



# 亚麻纺系列装备

FLAX SPINNING SERIAL EQUIPMENT



浙江金鹰股份有限公司  
ZHEJIANG GOLDEN EAGLE CO.,LTD.

地址: 舟山市定海 ADD: Dinghai Zhoushan  
董事长: 傅国定 Chairman: Fu Guoding  
电话(Tel): +86 580 8020098 +86 580 8021682  
传真(Fax): +86 580 8020228 +86 580 8021681  
邮编(P.C): 316000

浙江金鹰股份有限公司  
ZHEJIANG GOLDEN EAGLE CO.,LTD.

## 企业简介

### Company Introduction

>>>>

浙江金鹰股份有限公司是国内第一家制造麻、绢纺成套机械设备，又利用自制成套设备生产麻、绢纺织、染整、服装系列产品的大型企业。1999年，金鹰公司一举买断了英国麦凯国际集团有限公司亚麻、黄麻、剑麻、大麻等成套纺织机械全部技术、专利、商标、企业冠名权等知识产权以及工装、模具、专用设备，并与爱尔兰合维纺织有限公司合资组建浙江金鹰麦凯国际机械有限公司。

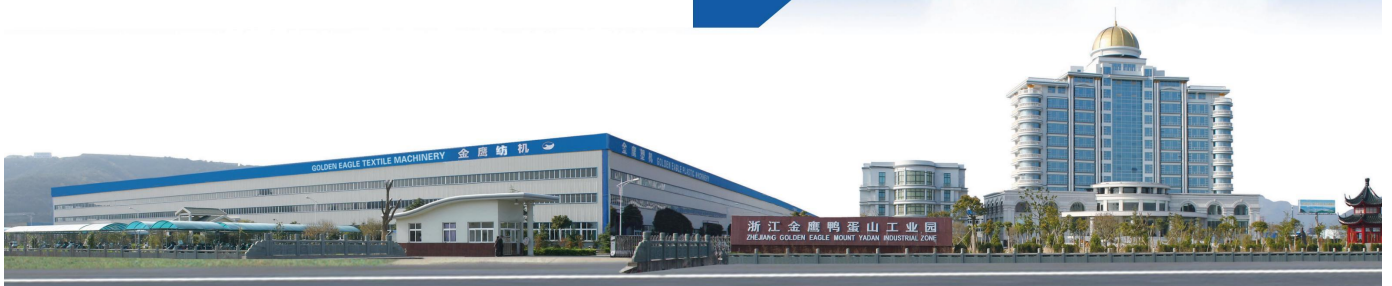
在世纪之交，居世界领先地位的英国麦凯公司全部麻类纺织技术落户金鹰公司，这对已有30余年麻类纺织制造经验的金鹰公司开发具有国际领先水平的亚麻、黄麻、剑麻、大麻成套纺织设备，推进国内外麻纺织业以高新技术装备和合理的价位进行技术改造，提高工艺技术水平 and 产品品位，优化产业结构，发挥积极而深远的影响。金鹰人以发展民族工业为己任，不负众望，将一如既往着力培育一流品牌，奉献“金鹰”的真诚与力量。



Zhejiang Golden Eagle Co.,Ltd is the first big size enterprise in China that not only manufactures bast fiber spinning machinery and silk spinning machinery in whole series but also engages in dyeing, making garment and production of yarn and cloth of flax and silk by using flax spinning machinery and silk spinning machinery made itself. In 1999, Zhejiang Golden Eagle Co.Ltd and Bridge Mackie Textile International Limited in Northern Ireland set up a joint venture company—Zhejiang Jinying Mackie International Machinery Co.,Ltd, and they hought all technology, concerned intellectual property rights(patents, trade mark and right to use the name"mackie" ), special purpose Equipments, patterns, dies and tooling for Flax, Jute, Sisal and Hemp textile machineries from Mackie international Ltd.

When the old century would be replaced by the new century, Zhejiang Golden Eagle Co.,Ltd obtained Mackie's technology of bast fiber spinning machinery. This makes Zhejiang Golden Eaal Co.,Ltd having rich experiences accumulated in more than 30 years be able to develop new Flax, Jute, Sisal and Hemp serial spinning machineries with a leading technology level in the world.As its result Zhejiang Golden Eagle Co.,Ltd will play an active and long term role in promotion of that bast fiber spinning industries at home and abroad make technical retrofit with new advanced technical equipments of reasonable price in their mills in order to improve processing teachnology level, produce quality and optimize production structure.

