KUKOOMA®

真正同步的电子拖轮

TRULY SYNCHRONOUS ELECTRONIC PULLER

四川库卡玛科技有限公司

SICHUAN KUKAMA TECHNOLOGY CO.LTD.

地址：四川省成都市双流区西南航空港经济开发区杨桥路655号

电话：028-85623883

邮箱：449610696@qq.com

微信扫一扫 关注该公众号

KUKOOMA®

库卡玛科技

真正同步的电子拖轮

Truly synchronized electronic puller

专注高端智能电子拖轮

FOCUSING ON HIGH-END INTELLIGENT ELECTRONIC PULLER

解决面料车缝不顺畅
起皱易打滑上下错层

Solve the problem such as unsmooth, wrinkle, easy to slip, upper and lower split

TRUE SYNCHRONIZATION
VERY EASY TO USE

真同步
更好用

无变速箱 No gearbox

不漏油 No oil leakage

超静音 Ultra-quiet

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

双步进电子拖轮DT510

DOUBLE-STEP ELECTRONIC PULLER DT510

产品介绍

PRODUCTINTRODUCTION

- 解决面料车缝不顺畅，起皱，易打滑，上下错层等现象，新手易学上手快，效率相比未加拖轮车缝时增加50%-200%。
- 控制箱，电源与拖轮一体集成，且采用双闭环步进电机控制系统，同步效果更精确，支持缝纫机最高转速达7000转以上，电机使用寿命相比传统直流电机延长200%-500%。
- 抬压脚、倒缝、剪线信号均能完美适配所有平缝机，电脑平缝机可直接获取缝纫机信号，无需再安装编码器。
- 全角度翻转缝纫机机头，杜绝安装传统机械拖轮后维修缝纫机不方便等困扰。

- It solves the problems of fabric sewing not being smooth, wrinkling, slipping easily, and misalignment between upper and lower layers. It is easy for beginners to learn and get started quickly. Compared with sewing without puller, the efficiency is increased by 50% to 200%.
- The control box, power supply and puller are integrated as one, and it adopts a double closed-loop stepping motor control system, which makes the synchronization effect more precise. It supports the maximum speed of sewing machines up to over 7000 RPM, and the service life of the motor is 200%-500% longer than that of traditional DC motors.
- The signals for lifting and pressing feet, reverse sewing and cutting thread can all be perfectly adapted to all flat sewing machines. Computerized flat sewing machines can directly obtain the signals of sewing machines without the need to install encoders again.
- The full-angle rotation of the sewing machine head eliminates the inconvenience of maintaining the sewing machine after installing traditional mechanical puller.

细节图：

通用安装各种机型 | 一体化闭环控制系统 | 一体化显示

适配机型：

用于家纺、制衣、户外设备、防尘、家居等与缝纫相关的行业

应用范围：

平缝机、双针机、同步机、锁式机、厚料机、埋夹机等

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

双步进电子拖轮DT500

DOUBLE-STEP ELECTRONIC PULLER DT500

产品介绍

PRODUCTINTRODUCTION

- 解决面料车缝不顺畅，起皱，易打滑，上下错层等现象，新手易学上手快，效率相比未加拖轮车缝时增加50%-200%。
- 控制箱与拖轮一体集成，且采用双闭环步进电机控制系统，同步效果更精确，支持缝纫机最高转速达7000转以上，电机使用寿命相比传统直流电机延长200%-500%。
- 抬压脚、倒缝、剪线信号均能完美适配所有平缝机，电脑平缝机可直接获取缝纫机信号。
- 平缝机可直接获取缝纫机信号，无需再安装编码器。
- 全角度翻转缝纫机机头，杜绝安装传统机械拖轮后维修缝纫机不方便等困扰。

- It solves the problems of fabric sewing not being smooth, wrinkling, slipping easily, and misalignment between upper and lower layers. It is easy for beginners to learn and get started quickly. Compared with sewing without puller, the efficiency is increased by 50% to 200%.
- The control box and puller are integrated as one, and it adopts a double closed-loop stepping motor control system, which makes the synchronization effect more precise. It supports the maximum speed of sewing machines up to over 7000 RPM, and the service life of the motor is 200%-500% longer than that of traditional DC motors.
- The signals for lifting and pressing feet, reverse sewing and cutting thread can all be perfectly adapted to all flat sewing machines. Computerized flat sewing machines can directly obtain the signals of sewing machines without the need to install encoders again.
- The full-angle rotation of the sewing machine head eliminates the inconvenience of maintaining the sewing machine after installing traditional mechanical puller.

