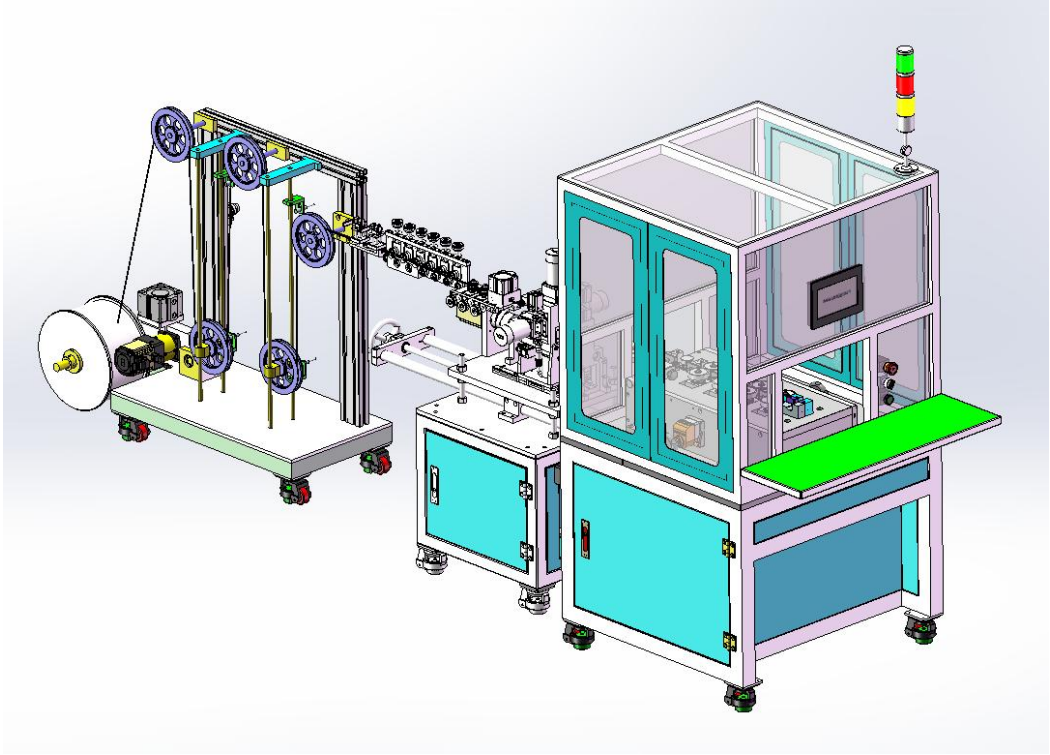
GREWIN INDUSTRIAL GROUP CO.,LTD.
TEL/WhatsApp: +86 18622096679
Mail: admin@coilwindingmachinechina.com
Web:www.coilwindingmachinechina.com