Peoples of Zheiiang Golden Eagle Co.,Ltd will take development of Bast and Leaf Fibres Textile industry as our responsibility. We are always striving to produce products of the first class that will not let down our clients. We sincerely offer our clients the best service and products as we are always doing.



FX101F  
FX101G - FX203型 带成联合机  
FX101F  
FX101G - FX203 Flax Hackling Machine



主要性能特点 Main performance features

- 本机集沓梳、成条工艺为一体，省略成条工序，减少用工；
- 夹麻器在升降架内的移动采用气缸驱动，结构简洁自动作平稳，可靠；
- 升降架的升降由带有自锁功能的减速箱电机驱动，并辅以配重平衡，相对刹车系统更为安全且故障率大大降低；
- 夹麻器在喂麻机、左右梳理机及倒麻机上的转移分别由机械臂装置完成，降低了机械故障率及噪音；
- 本机采用PLC-HMI控制系统，机、电、气均受控于PLC。喂麻机/倒麻机，左右梳理机，升降架，成条机喂入，牵伸及成条入筒均由单独电机驱动，工艺参数可在触摸屏设定或更改。
- This machine integrates Hackling machine and spreader process, significant to saving labor;
- The flax holder movement in the lifting frame is driven by air cylinder, with simple structure, stable and reliable action;
- The lifting frame is driven by the reducer motor with self-locking function, supplemented by counterweight balance, which is safer than the brake system and greatly reduces the failure rate;
- The transfer of flax holder in the feeding unit, the left and right hackling sides and the reversing unit is respectively completed by the mechanical arm device, which reduces the mechanical failure rate and noise;

03

浙江金鹰股份有限公司  
ZHEJIANG GOLDEN EAGLE CO., LTD.

- The machine adopts PLC-HMI control system. The mechanical, electricity and Press-air are controlled by PLC. The feeding unit /reversing unit, left and right hackling sides, lifting frame, sliver feeding on spreader, drafting and delivery to sliver can be all driven by separate motors, the process parameters can be set or changed on the touch screen.

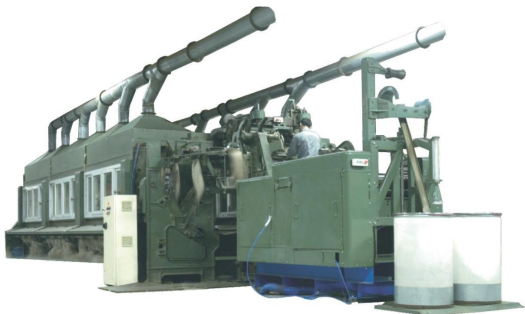
主要技术参数 Main specification

序号 Item	说明 Description	型号与参数 Model No. & Parameter	
		FX101F/FX203A	FX101G/FX203
1	针带梳理的有效高度 Effective hackling height of hackling sheet	700mm	570mm
2	每分钟工作次数 Frequency of working cycle	6-9次/分	6-9 holders/min
3	全机的夹麻器数量 Quantity of flax holder for whole machine	57个	
4	夹麻器外形尺寸 Overall size of flax holder	长300 mm, 宽125mm L 305 x W 125 mm	
5	每圈梳针针数 Quantity of hackling tool for each group	30	24
6	单侧梳理区针节个数 Group number of hackling tool for each side hackling section	18	
7	根部和梢部梳理区域的中心距 Center distance between top and root side hackling sections	2745mm	
8	针带梳理速度 Hackling speed of hackling sheet	10-34.69米/分 10-34.69m/min	10-45米/分 10-45m/min
9	成条机出条数 Delivery number of spreader	1	
10	成条机滚筒直径和高度 Diameter and height of can of spreader	φ 600 mm x 950 mm	
11	成条机螺杆头部 Screw of spreader	双头螺杆, 螺距5/8英寸 Double start, Pitch 5/8	
12	成条机针板根数 Quantity of faller in spreader	92	
13	输出罗拉直径 Delivery roller diameter	φ 101.6mm	
14	牵伸罗拉直径 Draft roller diameter	φ 114.3mm	
15	牵伸加压罗拉直径 Draft pressing roller diameter	φ 330mm	
16	喂入罗拉直径 Feed roller diameter	φ 76.2mm	
17	梳理机和成条机电机总功率 Total power of motors of hackling machine and spreader	19.65KW	
18	梳成麻产量 Output of hackled flax	70 kg/h (取决于原麻质量) 70 kg/h (up to quality of raw material)	
19	整机外形尺寸 Overall size of whole machine	12560 x 4650 x 3500mm	
20	整机总重量 Total weight of whole machine	约26吨 About 26 tons	

