

VCRO 自动络筒机
AUTO-WINDER



VCRO 系列自动络筒机，提升纱线质量的保证

VCRO SERIES AUTOMATIC WINDER

Guarantee of Yarn Quality Improvement

SMARt | **ROBot** | **NEw**
智能 | 自动 | 全新



VCRO 自动络筒机继承SMARO-NEW自动络筒机的优点，全新的外观设计，美观大方；采用全新的电气控制系统智能防叠方式、新型张力控制系统和新型气圈控制机构，筒纱成形更臻完美，卷绕张力更为均匀，机器运行稳定性、可靠性等方面显著提高，可更好的满足客户需求。

VCRO automatic winder inherits the advantages of SMARO-NEW series winder, adopts bran-new profile design - featured by beautiful and dignified, adopts the bran-new smart anti-pattering device, new type of tension control system and new type of balloon control mechanism to ensure perfect package building, more even winding tension, high machine operation stability and reliability to meet customer requirement better.

更好 BETTER

- ★ 新型防叠方式
- ★ 新型封闭式槽筒护纱板
- ★ 单锭分类报警
- ★ 电子式防缠槽筒
- ★ 槽筒自由选择
- ★ New type of anti-pattering mechanism
- ★ New type of the enclosed drum cover
- ★ New type of soft tension mechanism
- ★ Electronic anti-wrap drum
- ★ Drum optional freely

更快 FASTER

- ★ 张力闭环控制系统
- ★ 管纱吸嘴控制优化
- ★ 筒纱吸头程序优化
- ★ 梳齿结构优化
- ★ 单锭面板安装方式改进
- ★ Tension close loop control system.
- ★ Optimized bobbin yarn suction nozzle.
- ★ Optimized package yarn suction program.
- ★ Optimized gill pin structure
- ★ Improved spindle panel installation method

更可靠 MORE RELIABLE

- ★ 新型柔性张力结构
- ★ 栅式张力结构
- ★ 张力抽纱器结构优化
- ★ 空管输送机构优化
- ★ 增配空管分拣箱
- ★ 风门结构优化设计
- ★ 回丝箱视窗透明设计
- ★ 游动风机结构优化
- ★ New type of soft tension structure.
- ★ New type of grid tension mechanism
- ★ Optimized tension yarn-catcher structure
- ★ Optimized empty bobbin conveyor
- ★ Increased empty bobbin selection box
- ★ Optimized air door structure.
- ★ Transparent lints box window.
- ★ Optimized mobile fan structure.

均匀一致的纱线张力，良好的筒纱成形

Uniform and consistent yarn tension, excellent building of yarn package

新型防叠方式，采用平衡压力比例调节，更有效防止条带纱的产生，优化筒纱成形质量。根据纱线品种不同，可有多种槽筒选择，满足对成形和筒纱容量的要求。

New type of electronic anti-patterning system, adopting balance pressure regulating in ratio, functions during the whole winding process to eliminate the formation of critical patterned yarn. Multi-type of drums optional for different yarns meet the requirement of package building and capacity.



新型封闭式槽筒护纱板，可有效防止筒纱纱尾甩头、大幅减少小端缠纱，避免筒纱小端攀头等成形质量问题，提高一次吸头成功率。电子式防缠槽筒，可避免缠槽筒和腰带纱产生，优化成形质量，并减少原料浪费。

New type of closed drum cover can efficiently prevent package yarn tail from throwing off, greatly reduce yarn wrap on small bobbin side, prevent bobbin building problem, enhance one-time head suction successful rate. Electronic anti-wrap drum can prevent yarn wrap on drum and stepped winding yarn, optimize package building and reduce material waste.



新增张力闭环控制系统，保证均匀络筒张力，可提高卷绕速度 10-20%，提高生产效率 2-5%。

Newly increased tension close-loop control ensures even doffing tension, enhance winding speed 10-20% and production efficiency 2-5%.



新型柔性张力结构，稳定纱线张力，保证筒纱成形质量。

New type of soft tension structure can stabilize yarn tension and enhance production efficiency.



全面结构优化，提高生产效率

Optimized system structure to enhance production efficiency



采用直流无刷电机同轴驱动槽筒，与传统的皮带传动相比，由于消除了皮带摩擦和滑动所造成的功率损失，因而降低了电力消耗，提高了生产效率。Comparing with traditional belt drive, DC brushless motor coaxial drive winding drum could reduce the electricity consumption and improve the productivity due to the elimination of the power loss caused by belt friction and slipping.



