KIOXIA LIGHT RING EQUIPMENT GROUP CO.,LTD.

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

Below picture is for production of other related machines:



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一，KXA-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



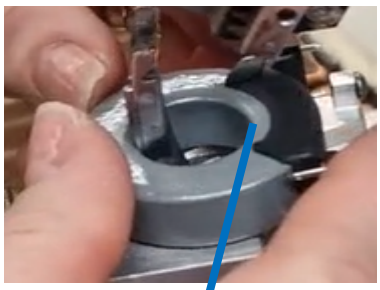
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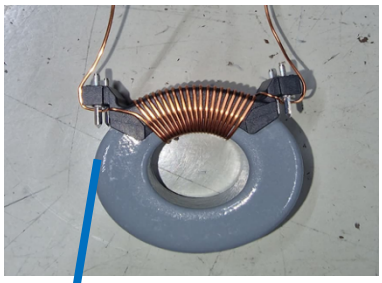
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二, Actual product image requiring winding: (Differential Mode Inductor)

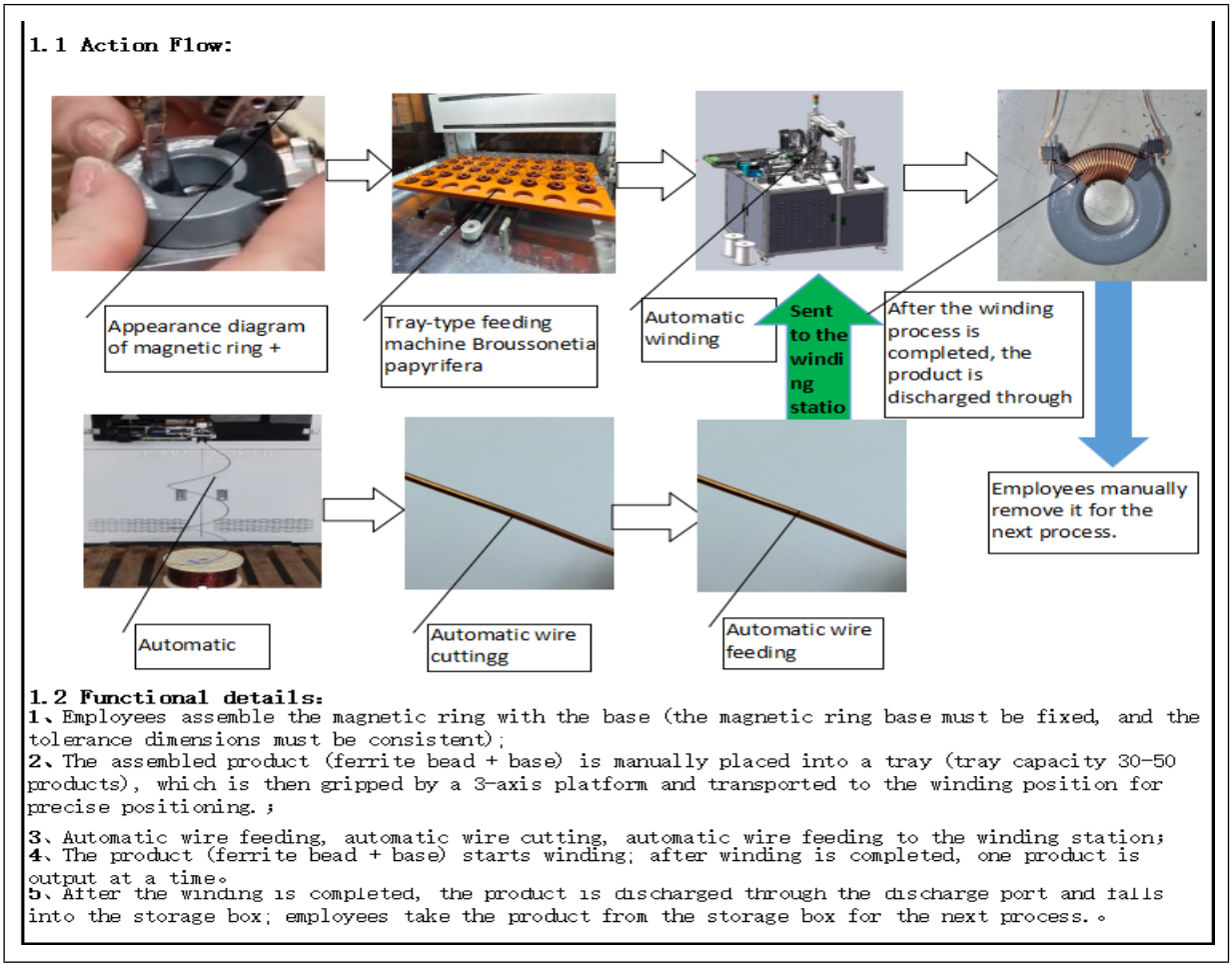




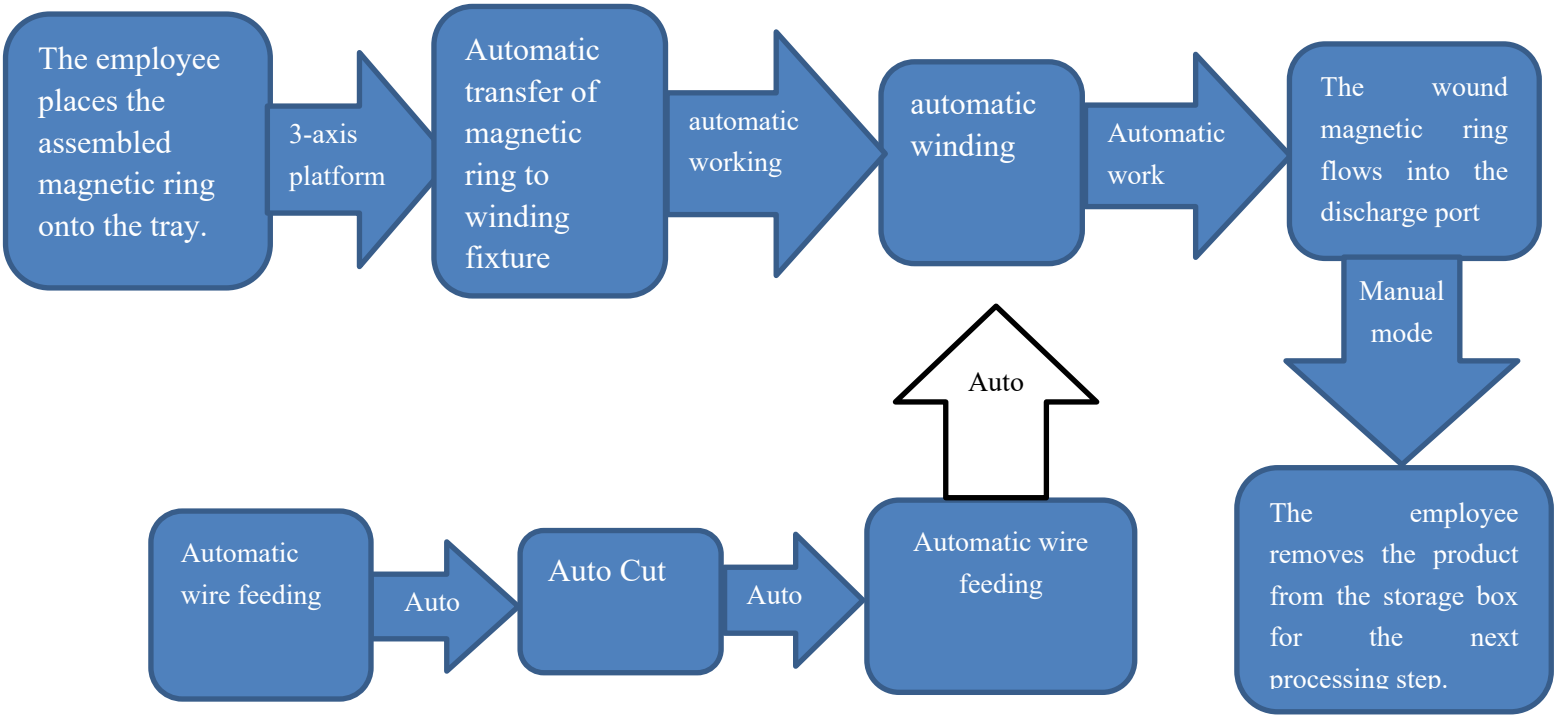