04

## FX103B-203A带成联合机

### FX103B-203A Flax Hackling Machine



#### 主要性能特点 Main performance features

- 本机集栉梳、成条工艺为一体，省略成条工序，减少用工；
- 夹麻器在升降架内的移动采用气缸驱动，结构简洁且动作平稳，可靠；
- 升降架的升降由带有自锁功能的减速机电机驱动，并辅以配重平衡，相对刹车系统更为安全且故障率大大降低；
- 夹麻器在喂麻机、左右梳理机及倒麻机上的转移分别由机械臂装置完成，降低了机械故障率及噪音；
- 栉梳机左右梳理区分别为三仓21节3仓，相比两仓18节栉梳机，梳理效果更佳；
- 本机采用PLC-HMI控制系统，机、电、气均受控于PLC。喂麻机/倒麻机、左右梳理机、升降架、成条机吸入、牵伸及成条入筒均由单独电机驱动，工艺参数可在触摸屏设定或更改。
- This machine integrates Hackling machine and spreader process, significant to saving labor;
- The flax holder movement in the lifting frame is driven by air cylinder, with simple structure, stable and reliable action;
- The lifting frame is driven by the reducer motor with self-locking function, supplemented by counterweight balance, which is safer than the brake system and greatly reduces the failure rate;
- The transfer of flax holder in the feeding unit, the left and right hackling sides and the reversing unit is respectively completed by the mechanical arm device, which reduces the mechanical failure rate and noise;

05

浙江金鹰股份有限公司  
ZHEJIANG GOLDEN EAGLE CO., LTD. 

- The Hackling area of the left /right hackle side each have 3no.s Cabinets with 21 group of Hackling Tools, Compare with 2No.s Cabinets with 18 group of Hackling Tools, there are much better on Hackle quality;
- The machine adopts PLC-HMI control system. The mechanical, electricity and Press-air are controlled by PLC. The feeding unit /reversing unit, left and right hackling sides, lifting frame, silver feeding on spreader, drafting and delivery to silver can are all driven by separate motors, the process parameters can be set or changed on the touch screen.

#### 主要技术参数 Main specification

序号 Item	说明 Description	参数 Value
1	针带梳理的有效高度 Effective hackling height of hackling sheet	700mm
2	每分钟工作次数 Frequency of working cycle	6-9次/分 6-9 holders/ min
3	全机的夹麻器数量 Quantity of flax holder for whole machine	67个
4	夹麻器外形尺寸 Overall size of flax holder	长300mm, 宽125mm L 305 x W 125mm
5	每圈梳针片数 Quantity of hackling tool for each group	30
6	单侧梳理区针节个数 Group number of hackling tool for each side hackling section	21
7	顶部和底部梳理区域的中心距 Center distance between top and root side hackling sections	2745mm
8	针带梳理速度 Hackling speed of hackling sheet	10-28.7米/分 10-28.7m/min
9	成条机出条数 Delivery number of spreader	1
10	成条机筒直径和高度 Diameter and height of can of spreader	φ600 mm x 950 mm
11	成条机螺杆头数 Screw of spreader	双头螺杆螺距5/8英寸 Double start, Pitch 5/8
12	成条机针板根数 Quantity of faller in spreader	92
13	输出罗拉直径 Delivery roller diameter	φ101.6mm
14	牵伸罗拉直径 Draft roller diameter	φ114.3mm
15	牵伸加压罗拉直径 Draft pressing roller diameter	φ330mm
16	喂入罗拉直径 Feed roller diameter	φ76.2mm
17	栉梳机和成条机电机总功率 Total power of motors of hackling machine and spreader	19.65KW
18	梳成麻产量 Output of hackled flax	70 kg/小时 (取决于原麻质量) 70 kg/h (up to quality of raw material)
19	整机外形尺寸 Overall size of whole machine	15250 x 4850 x 3500mm
20	整机总重量 Total weight of whole machine	约30吨 About 30 tons

06

## FX280~FX284系列亚麻并条机

### FX280~FX284 Type Series Flax Drawing Frames



该系列并条机是在充分消化吸收先进技术基础上，结合用户的要求研制的亚麻并条机，系将前道成条工序提供的麻条逐道经梳理、牵伸、并合后制成纤维疏松、均匀、分裂度高、可纺性好的麻条，供后道粗纱机纺制优质麻纱。

This series Flax Drawing Frame is developed on developed on the basis of fully digesting and absorbing the advanced technology and combining with the users requirements. It is a kind of flax drawing frame which is made from the flax sliver provided by the former slitting process through combing, drafting and doubling to produce the flax strips with loose, uniform, high splitting and good spinnable sliver for the next high-quality roving yarn.

