



GREWIN INDUSTRIAL GROUP CO.,LTD.

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GWA-85DM winding machine Design of Automatic Differential Mode Inductor Winding Machine

Below picture is for production of other related machines:



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—, GWA-85DM Machine appearance images:

Workflow: 1. Automatic wire feeding → automatic wire cutting → 2. Automatic material loading by the feeding mechanism → automatic material feeding by the belt conveyor → 3. Magnetic ring pickup by the gripper → automatic winding → 4. Remove the wound magnetic ring → proceed to the next process



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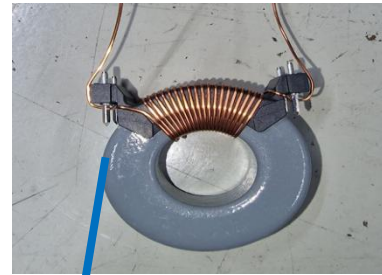
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二, Actual product image requiring winding: (Differential Mode Inductor)



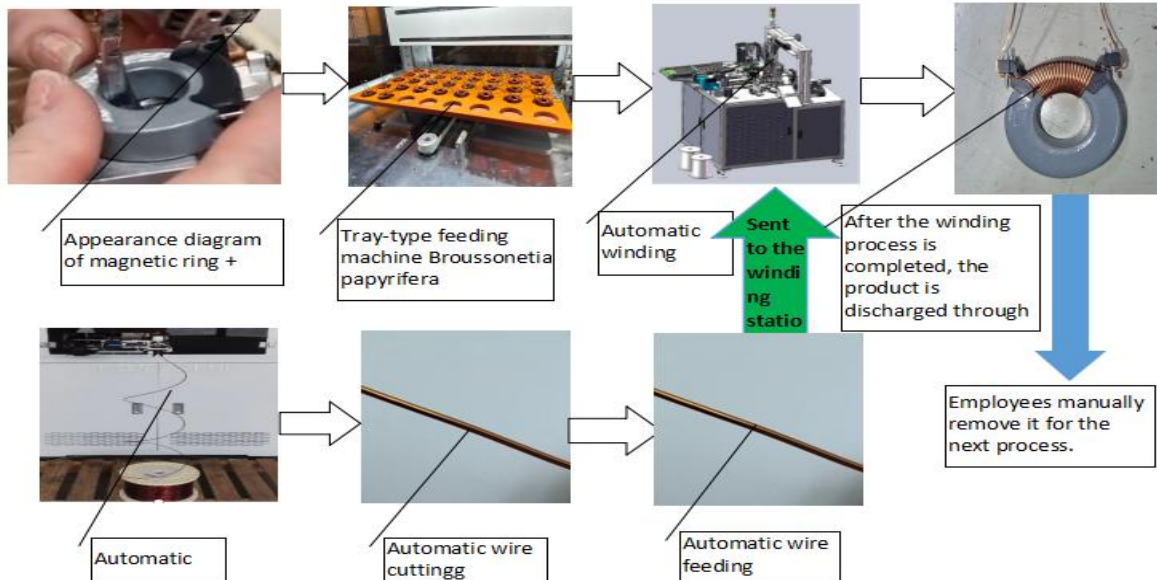
magnetic ring specification 47.63*23.32*18.92

Post-winding product

effect

三, Product actual process flow picture:

1.1 Action Flow:



1.2 Functional details:

- 1、Employees assemble the magnetic ring with the base (the magnetic ring base must be fixed, and the tolerance dimensions must be consistent);
- 2、The assembled product (ferrite bead + base) is manually placed into a tray (tray capacity 30-50 products), which is then gripped by a 3-axis platform and transported to the winding position for precise positioning. ;
- 3、Automatic wire feeding, automatic wire cutting, automatic wire feeding to the winding station;
- 4、The product (ferrite bead + base) starts winding; after winding is completed, one product is output at a time.
- 5、After the winding is completed, the product is discharged through the discharge port and falls into the storage box; employees take the product from the storage box for the next process. .