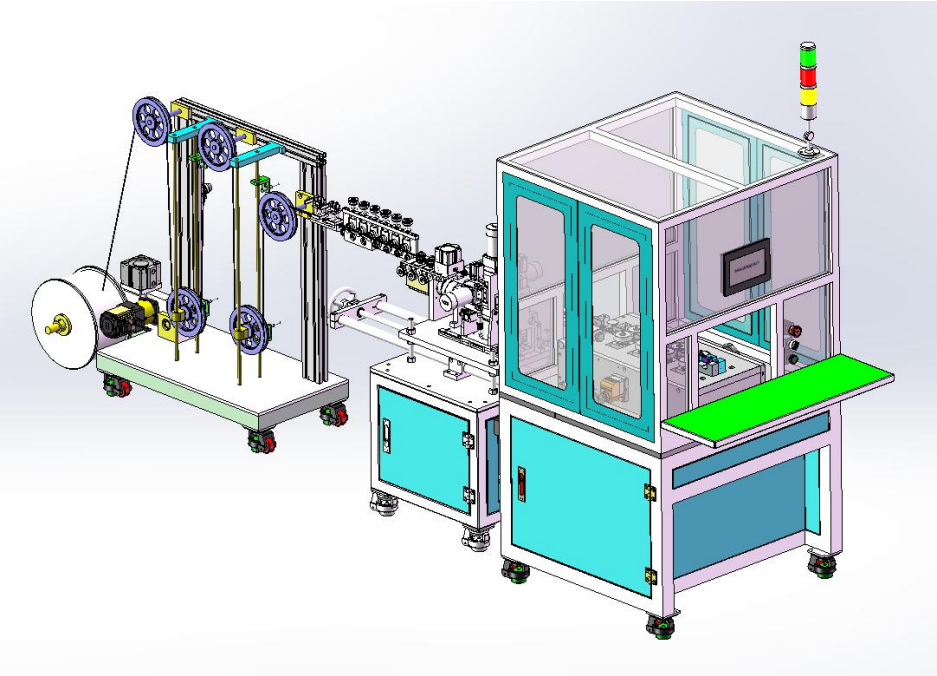
NAME：GW-YW112 PFC

Inductor Fully Automatic Flat Wire Winding Machine



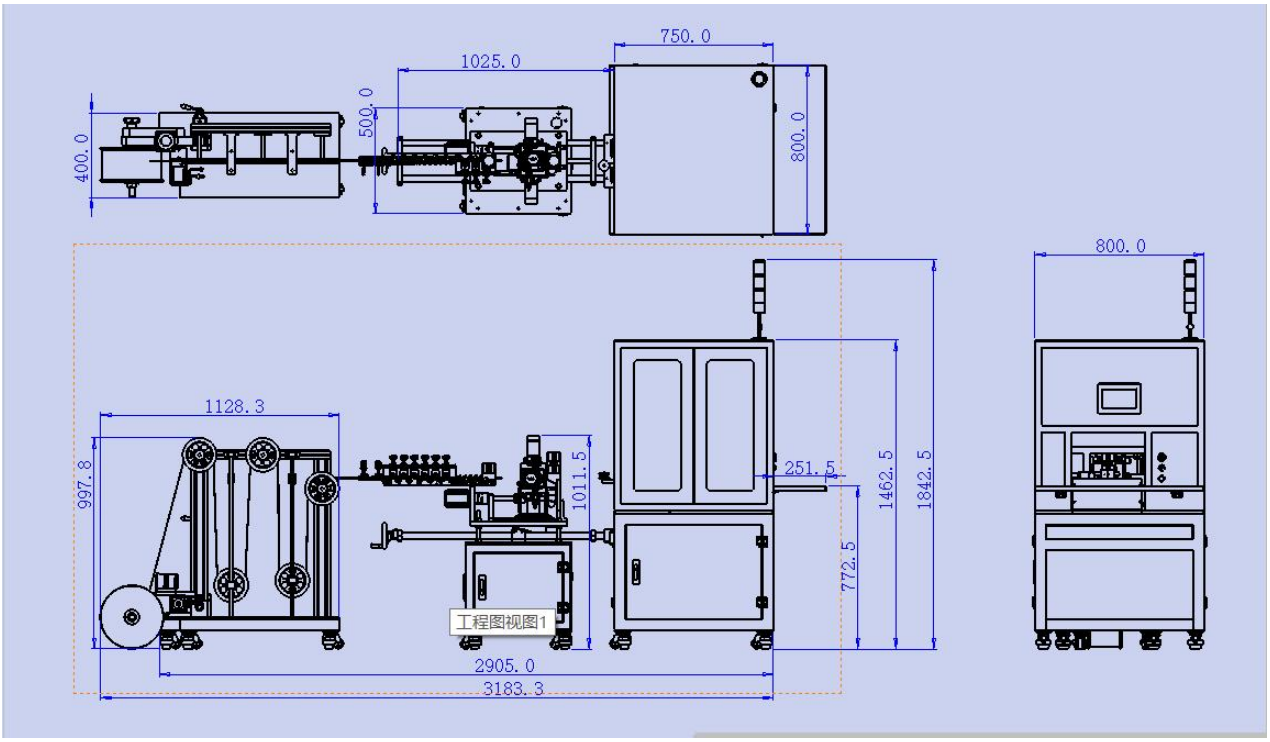
Equipment process flow：

1.Device name: PFC Inductor Fully Automatic Flat Wire Winding Machine



2. Equipment process flow: Automatic feeding of flat copper wire + On-line stripping (at both ends) + Automatic winding + Manual discharging.