#### 主要性能特点 Main performance features

- 采用变频电机控制的传动结构，使传动平稳可靠；
- 采用螺旋针板式梳理与木(竹)罗拉加压前罗拉的牵伸形式，使麻条运动稳定，纤维分裂度高，经过FX280、FX281、FX282、FX283、FX284逐道工序的多次牵伸并合，使制成的麻条不均匀率低，从而生产出高品质的麻条。

- The whole transmission structure controlled by frequency conversion motor makes the transmission stable and reliable;
- Faller Screw type combing and wooden (bamboo) roller pressure and Front roller drawing form, so the slivers movement are stable, high degree of fiber division, after multiple drawing and doubling of FX280, FX281, FX282, FX283, FX284, so the uneven rate of sliver is low, to produce high-quality flax sliver.

#### 主要技术参数 Main specification

项次 Item	型号 Model	FX280	FX281	FX282	FX283	FX284
节数(梳箱数) Number of Heads		2 · 3 · 4	2 · 3 · 4	3 · 4 · 5	4 · 5 · 6	5 · 6 · 7
节距 Pitch of Carriage plates		1180mm	1104mm	1003mm	953mm	928mm
牵伸并合形式 Type of Drafting and Doubling	螺旋针板式梳理、木(竹)罗拉加压、前罗拉牵伸、导麻板并合 Faller Screw type combing, wooden (bamboo) roller pressing and front roller drawing form, doubling at Silver guide plate					
梳针密度(针/inch) Needle density		12	16	20	23	28
出条速度(m/min) Delivery Speed		Max 23.8	Max 24.5	Max 27.5	Max 26.1	Max 23.1
牵伸倍数 Drafting Ratio		8.5~10.5	8.0~12.0			
每节喂入根数 Number of feed sliver/head		6	8			
最大喂入重量(g/m) Max. Feed sliver Weight		60	50	40	30	20
出条并合根数 No.s of delivery Doubling		6	8			4
最小出条重量(g/m) Min. delivery sliver weight		17	11	7.3	4.9	1.6
喂入条筒 Feeding Sliver Can		φ600 × 1000mm	φ500 × 900mm		φ400 × 900mm	
输出条筒 Delivery Sliver Can		φ500 × 900mm		φ400 × 900mm		
断条自停 Stop motion when Sliver breakage		喂入光电检测 Feeding photoelectric detector				
电机功率 Installed Power		4 Kw				5.5 Kw
外形尺寸(长*宽*高)CM Overall Sizes(L*W*H)		433 × 490 × 189	410 × 520 × 180	480 × 515 × 189	555 × 534 × 189	636 × 423 × 189

## FX290~FX294系列亚麻并条机

### FX290~FX294 Type Series Drawing Frames

浙江金鹰股份有限公司  
ZHEJIANG GOLDEN EAGLE CO., LTD. 



该系列并条机是在充分吸收国内外同类机型的优点基础上，结合用户的要求，经不断改进而研制的亚麻并条机，系将前道工序提供的麻条逐道经梳理、牵伸、并合后制成纤维疏松、均匀、分裂度高、可纺性好的麻条，供后道粗纱机纺制优质麻纱。

This series Drawing frame is developed on the basis of fully absorbing the advantages of similar models at home and abroad, combined with the users requirements, through continuous improvement. It is a kind of flax drawing frame with loose fiber, uniform fiber, high splitting degree and good spinnable silver after one by one combing, drawing and doubling the flax strips provided by the former slitting process, which can be used for next Roving Frame roving high-quality Linen yarn.

