

一如既往的**服务** As always service
特立独行的**品质** Maverick quality

全自动绕线机专业制造企业



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珠海一特自动化设备有限公司
Zhuhai Eternal Automation Co.,Ltd



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更多资讯:

More product information:

<http://www.zheter.com>



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公司简介 Company Profile

珠海一特自动化设备有限公司成立于2002年,是一家专业从事设计、生产、销售自动化绕线机及各种非标自动化设备的公司。从成立之初第一台适用于磁头行业的全自动绕线机到如今成功进入汽车行业的点火线圈专用绕线机,一特凭借着自动化领域的专业水平,成熟的技术和不断创新的精神,在绕线机行业迅速崛起。

公司坐落于风景秀丽的海滨城市-珠海三灶,占地面积7000多平方米,拥有高精度的加工设备,优秀的专业研发人才,完善的售前售后服务体系。自成立伊始,一特公司秉承“一如既往的服务,特立独行的品质”的经营方针,坚定不移地保证产品质量,提高创新能力、潜心研发新机型以适应市场的多变和多样化。公司产品涉及家电、照明、汽车、电子、五金、能源等行业,产品精益求精的技术和提高效率的工作方式为一特赢得了消费者长期的信任和赞赏,并且通过的ISO9001质量认证体系,为质量保证奠定了基础。

发展中的一特公司本着“积极进取、开拓创新”的理念。不断完善及壮大技术服务团队,将会为您提供高质量的产品和贴心的服务。我们热诚欢迎您致电或莅临本公司。

Zhuhai Eternal Automation Co.,Ltd is founded in 2002 and specialized in the design, production and sell of automatic winding machine, as well as all kinds of non-standard automatic equipments. From the first full automatic winding machine for head industry to the ignition coil winding machine for automobile industry. Eternal Automation Co.,Ltd is developing very fast in the CNC winding machine industry with professional, proven technology and innovation spirit.

Our factory is located in the beautiful coastal city - Zhuhai and more than 7000 square meters. Since founding, we always follow the management idea which is "as always service, maverick quality". We have continued to develop creative products to meet constantly changing and diversifying market needs. Our products are involved in home appliance, automotive, electronics, hardware, energy and other industries. Good product technology, improving work efficiency and ISO9001 quality system are greatly appreciated by customers.

With the spirit of innovation and creation, we will offer you high-quality products and distinctive service since we have professional technical team and new service concept. Welcome to contact us.

工作环境 Working Environment



1



2

生产车间(二) Production workshop (2)	5	前台 Reception Department	1
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		设计部 Design Department	3
		生产车间(一) Production workshop (1)	4



3



6



4



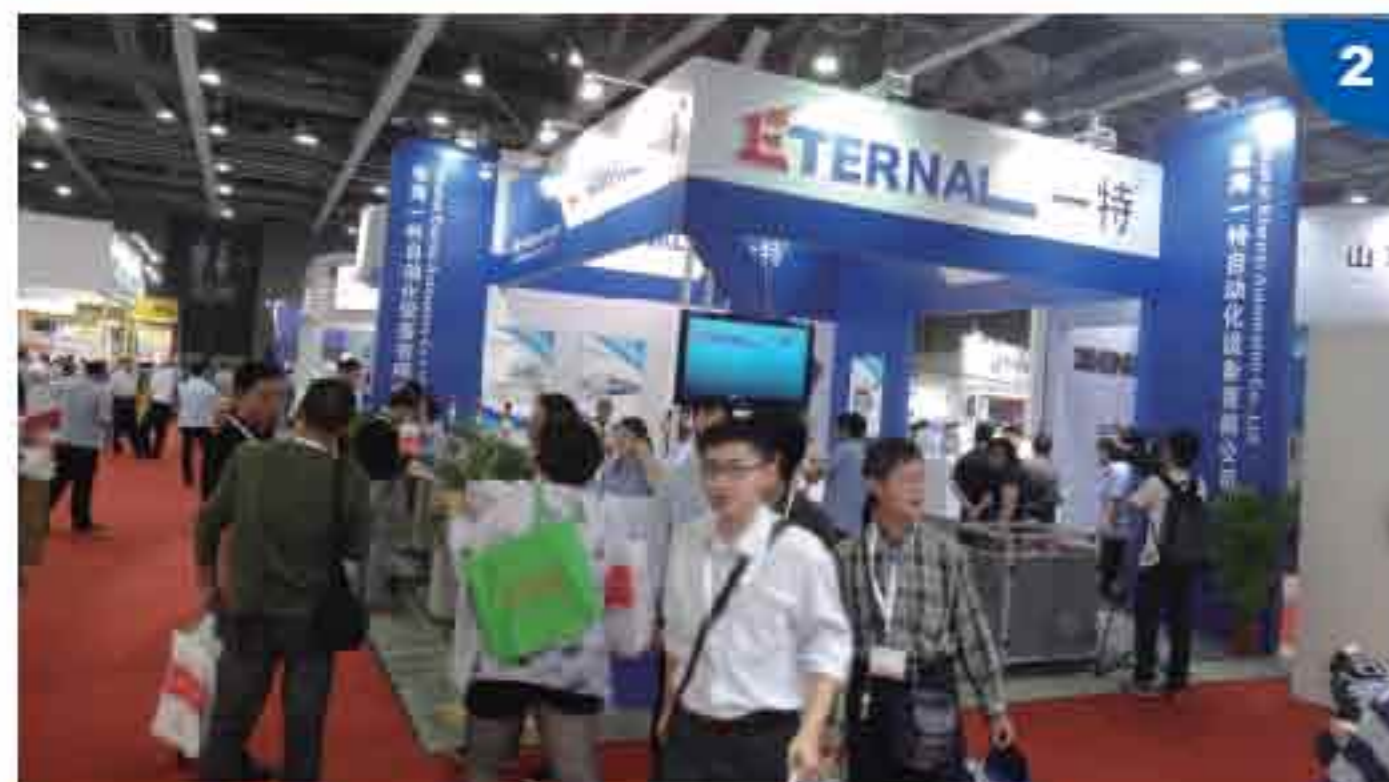
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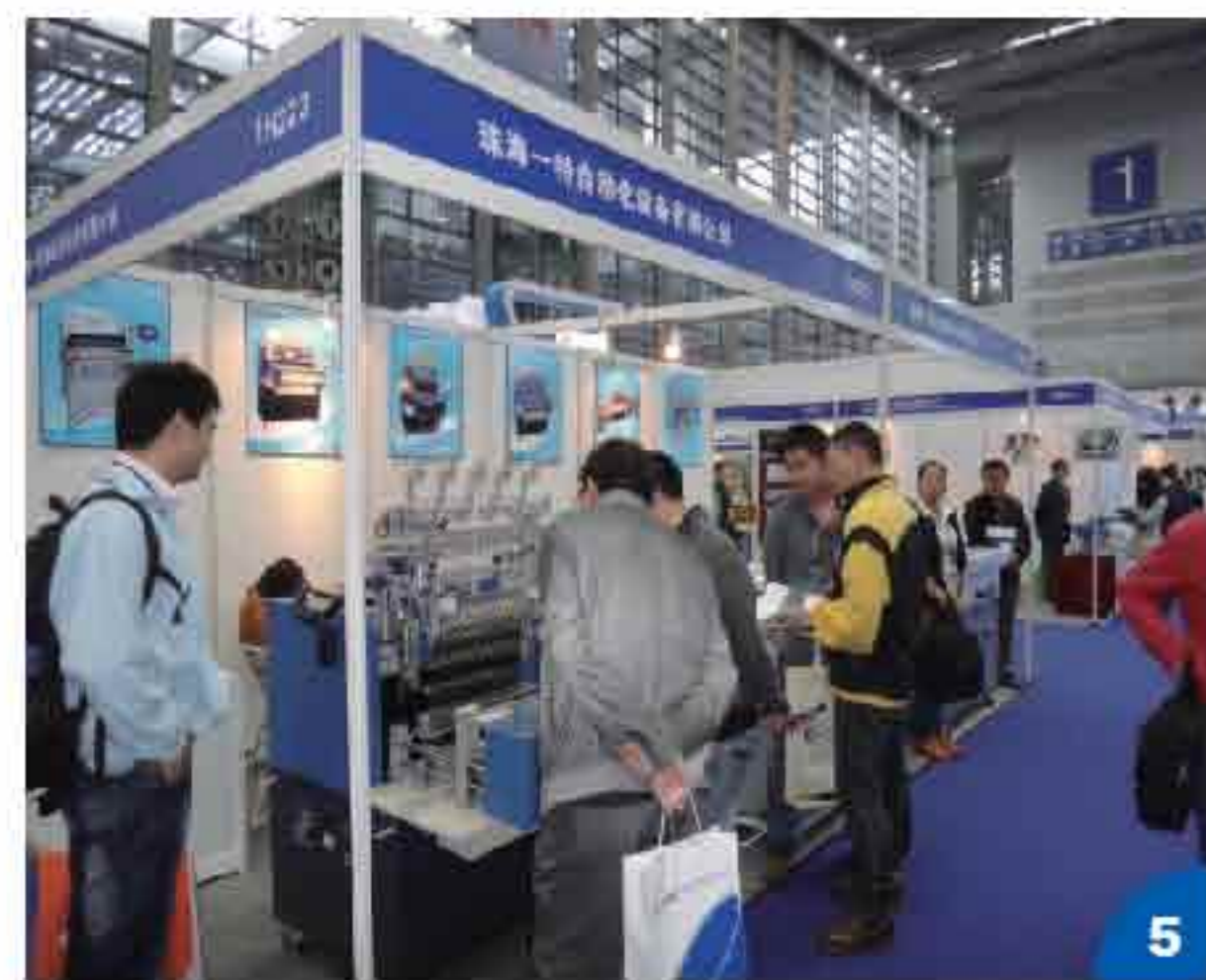
- 1 2013年中国(成都)电子展
- 2 2013年中国(广州)国际绕线设备与技术展览会
- 3 2013年中国(上海)电子展

EXHIBITION 参展信息



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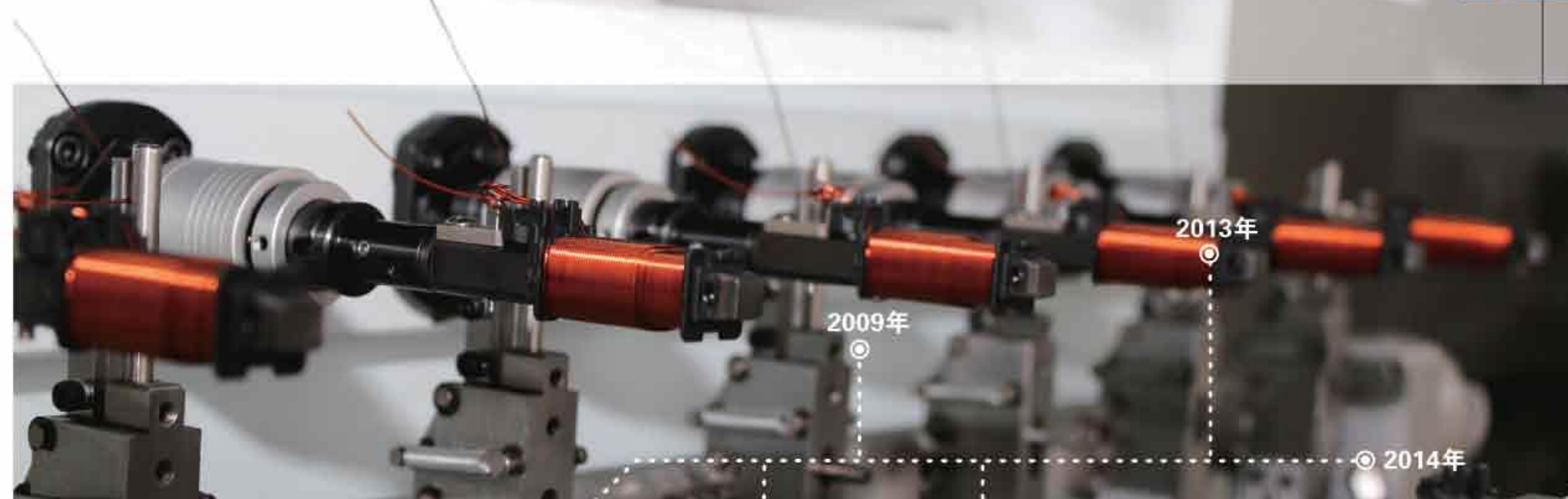
- 4 2013年宁波照明展
- 5 2013年中国(深圳)电子展
- 6 2014年中国(广州)国际绕线设备与技术展览会



5



6



企业沿革 Enterprise Evolution

2002年

设计出第一台十轴全自动绕线机,适用于磁头行业。占有行业范围90%。
Design the first 10 spindles full automatic winding machine, apply to the magnetic head industry, and occupy 90% in this field.