Equipment layout



Flat Wire Vertical Winding Machine introduction

1) Overall information of the Common Mode Inductors Flat Wire Coil Winding Machine

1	Size (L*W*Ht)	L*W*H： 3183x800x1465 (The height of the operation counter is in line with ergonomic requirements (for employees to perform sitting tasks)) - An additional workbench should be placed beside the equipment to facilitate the operation of the employees. The dimensions of the servo wire feeding frame (length x width x height): 1128 x 400 x 997 The dimensions of the mechanical stripping machine (length x width x

		height): 1025 x 500 x 1011 The dimensions and weight of the PFC coil winding machine: 200kg; The weight of the mechanical skinning machine: 100kg; The weight of the wire feeding frame with servo: 100kg

2) **Equipment Configuration**

Item	name	device configuration	Qty	unit
1	PFC inductor winding machine	GW-YW112	1	set
2	Mechanical peeling machine	GW-001	1	set
3	servo wire feeding frame	GW-002	1	set
4	Fixtures	Tooling/fixtures	2	/set

3) **winding machine process capability**

	Model No	GW-YW112	
1	Wire width	≤5mm	
2	(mm)Wire thickness	0.4~1mm	
3	section surface	≤6mm2	
4	Diameter of the magnetic ring	≤64mm	
5	Diameter of the magnetic ring hole	≥6mm	
6	width-to-thickness ratio	<10:1	
7	Inner diameter of the coil	≥Six times the width of the line	
8	Maximum conveying speed	400mm/s	
9	percent of pass :	99%	
10	Winding speed	≥0.5s/1ts	
11	Internal lighting of the equipment	Yes	

4) **The brand of the components**

Item	type	Brand
1	PLC	Panasonic
2	Touch screen	xinjie (10 吋)
3	sensor	KEYENCE，OMORON
4	motor	Panasonic
5	Linear guides	TBI
6	bushings	NSK
7	bearing	NSK
8	breakers	Schneider
9	Intermediate relays	Idec
10	safety relay	Idec
11	Emergency stop	Idec
12	cylinder	SMC
13	pneumatic components	SMC
14	Quick connector	SMC
15	(FR)	SMC

5) **Technical requirements**

1) Fully automatic winding, without damaging the wire, the number of coils can be set, and

the number of coils is accurate.

2) Power supply: Single-phase AC 220V 50Hz (power cord configuration: 5 meters).

3) Air pressure: 5-6 kgf/cm2 (black piping, length 5 meters, the equipment comes with a filter regulator).

4) Total power: Startup power 3KW, working power 1KW.

5) Noise is below 70dB/m (test standard: measured at a height of 1.2m and a distance of 1m).