### 主要性能特点 Main performance features

- 机电一体化程度高  
采用自动化智能闭环控制技术，在前罗拉引出罗拉传动、后罗拉及梳箱传动采用独立伺服控制，圈条传动及换向采用变频控制，运用现代驱动和电脑控制技术组成一个高精度的随动控制系统，实现各电机之间的同步控制。
- 制条质量好  
采用螺旋针梳式梳理与木(竹)罗拉加压前罗拉的牵伸形式，使麻条运动稳定，纤维分裂度高，经过FX290、FX291、FX292、FX293、FX294逐道工序的多次牵伸并合，使制成的麻条不均匀率低，从而生产出高品质的麻条。
- 维护保养方便  
麻条牵伸采用2伺服电机控制，圈条传动及换向采用变频控制，条筒增容采用气动式压紧装置的并条机机械结构简化可靠，维护保养方便省时，电气控制系统抗干扰能力强，简洁的人机对话界面可方便地由操控面板调整工艺需求。

- High degree of mechatronics  
Adopted the automatic intelligent closed-loop control technology. The independent servo control is adopted in the front roller & lead-out roller drive and the back roller & carriage drive. The variable frequency control is adopted in the coiler drive and reversing. The modern drive and computer control technology are used to form a high-precision servo control system, which realizes the synchronous control between the motors.
- Slivering High quality  
Faller Screw type combing and wooden (bamboo) roller pressure and Front roller drawing form are adopted to make the silver movement are stable, the fiber splitting degree high, after multiple drawing and doubling of FX290, FX291, FX292, FX293 and FX294, so the unevenness of silver strip is low, to produce high-quality flax silver.
- Convenient on maintenance  
The silver drawing are controlled by 2 servo motors, inverter control for coil driving and reversing, pneumatic pressing device for silver can increase capacity. Its mechanical structure is simple and reliable, maintenance is convenient and time-saving. The electrical control system has strong anti-interference ability. The simple man-machine interface can easily adjust the process parameters from the control panel.

### 主要技术参数 Main specification

项次 Item	型号 Model	FX290	FX291	FX292	FX293	FX294
节数(梳箱数) Number of Heads		2 · 3 · 4	2 · 3 · 4	3 · 4 · 5	4 · 5 · 6	5 · 6 · 7
节距 Pitch of Carriage plates		1180mm	1104mm	1003mm	953mm	928mm
牵伸并合形式 Type of Drafting and Doubling		螺旋针梳式梳理、木(竹)罗拉加压、前罗拉牵伸、导麻板并合 Faller Screw type combing, wooden (bamboo) roller pressing and front roller drawing form, doubling at Silver guide plate				
梳针密度(针/inch) Needle density		12	16	20	23	28
出条速度(mi/min) Delivery Speed		Max 29m/min				
牵伸倍数 Drafting Ratio		6.0~15.0倍 无级 Stepless Adjustable				
每节喂入根数 Number of feed silver/head		8				
最大喂入重量(g/m) Max. Feed silver Weight		60	50	40	30	20
出条并合根数 No. s of delivery Doubling		8				
最小出条重量(g/m) Min. delivery silver weight		17	11	7.3	4.9	1.6
喂入条筒 Feeding Silver Can		φ600 × 1000mm	φ500 × 900 mm		φ400 × 900 mm	
输出条筒 Delivery Silver Can		φ500 × 900mm		φ400 × 900 mm		
断条自停 Stop motion when Silver breakage		喂入、出条光电检测，PLC控制 Feeding and Delivery photoelectric detection, PLC control				
条筒增容 Silver can increase capacity		气动式压紧装置 Pneumatic compression device				
电机功率(kw) Installed Power		出条电机 Delivery motor		4		
		喂入电机 Feed motor		2		
		圈条电机 Coiler motor		0.75		
外形尺寸(长*宽*高)CM Overall Sizes(L*W*H)		438 × 490 × 201	415 × 520 × 201	485 × 515 × 201	560 × 534 × 201	641 × 423 × 201

## FX405A 亚麻粗纱机

### FX405A Flax Roving Frame



该机是在充分吸收国内外同类机型的优点基础上，结合用户的要求经不断改进而研制的亚麻粗纱机。系统将前道工序提供的麻条经梳理、牵伸、加捻后制成细度为1.2~4公支的均匀、优质的粗纱麻条。供细纱机纺制优质麻纱。适用于亚麻的纯纺及混纺。

The FX405A Flax Roving Frame developed on the basis of fully absorbing the advantages of Mackie Flax Roving Frame, combining continuously improving with the users requirements. It is a uniform and high-quality roving flax with 1.2~4 Nm of fineness from the flax sliver provided by the previous drawing process after gilling, drafting and twisting, which is used for spinning high-quality linen yarn on the spinning frame. It is suitable for pure linen spinning and blending of flax.