2003年

完成第一台半自动化绕线机,含有激光头。人工上下料排线,操作简单。
Complete the first semi-automatic laser head winding machine. Artificial loading and unloading material and row line, simple operation.



2004年

设计出全自动空心线圈绕线机,马达定子绕线机。
Design the full automatic bobbinless winding machine and motor stator winding machine.



2005年

设计出第一台八轴全自动绕线机,适用于电机行业。
Design the first 8 spindles full automatic winding machine, application to the motor industry.



企业沿革 Enterprise Evolution

2006年

设计出第一台四连串空心线圈绕线机，含有激光头。绕线周期短、效率高。
Design the first four series bobbinless winding machine with laser head. Short winding terms, highly efficiency.



2007年

成功完善了十轴绕线机产品，该产品有高效率、高品质、低成本等优点。
Improve the 10 spindles full automatic winding machine. This product has high efficiency, high quality, low cost, etc. magnetic head industry, and occupy 90% in this field.



2008年

设计出第一台飞叉绕线机。工件小精度高，进入钟表线圈行业。
Design the first flier winding machine. Work piece is small and high precision, application to horologe coil industry.



2009年

完成了自动上料、全自动绕线、焊锡等为一体的全自动生产流水线。
Finished the automatic production line from feeding, winding to soldering.



2010年

带有脱漆装置和吸尘装置，适用于电子点火线圈，成功进入了汽车行业。
Wire stripping device and vacuuming device, apply to electronic ignition coil, enter to the car industry.



2011年

研发出带吸尘、脱漆、剪刀一体全自动绕线机，适用较大型点火线圈，适用于汽车行业。
Design the automatic winding machine with dust collection, depainting and scissors. Apply to big electronic ignition coil for the car industry.



2012年

设计出一款经济实用型绕线设备，在产量稳定下性价比又创新高。
Design a kind of economic and practical winding machine. Base on the stable output, it has the high performance price ratio.



2012年

设计出适合较大型线圈的16轴绕线机和带绕线、包胶为一体的十轴全自动包胶绕线机。
Design the 16-spindle winding machine for big type coils and the 10-spindle winding & taping machine.



2012年

设计出色码电感绕线机和接脚机，两者可衔接配合使用，可在短时间内更换不同品种材料。
Excellent design code inductance winding machine and the pin machine, both of which can be connected with the use of the street, in a short period of time can change different varieties.



2013年

设计出自动上料、绕线、包胶、焊锡、检测、装盘为一体的全自动流水线。以及自动上料、绕线为一体的经济实用型全自动上料绕线机。
Design the automatic production line from feeding, winding, taping, soldering, testing and to palletizer. And the economical automatic winding machine from feeding to winding.



2014年

设计出自动上料、绕线、包胶、焊锡为一体的全自动电子变压器流水线。
Design the automatic production line for transformer from feeding, winding, taping and soldering.





平面磨床
Surface Grinding Machine



线切割车间
Wire Cutting Workshop

PRODUCTION EQUIPMENT 生产设备



加工中心
CNC Machine



内外圆磨床
Internal & External Grinding Machine



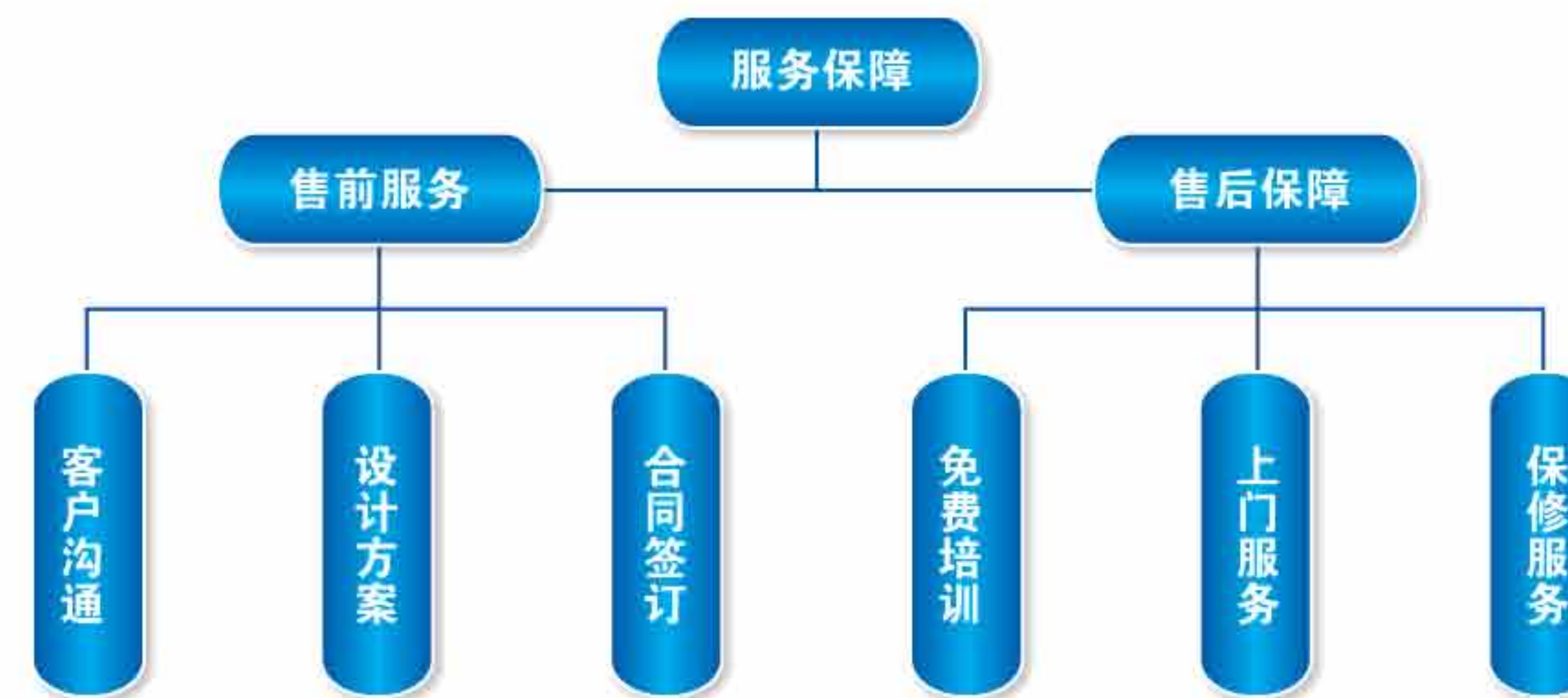
铣床加工
Milling Machine



钣金车间
CNC Bending Machine & CNC Shearing Machine

技术支持 Technology

服务保障/Perfect Service System:



- 1、售前免费根据客户要求制定合理的设计方案，直至实现客户的生产期望值。
Before sale, professional engineer will provide you with a design plan according to your actual requirements and performance data.
- 2、委派专业技术人员为客户免费提供绕线机设备基础知识、实操、保养、排障培训，也可由客户委派技术人员或作业员到我司包吃住免费培训。
We will supplier the machine training for free, the training contain basic knowledge, operation, maintenance and so on. Or the customer work / engineer come to our factory for free training, We also arrange accommodations for free.
- 3、上门为客户进行新机安装和调试，经常上门或去电回访，为客户进行答疑和指导工作。
We will send technical person to install and test the new machine. Visiting and calling the customer regularly to offer the service for answering questions and guidance.
- 4、机器设备在客户合理使用的情况下保修一年，维修工作上门进行，维修响应时间不超过 24 小时。
Machine is guaranteed for one year under reasonable operation. Door to door maintenance service and response time is less than 24 hours.

通过质量体系认证/Quality system certification

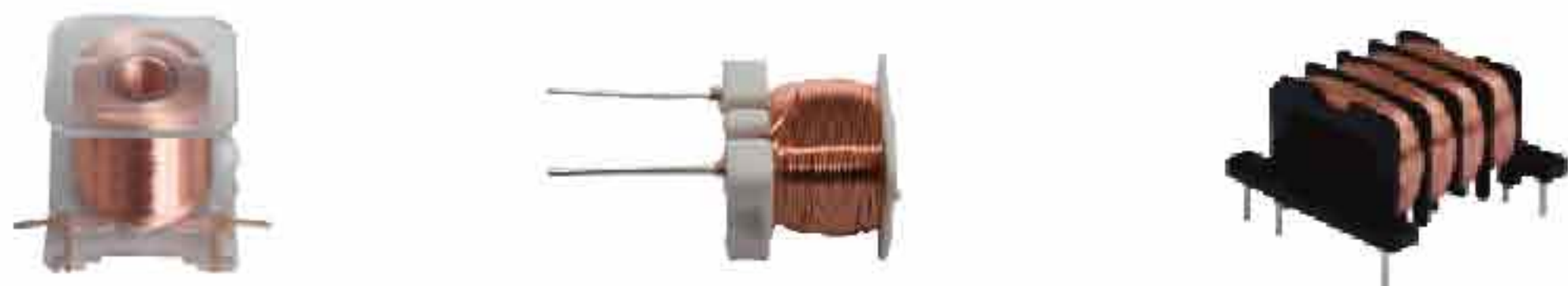


产品介绍 Product Introduce

ER37A系列全自动绕线机 ER37A Series Coil Winding Machine



ER3712A (12轴绕线机)



适用线圈类型：液晶显示器背光源高低压线圈、电感线圈、点火高低压线圈、继电器线圈、充电器线圈、开关电源变压器、负离子高压包、仪器仪表线圈等。

Range of usage: high/ low voltage coil of LCD backlight, inductance coil, high /low voltage ignition coil, relay coil, charging device coil, switch power transformers, anion high voltage coil, instrumentation coil, etc...

产品概述/Product Overview

本系列包括ER3710A(10轴), ER3712A(12轴), ER3716A(16轴)三个机型, 主轴间距37mm, 一般适用线径0.02mm-0.5mm,且可通过增大电机功率来适用更大线径.本系列机型可与其他绕线机, 上料机以及焊锡机组成全自动生产流水线。

This series contains ER3710A(10 spindles), ER3712A(12 spindles) and ER3716A(16 spindles), the spindle pitch is 37mm, and applicable for 0.02-0.5mm wire diameter usually. If the wire diameter is exceed 0.5mm, just only increase the motor power to solve. This series machines with other winding machine, feeding machine and soldering machine composed the automatic production line.

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件, 底座采用钢板无缝焊接, 承重大, 减噪减振, 增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等, 其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承, 和各轴均采用日本松下交流伺服电机, 具有高转速, 定位精准, 低噪音, 使用寿命长的特点。
- 4、可实现垂直和水平两个方向的端子缠线, 线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换: 只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式:触摸屏编程, 提供人机交互视教系统, 实现所见即所得的编程效果。
- 7、骨架到位检测装置可检测到没被装到位的骨架, 并及时报警停机, 以确保导针不被打断。

- 1.The material of machine is made of high quality resin sand senior castings, The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability.
- 2.The key parts of this series take imported leadscrew, guide way, Japan's SMC cylinder, Samsung belt, Japan's Keyence optical fiber sensor and so on, other key parts are imported.
- 3.Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely, low noise and long service life.
- 4.Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
- 5.Easy to change the jigs and programming which has been already saved in machine when you want to change the coil
- 6.Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
- 7.Bobbin position checking sensor: check if bobbin is in the right position. If not, The machine timely alarms and shuts down, which can effectively avoid the breakage of the guiding needle.

可选装置/Optional Accessories

绞线机, 张力器, 剪线装置, 骨架检测到位置装置, 包胶装置, 接料盒等其他装置, 详情见可选装置页。

Based on the requirements of products, the following accessories can be selected for assembly: twist device, tensioner, cutting device, bobbin position checking device and so on, the details please read the page of optional accessories.