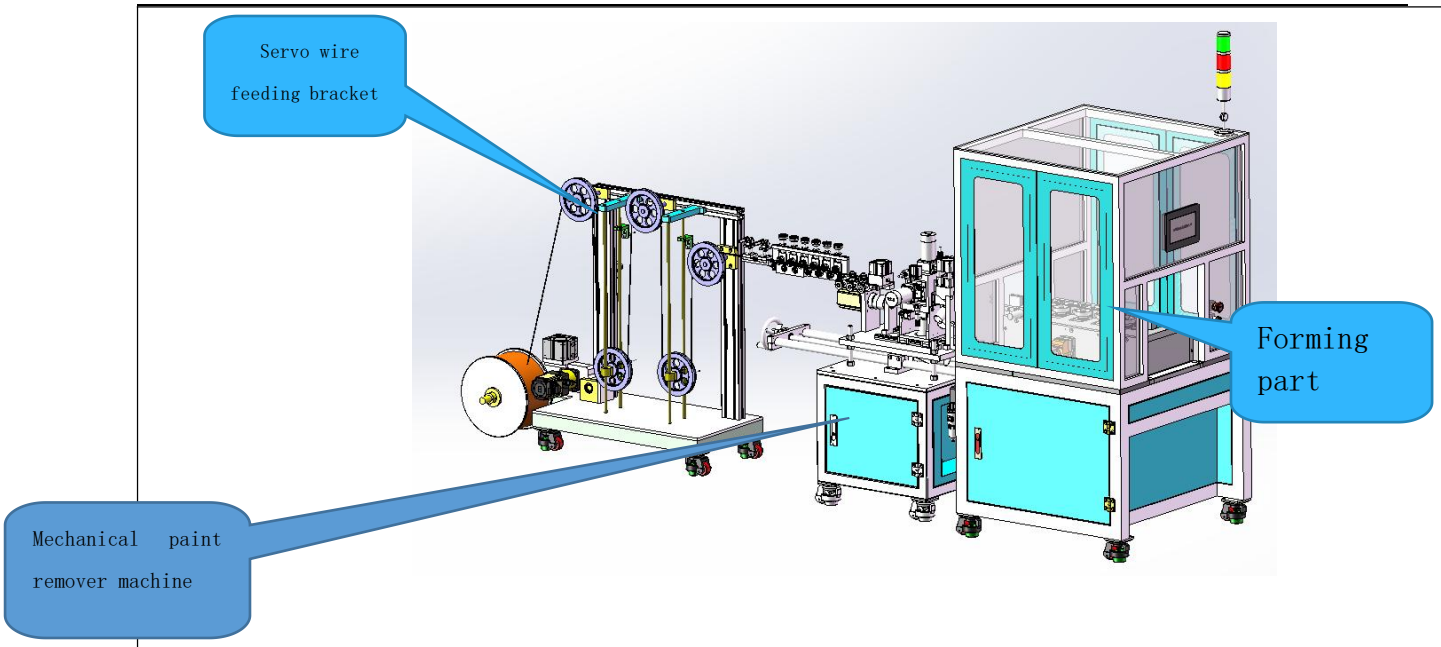
6) PLC can store at least 100 types of product programs.

7) In case of PLC damage due to electrical current, a non-voltage connection point (0V connection contact) needs to be reserved on the equipment.

8) Continuous operation for 10 hours. It is recommended to stop for at least 1 hour (the stop is a stop without winding).