筒纱吸头程序优化，有效提高一次吸头成功率，可提高生产效率 1-2%，并提高了机器运行的可靠性。

Package yarn head suction program is optimized, which efficiently prevent the problems such as yarn choking on package yarn suction nozzle, enhance production efficiency 1-2% and enhance machine operation reliability.



梳齿在筒纱吸嘴内的位置后移，增加纱线导向面，提高吸纱成功率。

Position of gill pin inside package suction nozzle is moved backwards to increase yarn direction plane and enhance yarn suction successful rate.



管纱吸嘴控制优化，筒纱吸嘴双零位可控，提高送纱成功率，减少单锭吐管几率，从而提升生产效率。Bobbin suction nozzle control is optimized, the aero position of bobbin suction nozzle is controllable and twisting program is monitored, which can reduce the rate of ejecting bobbin by spindle and enhance production efficiency.

全新机械设计，减少维护工作量

Latest designed mechanical structure to reduce maintenance labor strength

1、新型柔性张力结构，减少了张力盘清洁工作量、清洁周期和缠回丝几率。

New type of soft tension structure reduces cleaning load, cleaning cycle and lints winding rate on tension disk.



2、张力捕纱器结构优化设计，优化为圆口，减少堵纱几率，减少了清洁工作量。

Optimum tension yarn catcher is designed with blowing nozzle for reducing yarn choking rate and cleaning load.



3、空管输送机构优化，单根皮带输送，彻底避免卡管，减少皮带损坏。

Empty bobbin conveying mechanism is optimized. Due to empty bobbin transmission by single belt, bobbin choke is prevented completely and belt damage is reduced.



4、增配空管分拣箱，方便挡车工操作。

The increased empty bobbin selection box is convenient for operator.



5、单锭面板安装方式改进，清纱器探头的拆装不再需要将单锭侧罩板拆下，提高了维修速度，减少了维修工作量。

The single spindle installation method is improved. When mount and dismantle the feeler of yarn clearer, it is not necessary to dismantle the side plate of spindle so that increase maintenance speed and reduce maintenance load.



6、回丝箱视窗透明设计，方便观察回丝量，保证及时有效清洁，提高风机工作效率。

Newly designed transparent window for lint box is convenient to observe lints amount to ensure efficient clean and increasing fan working efficiency.



7、游动风机结构优化，保证高效、全面的清洁，不留任何死角。

The optimized mobile fan structure ensures efficient and whole clean without any dead angle.



高规格配置，全面控制纱线质量

Top level electronic yarn clearer, whole process control of yarn quality



USTER QUANTUM3 Q/DATA

电子清纱器，对纱线质量进行全程控制，包括对接头质量的控制；对于正常卷绕段和接头处采用两种不同清纱设置，可配置目前世界上最先进的各种型号电子清纱器。

★ USTER QUANTUM 3 Q/DATA

★ LOEPFE ZENIT+

Electronic clearer controls yarn quality, including yarn joint quality, during the whole winding process. Two different yarn clearer settings are adopted for normal yarn winding and joint respectively. The most advanced electronic yarn models can be equipped. Foreign fiber detecting function can be chose as optional.

★ USTER QUANTUM3 Q/DATA

★ LOEPFE ZENIT+



LOEPFE ZENIT+

捻接装置采用模块化设计，拆装维修方便，可根据您的不同需求在几种型式中互换。捻接器主要形式有：

Splicing system adopts modular-design for easy installation and maintenance. Different types of splicers can be interchanged according to different customer requirement. The main types of splicers include:

798Q型空气捻接器

798Q JOINTAIR

通过更换不同型号的捻接腔和压盖，可适用棉、毛、化纤及其混纺纱的捻接。

Different chambers and covers can be adapted to suit the specific requirements of the material to be spliced, such as cotton, wool, manmade staple fiber and their blends.

水雾捻接器

AQUASPLICER

使用空气和水的捻接器，主要用于竹节纱、包芯纱、紧密纺等各种纤维的捻接。

Aquasplicer is mainly suitable for the splicing of slub yarn, core spun yarn and compact ring spun yarn.