### 主要性能特点 Main performance features

- 机电一体化程度高  
采用自动化智能闭环控制技术，在锭子旋翼传动、筒管卷绕成形、升臂换向、前罗拉传动、后罗拉及梳箱传动部位均采用独立伺服控制，运用现代驱动和电脑控制技术组成一个高精度的伺服控制系统，实现各电机之间的同步控制。
- 纺纱质量优  
采用螺旋针梳式梳理与木(竹)罗拉加压前罗拉牵伸形式，使麻条运动稳定，纤维分离度高，通过PLC控制的随动控制系统，严格控制纺纱卷绕时张力的一致性，完善解决开、关车时的粗细节发生，生产出高品质的优质粗纱。
- 维护保养方便  
采用5伺服电机控制的粗纱机其机械结构简化可靠，维护保养方便省时，电气控制系统布局合理，抗干扰能力强，简洁的人机对话界面可方便地由操控面板调整工艺需求。
- High degree of mechatronics  
Using automatic intelligent closed-loop control technology, independent servo control is adopted in the parts of Flyer drive, bobbin winding forming, lifting reversing, front roller drive, Back roller and Carriage drive. Modern drive and computer control technology are used to form a high-precision servo control system to realize synchronous control among motors.
- Excellent Roving quality  
Adopt Faller Screw type combing and Wooden (bamboo) roller pressure front roller drawing form, so the sliver movement are stable, high degree of fiber splitting, through the PLC control of the follow-up control system, strict control of spinning tension consistency, improve the solution to thick and thin section when on/off the Frame, produce high quality roving.

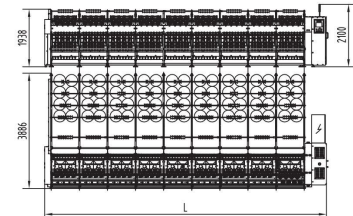
### ● Convenient on maintenance

The Roving frame controlled by 5 servo motors has the advantages of simple and reliable mechanical structure, convenient and time-saving on maintenance, reasonable electrical control system, strong anti-interference ability, and simple man-machine dialogue interface, which can easily adjust the process parameters on the control panel.

### 主要技术参数 Main specification

锭数 No.s of Spindle	72, 96, 120	
锭距 Spindle pitch	190.5 mm	
牵伸形式 Type of Drafting	螺旋针梳式梳理、木(竹)罗拉加压前罗拉牵伸 Faller Screw type combing, wooden(bamboo) roller pressure with front roller drafting	
梳针密度(针/Cm) Needle density	11.5 pins/Cm	
出条速度 Delivery Speed	Max. 30.6 m/min	
锭速 Spindle Speed	Max. 800rpm	
牵伸倍数 Drafting Ratio	6.0~15.0倍 无级 Steplless adjustable	
适纺范围 Rove count range	250~1000 Tex (1~4 Nm)	
捻度范围 Twist range	16.0~99.0(TPM) 无级 Steplless adjustable	
喂入条筒 Feed Sliver Can	φ400~φ500 × 900mm	
卷装尺寸 Rove Package	φ140 × 290mm	
电机功率 Installed Power	锭翼电机 Installed Power	5.5 Kw
	筒管电机 Bobbin motor	4.5Kw
	前罗拉电机 Front Roller motor	4.5kw
	后罗拉电机 Back Roller Motor	3Kw
	筒管电机 Bobbin motor	1.5Kw

锭数 No.s of Spindle	总长尺寸 Size of Length
120锭 120 sps	15160
96锭 96 sps	12325
72锭 72 sps	9485



## FX505A型湿纺细纱机

FX505A TYPE FLAX WET RING SPINNING FRAME



FX505A型湿纺细纱机系消化、吸收先进技术,处于国内领先水平的新品种。适用于纺制9.5公支-54公支的亚麻细纱,还可用于苧麻、大麻的湿纺加工。机器自停罗拉运转和弹簧加压系统灵敏可靠。断头率低,牵伸罗拉获国家专利。本机具有纺纺范围广、纺纱支数高、转速高等特点。

FX505A wet ring spinning frame is a new type of spinning frame which is in the leading level in China by digesting and absorbing the advanced technology. It can be used for spinning 9.5-54Nm Linen yarn and wet spinning of Ramie and Hemp. Fitted with self-stop roller operation and spring pressure system are sensitive and reliable. The rate of end breakage is low, the drafting roller has won the national patent. This Frame has wide spinning range, high spinning count and high speed etc. characteristics.

### 可选配置 Optional configuration

自动润滑清洗装置;	Automatic lubrication and cleaning device;
牵伸罗拉轴承式;	Drawing roller bearing type;
皮圈罗拉轴承式;	Rubber roller bearing type;
车头齿轮滴油润滑。	Oil dripping lubrication of front gear.