一、Machine description

PFC coil winding machine

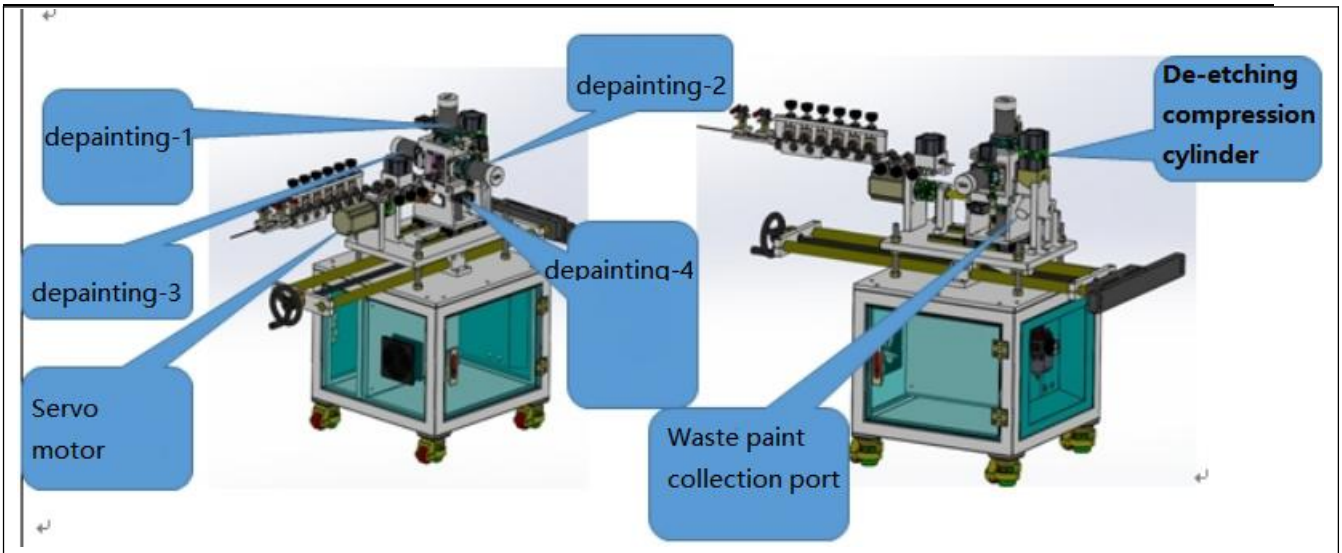


Note: 1) Air pressure monitoring. An alarm will be triggered if the air pressure does not meet the requirements. 2) No wire damage.

Note: The air filter is equipped with an automatic manual drain valve.

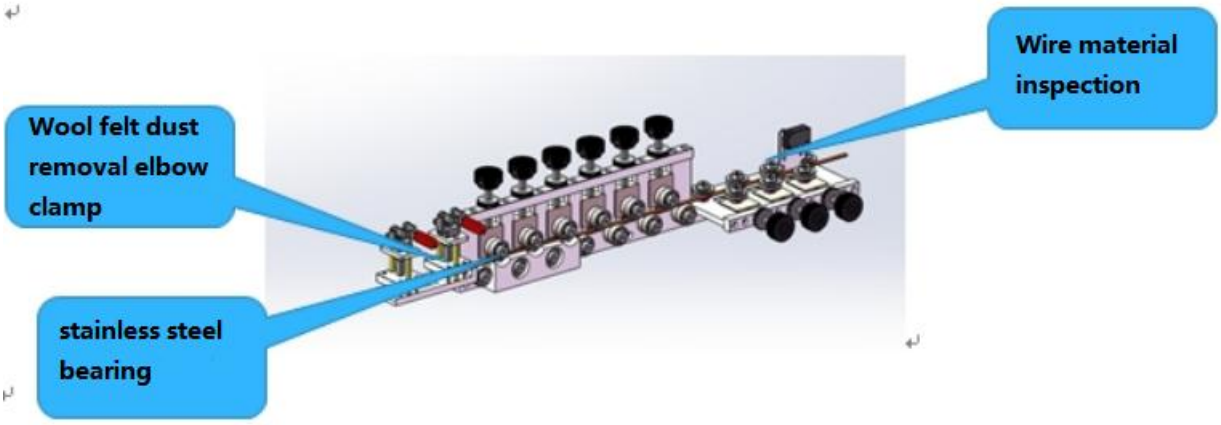
Note: The size accuracy of the forming mechanism (mold) is guaranteed within 0.1mm; the surface finish of the forming mold is within 0.8mm.

1) Mechanical stripping machine



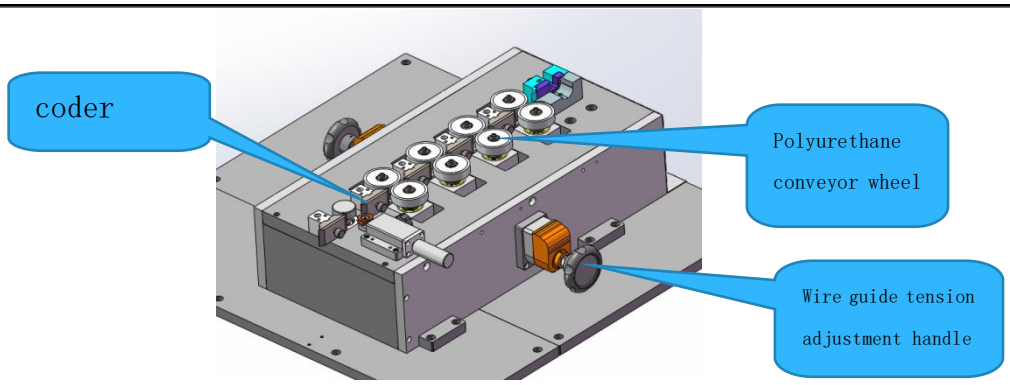
Note: 1) The peeling knife is easy to install and quick to replace; 2) The service life of the knife is over 140 hours; 3) There must be a collection device for the peeling film debris after peeling.