选用配置

OPTIONAL FIT

★ 纱库形式：9孔或6孔，9孔纱库可有效缓解操作工人的劳动强度。

★ 异纤检测装置

★ 筒纱输送装置

★ 上蜡装置

★ 落筒小车

★ 理管机

★ 后弯弓

★ 栅式张力

★ 络筒小车

★ Magazine type: 9 holes or 6 holes, 9-hole magazine can efficiently reduce labor strength.

★ Foreign fiber detector

★ Package conveyor

★ Waxing unit

★ Doffing carriage

★ Auto-sorter

★ Behind bow style

★ Grid tension

★ Doffing carriage

主要技术规格

MAIN TECHNICAL SPECIFICATION

型式	单锭式，单面排列，左、右手车
适用范围	Nm3.5 至最高支数的棉、毛、化纤和混纺的单纱
卷绕速度	400 ~ 2200 米 / 分，无级调速
卷绕头数	6 ~ 80锭，每隔 2 锭间隔递增
锭距	320mm
适用筒管锥度	4°20'，5°57'
喂入管纱规格	Φ=32 ~ 65mm，L=180 ~ 300mm
接头型式	空气捻接器、水雾捻接器
纱库型式	9 孔或 6 孔
清纱型式	USTER/LOEPFE 最新电子清纱器
槽筒	采用直流无刷电机同轴驱动槽筒，无级调速
槽筒圈数	2 圈或 2.5 圈
筒子防叠	通过全程控制电机变速实现
接头循环	电器逻辑控制，智能循环
张力控制	电磁加压
装机功率	33.57 Kw(实耗功率 11 - 15kw)
外形尺寸 (60 锭)	22627x1365x2650mm
TYPE	Single-spindles, single-sided arrangement, left or right hand.
APPLICATION	Nm3.5 to the highest count cotton, wool, synthetic yarn and blended single yarn.
WINDING SPEED	400-2200m/min, step-less speed regulation
NUMBER OF WINDING SPINDLES	6 to 80 every two spacing increment.
SPINDLE DISTANCE	320mm
APPLICABLE BOBBIN TAPER	4°20', 5°57'
FEEDING BOBBIN	Diameter=32-65mm, length=180-300mm.
JOINT TYPE	Airsplicer, aquasplicer
MAGAZINE TYPE	9 holes or 6 holes
JOINT TYPE	The latest USTER/ LOEPFE electronic yarn clearer.
DRUM	DC motor coaxial transmission, step-less speed regulation
CIRCLES ON DRUM	2 or 2.5
ANTI-PATTERING	Motor speed variation controlled in whole process.
JOINTS CIRCLE	Electrical logic control, intelligent cycle.
TENSION CONTROL	Electromagnetic pressure.
POWER INSTALLED	33.57kW (actual consumption 11-15kw)
OVERALL DIMENSION (60 SPINDLES)	22627 X1365X2650mm

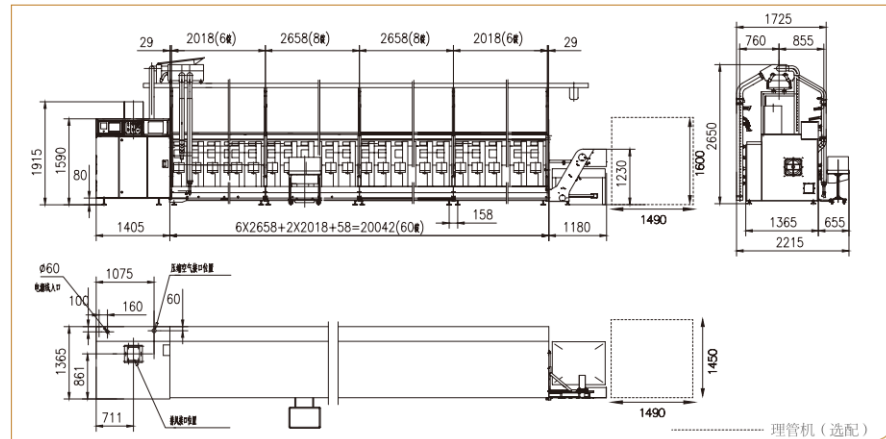
外形尺寸和安装建议

OVERALL DIMENSIONS AND PROPOSED INSTALLATION

锭数	60	62	64	66	68	70	72	80
机器长度(mm)	22627	23267	23907	24645	25285	25925	26565	29223

