高效管理

- 可配备细纱断纱检测,粗纱自停装置,全面监控纺纱过程
- 与粗纱机、络筒机设备互联,实现细络联机的自动化纺纱生产
- 实现数字联网,数据共享,生产过程全面掌控,助力减员增效

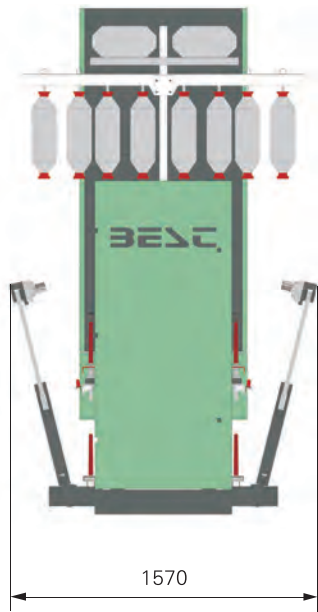
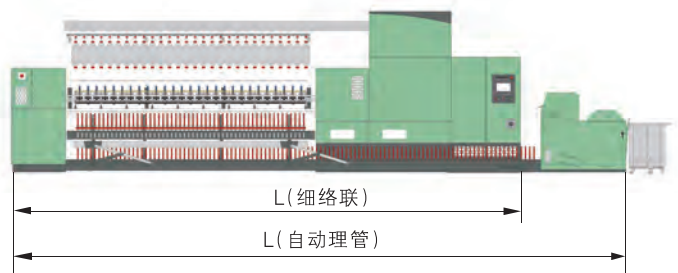
- New compact spinning system provide better quality and yarn forming.
- Super adaptability, that is easy to realize multi-variety spinning.
- Graphical operation interface brings customers a completely new digital management experience.
- Process production and digital networking make the cotton spinning enterprises to accelerate intelligent and efficient management.



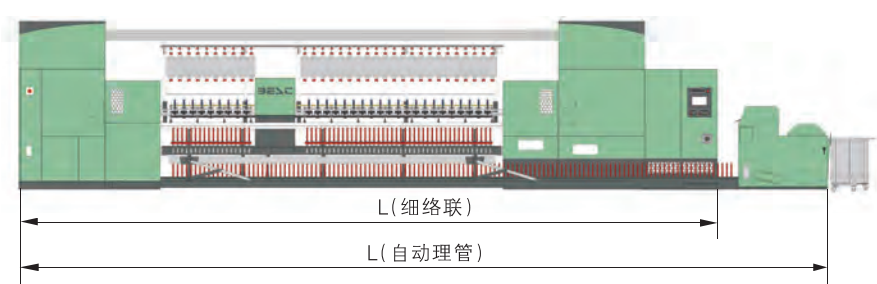
环锭细纱机系列示意图

RING SPINNING FRAME SERIES FIG.

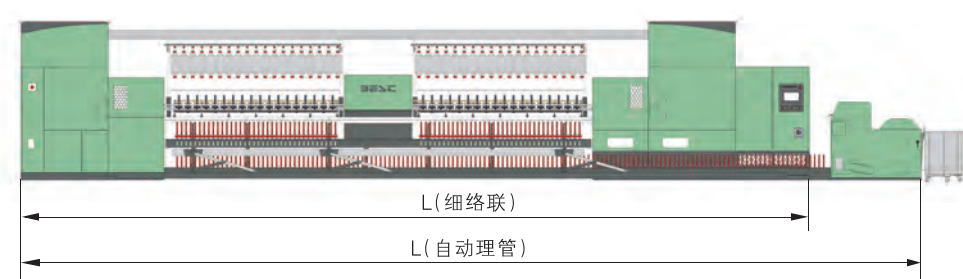
BS56L



BS56XL



BS56VL



长度 Length	BS56L	BS56XL	BS56VL
自动理管 Arrange	$L=6435+N \times 35$	$L=8600+N \times 35$	$L=9020+N \times 35$
细络联 Winder-link	$L=4585+N \times 35$	$L=6750+N \times 35$	$L=7170+N \times 35$

N:锭数 Spindle numbers



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• • • • • • • • • • • • • • DEMAND LEADS INNOVATION / QUALITY ACHIEVES EXCELLENCE

主要技术参数
 MAIN TECHNICAL DATA

机型 Model	BS56LE2/BS56LE3 BS56LE2M/BS56LE3M	BS56XLE2/BS56XLE3 BS56XLE2M/BS56XLE3M	BS56VLE2/BS56VLE3 BS56VLE2M/BS56VLE3M
锭数 Spindle numbers	1008±12n(n为整数int) 最大max1236 锭	1500±12n(n为整数int) 最大max1824 锭	2004±12n(n为整数int) 最大max2448 锭
锭距 Spindle gauge	70mm		
升降动程 Lift	160mm,180mm		
纱管长度 Tube length	190mm,210mm		
适纺支数 Count	6 ~ 100S		
锭速 Spindle speed	8000 ~ 24000rpm		
捻向 Twist direction	Z 捻		
适纺捻度 Twist	200 ~ 3000T/m		
牵伸倍数 Drafting ratio	10 ~ 120 倍		
摇架 Pendulun arm	弹簧摇架,气动摇架,板簧摇架 Spring,pneumatic,Leaf spring		
罗拉直径 Roller dia	Φ27XΦ27XΦ27		
钢领 Ring	Φ35 ~ Φ48		
纱架 Roving creel	六列纱架;赛络纺纱架 6;siro		
断头吸棉 Suntion	笛管式 Flute		
升降形式 Lift style	电子升降 Electronical lifting		
电气控制 Electric control	主轴变频控制,电子加捻,电子牵伸 Inverter+PLC;Eletric twisting Electric drafting		
	全自动集体落纱 Auto-doffing		
选配 Option	紧密纺,循环粗纱,断纱检测,粗纱自停 Compact,Roving circle,Breaking detector,Roving stop		

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