参数规格/Specifications

产品型号	Model no.	ER3710A	ER3712A	ER3716A
主轴数	Spindle number	10轴	12轴	16轴
主轴间距	Spindle pitch	37mm		
主轴方向	Main Spindle Direction	顺时针/逆时针.360°/圈 Clockwise /counterclockwise .360°/ Turn		
主轴转速	Spindle speed	15000rpm	15000rpm	18000 rpm
三维行程	Three dimensional travel	X:85 Y:85 Z:55		
主轴伺服马达功率	Spindle servo motor power	750 W	1500 W	1500 W
适用线径	Wire range	0.02mm-0.5mm (>0.5mm,只需增大电机功率可适用) (Increase the motor power can be applied to wider wire size)		
电源电压	Power voltage	AC220V±10%		
功率	Power	2000W	3000W	3000W
最大骨架外径	Bobbin outer diameter	30mm (Max.)		
快速夹具接口内径	Spindle diameter	10mm		
导针杆移动伺服马达功率	Traverse motor power	400(X) 400(Y) 400(Z)		
导针杆移动速度	Traverse speed	80mm/秒	80mm/秒	60mm/秒
压缩空气压力	Air pressure	0.4-0.6mp		
主机尺寸	Machine size	1100mm*800mm*1200mm	1100mm*800mm*1200mm	1000mm*1060mm*1200mm
主机重量	Machine weight	500kg	500kg	800kg

产品介绍 Product Introduce

ER50A系列全自动绕线机 ER50A Series Coil Winding Machine



ER5016A (16轴绕线机)



适用线圈类型：液晶显示器背光源高低压线圈、点火高低压线圈、开关电源变压器、低频变压器、负离子高压包、汽车点火线圈、罩极马达线圈、仪器仪表线圈等。

Range of usage: high/ low voltage coil of LCD backlight, high/ low voltage ignition coil, switch power transformers, low frequency transformer, anion high voltage coil, car ignition coil, shaded-pole motor coil, instrumentation coil, etc...

产品概述/Product Overview

本系列包括ER5008A(8轴), ER5012A(12轴)和ER5016(16轴)三个机型, 主轴间距50mm, 一般适用线径0.02mm-0.5mm,且可通过增大电机功率来适用更大线径.本系列机型可与其他绕线机, 上料机以及焊锡机组成全自动生产流水线。

This series contains ER5008A (8 spindles) and ER5012A (12 spindles) and ER5016(16spindles), the spindle pitch is 50mm, and applicable for 0.02-0.5mm wire diameter usually.If the wire diameter is exceed 0.5mm, just only increase the motor power to solve. This series machines with other winding machine, feeding machine and soldering machine composed the automatic production line.

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件, 底座采用钢板无缝焊接, 承重大, 减噪减振, 增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等, 其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承, 和各维均采用日本松下交流伺服电机, 具有高转速, 定位精准, 低噪音, 使用寿命长的特点。
- 4、可实现垂直和水平两个方向的端子缠线, 线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换: 只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式:触摸屏编程, 提供人机交互视教系统, 实现所见即所得的编程效果。
- 7、骨架到位检测装置可检测到没被装到位的骨架, 并及时报警停机, 以确保导针不被打断。

- 1.The material of machine is made of high quality resin sand senior castings, The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability .
- 2.The key parts of this series take imported leadscrew , guide way, Japan' s SMC cylinder , Samsung belt, Japan' s Keyence optical fiber sensor and so on, other key parts are imported.
- 3.Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely,low noise and long service life.
- 4.Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
- 5.Easy to change the jigs and programming which has been already saved in machine when you want to change the coil
- 6.Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
- 7.Bobbin position checking sensor: check if bobbin is in the right position. If not, The machine timely alarms and shuts down, which can effectively avoid the breakage of the guiding needle.

可选装置/Optional Accessories

绞线机, 张力器, 剪线装置, 骨架检测到位装置, 包胶装置, 接料盒等其他装置, 详情见可选装置页。

Based on the requirements of products, the following accessories can be selected for assembly: twist device, tensioner, cutting device, bobbin position checking device and so on, the details please read the page of optional accessories.

参数规格/Specifications

产品型号	Model no.	ER5008A	ER5012A	ER5016A
主轴数	Spindle number	8轴	12轴	16轴
主轴间距	Spindle pitch	50mm		
主轴方向	Main Spindle Direction	顺时针/逆时针.360°/圈 Clockwise /counterclockwise .360°/ Turn		
主轴转速	Spindle speed	1500rpm	1500rpm	1500rpm
三维行程	Three dimensional travel	X:85 Y:85 Z:55		
主轴伺服马达功率	Spindle servo motor power	1500 W	1500 W	3000W
适用线径	Wire range	0.02mm-0.5mm (>0.5mm,只需增大电机功率可适用) (Increase the motor power can be applied to wider wire size)		
电源电压	Power voltage	AC220V±10%		
功率	Power	3000W	3000W	4500W
最大骨架外径	Bobbin outer diameter	42mm (Max.)	42mm (Max.)	45mm (Max.)
快速夹具接口内径	Spindle diameter	10mm/12mm	10mm /12mm	12mm
导针杆移动伺服马达功率	Traverse motor power	400(X) 400(Y) 400(Z)		
导针杆移动速度	Traverse speed	70mm/秒	50mm/秒	50mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa		
主机尺寸	Machine size	1100mm*800mm*1200mm	1100mm*800mm*1200mm	1200mm*1200mm*1100mm
主机重量	Machine weight	500kg	800kg	1200kg

产品介绍 Product Introduce

ER8508A 8轴绕线机 ER8508A Series Coil Winding Machine



ER8508A (8轴绕线机)



适用线圈类型：点火高低压线圈、EE 变压器线圈、低频变压器、汽车点火线圈。
Range of usage: high /low voltage ignition coil、EE transformer coil、low frequency transformer、car ignition coil.

产品概述/Product Overview

ER8508A为8轴全自动绕线机，主轴间距85mm，一般适用线径0.02mm-0.5mm,且可通过增大电机功率来适用更大线径.本系列机型可与其他绕线机，上料机以及焊锡机组成全自动生产流水线。

The ER8508A is 8 spindles full automatic winding machine, the spindle pitch is 85mm, and applicable for 0.02-0.5mm wire diameter usually. If the wire diameter is exceed 0.5mm, just only increase the motor power to solve. This series machines with other winding machine, feeding machine and soldering machine composed the automatic production line.

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件，底座采用钢板无缝焊接，承重大，减噪减振，增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等，其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承，和各轴均采用日本松下交流伺服电机，具有高转速，定位精准，低噪音，使用寿命长等特点。
- 4、可实现垂直和水平两个方向的端子缠线，线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换：只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式:触摸屏编程，提供人机交互视教系统，实现所见即所得的编程效果。
- 7、骨架到位检测装置可检测到没被装到位的骨架，并及时报警停机，以确保导针不被打断。
- 8、导针杆采用进口模具钢加工制成，垂直度<0.01mm、平行度<0.01mm/全长。

1. The material of machine is made of high quality resin sand senior castings, The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability .
2. The key parts of this series take imported leadscrew , guide way, Japan' s SMC cylinder 、 Samsung belt, Japan' s Keyence optical fiber sensor and so on, other key parts are imported.
3. Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely. low noise and long service life.
4. Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
5. Easy to change the jigs and programming which has been already saved in machine when you want to change the coil
6. Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
7. Bobbin position checking sensor: check if bobbin is in the right position. If not, The machine timely alarms and shuts down, which can effectively avoid the breakage of the guiding needle.
8. Traverse bar is made of imported die steel, Verticality< 0.01mm, parallelism< 0.01mm/full-length.

可选装置/Optional Accessories

绞线机，张力器，剪线装置，骨架检测到位装置，接料盒等其他装置，详情见可选装置页。

Based on the requirements of products, the following accessories can be selected for assembly: twist device, tensioner, cutting device, bobbin position checking device and so on, the details please read the page of optional accessories.

参数规格/Specifications

主轴数	Spindle number	85mm
主轴间距	Spindle pitch	8
主轴方向	Main Spindle Direction	顺时针/逆时针.360°/圈 Clockwise /counterclockwise .360°/ Turn
控制轴数	Control spindle	4
主轴转速	Spindle speed	15000rpm
三维行程	Three dimensional travel	X:85 Y:85 Z:55
主轴伺服马达功率	Spindle servo motor power	1500W
适用线径	Wire range	0.02mm-0.5mm (>0.5mm,只需增大电机功率可适用) (Increase the motor power can be applied to wider wire size)
电源电压	Power voltage	AC220V±10%
功率	Power	3000W
最大骨架外径	Bobbin outer diameter	77mm(Max.)
快速夹具接口内径	Spindle diameter	10mm
导针杆移动伺服马达功率	Traverse motor power	400(X) 400(Y) 400(Z)
导针杆移动速度	Traverse speed	50mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa
主机尺寸	Machine size	1200mm*1000mm*1300mm
主机重量	Machine weight	800kg

产品介绍 Product presentation

ERFC3712A 钟表线圈飞叉绕线机 (特殊机型)

ERFC3712A Flier Winding Machine For Horologe Coil (Special machine)



线圈样图

产品概述/Product Overview

本款12轴飞叉绕线机为特殊机型, 主轴间距37mm, 适用于钟表线圈行业, 具有工件小, 精度高的特点, 是人工绕线的几十倍, 突破钟表线圈行业人工绕线的空缺。

This 12-spindle flier winding machine is special, the spindle pitch is 37mm and use for horologe coil. with small workpiece and high precision, it save more time than manual working and break the vacancy of manual winding coil in Horologe coil industry.

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件, 底座采用钢板无缝焊接, 承重大, 减噪减振, 增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等, 其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承, 和各维均采用日本松下交流伺服电机, 具有高转速, 定位精准, 低噪音, 使用寿命长的特点。
- 4、可实现水平方向的端子缠线, 具有自动涂胶、自动绕线、自动剪断功能。

- 1.The material of machine is made of high quality resin sand senior castings, The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability.
- 2.The key parts of this series take imported leadscrew, guide way, Japan's SMC cylinder, Samsung belt, Japan's Keyence optical fiber sensor and so on, other key parts are imported.
- 3.Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely, low noise and long service life.
- 4.Terminal tangled thread, direction: horizontal; the functions of automatic taping, automatic winding, and automatic cutting.

参数规格/Specifications

主轴数	Spindle number	12
主轴间距	Spindle pitch	37mm
主轴方向	Main Spindle Direction	顺时针/逆时针.360°/圈 Clockwise /counterclockwise .360°/ Turn
控制轴数	Control spindle	2
主轴转速	Spindle speed	15000rpm
绕线行程	Winding travel	Y:55
主轴伺服马达功率	Spindle servo motor power	1500W
适用线径	Wire range	0.02mm-0.5mm (>0.5mm,只需增大电机功率可适用) (Increase the motor power can be applied to wider wire size)
电源电压	Power voltage	AC220V±10%
功率	Power	2000W
最大骨架外径	Bobbin outer diameter	37mm(Max.)
导针杆移动伺服马达功率	Traverse motor power	400(X) 400(Y) 400(Z)
导针杆移动速度	Traverse speed	50mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa
主机尺寸	Machine size	950mm*800mm*1100mm
主机重量	Machine weight	300kg

产品介绍 Product Introduce

ER10006点火线圈专用绕线机 (特殊机型)

ER1006 Special Winding Machine for Ignition Coil



线圈样图

产品概述/Product Overview

本款6轴全自动点火线圈绕线机为特殊机型，主轴间距100mm,专用于高压包点火线圈。

This 6-spindle winding machine for Ignition coil is special, the spindle pitch is 100mm and use for high voltage ignition coil.

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件，底座采用钢板无缝焊接，承重大，减噪减振，增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等，其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承，和各轴均采用日本松下交流伺服电机，具有高转速，定位精准，低噪音，使用寿命长等特点。
- 4、可实现垂直和水平两个方向的端子缠线，线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换：只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式:触摸屏编程，提供人机交互视教系统，实现所见即所得的编程效果。
- 7、骨架到位检测装置可检测到没被装到位的骨架，并及时报警停机，以确保导针不被打断。
- 8、导针杆采用进口模具钢加工制成，垂直度<0.01mm、平行度<0.01mm/全长。
- 9、该设备具有自动去漆除尘功能，能选配被动顶杆、自动剪刀等装置。

1. The material of machine is made of high quality resin sand senior castings, The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability .
2. The key parts of this series take imported leadscrew, guide way, Japan' s SMC cylinder 、 Samsung belt, Japan' s Keyence optical fiber sensor and so on, other key parts are imported.
3. Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely. low noise and long service life.
4. Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
- 5, Easy to change the jigs and programming which has been already saved in machine when you want to change the coil
- 6, Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
7. Bobbin position checking sensor: check if bobbin is in the right position. If not, The machine timely alarms and shuts down, which can effectively avoid the breakage of the guiding needle.
8. Traverse bar is made of imported die steel, Verticality < 0.01mm, parallelism < 0.01mm/full-length.
9. have automatic dedusting and depainting function, can be choose a passive mandril device , automatic cutting device etc...