细节图：

通用安装各种机型 | 一体化闭环控制系统 | 一体化显示

适配机型：

用于家纺、制衣、户外设备、防尘、家居等与缝纫相关的行业

应用范围：

平缝机、双针机、同步机、锁式机、厚料机、埋夹机等

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

三步进差动双驱电子拖轮ST600

THREE-STEP DIFFERENTIAL DUAL-DRIVE ELECTRONIC PULLER ST600

产品介绍

PRODUCTINTRODUCTION

- 无变速箱、无漏油现象、超静音、自带差动效果，上下轮独立电机控制。
- 三步进电机动力更强劲，抬轮高度可进行调节，厚至棉被，薄至纱都可轻松应对。
- 控制箱与拖轮一体集成。且采用三步进电机控制系统,同步效果更精确，支持缝纫机最高转速达7000转以上，电机使用寿命相比传统直流电机延长200%-500%。
- 抬压脚、倒缝、剪线信号均能完美适配所有平缝机，电脑平缝机可直接获取缝纫机信号，无需安装编码器。

- No gearbox, no oil leakage, ultra-quiet, with built-in differential effect, and the upper and lower wheels are independently controlled by motors.
- The three-step motor has more powerful performance, the height of the lifting wheel can be adjusted. It can handle everything from thick quilts to thin yarns with ease.
- The control box is integrated with the puller. Moreover, it adopts a three-step motor control system, providing more precise synchronization. It supports a maximum sewing machine speed of over 7,000 revolutions per minute, and the motor service life is 200% to 500% longer than that of traditional DC motors.
- The signals for lifting and pressing feet, reverse sewing and cutting thread can all be perfectly adapted to all flat sewing machines. Computerized flat sewing machines can directly obtain the signals of sewing machines without the need to install encoders

细节图：

三步进电机动力更强劲 | 抬轮高度可调节 | 一体化显示

应用范围：

用于家纺、制衣、户外设备、防尘、家居等与缝纫相关的行业

适配机型：

平缝机、双针机、同步机、锁式机、厚料机等

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

三步进差动双驱电子拖轮ST610

THREE-STEP DIFFERENTIAL DUAL-DRIVE ELECTRONIC PULLER ST610

产品介绍

PRODUCTINTRODUCTION

- 无变速箱、无漏油现象、超静音、自带差动效果，上下轮独立电机控制。
- 三步进电机动力更强劲，抬轮高度可进行调节，厚至棉被，薄至纱都可轻松应对。
- 分体电控，适用于后背带重型自动抬压脚的缝纫机。同步效果更精确，支持缝纫机最高转速达7000转以上，电机使用寿命相比传统直流电机延长200%-500%。
- 抬压脚、倒缝、剪线信号均能完美适配所有平缝机，电脑平缝机可直接获取缝纫机信号，无需安装编码器。

- No gearbox, no oil leakage, ultra-quiet, with built-in differential effect, and the upper and lower wheels are independently controlled by motors.
- The three-step motor has more powerful performance, the height of the lifting wheel can be adjusted. It can handle everything from thick quilts to thin yarns with ease.
- Split electric control, suitable for sewing machines with heavy-duty automatic lifting and pressing feet on the back. Moreover, the adoption of a three-step motor control system ensures more precise synchronization, supporting a maximum sewing machine speed of over 7,000 revolutions per minute. Compared with traditional DC motors, the service life of the motor is extended by 200% to 500%.
- The signals for lifting and pressing feet, reverse sewing and cutting thread can all be perfectly adapted to all flat sewing machines. Computerized flat sewing machines can directly obtain the signals of sewing machines without the need to install encoders