浙江金鹰股份有限公司  
ZHEJIANG GOLDEN EAGLE CO., LTD.



### 主要性能特点 Main performance features

- 采用电子凸轮升降, 利于络筒退绕;
  - 电器采用PLC可编程和变频调速;
  - 车头传动齿轮采用锻造精密磨齿加工, 提高使用寿命;
  - 牵伸采用弹簧加压方式;
  - 罩壳与紧固件全部采用不锈钢材质。
- Electronic cam is used to lift and unwind the winding;
  - The electric appliance adopts PLC programming and frequency control;
  - The Gearing End transmission gear is processed by forging and precision grinding to improve its service life;
  - The drawing adopts the way of spring pressure;
  - The cover and fasteners are made of stainless steel.

### 主要技术参数 Main specification

锭数 No. s of Spindle	256,272,288,320
锭距 Spindle pitch	88 mm
牵伸倍数 Drafting Ratio	12-30
钢领直径 Ring Diameter	62/55 mm
筒管长度 Yarn Tube Length	240 mm
锭速 Spindle speed range	5000-8000 r/min
适纺支数 Spinnable yarn count	9.5-54 Nm
粗纱卷装 Rove package	φ 140*290 mm, φ 115*230 mm
锭子型式 Type of Spindle	铝套杆锭子 Aluminum-coated stem spindle
升降型式 Type of Lifting	电子凸轮升降 Electronic cam lifting

锭数 No. s of Spindle	256锭 256 sps	272锭 272 sps	288锭 288 sps	320锭 320 sps
外形尺寸(长×宽×高) Overall size (L×W×H)	12500x1620x2230	13200x1620x2230	13900x1620x2230	15300x1620x2230



## FX508A型湿纺细纱机

### FX508A TYPE FLAX WET RING SPINNING FRAME



FX508A型湿纺细纱机是本公司为引导亚麻湿纺细纱机发展潮流，以FX505A为基础，从满足用户对高速、高稳定性、高可靠性的要求出发，自主研发的新一代集电子牵伸、电子升降等技术于一体的智能型亚麻湿纺细纱机。

FX508A Wet Ring Spinning Frame is a new generation of intelligent flax wet spinning frame, which is developed by our company to guide the development trend of flax wet spinning frame. It is based on model FX505A to meet the users requirements, for high speed, high stability and high reliability.

#### 可选配置 Optional configuration

自动润滑清洗装置; Automatic lubrication and cleaning device;  
牵伸罗拉轴承式; Drawing roller bearing type;  
皮圈罗拉轴承式。 Rubber roller bearing type.

#### 主要性能特点 Main performance features

- 采用电子凸轮升降，利于络筒退绕;
- 采用PLC可编程和伺服电机闭环控制;
- 牵伸采用弹簧加压方式;
- 罩壳与紧固件全部采用不锈钢材质。
- Electronic cam lifting is adopted to facilitate unwinding;
- PLC programming and servo motor closed-loop control are adopted;
- The drawing adopts spring pressure;
- The cover and fasteners are made of stainless steel.

#### 主要技术参数 Main specification

锭数 No.s of Spindle	256,272,288,320		
锭距 Spindle pitch	88 mm		
牵伸倍数 Drafting Ratio	12~30		
钢领直径 Ring Diameter	62/55 mm		
筒管长度 Yarn Tube Length	240 mm		
锭速 Spindle speed range	5000~8000 r/min		
速纺支数 Spinnable yarn count	9.5~54 Nm		
粗纱卷装 Rove package	φ140*290 mm, φ115*230 mm		
锭子型式 Type of Spindle	铝套杆锭子 Aluminum-coated stem spindle		
升降型式 Type of Lifting	电子凸轮升降 Electronic cam lifting		
牵伸传动型式 Type of Drafting Driving	电子牵伸系统 Electronic drafting system		

锭数 No.s of Spindle	256锭 256 sps	272锭 272 sps	288锭 288 sps	320锭 320 sps
外形尺寸(长×宽×高) Overall size (L×W×H)	12550×1620×2230	13250×1620×2230	13950×1620×2230	15350×1620×2230

## FX510型智能集落亚麻湿纺细纱机 FX510 Flax Wet Ring Spinning Frame fitted with Auto-doffing unit.

浙江金鹰股份有限公司  
ZHEJIANG GOLDEN EAGLE CO., LTD. 