参数规格/Specifications

主轴数	Spindle number	6
主轴间距	Spindle pitch	100mm
主轴方向	Main Spindle Direction	顺时针/逆时针.每圈/360° Clockwise or counterclockwise each cycle for 360°
控制轴数	Control spindle	4
主轴转速	Spindle speed	15000rpm
三维行程	Three dimensional travel	X:85 Y:85 Z:55
主轴伺服马达功率	Spindle servo motor power	1500W
适用线径	Wire range	0.02-0.6 (增大电机功率可适用更大线径) (Increase the motor power can be applied to wider wire size)
电源电压	Power voltage	AC220V±10%
功率	Power	2000W
最大骨架外径	Bobbin outer diameter	80mm(Max.)
快速夹具接口内径	Spindle diameter	10mm
导针杆移动伺服马达功率	Traverse motor power	400(X) 400(Y) 400(Z)
导针杆移动速度	Traverse speed	50mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa
主机尺寸	Machine size	1100mm*1000mm*1550mm
主机重量	Machine weight	1000kg

产品介绍 Product Introduce

EZ37系列经济绕线机

EZ37 Series Economic Winding Machine



EZ3712 (经济绕线机)



适用线圈类型：工字型电感、E型电感、EE变压器线圈等小型线圈。

Range of usage: I type inductance、E type inductor、EE transformer ,etc...

产品概述/Product Overview

本系列包括EZ3710(10轴), ER3712 (12轴)两个机型, 主轴间距37mm, 一般适用线径0.02mm-0.35mm, 且可通过增大电机功率来适用更大线径. 本系列机型可与上料机、焊锡机、包胶机组成全自动生产流水线。

This series contains EZ3710 (10 spindles) and EZ3712 (12 spindles), the spindle pitch is 37mm, and applicable for 0.02-0.35mm wire diameter usually. If the wire diameter is exceed 0.35mm, just only increase the motor power to solve. This series machines with feeding machine, soldering machine, taping machine composed the automatic production line.

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件, 底座采用钢板无缝焊接, 承重大, 减噪减振, 增加机器的稳定性。
- 2、采用进口丝杆、导轨, 日本SMC气缸、三星皮带、日本基恩士光纤传感器等, 其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承, 和各轴均采用日本松下交流伺服电机, 具有高转速, 定位精准, 低噪音, 使用寿命长的特点。
- 4、可实现垂直和水平两个方向的端子缠线, 线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换: 只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式: 触摸屏编程, 提供人机交互视教系统, 实现所见即所得的编程效果。
- 7、导针杆采用进口模具钢加工制成, 垂直度<0.01mm、平行度<0.01mm/全长。

1. The material of machine is made of high quality resin sand senior castings. The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability .
2. The key parts of this series take imported leadscrew, guide way, Japan' s SMC cylinder、Samsung belt, Japan' s Keyence optical fiber sensor and so on, other key parts are imported.
3. Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely, low noise and long service life.
4. Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
5. Easy to change the jigs and programming which has been already saved in machine when you want to change the coil
6. Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
7. Traverse bar is made of imported die steel, Verticality < 0.01mm, parallelism < 0.01mm/full-length.

可选装置/Optional Accessories

工装快速接头、绞线机、张力器、剪刀装置、压线装置等, 详情请见可选装置页。

Based on the requirements of products, the following accessories can be selected for assembly: rapid jigs, twist device, tensioner, cutting device, wire pressing device and so on, the details please read the page of optional accessories.

参数规格/Specifications

产品型号	Model no.	EZ3710	EZ3712
主轴数	Spindle number	10	12
主轴间距	Spindle pitch	37mm	
主轴方向	Main Spindle Direction	顺时针/逆时针.360°/圈 Clockwise /counterclockwise .360°/ Turn	
控制轴数	Control spindle	4	
主轴转速	Spindle speed	15000rpm	
三维行程	Three dimensional travel	X:85 Y:85 Z:45	
主轴伺服马达功率	Spindle servo motor power	750W	
适用线径	Wire range	0.02-0.35 (增大电机功率可适用更大线径) (Increase the motor power can be applied to wider wire size)	
电源电压	Power voltage	AC220V±10%	
功率	Power	1500W	
最大骨架外径	Bobbin outer diameter (Max.)	30mm	
快速夹具接口内径	Spindle diameter	10mm	
导针杆移动伺服马达功率	Traverse motor power	200(X) 200(Y) 200(Z)	
导针杆移动速度	Traverse speed	80mm/秒	
压缩空气压力	Air pressure	0.4-0.6mpa	
主机尺寸	Machine size	1000mm*600mm*1100mm	
主机重量	Machine weight	350kg	

产品介绍 Product Introduce

EZ5008A桌面型绕线机

EZ5008A Semi-automatic Taping&Winding Machine



产品概述/Product Overview

EZ5008A 为经济型自动绕线机，主轴间距50mm，采用人工上料，自动绕线，操作简单。可选配自动上下料，包胶机等装置。

EZ5008A is 8-spindle automatic taping& winding machine , it take manual loading bobbin and winding , it is easy to operation. can be selected for assembly: automatic loading & unloading bobbin,taping device etc..

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件，底座采用钢板无缝焊接，承重大，减噪减振，增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等，其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承，和各维均采用日本松下交流伺服电机，具有高转速，定位精准，低噪音，使用寿命长等特点。
- 4、可实现垂直和水平两个方向的端子缠线，线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换：只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式:触摸屏编程，提供人机交互视教系统，实现所见即所得的编程效果。
- 7、导针杆采用进口模具钢加工制成，垂直度<0.01mm，平行度<0.01mm/全长。

- 1.The material of machine is made of high quality resin sand senior castings. The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability .
- 2.The key parts of this series take imported leadscrew, guide way, Japan's SMC cylinder 、 Samsung belt, Japan's Keyence optical fiber sensor and so on, other key parts are imported.
- 3.Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely.low noise and long service life.
- 4.Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
- 5.Easy to change the jigs and programming which has been already saved in machine when you want to change the coil.
- 6.Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
- 7.Traverse bar is made of imported die steel, Verticality< 0.01mm, parallelism<0.01mm/full-length.

参数规格/Specifications

主轴间距	Spindle pitch	50mm
主轴数	Spindle number	单台机8轴 8 spindles for one machine
主轴方向	Main Spindle Direction	顺时针/逆时针 每圈/360° Clockwise or counterclockwise, each cycle for 360°
主轴转速	Spindle speed	1500rpm
三维行程	Three dimensional travel	X:85 Y:85 Z:55
主轴伺服马达功率	Spindle servo motor power	750W
适用线径	Wire range	0.02-0.35(>0.35mm,增大电机功率即可) (Increase the motor power can be applied to wider wire size)
控制轴数	Controllable axes	4
电源电压	Power voltage	AC220V±10%
功率	Power	1500W
最大骨架外径	Bobbin outer diameter	50mm (Max.)
快速夹具接口内径	Spindle diameter	10mm
导针杆移动伺服马达功率	Traverse motor power	200(X) 200(Y) 200(Z)
导针杆移动速度	Traverse speed	80mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa
主机尺寸	Machine size	800mm*1000mm*1100mm
生产线重量	Production line weight	400kg

产品介绍 Product Introduce

EZ37系列双向自动上料绕线机

EZ37 Series Full Automatic Winding Machine With Bidirectional loading



EZ3712 (双向自动上料绕线机)



适用线圈类型：工字型电感、液晶显示器背光源高低压线圈、电感线圈、点火高低压线圈、继电器线圈、充电器线圈、EE变压器线圈、开关电源变压器、高低频变压器、负离子高压包、汽车点火线圈、罩极马达线圈、仪器仪表线圈等小型线圈。

Range of usage: I type inductance、high/low voltage coil of LCD backlight, inductance coil、high/low voltage ignition coil、relay coil、charging device coil、EE transformer coil、switch power transformers、high/low frequency transformer、anion high voltage coil、instrumentation coil ,etc...

产品概述/Product Overview

本款12轴全自动双向上料机为特殊机型，主轴间距37mm，用于机器双向上料。

This special full automatic winding machine consist of two feeding machines and one EZ3712 12-spindle full automatic winding machines. the spindle pitch is 37mm ,Its special of bidirectional feeding .

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件，底座采用钢板无缝焊接，承重大，减噪减振，增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等，其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承，和各维均采用日本松下交流伺服电机，具有高转速，定位精准，低噪音，使用寿命长等特点。
- 4、可实现垂直和水平两个方向的端子缠线，线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换：只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式:触摸屏编程，提供人机交互视教系统，实现所见即所得的编程效果。
- 7、导针杆采用进口模具钢加工制成，垂直度<0.01mm、平行度<0.01mm/全长。

- 1.The material of machine is made of high quality resin sand senior castings, The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability .
- 2.The key parts of this series take imported leadscrew, guide way, Japan's SMC cylinder、Samsung belt, Japan's Keyence optical fiber sensor and so on, other key parts are imported.
- 3.Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely.low noise and long service life.
- 4.Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
- 5.Easy to change the jigs and programming which has been already saved in machine when you want to change the coil.
- 6.Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
- 7.Traverse bar is made of imported die steel, Verticality< 0.01mm, parallelism<0.01mm/full-length.

参数规格/Specifications

主轴数	Spindle number	12
主轴间距	Spindle pitch	37mm
主轴方向	Main Spindle Direction	顺时针/逆时针.360°/圈 Clockwise /counterclockwise .360°/ Turn
控制轴数	Control spindle	4
主轴转速	Spindle speed	15000rpm
三维行程	Three dimensional travel	X:85 Y:85 Z:45
主轴伺服马达功率	Spindle servo motor power	750W
适用线径	Wire range	0.02-0.35 (增大电机功率可适用更大线径) (Increase the motor power can be applied to wider wire size)
电源电压	Power voltage	AC220V±10%
功率	Power	2500W
最大骨架外径	Bobbin outer diameter	30mm(Max.)
快速夹具接口内径	Spindle diameter	10mm
导针杆移动伺服马达功率	Traverse motor power	200(X) 200(Y) 200(Z)
导针杆移动速度	Traverse speed	80mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa
主机尺寸	Machine size	1000mm*600mm*1100mm
主机重量	Machine weight	700kg

产品介绍 Product Introduce

EZ37系列全自动上料绕线一体机

EZ37 Series Full Automatic Feeding&Winding Machine



产品概述/Product Overview

本系列由上料机、EZ3712 全自动12轴绕线机组成，具有自动上料排序检测，交换上下料绕线等特点，适合于长期大批量订单的产品。

This series contains of the feeding machine and EZ3712 12-spindle full automatic winding machine. It have many advantage ,such as the detect automatic loading bobbin , loading & uploading bobbin for winding wire and so on.it is applicable for large batch order with high precision and high efficiency.

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件，底座采用钢板无缝焊接，承重大，减噪减振，增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等，其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承，和各维均采用日本松下交流伺服电机，具有高转速，定位精准，低噪音，使用寿命长等特点。
- 4、可实现垂直和水平两个方向的端子缠线，线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换：只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式:触摸屏编程，提供人机交互视教系统，实现所见即所得的编程效果。
- 7、导针杆采用进口模具钢加工制成，垂直度<0.01mm、平行度<0.01mm/全长。

- 1.The material of machine is made of high quality resin sand senior castings, The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability .
- 2.The key parts of this series take imported leadscrew, guide way, Japan's SMC cylinder 、Samsung belt, Japan's Keyence optical fiber sensor and so on, other key parts are imported.
- 3.Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely.low noise and long service life.
- 4.Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
- 5.Easy to change the jigs and programming which has been already saved in machine when you want to change the coil.
- 6.Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
- 7.Traverse bar is made of imported die steel, Verticality< 0.01mm, parallelism<0.01mm/full-length.