2) Over-winding mechanism ---- Built-in mechanism of the winding machine



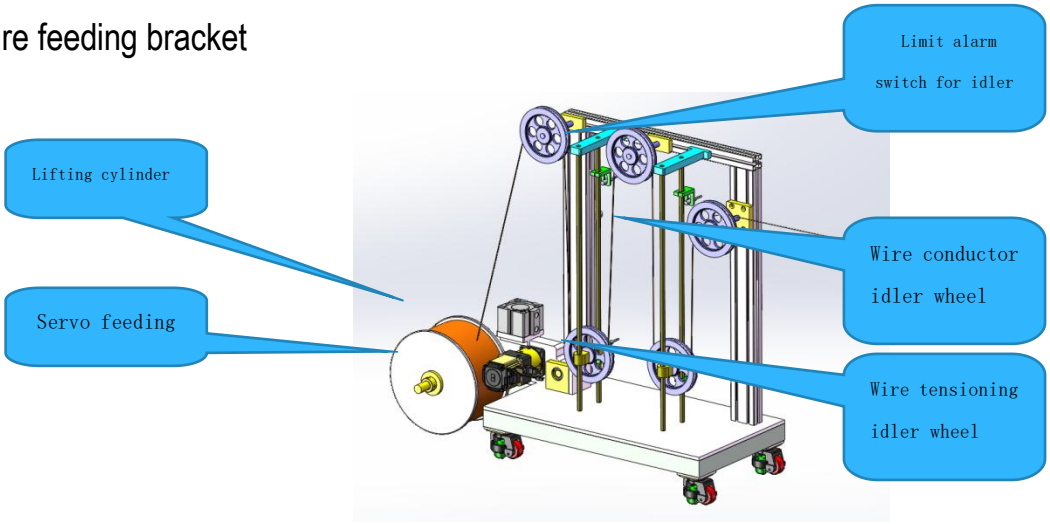
Note: 1) Made of materials that do not harm the surface paint of the wire or have high smoothness; 2) No wire damage is produced.

3)Wire feeding device - Internal mechanism of the wire laying frame



Note: 1) The precision of the roller-type wire feeding system ensures an error of within 100mm/0.3mm at the site; 2) No wire damage or skin breakage shall occur.

4) Servo wire feeding bracket



Note: 1) Roll-in type, no need to lift and place; 2) Fault alarm function for the wire rack (wireless and cable connection); 3) With tension control mechanism (counterweight control, providing different weights with different counterweights).

PRACTICAL APPLICATION :

TRAINNING CUSTOMER TO OPERATE WINDING MACHNE :

1.All service engineers with 10 years experience are gotten special technology training, who c an deal with various breakdown problem.

2.Guide the user to use accurately and how to maintain the PFC Inductor 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 PFC Inductor Winding

Machine, Package it with form and pack paper to guarantee unbroken during the transpot.

2.Wooden case package: PFC Inductor Winding Machine,we have special skilled carpenter, who would make the proper wooden case with exact thickness,density,length. The

up arrow ↑marked on the outer wooden case. Buffer material would be put in the wooden ca se to prevent crack and shock.



FACTORY:

We-GREWIN INDUSTRIAL GROUP is expert in winding machines lines for 28Years. Our Gre win have ISO9001:2015,CE approvals,Machines'Patents,"high-tech enterprises"by the gover nment.

GREWIN INDUSTRIAL GROUP CO.,LTD.
TEL/WhatsApp: +86 18622096679
Mail: admin@coilwindingmachinechina.com
Web:www.coilwindingmachinechina.com
WhatsApp
WeChat





GREWIN INDUSTRIAL GROUP CO.,LTD.
Add: The fouth floor A-A3 zone aviation business area,Dongli Distr,Tianjin,China.