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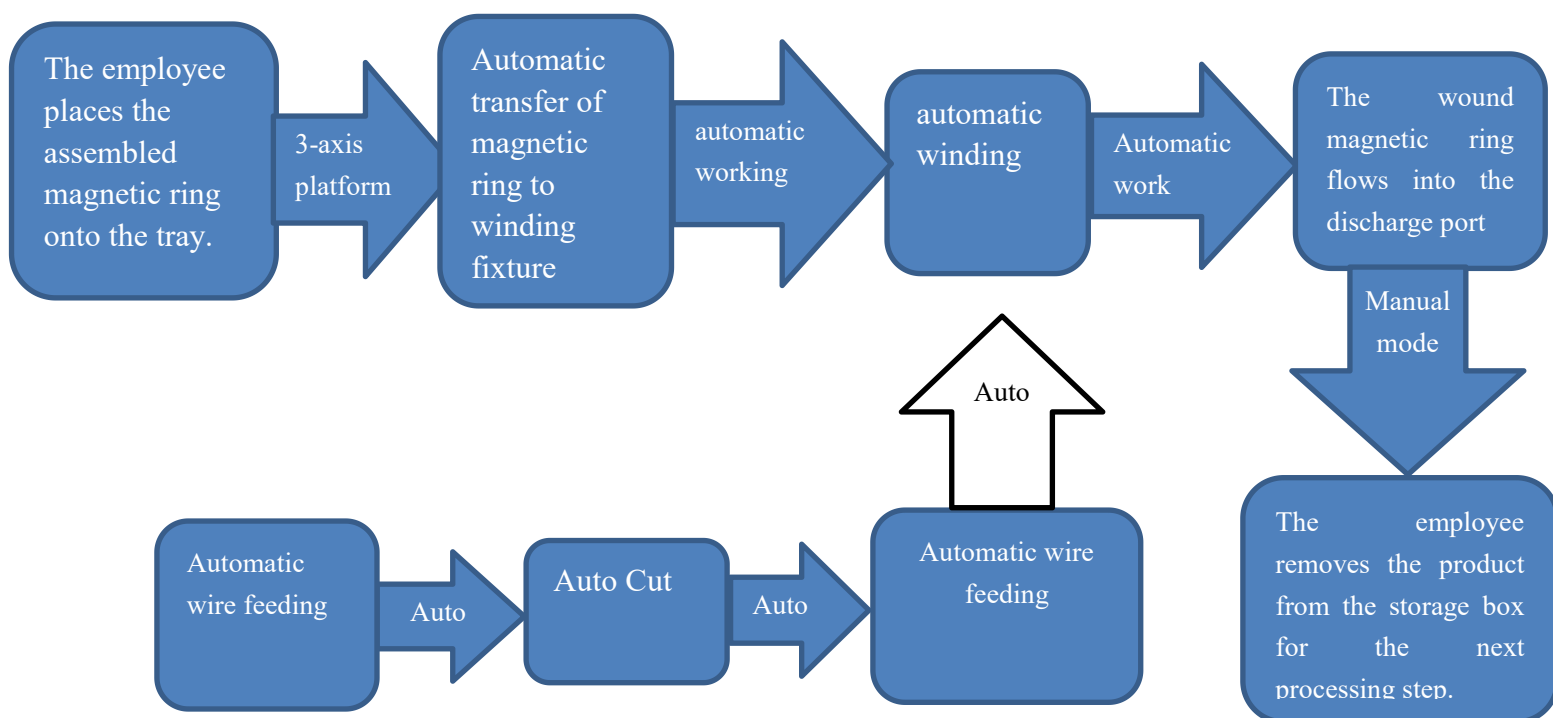


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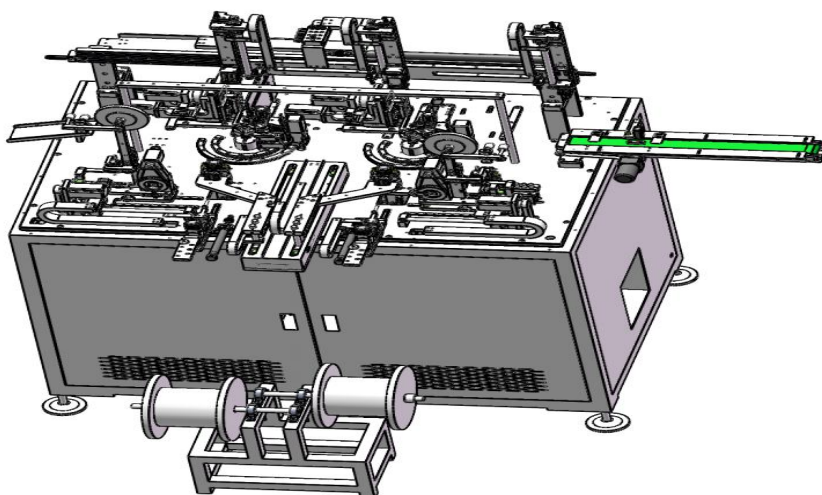


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四、 machine operation process: Fully Automatic Differential Mode Inductor Winding Machine



五、 3D diagram of machine appearance (similar):



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六, Machine technical parameters: Technical specifications of the fully automatic differential winding machine :

Serial number	Project Category	numerical value, numeral number, figure, magnitude	Note
1	Device Model:	GWA-85DM	
2	Adaptation of Toroidal Core (Outer Diameter):	38mm*19mm*13mm	No base included
3	Fit wire diameter:	0.6mm	
4	bus length:	1000mmwithin, within the limits of, including, less than	
5	Winding speed:	85-100PCS/S	
6	application winding:	normal winding	
7	Power supply:	AC 220V/50Hz	
8	Air source:	0.55Mpa-0.60Mpa	
9	noise, undesired sound, strepitus, noises, sound :	60dB	
10	plant capacity :	3KW	
11	Equipment energy consumption:	0.55°/one hour	
12	Use ambient temperature:	-5°C~40°C	
13	relative humidity:	(40~90) %RH	
14	combined pass rate:	99.5%	
15	outline dimension, physical dimension, external dimensions :	L1450mm*W1260mm*H2150mm	
16	Total weight of the machine:	500KG	

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七, Machine configuration list:

Serial number	Name	Brand	unit	Quantity	Note
1	Equipment outer cover sheet metal parts	Non-standard customization	set	1	
2	machined parts	Non-standard customization	set	1	
3	magnetic ring tray type feeding mechanism	Non-standard customization	set	1	
4	Guide screw (Upper Silver TBI or Advantech)	Shangyin (TBI) Yadke	set	1	
5	Servo motor (Lease))	(Lease	set	8	
6	Pneumatic components (Airtac)	Yadke	set	1	
7	PLC Xinjie	Xinjie	set	1	
8	Touch screen (XJ)	Xinjie	set	1	
9	Photoelectric sensor	(OMRON) +(sensor)	set	6	
10	Design and Processing Cost of Magnetic Ring Fixture	Non-standard customization	set	1	
11	Software system	Non-standard customization	set	1	
12	Equipment assembly and debugging		item	1	

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13	Device installation and debugging		item	1	
14	One-year after-sales service for the device		item	1	
15	wages and overheads and miscellaneous expenses		item	1	
16	expenses of taxation		item	1	
17	profit, gain, margin, return		item	1	

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