细节图：

一体化闭环控制系统 | 三步进电机动力更强劲 | 分体电控

应用范围：

用于家纺、制衣、户外设备、防尘、家居等与缝纫相关的行业

适配机型：

平缝机、双针机、同步机、锁式机、厚料机等

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

智能电子拖轮KA3000

INTELLIGENT ELECTRONIC PULLER KA3000

产品介绍

PRODUCTINTRODUCTION

- 解决面料车缝不顺畅，起皱，易打滑，上下错层等现象，新手易学上手快，效率相比未加拖轮车缝时增加50%-200%。
- 抬压脚、倒缝、剪线信号均能完美适配所有平缝机，电脑平缝机可直接获取缝纫机信号，无需再安装编码器。
- 全角度翻转缝纫机机头，杜绝安装传统机械拖轮后维修缝纫机不方便等困扰。

- It solves the problems of fabric sewing not being smooth, wrinkling, slipping easily, and misalignment between upper and lower layers. It is easy for beginners to learn and get started quickly. Compared with sewing without puller, the efficiency is increased by 50% to 200%.
- The signals for lifting and pressing feet, reverse sewing and cutting thread can all be perfectly adapted to all flat sewing machines. Computerized flat sewing machines can directly obtain the signals of sewing machines without the need to install encoders again.
- The full-angle rotation of the sewing machine head eliminates the inconvenience of maintaining the sewing machine after installing traditional mechanical puller.

细节图：

步进电机寿命更长 | 全角度翻转，方便维修 | 通用安装各种机型

应用范围：

用于家纺、制衣、户外设备、防尘、家居等与缝纫相关的行业

适配机型：

平缝机、双针机、同步机、锁式机、厚料机、埋夹机等

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

双步进闭环带式电子拖轮PT600

DOUBLE-STEP CLOSED-LOOP BELT ELECTRONIC PULLER PT600

产品介绍

PRODUCTINTRODUCTION

- 解决面料车缝不顺畅，起皱，易打滑，上下错层等现象，新手易学上手快，效率相比未加拖轮车缝时增加50%-200%。
- 抬压脚、倒缝、剪线信号均能完美适配所有平缝机，电脑平缝机可直接获取缝纫机信号，无需再安装编码器。
- 全角度翻转缝纫机机头，杜绝安装传统机械拖轮后维修缝纫机不方便等困扰。
- 拖轮更贴近于压脚，且面料接触面积更大，适合高端精细化缝制。

- It solves the problems of fabric sewing not being smooth, wrinkling, slipping easily, and misalignment between upper and lower layers. It is easy for beginners to learn and get started quickly. Compared with sewing without puller, the efficiency is increased by 50% to 200%.
- The signals for lifting and pressing feet, reverse sewing and cutting thread can all be perfectly adapted to all flat sewing machines. Computerized flat sewing machines can directly obtain the signals of sewing machines without the need to install encoders again.
- The full-angle rotation of the sewing machine head eliminates the inconvenience of maintaining the sewing machine after installing traditional mechanical puller.
- The puller is closer to the footrest and has a larger contact area with the fabric, making it suitable for high-end and meticulous sewing.

细节图：

双电机控制，使用寿命更长 | 采用进口高耐磨皮带 | 一体化显示

应用范围：

用于家纺、制衣、户外设备、防尘、家居等与缝纫相关的行业

适配机型：

平缝机、双针机、同步机、锁式机、厚料机等、埋夹机等

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

双电机平台式双轮电子拖轮BT400

DUAL-MOTOR PLATFORM-TYPE DUAL-WHEEL ELECTRONIC PULLER BT400

产品介绍

PRODUCTINTRODUCTION

- 无变速箱、无漏油现象、超静音。
- 控制箱与拖轮一体集成。且采用双步进闭环电机控制系统,同步效果更精确，支持缝纫机最高转速达7000转以上，电机使用寿命相比传统直流电机延长200%-500%。
- 抬压脚、倒缝、剪线信号均能完美适配所有包缝机，电脑包缝机可直接获取缝纫机信号，无需安装编码器。

- No gearbox, no oil leakage, ultra-quiet.
- The control box is integrated with the puller. And it adopts a dual-step closed-loop motor control system, providing more precise synchronization. It supports a maximum sewing machine speed of over 7,000 revolutions per minute, and the motor service life is 200% to 500% longer than that of traditional DC motors.
- The signals for lifting and pressing feet, reverse sewing and cutting thread can all be perfectly adapted to all overlock machines. Computerized overlock machines can directly obtain the signals of sewing machines without the need to install encoders.