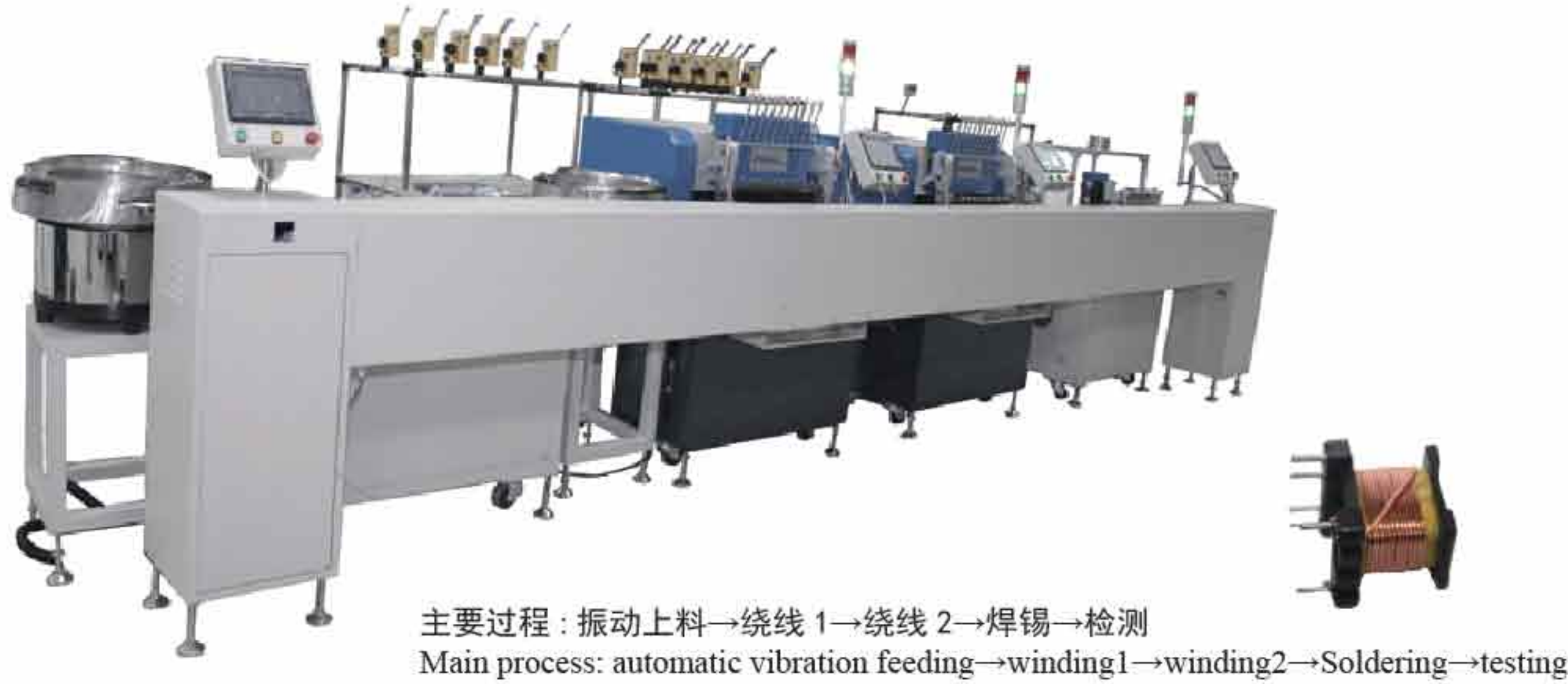
参数规格/Specifications

主轴数	Spindle number	12
主轴间距	Spindle pitch	37mm
主轴方向	Main Spindle Direction	顺时针/逆时针.360°/圈 Clockwise /counterclockwise .360°/ Turn
控制轴数	Control spindle	4
主轴转速	Spindle speed	15000rpm
三维行程	Three dimensional travel	X:85 Y:85 Z:45
主轴伺服马达功率	Spindle servo motor power	750W
适用线径	Wire range	0.02-0.35 (增大电机功率可适用更大线径) (Increase the motor power can be applied to wider wire size)
电源电压	Power voltage	AC220V±10%
功率	Power	2500W
最大骨架外径	Bobbin outer diameter	30mm(Max.)
快速夹具接口内径	Spindle diameter	10mm
导针杆移动伺服马达功率	Traverse motor power	200(X) 200(Y) 200(Z)
导针杆移动速度	Traverse speed	80mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa
主机尺寸	Machine size	1000mm*600mm*1100mm
主机重量	Machine weight	550kg

产品介绍 Product Introduce

客户订制ER系列全自动流水线展示

ER37 Series Full Automatic Production Line For Pulse Transformer



主要过程：振动上料→绕线 1→绕线 2→焊锡→检测
Main process: automatic vibration feeding→winding1→winding2→Soldering→testing

ER3710全自动脉冲变压器流水线
ER3710 Full Automatic Production Line For Pulse Transformer

主要过程：振动上料→绕线→焊锡→装配→检测→装盘。
Main process: automatic vibration feeding→winding→soldering→assemble→testing→discharge.

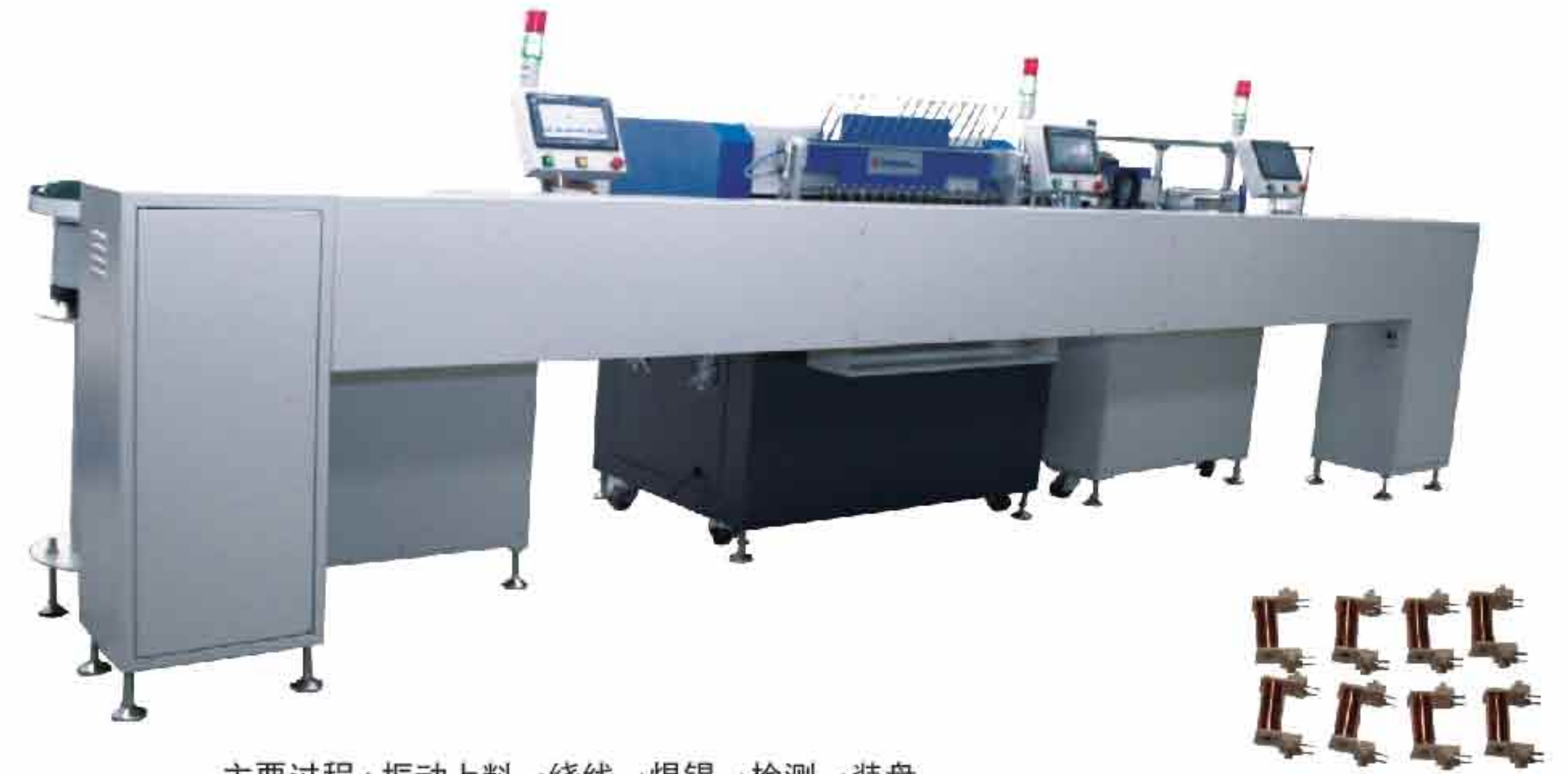


ER3712全自动电感流水线
ER3712 Full Automatic Production Line For Inductor



振动上料→绕线→包胶→焊锡
Main process: automatic vibration feeding →winding →taping→soldering

ER5012全自动滤波器流水线
ER5012 Full Automatic Production Line For Wave Filter



主要过程：振动上料→绕线→焊锡→检测→装盘
Main process: automatic vibration feeding→winding→soldering→testing→discharge

ER3716全自动电感流水线
ER3716 Full Automatic Production Line For Inductor

产品介绍 Product Introduce

客户订制ER系列全自动流水线展示

ER37 Series Full Automatic Production Line For Pulse Transformer



主要过程：振动上料→绕线包胶 1→绕线包胶 2→焊锡→下料。
Main process: automatic vibration feeding→winding & taping1→winding & taping2→soldering→discharge.

ER3712全自动EE电子变压器流水线
ER3712 Full Automatic Production Line For EE Type Transformer



主要过程：振动上料→绕线 1→包胶 1→绕线 2→包胶 2→焊锡→检测。
Main process: automatic vibration feeding→winding 1→taping 1→winding 2→taping 2→soldering→testing.

ER3712全自动EE电子变压器流水线
ER3712 Full Automatic Production Line For EE Type Transformer



主要过程：振动上料→绕线→焊锡→检测→装盘。
Main process: automatic vibration feeding→winding→soldering→testing→discharge.

ER3016全自动继电器线圈流水线
ER3016 Full Automatic Production Line For Relay Coil



主要过程：自动插针→振动上料→绕线→包胶→焊锡→冷却循环测试→下料。
Main process: automatic stacking→automatic vibration feeding→winding→taping→soldering→testing→discharge.

ER7406全自动流水线
ER7406 Full Automatic Production Line

产品介绍 Product Introduce

ER3712全自动EE电子变压器流水线

ER3712 Full Automatic Production Line For EE Type Transformer



主要过程：振动上料→绕线包胶 1→绕线包胶 2→焊锡→下料。

Main process: automatic vibration feeding→winding & taping 1→winding & taping 2→soldering→discharge.

产品概述/Product Overview

本款全自动流水线由一台上料机、两台ER3712全自动12轴绕线包胶机和一台自动焊锡机组成，具有自动上料排序检测，交换上下料绕线等特点，适合于长期大批量订单的产品。

This production line consist of the feeding machine ,two ER3712 12-spindle full automatic winding machines, two taping machines and automatic soldering machine . It have many advantage ,such as the detect automatic loading bobbin , loading & unloading bobbin for winding wire and so on. It is applicable for large batch order with high precision and high efficiency.

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件，底座采用钢板无缝焊接，承重大，减噪减振，增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等，其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承，和各轴均采用日本松下交流伺服电机，具有高转速，定位精准，低噪音，使用寿命长的特点。
- 4、可实现垂直和水平两个方向的端子缠线，线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换：只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式:触摸屏编程，提供人机交互视教系统，实现所见即所得的编程效果。
- 7、骨架到位检测装置可检测到没被装到位的骨架，并及时报警停机，以确保导针不被打断。
- 8、导针杆采用进口模具钢加工制成，垂直度<0.01mm、平行度<0.01mm/全长。

- 1.The material of machine is made of high quality resin sand senior castings, The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability .
- 2.The key parts of this series take imported leadscrew, guide way, Japan's SMC cylinder 、 Samsung belt, Japan's Keyence optical fiber sensor and so on, other key parts are imported.
- 3.Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely.low noise and long service life.
- 4.Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
- 5.Easy to change the jigs and programming which has been already saved in machine when you want to change the coil.
- 6.Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
- 7.Bobbin position checking sensor: check if bobbin is in the right position. If not, The machine timely alarms and shuts down, which can effectively avoid the breakage of the guiding needle.
- 8.Traverse bar is made of imported die steel, Verticality< 0.01mm, parallelism< 0.01mm/full-length.