FX510型智能集落亚麻湿纺细纱机获得多项国家专利。是本公司根据当前亚麻湿纺细纱机的发展趋势、产品现状、市场需求等，从满足用户对减少用工、降低劳动强度、提高自动化的要求出发，基于英国莱姆Linmack亚麻细纱机平台自主研发的国内领先、国际先进的智能型集落细纱机。

FX510型智能集落亚麻湿纺细纱机继承了Linmack亚麻细纱机全部优点，与传统亚麻细纱机相比，转速高、能耗低、纺纱质量优，采用电子牵伸技术、电子凸轮升降技术、快速集落落纱技术、全自动落纱管技术、单锭断头检测技术，其自动化程度高，是国内外高端客户升级换代的首选。

FX510 Flax Wet Ring Spinning Frame fitted with Auto-doffing unit has won many national patents. Our company according to the current development trend, product status and market demand etc., Based on the Mackie's Linmark Flax Wet Spinning Frame platform, it is a domestic leading and international advanced intelligent gathering flax wet spinning frame.

FX510 Flax Wet Ring Spinning Frame fitted with Auto-doffing unit has inherited all the advantages of Linmack flax wet spinning frame. Compared with traditional flax spinning frame, FX510 Flax Wet Ring Spinning Frame fitted with Auto-doffing unit has high spindle speed, low energy consumption and excellent spinning quality. It adopts electronic drafting technology, electronic cam lifting technology, fast collective doffing technology, full-automatic falling tube technology and single spindle broken end detection technology, with high degree of automation. It is the first choice for high-end customers when upgrade and new project.

### 主要性能特点 Main performance features

- 两侧锭子由单独龙带传动，保持捻度均匀一致；
- 龙筋升降可以确保纺纱过程中的张力与气圈恒定；
- 罗拉传动由精密且简洁的伺服电机传动；
- 配置电子凸轮成形技术——纱线精密成形保障；
- 所有罗拉与加压罗拉都装在密封的轴承上，延长了罗拉使用寿命并保证牵伸系统运行平稳，降低能耗；
- 行走小齿轮油路自动对钢锭进行润滑，节省用油，延长钢锭使用寿命。同时为锭子上的纱锭进行高压水气清洗，保持纱道清洁；
- 智能监测系统实时准确地监测每一个纱锭的运行状况，将监测结果和机台的其他运行数据进行综合分析；
- 智能化电控系统具有参数设定、工艺调整、产量统计、故障显示与排除等人机对话界面；
- 自动落纱装置从落纱到换管自动完成，缩短落纱时间，省工、省力的保证；
- 采用整体式免加油锭子，经久耐用，降低维护保养费用。

- The both sides spindles are driven by a separate tangential belt to keep the twist uniform;
- The lifting plates can ensure the constant tension and balloon in the spinning process;
- Roller drive is driven by precise and simple servo motor;
- Configuration of electronic cam forming technology — guarantee of yarn precision forming;
- All rotors and pressure rollers are installed on sealed bearings to extend the service life of rollers, ensure the smooth operation of drafting system and reduce energy consumption;
- The oil mist ejected from the trolley automatically lubricates the ring to save oil and prolong the service life of the ring. meantime, the high pressure water clean yarn guide of the leaf plate to keep the spinning channel clean;
- The single spindle detection system can monitor the operation status of each spindle in real time and accurately, and comprehensively analyze the monitoring results and other operation data of the machine;
- The intelligent electronic control system has man-machine interface such as parameter setting, process adjustment, output statistics, fault display and troubleshooting;
- Automatic doffing device from doffing to tube change automatically, shorten the doffing time, save labor and labor;
- It adopts integral oilless spindle, which is durable and reduces maintenance cost.

### 主要技术参数 Main specification

锭数 No.s of Spindle	264,360,384,408
锭距 Spindle pitch	88mm
牵伸倍数 Type of Drafting	10-25
钢锭直径 Ring Diameter	62/55 mm
筒管长度 Yarn Tube Length	222mm
捻度范围 Twist range	306-764T/m
转速 Spindle speed range	5000-8800r/min
捻纺支数 Spinable yarn count	10-60Nm
自停机构 Auto stop motion	光电型 photocell type
粗纱卷装 Rove package	φ140X290, φ115X230
锭子型式 Type of Spindle	整体免加油锭子 Whole set spindle without add lubricant

锭数 No.s of Spindle	总长尺寸 Size of Length
264锭 264 sps	17550
360锭 360 sps	21770
384锭 384 sps	22830
408锭 408 sps	23880