细节图：

压力调节功能方便易操控 | 安装于缝纫机台面，易安装 | 一体化显示

应用范围：

用于家纺、制衣、户外设备等与缝纫相关的行业

适配机型：

包缝机、绷缝机、多针机、平台式缝纫机等

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

双步进平台带式电子拖轮PT800

DOUBLE-STEP PLATFORM BELT-TYPE ELECTRONIC PULLER PT800

产品介绍

PRODUCTINTRODUCTION

- 解决面料车缝不顺畅，起皱，易打滑，上下错层等现象，新手易学上手快，效率相比未加拖轮车缝时增加50%-200%。
- 控制箱与拖轮一体集成。且采用双步进闭环电机控制系统,同步效果更精确，支持缝纫机最高转速达7000转以上，电机使用寿命相比传统直流电机延长200%-500%。
- 安装简洁，完美适配所有包缝机。
- 拖轮更贴近于压脚，且面料接触面积更大，适合高端精细化缝制。

- It solves the problems of fabric sewing not being smooth, wrinkling, slipping easily, and misalignment between upper and lower layers. It is easy for beginners to learn and get started quickly. Compared with sewing without puller, the efficiency is increased by 50% to 200%.
- The control box is integrated with the puller. Moreover, it adopts a dual-step closed-loop motor control system, providing more precise synchronization. It supports a maximum sewing machine speed of over 7,000 revolutions per minute, and the motor service life is 200% to 500% longer than that of traditional DC motors.
- The installation is simple and perfectly compatible with all overlock machines.
- The puller is closer to the footrest and has a larger contact area with the fabric, making it suitable for high-end and meticulous sewing.

细节图：

拍宗轮传感器，安装简洁 | 安装于缝纫机台面，易安装 | 一体化显示

应用范围：

用于家纺、制衣、户外设备等与缝纫相关的行业

适配机型：

包缝机

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

模板气动拖轮KA100Q

TEMPLATE PNEUMATIC PULLER KA100Q

产品介绍

PRODUCTINTRODUCTION

- 气缸提升压脚，响应迅速。
- 轮子与压脚距离小，可以用于模板拖动。
- 与缝纫机压脚同时具有压制布料的功能。
- 平缝机可改小型自动模板机。

- The cylinder lifts the presser foot with a rapid response.
- The distance between the wheels and the presser feet is small, which can be used for dragging templates.
- It has the function of pressing fabric simultaneously with the presser foot of the sewing machine.
- The flat seam machine can be modified into a small automatic formwork machine.

气动装置反映更快速 | 离布料更近 | 简单易安装

气动拖轮KA300Q

PNEUMATIC PULLER KA300Q

产品介绍

PRODUCTINTRODUCTION

- 气缸提升压脚，响应迅速。
- 解决面料车缝不顺畅，起皱，易打滑，上下错层等现象，新手易学上手快。
- 全角度翻转缝纫机头，维修更方便。

- The cylinder lifts the presser foot with a rapid response.
- Solve the problems of fabric sewing not being smooth, wrinkling, slipping easily, and misalignment between upper and lower layers. It is easy for beginners to learn and get started quickly.
- The full-angle flip sewing machine head makes maintenance more convenient.

气动装置反映更快速 | 步进电机寿命长 | 简单易安装

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

传送带台板500

CONVEYOR TABLE 500

产品介绍

PRODUCTINTRODUCTION

- 内置式台板传送带，空间占地小
- 针对大物件车缝不顺畅，可极大提高工作效率
- 传送带做到真正与缝纫机完全同步，解决大型面料车缝难点
- 有效输送长度380MM

- The built-in platform conveyor belt takes up little space
- It can greatly improve work efficiency when sewing large objects unsmoothly
- The conveyor belt is truly synchronized with the sewing machine, solving the difficulty of sewing large fabrics
- Effective conveying length 380MM