magnetic ring specification47.63*23.32*18.92

Post-winding product effect

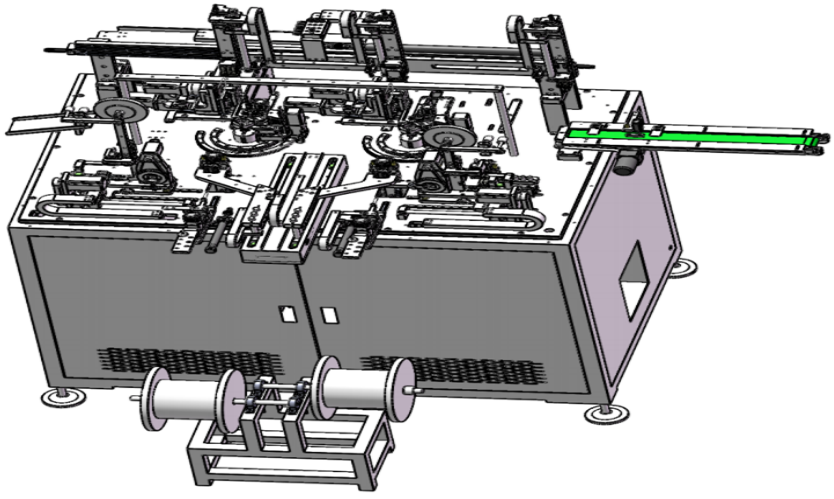
三, Product actual process flow picture:



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



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



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

Serial number	Project Category	numerical value, numerial number, figure, magnitude	Note
1	Device Model:	KXA-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	

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	

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	