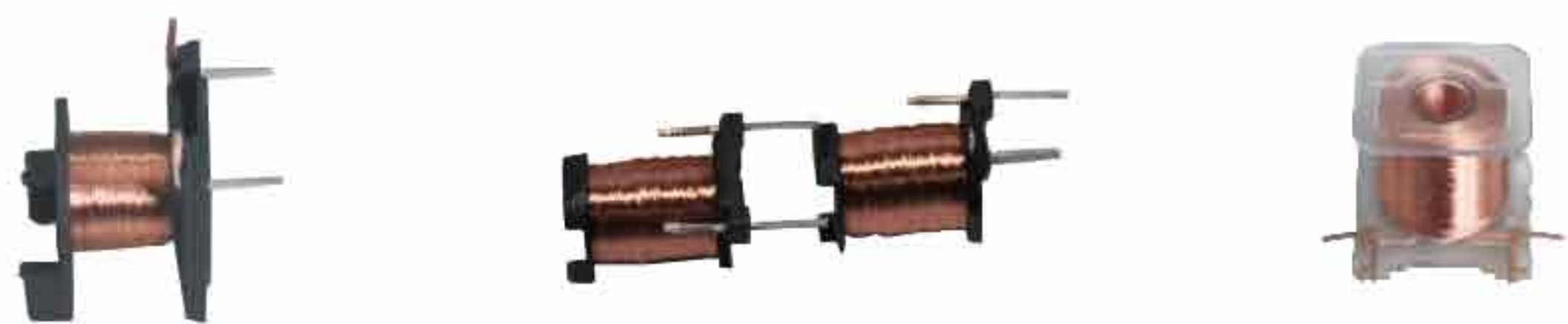
参数规格/Specifications

自动上料	Automatic feeding	350mm振动盘自动排序 350mm vibration pallet and automatic sorting
传送方式	Conveyer way	皮带传送轨道 Belt conveyer
主轴间距	Spindle pitch	37mm
主轴数	Spindle number	单台机12轴 12 spindles for one machine
主轴方向	Main Spindle Direction	顺时针/逆时针.每圈/360° Clockwise or counterclockwise each cycle for 360°
主轴转速	Spindle speed	15000rpm
三维行程	Three dimensional travel	X:85 Y:85 Z:55
主轴伺服马达功率	Spindle servo motor power	1500W
适用线径	Wire range	0.02-0.5(>0.5mm,增大电机功率即可) (Increase the motor power can be applied to wider wire size)
自动焊锡机	Automatic soldering	EH1812
电源电压	Power voltage	AC220V±10%
功率	Power	4500W
最大骨架外径	Bobbin outer diameter	30mm (Max.)
快速夹具接口内径	Spindle diameter	10mm
导针杆移动伺服马达功率	Traverse motor power	400(X) 400(Y) 400(Z)
导针杆移动速度	Traverse speed	80mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa
主机尺寸	Machine size	1100mm*800mm*1200mm
生产线重量	Production line weight	2500kg

产品介绍 Product Introduce

ER3016全自动继电器线圈流水线

ER3016 Full Automatic Production Line For Relay Coil



主要过程：振动上料→绕线→焊锡→整形→检测→装盘。

Main process: automatic vibration feeding→winding→soldering→reshaping→testing
→discharge.

产品概述/Product Overview

本款全自动流水线由一台上料机、一台ER3016全自动16轴绕线机和一台自动焊锡机组成，具有自动上料排序检测，交换上下料绕线等特点，适合于长期大批量订单的产品。

This production line consist of the feeding machine , one ER3016 16-spindle full automatic winding machines, and automatic soldering machine. It have many advantage ,such as the detect automatic loading bobbin , loading & uploading bobbin for winding wire and so on. It is applicable for large batch order with high precision and high efficiency.

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件，底座采用钢板无缝焊接，承重大，减噪减振，增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等，其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承，和各轴均采用日本松下交流伺服电机，具有高转速，定位精准，低噪音，使用寿命长的特点。
- 4、可实现垂直和水平两个方向的端子缠线，线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换：只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式:触摸屏编程，提供人机交互视教系统，实现所见即所得的编程效果。
- 7、骨架到位检测装置可检测到没被装到位的骨架，并及时报警停机，以确保导针不被打断。
- 8、导针杆采用进口模具钢加工制成，垂直度<0.01mm、平行度<0.01mm/全长。

- 1.The material of machine is made of high quality resin sand senior castings, The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability .
- 2.The key parts of this series take imported leadscrew , guide way, Japan's SMC cylinder 、 Samsung belt, Japan's Keyence optical fiber sensor and so on, other key parts are imported.
- 3.Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely.low noise and long service life.
- 4.Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
- 5.Easy to change the jigs and programming which has been already saved in machine when you want to change the coil.
- 6.Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
- 7.Bobbin position checking sensor: check if bobbin is in the right position. If not, The machine timely alarms and shuts down, which can effectively avoid the breakage of the guiding needle.
- 8.Traverse bar is made of imported die steel, Verticality< 0.01mm, parallelism< 0.01mm/full-length.

参数规格/Specifications

自动上料	Automatic feeding	350mm振动盘自动排序 350mm vibration pallet and automatic sorting
传送方式	Conveyer way	皮带传送轨道 Belt conveyer
主轴间距	Spindle pitch	31mm
主轴数	Spindle number	单台机16轴 16 spindles for one machine
主轴方向	Main Spindle Direction	顺时针/逆时针.每圈/360° Clockwise or counterclockwise each cycle for 360°
主轴转速	Spindle speed	15000rpm~18000rpm
三维行程	Three dimensional travel	X:85 Y:85 Z:55
主轴伺服马达功率	Spindle servo motor power	≥4000W
适用线径	Wire range	0.02-0.5(>0.5mm,增大电机功率即可) (Increase the motor power can be applied to wider wire size)
自动焊锡机	Automatic soldering	EH1516
电源电压	Power voltage	AC220V±10%
功率	Power	≥5000W
最大骨架外径	Bobbin outer diameter	31mm (Max.)
快速夹具接口内径	Spindle diameter	10mm
导针杆移动伺服马达功率	Traverse motor power	400(X) 400(Y) 400(Z)
导针杆移动速度	Traverse speed	80mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa
主机尺寸	Machine size	800mm*900mm*1000mm
生产线重量	Production line weight	2000kg

产品介绍 Product Introduce

ER7406全自动流水线

ER7406 Full Automatic Production Line



主要过程：自动插针→振动上料→绕线→包胶→焊锡→冷却循环测试→下料。
Main process: automatic stacking→automatic vibration feeding→winding→taping→soldering→testing→discharge.

产品概述/Product Overview

本款全自动流水线由一台插针机、一台ER7406 全自动6轴绕线机、一台EB7406自动包胶机、一台自动焊锡机和冷却循环测试机组成，具有自动上料排序检测，交换上下料绕线等特点，适合于长期大批量订单的产品

This production line consist of the full automatic Stacking Machine ,one ER7406 6-spindle full automatic winding machines, one EB7406 automatic taping machines, automatic soldering machine and one cooling cycle test machine . It have many advantage ,such as the detect automatic loading bobbin , loading & uploading bobbin for winding wire and so on. It is applicable for

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件，底座采用钢板无缝焊接，承重大，减噪减振，增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等，其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承，和各轴均采用日本松下交流伺服电机，具有高转速，定位精准，低噪音，使用寿命长的特点。
- 4、可实现垂直和水平两个方向的端子绕线，线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换：只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式:触摸屏编程，提供人机交互视教系统，实现所见即所得的编程效果。
- 7、骨架到位检测装置可检测到没被装到位的骨架，并及时报警停机，以确保导针不被打断。
- 8、导针杆采用进口模具钢加工制成，垂直度<0.01mm、平行度<0.01mm/全长。

- 1.The material of machine is made of high quality resin sand senior castings, The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability .
- 2.The key parts of this series take imported leadscrew, guide way, Japan's SMC cylinder 、 Samsung belt, Japan's Keyence optical fiber sensor and so on, other key parts are imported.
- 3.Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely.low noise and long service life.
- 4.Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
- 5.Easy to change the jigs and programming which has been already saved in machine when you want to change the coil.
- 6.Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
- 7.Bobbin position checking sensor: check if bobbin is in the right position. If not, The machine timely alarms and shuts down, which can effectively avoid the breakage of the guiding needle.
- 8.Traverse bar is made of imported die steel, Verticality< 0.01mm, parallelism< 0.01mm/full-length.

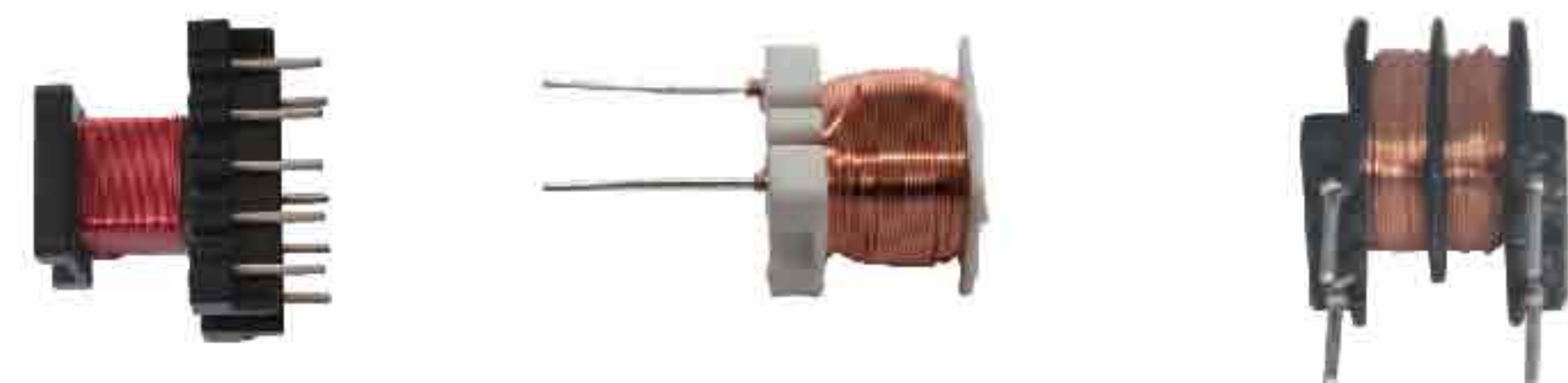
参数规格/Specifications

自动上料	Automatic feeding	350mm振动盘自动排序 350mm vibration pallet and automatic sorting
传送方式	Conveyer way	皮带传送轨道 Belt conveyer
主轴间距	Spindle pitch	74mm
主轴数	Spindle number	单台机6轴 6 spindles for one machine
主轴方向	Main Spindle Direction	顺时针/逆时针.每圈/360° Clockwise or counterclockwise each cycle for 360°
主轴转速	Spindle speed	15000rpm
三维行程	Three dimensional travel	X:85 Y:85 Z:55
主轴伺服马达功率	Spindle servo motor power	750W
适用线径	Wire range	0.02-0.5(>0.5mm,增大电机功率即可) (Increase the motor power can be applied to wider wire size)
自动焊锡机	Automatic soldering	EH3706
电源电压	Power voltage	AC220V±10%
功率	Power	5000W
最大骨架外径	Bobbin outer diameter	74mm (Max.)
快速夹具接口内径	Spindle diameter	10mm
导针杆移动伺服马达功率	Traverse motor power	400(X) 400(Y) 400(Z)
导针杆移动速度	Traverse speed	50mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa
主机尺寸	Machine size	1100mm*800mm*1200mm
生产线重量	Production line weight	2000kg

产品介绍 Product Introduce

EZ3712全自动E型电感流水线

EZ3712 Full Automatic Production Line For E Type Inductor



主要过程：振动上料→绕线→焊锡→包胶。

Main process: automatic vibration feeding →winding →soldering→taping .

产品概述/Product Overview

本款全自动流水线由上料机、EZ3712 全自动12轴绕线机、自动焊锡机和包胶机组成，具有自动上料排序检测，交换上下料绕线等特点，适合于长期大批量订单的产品。

This production line consist of the feeding machine、EZ3712 12-spindle full automatic winding machine, automatic soldering machine and taping machine. It have many advantage ,such as the detect automatic loading bobbin , loading & uploading bobbin for winding wire and so on.it is applicable for large batch order with high precision and high efficiency.

产品特性/Mechanical Features

- 1、机身采用优质的树脂砂高级铸件，底座采用钢板无缝焊接，承重大，减噪减振，增加机器的稳定性。
- 2、采用进口丝杆、导轨、日本SMC气缸、三星皮带、日本基恩士光纤传感器等，其余关键部件均采用进口。
- 3、主轴使用日本NSK高速轴承，和各维均采用日本松下交流伺服电机，具有高转速，定位精准，低噪音，使用寿命长等特点。
- 4、可实现垂直和水平两个方向的端子缠线，线头处理方式可选择:a:拉断或刀片割断;b:废线掉入废线槽中。
- 5、绕线品种的更换：只需将机器中已编好的程序调用和更换夹具即可。
- 6、编程方式:触摸屏编程，提供人机交互视教系统，实现所见即所得的编程效果。
- 7、导针杆采用进口模具钢加工制成，垂直度<0.01mm，平行度<0.01mm/全长。

- 1.The material of machine is made of high quality resin sand senior castings. The pedestal welding steel seamless, which can strengthen the bearing, reduce noise / vibration, and improve stability .
- 2.The key parts of this series take imported leadscrew, guide way, Japan's SMC cylinder、Samsung belt, Japan's Keyence optical fiber sensor and so on, other key parts are imported.
- 3.Japan NSK high speed bearings, as the AC servo motor has been adopted, the running speed and position speed is quickly, precisely.low noise and long service life.
- 4.Terminal tangled thread, direction: vertical or horizontal; Convenient terminal wire disposal: a: snap or cut by scissors; b: fallen into scrap box.
- 5.Easy to change the jigs and programming which has been already saved in machine when you want to change the coil.
- 6.Program type: touch-screen programming, provide man-machine interface teaching system to edit program.
- 7.Traverse bar is made of imported die steel, Verticality< 0.01mm, parallelism<0.01mm/full-length.

