KIOXIA LIGHT RING EQUIPMENT GROUP CO.,LTD.
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KXP-01

Precision Wiring Self-Adhesive Coil Fully Automatic Winding Machine



Design：

The equipment is designed as a floor-standing cabinet structure with a single workstation, left and right strokes of 1800 mm, up and down strokes of 200 mm, and a maximum rotation diameter of 320 mm. It can realize unattended automatic winding, automatic cable arrangement, automatic heating and shaping, automatic thread trimming, automatic Remove from the mold.

The main components are described in the following table:

U-axis (rotation)	400W Mitsubishi servo motor	Bearing	Japan NSK
X axis (left and right)	200W Mitsubishi servo motor	Sensor	Japan Omron
Y Y axis (up and down)	200W Mitsubishi servo motor	Pneumatic components	Airtac or SMC
Control system	high-precision motion	Spindle cable box	Thickened box, independently developed

	controller		
Human-machine interface	8072IP touch screen	Work table	Thickened table, independently developed
Screw guide	Taiwan Shangyin brand, C-level accuracy	Mechanical components	Independent research and development
Timing belt	Japan Bando	Bearing	Bearing: Japan NSK

Technical Parameters:

Number of winding spindles	1	Machine power	2. 15 KW
Spindle speed	0-2000 rpm	Machine size	Length: 900mm Width: 500mm Height: 1500mm
Adaptable wire diameter	0. 035- - 1.5 mm can be upgraded	Machine weight	165 Kg
Maximum rotation diameter	320 mm	Winding servo power	400W
Stroke range	X: 18 0 Y: 2 00	X\Y axis	200W\200W

		servo power	

Features:

◆ The main chassis of this machine is made of finely processed overall materials to minimize assembly caused by assembly.

error to ensure the accuracy of the relative position of each part and the stability of long-term use.

◆ The control part adopts the most advanced multi-axis motion control system, with linear and arc interpolation.

Excellent performance such as spiral wrapping, in addition to easily realizing automatic feeding, automatic thread winding, automatic winding.

Basic steps of fully automatic machines such as wire, precision wire arrangement, automatic wire winding, automatic wire trimming, automatic blanking, etc.

In addition to the sequence, various difficult procedures such as right-angle wire outlet and wire pressing into slot can also be realized.

◆ The human-machine interface is simple and easy to understand, easy to operate, quick to respond, and has a password storage function.

Prevent unauthorized persons from modifying the program.

◆ Each motion axis adopts Mitsubishi servo motor. Driven, high speed, precise positioning, long service life.

◆ Important components are all made of big brand products.

◆ The control card MES networking function can be opened according to the buyer's requirements. The RJ5 45 interface is used to connect to the buyer's host. It can be set as a server or a client. The communication protocol uses M M odB us TCP. The host can be read through the 04 H function code. Control the current status of the card.

◆ According to the requirements of the purchaser, the control card can store 2 to 20 to 50 product documents. The parameters of a product are stored in an independent product document. The saved documents can be stored in the control card, or The backup can be exported through a U disk. During delivery, our technical staff will edit the corresponding parameter documents based on all the products already provided. When using it, the buyer only needs to switch to the corresponding document according to the product model and replace the tooling fixture. for production and debugging.

Adaptation:

◆ Inductor coil

◆ Linear motor coil

◆ LCD backlight high and low voltage coils

◆ Ignition high and low voltage coil

◆ Sensor coil

◆ Solenoid valve coil

◆ Automotive injector coil

◆Car ABS, charger coil

◆ Automobile instrument coil

◆ Automotive brake coil

◆Voice coil

◆ Other flat wound self-adhesive coils

Main components description：

Wound servo motor: Mitsubishi brand

X-axis servo motor: Mitsubishi brand

Y-axis servo motor: Mitsubishi brand

Control system: High-precision six-axis motion controller

Human-machine interface: 7-inch touch screen

Screw guide rail: Taiwan Shangyin C-level accuracy

Timing belt: Japan Bando

Bearing: Japan NSK

Sensor: Japan Omron

Pneumatic components: Airtac

Heating wire: Taiwan Weiye 1 500W

Heating wire fan: Japan MNB

Power supply: Taiwan MEAN WELL

Delivery list

◆ One single-station winding host;

◆ 1 enameled wire cover ((250*350*3mm);

◆ 1 set of winding jig;

◆ 1 set of commonly used hexagonal wrenches;

◆ 24--27 1 open-end wrench;

◆A copy of the instruction manual.

Packaging

◆Packaging method: wooden box

◆Packaging dimensions: Length: 900mm Width: 50 0 mm Height: 1500 mm

◆Packaging weight: 200 kg

PRACTICAL APPLICATION :

TRAINNING CUSTOMER TO OPERATE WINDING MACHNE :
1.All service engineers with 10 years experience are gotten special technology training, who can d eal with various breakdown problem.
2.Guide the user to use accurately and how to maintain the Digital CNC Wire Coil Winding Machine.

Provide free consultation about production process technology of electronic products.
3.In order to guarantee the machine used normally, we'd have training on how to operate, use and maintain our product by English manual, video, guiding on line.

PACKAGING:

Packaging Material: Carton/Wooden case with foam inside.
1.General package(Paper carton or plastic bag): For small euipped parts for Digital CNC Wire Coil Winding Machine, Package it with form and pack paper to guarantee unbroken during the transpot.

2.Wooden case package: For larger scale Digital CNC Wire Coil Winding Machine ,
we have special skilled
carpenter, who would make the proper wooden case with exact thickness,density,length. The up ar row ↑marked on the outer wooden case. Buffer material would be put in the wooden case to prev ent crack and shock.Ensure that the KXP-01 Precision Wiring Self-Adhesive Coil Fully Automatic Winding Machine will not be damaged during transportation.



FACTORY:

Founded in 1993, KIOXIA LIGHT RING EUIPMENT GROUP CO.,LTD. has established itself as a well-known manufacturer specializing in high-performance winding machines, along with supporting production equipment and professional technological services. A standout in its precision-focused product range is the KXP-01 Precision Wiring Self-Adhesive Coil Fully Automatic Winding Machine—a cutting-edge solution engineered for intricate self-adhesive coil production, combining advanced precision wiring capabilities with full automation to ensure consistent quality and efficiency in manufacturing processes.

Beyond offering specialized equipment like the KXP-01 Precision Wiring Self-Adhesive Coil Fully Automatic Winding Machine, KIOXIA LIGHT RING provides highly cost-effective comprehensive manufacturing solutions. These solutions cater to the production needs of various wound components, including transformers, chokes, and more, delivering reliable support for efficient, high-quality processing across diverse winding applications.



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