占地空间少 | 镶嵌式传送电机 | 框架结构稳定好

传送带台板500L

CONVEYOR TABLE 500L

产品介绍

PRODUCTINTRODUCTION

- 嵌入式辅助送料台，灵活性高
- 针对大物件车缝不顺畅，可极大提高工作效率
- 传送带做到真正与缝纫机完全同步，解决大型面料车缝难点
- 有效输送长度580MM

- Embedded auxiliary feeding table, with high flexibility
- It can greatly improve work efficiency when sewing large objects unsmoothly
- The conveyor belt is truly synchronized with the sewing machine, solving the difficulty of sewing large fabrics
  Effective conveying length: 580MM

嵌入式灵活性高 | 斜度大台面 | 控制按钮

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

双步进电子拖轮DT400

DOUBLE-STEP ELECTRONIC PULLER DT400

产品介绍

PRODUCTINTRODUCTION

- 解决面料车缝不顺畅，起皱，易打滑，上下错层等问题，新手易学上手快，效率相比未加拖轮车缝时增加50%-200%
- 控制箱与拖轮一体集成，且采用双闭环步进电机控制系统，同步效果更精确，支持缝纫机最高转速达7000转以上，电机使用寿命相比传统直流电机延长200%-500%
- Solve problems such as unsmooth fabric sewing, wrinkling, easy slipping, and misalignment of layers. It is easy for beginners to learn and get started quickly. The efficiency is 50% to 200% higher than when sewing without puller.
- The control box is integrated with the puller. And it adopts a dual-step closed-loop motor control system, providing more precise synchronization. It supports a maximum sewing machine speed of over 7,000 revolutions per minute, and the motor service life is 200% to 500% longer than that of traditional DC motors.

双步进闭环控制系统 | 无电控箱 | 一体化显示

长臂厚料机电子拖轮ST620

LONG-ARM THICK MATERIAL MACHINE ELECTRONIC PULLER ST620

产品介绍

PRODUCTINTRODUCTION

- 无变速箱、无漏油现象、超静音、自带差动效果，上下轮独立电机控制
- 解决面料车缝不顺畅，起皱，易打滑，上下错层等问题，新手易学上手快
- 抬压脚、倒缝、剪线信号均能完美适配所有长臂车厚料机，可直接获取缝纫机信号，无需安装编码器
- No gearbox, no oil leakage, ultra-quiet, with built-in differential effect, and the upper and lower wheels are independently controlled by motors
- Solve problems such as unsmooth fabric sewing, wrinkling, easy slipping, and misalignment of layers. It is easy for beginners to learn and get started quickly.
- The signals for lifting and pressing feet, reverse sewing and cutting thread can all be perfectly adapted to all long-arm thick material sewing machines. It can directly obtain the sewing machine signal without the need to install an encoder

三步进电机动力更强劲 | 分体电控 | 抬轮高度可调节

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

全自动翻条机FT400

Automatic Turning Machine FT400

产品介绍

PRODUCTINTRODUCTION

- 设备自动化程度高，配备便捷的一键启动功能，操作简单高效，一名工人可同时顺畅操作多台机器，大幅节省人力成本。
- 具有灵敏的断线检测、无料检测功能，生产中遇断线或无布情况，机器会迅速自动停机，减少物料浪费。
- 设备生产效率突出，送料均匀稳定，对比传统人工拉带的生产方式，能显著缩短工时，效率大幅提升。

- The equipment has a high degree of automation and is equipped with a convenient one-click start function. It is simple and efficient to operate. One worker can smoothly operate multiple machines at the same time, significantly reducing labor costs.
- It is equipped with sensitive broken line detection and no material detection functions. In production, there are situations such as broken threads or no fabric, the machine will quickly and automatically shut down to reduce material waste.
- The production efficiency of the equipment is outstanding, with uniform and stable material feeding. Compared with the traditional manual belt pulling production method, it can significantly reduce working hours and greatly improve efficiency.