参数规格/Specifications

自动上料	Automatic feeding	500mm振动盘自动排序 500mm vibration pallet and automatic sorting
传送方式	Conveyer way	皮带传送轨道 Belt conveyer
主轴间距	Spindle pitch	37mm
主轴数	Spindle number	单台机12轴 12 spindles for one machine
主轴方向	Main Spindle Direction	顺时针/逆时针 每圈/360° Clockwise or counterclockwise, each cycle for 360°
主轴转速	Spindle speed	15000rpm
三维行程	Three dimensional travel	X:85 Y:85 Z:55
主轴伺服马达功率	Spindle servo motor power	1500W
适用线径	Wire range	0.02-0.35(>0.35mm,增大电机功率即可) (Increase the motor power can be applied to wider wire size)
自动焊锡机	Automatic soldering	EH5012
电源电压	Power voltage	AC220V±10%
功率	Power	≥2150W
最大骨架外径	Bobbin outer diameter	30mm (Max.)
快速夹具接口内径	Spindle diameter	10mm
导针杆移动伺服马达功率	Traverse motor power	200(X) 200(Y) 200(Z)
导针杆移动速度	Traverse speed	80mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa
主机尺寸	Machine size	1750mm*1000mm*1350mm
生产线重量	Production line weight	800kg

产品介绍 Product Introduce

ER8006C半自动绕线机

ER8006C Semi-automatic Winding Machine



产品概述/Product Overview

ER8006C 为半自动绕线机，采用人工上下料，自动排线，操作简单。

ER8006C is 6-spindle semi-automatic winding machine, it take manual loading & unloading bobbins and is easy to operation.

参数规格/Specifications

主轴数	Spindle number	6
主轴间距	Spindle pitch	80mm
主轴方向	Main Spindle Direction	顺时针/逆时针 每圈/360° Clockwise or counterclockwise, each cycle for 360°
主轴转速	Spindle speed	15000rpm
排数行程	Three dimensional travel	Y:85
主轴伺服马达功率	Spindle servo motor power	750W
适用线径	Wire range	0.02-0.5 (>0.5mm,增大电机功率即可) (Increase the motor power can be applied to wider wire size)
电源电压	Power voltage	AC220V±10%
功率	Power	1500W
最大骨架外径	Bobbin outer diameter	80mm (Max.)
快速夹具接口内径	Spindle diameter	10mm/12mm
导针杆移动速度	Traverse speed	50mm/秒
压缩空气压力	Air pressure	0.4-0.6mpa
主机尺寸	Machine size	900m*650mm*1100mm
主机重量	Machine weight	150kg

焊锡机

Soldering machine



产品特性/Mechanical Features

- 1、皮带传送交换上下料，自动取料，助焊，焊锡。
- 2、底座采用钢板无缝焊接，承重大，减噪减震，增加机器的稳定性。
- 3、采用进口导轨和丝杠，确保机台之定位及重复定位的精度。
- 4、机种更换方便，只需要调用合适程序和更换夹具即可，设备操作简单。
- 5、适应长期大批量订单的产品。

- 1.To exchange feeding and discharge on the belt conveyer, automatic taking bobbin, paste flux,soldering.
- 2.The machine base adopts the steel plate seamless welded, which can strengthen the bearing capacity, reduce noise and vibration, and improve the stability of the machine.
- 3.Use imported guide ways and ball screw in order to ensure the accuracy of positioning and repositioning.
- 4.Easy to replace the bobbin type, just to choose an appropriate procedure and replace the jigs.
- 5.Application to big scale orders for a long term

参数规格/Specifications

上料方式	Feeding way	机械手自动取料 automatic taking bobbin by mainpulator
传送方式	Conveyer way	皮带传送 Belt conveyer
轴数	Axis number	3
主轴马达参数	Spindle motor parameter	转速Speed: 4000 保持力距: 6.4N.m 转子惯量Keep moment: 2750g.cm² 电流current: 4.0A
适用骨架	Bobbin type	E40-E10
压缩空气	Air pressure	0.4~0.6mpa
主机尺寸	Machine size	1100mm*560mm*810mm
生产线重量	Production line weight	150kg

产品介绍 Product Introduce

自动绞线机

Automatic wire twisting machine



产品特性/Mechanical Features

自动绞线机是针对解决微细线在绕线过程中易断线之困扰所研发，其操控简便，性能优越。

Automatic wire twisting machine is developed for the problem of disconnection of micro wire in process of winding. It is easy to operate with superior performance.

参数规格/Specifications

控制方式	Control Method	PLC控制	PLC
主轴数	Spindle number	8/10/12/16	
主轴间距	Spindle pitch	37mm	
适用线径	Wire range	0.02-0.08mm	
绞线长度	Wire length	≤350mm	
绞线圈数	Number of cycles	可调整	Adjustable
绞线股数	Number of Twisting	3.5.7.9...任意设定	3.5.7.9...set up randomly
绞线速度	Twisting Speed/rpm	最高转速6000rpm	Max.6000rpm
电源电压	Power voltage	AC220V±10%	
功率	Power	450W	
主机尺寸	Machine size	700m*730mm*220mm	
主机重量	Machine weight	45kg	

可选装置介绍(1) Optional Accessories(1)

前后式送料方式/Front and Back Movement

将放有空骨架的上料板前后直接插入治具，内置缓冲装置，卸骨架采用滑梯式，简单快捷。

Loading bobbin is the fixture with the emptying bobbin to move forward and then insert the fixture directly. Sliding approach is used in unloading of the bobbin. This way is simple and quick.



前后上下式送料方式/Front and Back Movements (with Up-and-Down Movements)

将放有空骨架的上料板前后直接插入治具，然后上料板下降再退回，卸骨架是用滑梯式。上料板前进时骨架容易跌倒或滑出的情况下用此方法可以提高稳定性。

When loading bobbin is using the fixture move forward and inserts the fixture directly, and then fall back after the fixture is go down; Slide way is used in Unloading bobbin. In this way the stability of the system can be improved by preventing the falling and slip-out of the bobbin when the fixture moves forward.



前后上下左右式送料方式/Moveable Front and Back, Left and Right (with Up-and-Down Movements)

在上料板上有放空骨架和绕线的位置，上料板前进并把空骨架直接插入治具，上料下降后退回，退骨架时上料板横向移动并前进、上升、后退后完成卸料，改装置的使用要求骨架的宽度必须小于主轴间距的一半。

On the fixture there is a position for emptying bobbin and winded bobbin. The fixture move forward and insert the emptying bobbin into the fixture directly, and return back after the fixture descends. When the bobbin retreats, the fixture moves transverse and forward, ascends, and retreats and then discharging is finished. The condition for using this unit is width of bobbin must be less than half of the spindle distance.



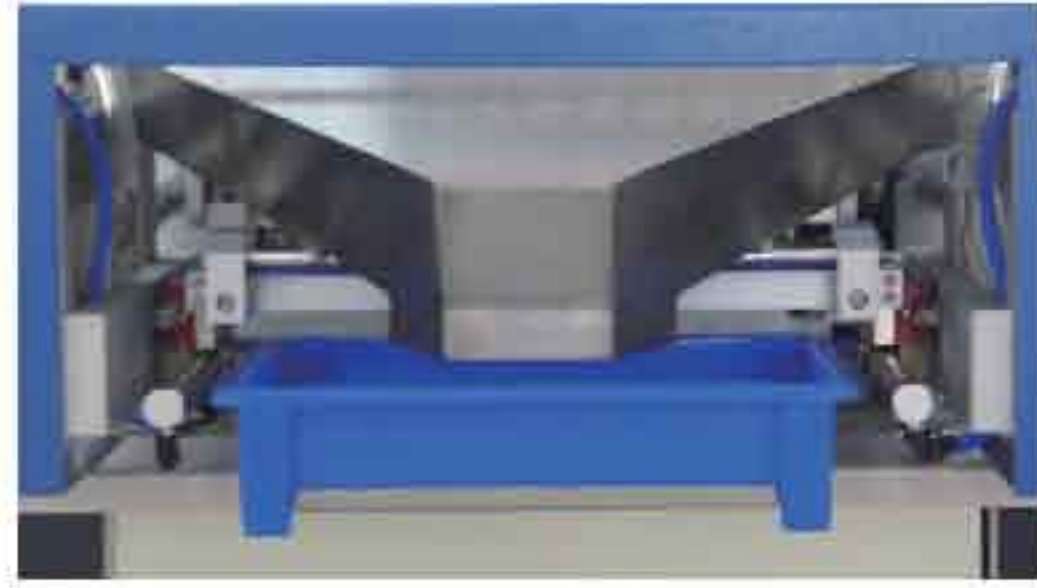
固定式接料盒/Fixed scrap box

有利于下料时产品各自按槽分开，避免了线圈因相互碰撞而造成断线或碰伤等现象。

It is beneficial for the products to be separated respectively when unloading to prevent coils are snapped or damaged in a collision.



可选装置介绍(1) Optional Accessories(1)



交换式接料盒/ Switched scrap box

适用于周期短且体积小或耐压等级不高的产品。
Application to the products which are small, short term and low level of voltage.



剪线装置/Cutting device

在中粗线及多股线不易扯断的情下，可选用该装置做头尾线处理。
Under the situation of thick wire and strand wire are not snapped easily, you can choose this device for disposing of head and tail wires.



压线装置/Wire pressing device

适用于在绕线结束时，为了让骨架缠脚精确入槽，或要求结尾时铜线必须与骨架的边缘垂直的产品，就需要采用此装置压住铜线后再进行端子的缠绕。

At the end of the winding, in order to insert the bobbins into fixture accurately or if it is required that the end wire should be perpendicular to the edge of the bobbin, this device is necessary to press the copper wire before winding the terminal.



脱漆装置/Wire stripping device

有利于产品在进行骨架缠脚前线径较粗的漆包线需要脱漆后进行缠脚。

Before bobbins winding, the thick wire of lacquered wire needs to strip to strengthen the tightness of coil.

包胶装置/Taping device

可使骨架直接在绕线机上进行包胶带，能重复进行，包胶后可再次绕线后进行包胶，以此重复使用。

This device is able to directly tape on the winding machine which can repeat ongoing. This circle (winding-taping-winding-taping) can greatly increase the productivity.



自动送线装置/Wire Feeder

也叫张力衰减器，在做一些特殊的过槽等高难度动作时，可以使用此装置主动送线来达到目的。

The Wire Feeder is also called Tension Attenuator, when doing some special slot wiring and stunt and so on. This unit can be used for taking the initiative to send wire to achieve the objectives.



被动中心顶杆装置/Passive Central Mandril Device

被动中心顶杆主要有两种类型，第一种是利用治具体和治具芯的组合来得到压住骨架的目的，可以避免因为绕线的张力使得绕线后骨架变宽的现象，此装置的应用要根据骨架的形状而定；第二种是在机器上装前后可以移动的顶杆机构，在绕线时前进并顶住骨架，绕完线以后即后退松开。

There are mainly two types of passive central mandrils. One type mandril presses the bobbin through the combination of fixture and the core of fixture, which avoids the widening of the bobbin after the winding caused by the tension of the winding. The application of this type of device shall be determined by the shape of the bobbin; the other type is mounted with amovable mandril mechanism on the machine, which advances when winding and pushes the bobbin and releases it when the winding is finished.



骨架到位检测装置/Bobbin Position Checking Sensor

使用该装置可以检测到没有被插到位的骨架，机器及时报警并停机，可以有效地防止导针被打断。

This unit can check the bobbins that aren't inserted in place. The machine timely alarms and shuts down, which can effectively avoid the breakage of the guiding needle.



可选装置介绍(2) Optional Accessories(2)

磁阻尼式张力器/Electronic feedback type tension

磁阻尼式张力器型式通过磁装距产生阻尼，无机械摩擦，能长期产生稳定张力，精度可靠。张力在高速和低速变换时张力恒定在 2g 以内，性能优。

This tension unit is through magnetic torque to create damping. It adopts no mechanical friction method to achieve the stable tension for long term, which is high precision and durable. Tension keeps in less than 2g when high speed and low speeds changes.