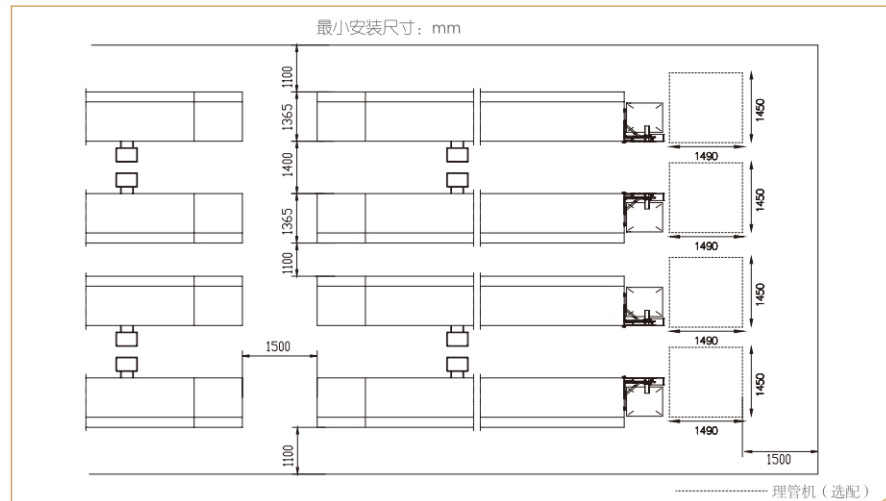
外形尺寸

OVERALL DIMENSIONS



安装建议

PROPOSED INSTALLATION



HXF6400 自动理管机

HXF6400自动理管机运用了先进的视觉处理技术，采用独特的机械结构，实现了多种颜色细纱管的识别。可以单机、一拖二或一拖三与络筒机编组连接，也可工作站式集中分拣，达到细纱管分拣的最佳效率。

HXF6400 automatic management machine uses advanced visual processing technology and unique mechanical structure to realize the recognition of multi-color spinning tubes. It can be connected with winder formation by single machine, one tow two or one tow three, or centralized sorting by workstation, so as to achieve the optimum efficiency of spinning tube sorting.

Liberty | **R&D** | **NEW**
自主 | **研发** | **创新**



1、可同时分拣4种颜色纱管，具有自动学习功能，可根据生产情况随时更换纱管品种，操作简单方便；纱管在机器中运行路线全部可以随时打开，故障处理、维修保养简单方便。

Four kinds of color yarns can be sorted at the same time. It has the function of automatic learning. It can change the yarn varieties at any time according to the production situation. The operation is simple and convenient.

The running path of the bobbin in the machine can be opened at any time, and the troubleshooting and maintenance are simple and convenient.



2、连接到理管机上的络筒机纱管自动输送到主机集中处理，节约人工。

The bobbins of the winder connected to the pipe mill are automatically conveyed to the main engine for centralized treatment to save labor.



3、可实现大小纱分类储存、纱管大小头有序整理。

The classification and storage of the size yarns can be realized, and the orderly finishing of the bobbins will be achieved.



4、与络筒机接口简单，与不同型号络筒机连接只需更改接口连接形式，就可无缝实现连接。

The interface with winder is simple, and the connection with different types of winder can be realized seamlessly by changing the interface connection form.

5、可实现不停车换框，大大提高效率。

It can realize changing the frame without stopping and greatly improving the efficiency.

6、可实现纱管集中分拣，即工作站式纱管处理，处理速度可达到1万支/小时。

It can realize centralized sorting of yarns, i.e. workstation yarn processing, and the processing speed can reach 10,000 pieces per hour.



主要参数 Specifications

颜色分组:	任意
分拣纱管成功率:	100%
分拣纱管效率:	(3600 ~ 6400) 根 / 小时
气动压力:	>0.5MPa
装机功率:	150W 380V
整机重量:	350Kg
主机外形尺寸:	1900*1250*1400 长*宽*高 (mm)
辅机外形尺寸:	600*600*2150 长*宽*高 (mm)
Color group:	Random
Identification and sort rate:	100%
Efficiency:	(3600 ~ 6400) bobbins per hour
Compressed air:	>0.5MPa
Installed power:	150W 380V
Weight:	350Kg
Host Dimensions:	1900*1250*1400 L*W*H (mm)
Auxiliary machine Dimensions:	600*600*2150 L*W*H (mm)