细节图：

一键启动 | 断线检测、无料检测 | 全自动翻条机

应用范围：

用于家纺、制衣、户外设备、防尘、家居等与缝纫相关的行业

适配机型：

平缝机、双针机、同步机、锁式机、厚料机等

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

拖轮规格

Specification of puller

拖轮类型	规格（宽度*外径）MM
平轮	11*32
	20*32
	32*32
	45*32
	60*32
	11*40
	20*40(标配)
	32*40
	45*40
	60*40
	11*50
	20*50
	15*40

拖轮类型	规格（宽度*外径）MM
齿轮	11*32
	32*32
	11*40
	20*40
	32*40
	45*40
	15*32(铁轮)
	20*40(铁轮)

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

适配机型

Applicable model

平缝机 Sewing machine	适配全部机型，安装方式不同，视具体机型而定。电脑平缝机可以选配内置编码器款。 Adapt to all models, different installation methods, depending on the specific model. Computerized sewing machine can be equipped with inside encoder.
双针机 Double neddlesewing machine	重机款：LH3500系列（3528/3568/3578/3588） JUKI：LH3500 Series
	兄弟款：842/8420/845/8450/8452（市面上大多数双针机都是兄弟款双针） Brothers: 842/8420/845/8450/8452 (most of the double needle machines on the market are brothers series, compatible with most
埋夹机 Wrist sewing machine	重机1190系列 JUKI1190 Series
	兄弟927系列 Brother 927 Series
包缝机 All oversewing machines	飞马系列：700/800/900/EX等不带剪线系列 Pegasus Series: 700/800/900/EX Series without Cutting
	大和系列：不带剪线系列 Yamantao Series: No Cutting Line Series
绷缝机 Llat seaming sewing machine	所有绷缝机（原装不带拖轮），小方头缝纫机需加底轮 All flat seaming machine (Original without puller) Small square-headed sewing machines need to add a bottom
同步机 Synchronous sewing machine	所有三同步和两同步缝纫机 All three synchronization and two synchronization sewing machine
链式机 Chain sewing machine	所有链式机（包含单针，双针链式带刀缝纫机） All chain machines (including single needle, double needle chain sewing machine with knife)
花样机 Pattern machine	重机LZ-2280/2290系列 JUKI LZ-2280/2290 Series 国产曲折缝缝纫机 Domestic zigzag sewing machine
厚料机 Heavy duty sewing machine	杜克普厚料机系列 heavy duty sewing machine
模板机 Formwork sewing machine	长臂车，所有模板机 long arm sewing machine, All formwork sewing machine

---

KUKOOMA® 库卡玛科技 真正同步的电子拖轮

应用场景与案例展示

Application scenario and case presentation

COMPANY PORFILE

公司简介

四川库卡玛科技有限公司位于四川省成都市双流区西南航空港经济开发区,是一家专业生产、销售缝纫机拖布轮、辅助台板、智能传送带等缝纫辅助设备的研发型公司。同时也是一家根据客户需求专业加工定制产品的非标定制公司。

“让缝纫工艺更平整，让缝纫工人更轻松”是公司的产品理念，也是公司不断进步和发展的目的，

更是公司不断创新缝纫设备技术的承诺!

公司拥有自己的技术研发团队，并已获得多项自主知识产权发明及实用新型专利。目前，公司有适配各种平缝机、电脑平缝机、平缝双针机、链式双针机、绷缝机、埋夹机、同步车等系列机型的电子拖轮和多种缝纫辅助设备。

Sichuan Kukama Technology Co., Ltd., located in the Southwest Airport Economic Development Zone, Shuangliu District, Chengdu, Sichuan Province, is a research and development company specializing in the production and sales of sewing auxiliary rib equipment such as sewing machine tug wheels, auxiliary rib platens, intelligent conveyor belts, etc. It is also a non-standard customization company specialized in processing customized products according to customer needs.

"Making the sewing process smoother and the sewing workers easier" is the company's product philosophy, the company's goal of continuous progress and development, and the company's commitment to continuous innovation of sewing equipment technology!

The company has its own technology research and development team, and has obtained a number of independent intellectual property inventions and utility model patents. At present, the company has electronic tugs and a variety of sewing auxiliary equipment that are suitable for various types of flat sewing machines, computer flat sewing machines, flat sewing double-needle machines, chain double-needle machines, stretch sewing machines, embedded clamp machines, synchronous machines and other series of models.