型号 Type	张力范围 Tension range (g)	参考使用线径 (mm) Wire diameter range (mm)
MTC20	4-40	0.03-0.07
MTC100	10-120	0.04-0.14
MTC300	50-400	0.08-0.25
MTC600	80-600	0.12-0.35
MTC800	100-800	0.14-0.40
外部结构		立式卧式 Vertical/Horizontal type

气动、磁力带衰减式张力器/Pneumatic, magnetic with attenuation type tension

气动、磁力带衰减式张力器在标准磁性张力器基础上增加了对反张力的衰减控制。采用日本原装轴承，选用优质的材料，外观美观，性能稳定。

Compare to standard tension, this tension unit increases the attenuation control of back tension. It uses Japanese original bearing with beautiful shape, stable performance.




型号 Type	张力范围 Tension range (g)	参考使用线径 (mm) Wire diameter range (mm)
MTQ20	4-40	0.03-0.07
MTQ100	10-120	0.04-0.14
MTQ300	50-400	0.08-0.25
MTQ600	80-600	0.12-0.35
MTQ800	100-800	0.14-0.40
外部结构		卧式 Horizontal

MTC磁力张力器/MTC Magnetic tension

通过磁场转换扭矩变化产生阻尼，无机械摩擦，因此能长期产生稳定张力，且精度能得到有效保证。能自由地调整反张力，可以适应方型骨架的绕线和急剧变化绕线速度的绕线，不会产生断线。断线和线材用完时，由装备的断线检出装置通知，绕线机自动停止。

This tension unit is through torque changes to create damping. It adopts no mechanical friction method to achieve the stable tension for long term, which is high precision and durable. It can control the back tension freely. Even through the dramatic changes of the wire speed of the square bobbin winding, it will not be disconnected.

When the wire is disconnected or the copper wire is used up, the alarm sounds and the machine automatically stops.




型号 Type	张力范围 Tension range (g)	参考使用线径 (mm) Wire diameter range (mm)
MTCSS	4-40	0.03-0.07
MTCS	10-120	0.04-0.14
MTCM	50-400	0.08-0.25
MTCL	80-600	0.12-0.35
MTCLL	100-800	0.14-0.40
外部结构		立式 Vertical type

MTA磁力气动张力器/MTA Magnetic pneumatic tension

通过磁场转换扭矩变化产生阻尼，无机械摩擦，因此能长期产生稳定张力，且精度能得到有效保证。能自由地调整反张力，可以适应方型骨架的绕线和急剧变化绕线速度的绕线，不会产生断线。断线和线材用完时，由装备的断线检出装置通知，绕线机自动停止。新增气动衰减装置，更适合 PIN 脚的零张力快速缠绕。

This tension unit is through torque changes to create damping. It adopts no mechanical friction method to achieve the stable tension for long term, which is high precision and durable. It can control the back tension freely. Even through the dramatic changes of the wire speed of the square bobbin winding, it will not be disconnected. When the wire is disconnected or the copper wire is used up, the alarm sounds and the machine automatically stops. Increase the pneumatic with attenuation device, more suitable for the quick winding of PIN but no tension.




型号 Type	张力范围 Tension range (g)	参考使用线径 (mm) Wire diameter range (mm)
MTA20	4-40	0.03-0.07
MTA100	10-120	0.04-0.14
MTA300	50-400	0.08-0.25
外部结构 Shape		立式 卧式 Vertical type. Horizontal

MET电子张力器/MET electronic tensioner

MET 系列利用电子磁滞器控制原理产生阻尼，同时采用了无接触式刹车，因此整套装置核心部分除了由轴承产生的机械摩擦外，不存在任何机械摩擦，从而使整套装置的稳定性、耐久性、高速运转时的迎合性都得到了很大提高。

By integrating the electronic system and non-contact breaking design, there is barely any contact in the core mechanism of the main tension wheel, except the connecting bearing. This combination provide smooth, stable and consistence tension, even in high speed winding.



型号 Type	张力范围 Tension range (g)	参考使用线径 (mm) Wire diameter range (mm)	弹簧型号 Spring type
METSS	3-20	0.02-0.04	2#,4#
METS	15-120	0.04-0.12	4#,6#
METM	60-240	0.10-0.20	6#

STT-A伺服张力器/STT-A Servo motor tensioner

STT系列由传统的被动送线方式改变成主动送线方式，与机械张力器、磁力张力器相比张力更加稳定，其张力值范围为 1g-300g并自带反馈张力稳定系统，能自动实现张力稳定平衡。

Unlike traditional tensioning methods, servo tension device feed the wire automatically. Compare with mechanical or magnetic tensioner, it is more stable. The tension can be set from 1.0g to 300g, with feedback tension stable system which can realize the tension balance automatically.



型号 Type	张力范围 Tension range (g)	适用线速度 Apply linear velocity
STT-A07-100	1-100g	7m/S
STT-A07-200	1-200g	7m/S
STT-A07-300	1-300g	7m/S
型号 Type	张力范围 Tension range (g)	适用线速度 Apply linear velocity
STT-A12-100	1-100g	12m/S
STT-A12-200	1-200g	12m/S
STT-A12-300	1-300g	12m/S
型号 Type	张力范围 Tension range (g)	适用线速度 Apply linear velocity
STT-A15-100	0.5-100g	15m/S
STT-A15-150	1-150g	15m/S

线圈样图 Coil samples

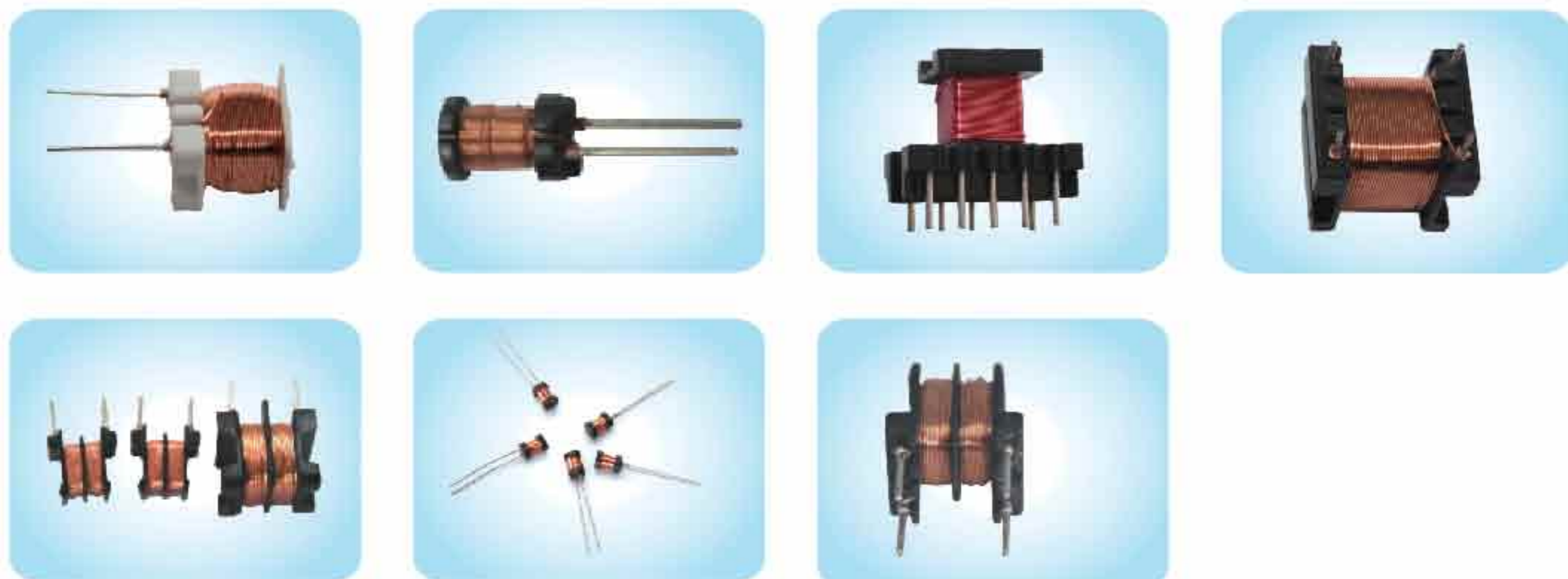
汽车电器/Automotive electrical appliances



继电器/Relay



电感/Inductance



高压包/High pressure bag



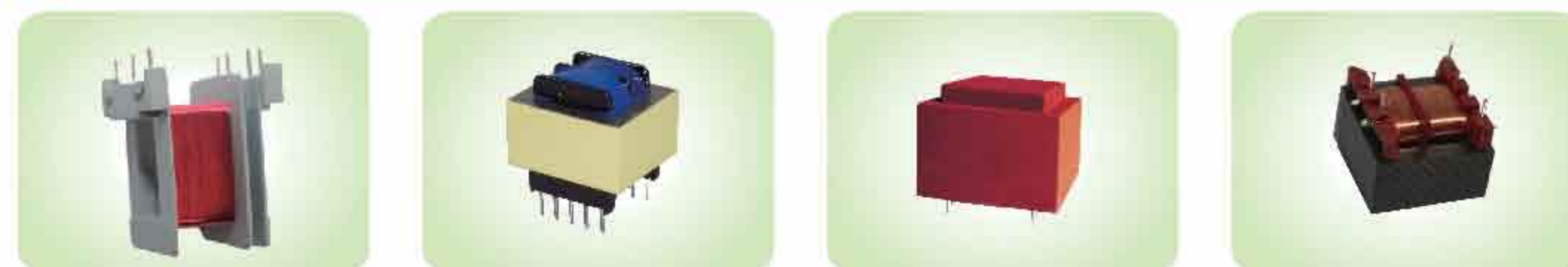
马达线圈/Motor coil



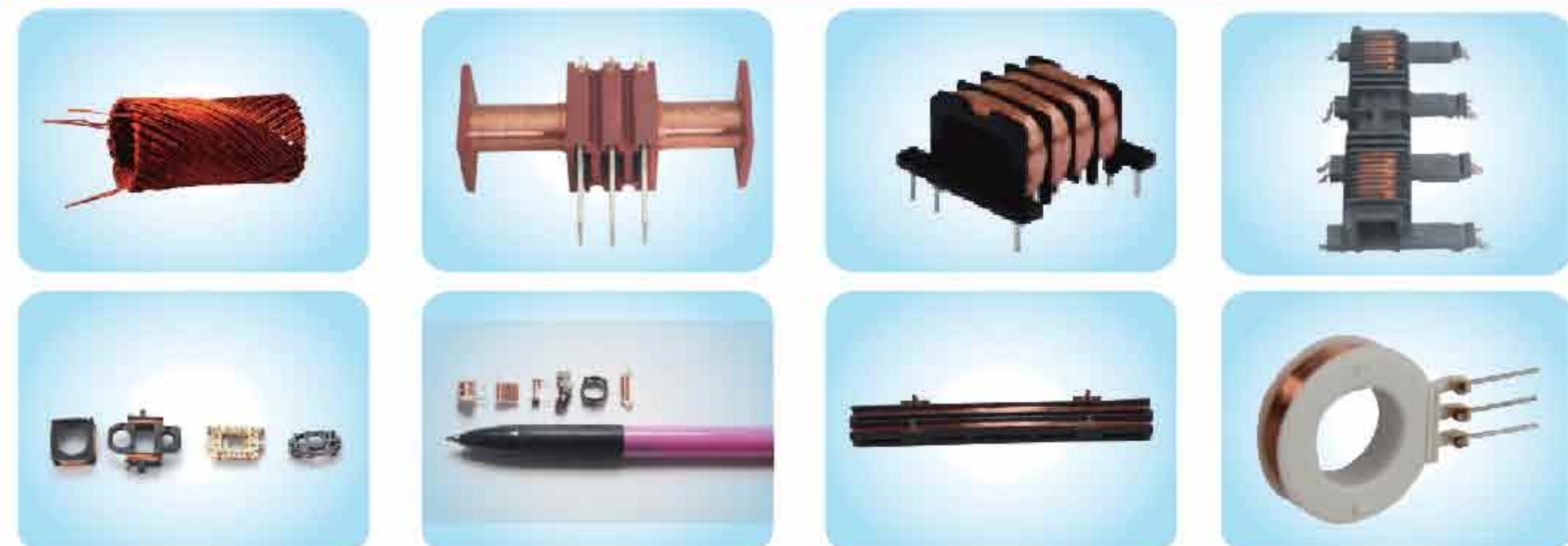
高频变压器/High Frequency Transformer



低频变压器/Low Frequency Transformer



其它/Other





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