



*OrbitWrap*

# 1-GPPW-1520 Wrapping Machine

Maintenance & Spare Parts Guide



**02 9452-3566**

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# 1-GPPW-1520 Quick Start Guide

## To select wrapping programs:

1. Turn on machine.
2. Should show 'Menu' on display, if not press **ESC** until Menu shows.
3. Press **2** on keypad to get 'Programs'.

## Up/Down - Auto Mode:

1. Once in 'Programs', press **1** on Keypad.
2. Press Green Button to start wrapping cycle.

## Manual Mode:

1. Once in 'Programs', Press **2** on Keypad.
2. Use **1** to start the turntable.
3. Use **2** to make the Film Carriage go up.
4. Use **3** to bring it down again.

## Up Only, Quick Wrap Mode:

1. Once in 'Programs', press **3** on Keypad.
2. Press green button to start wrapping cycle.
3. The film carriage will stop at the top and the cycle is complete. Cut the film.

## Top-Sheet Mode:

1. Once in 'programs', press **4** on Keypad.
2. Press green button to start wrapping cycle.
3. When the pallet has been wrapped at the bottom the film carriage will rise to the top of the Pallet and wrap it once and stop. Apply the top sheet now then press the Green Button again, The top sheet will be wrapped in and the machine will complete the cycle.

## Changing Program Parameters:

To change the amount of the top or bottom wraps press **ESC** until the Menu shows.

Press **1** which gets to Param set.

Press **1** again to get to Top Cycle.

Press **SET** until Top Cycle number is highlighted.

Select number of Top Cycles needed from the number pad on Keypad. Press **ENT** to confirm.

Press **ESC** to get back to the Param set. Press **2** to get to Bottom Cycle.

Press **ENT** until Bottom Cycle number is highlighted.

Select number of Bottom Cycles needed from the number pad on Keypad.

Press **ENT** to confirm.

Press **ESC** to get back to the Param set.

To change to number of times the Pallet is wrapped up + down press **3**

Press **SET** until the number of up + down cycles is highlighted.

Select number from the Number Pad on the Keypad.

Press **SET** to confirm.

Use **ESC** to get back to select Param.

Press **ESC** again to get back to Menu



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**The machine should only be operated by trained personnel.**

### **General Safety Regulations:**

Before using the machine or carrying out maintenance, read the following instructions carefully.

- Read the instructions about the machine (see part 1);
- Check all the safety guards on the machine and immediately replace any worn or broken parts with original spares;
- Make sure no tools or other objects have been left lying on the machine and that the machine itself is perfectly clean;
- Read the Use, Maintenance and Spare Parts Handbook very carefully;
- Read all the labels and plates applied to the machine.

During the use of the machine:

- Do not wear loose clothing;
- Wear appropriate Personal Protective Equipment and Footwear;
- Do not put hands inside the field of operation of the machine;
- Do not load the machine with boxes heavier than those recommended by the manufacturer.

After use of the machine:

- Turn the master switch to OFF to disable the machine.

### **Safety regulations for maintenance:**

Before using the machine or carrying out maintenance, read the following instructions carefully.

- Follow the maintenance regulations given in this handbook (see part 5);
- Never repair, lubricate or adjust the machine while it is in operation;
- Always turn off the power supply before opening the safety guards;
- Do not use any parts other than the originals without the written permission of Packline Solutions.
- Always use original spare parts.

### **Useful hints**

- Always use appropriate electrical connection systems;
- Do not remove or cover up the labels and plates on the machine;



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# INDEX

Part 1. Specification		
1.1	Description	Page 6
1.2	Machine technical data	Page 6
1.3	Film data	Page 6
Part 2. Preparing the Machine for Use		
2.1	Preliminary operations	Page 7
2.2	Machine identification number	Page 7
2.3	Space required for setting up the machine	Page 8
2.4	Safety	Page 9
2.5	Important warnings	Page 9
2.6	Installation of mast	Page 10
2.7	Fitting the film reel and threading the film	Page 11
2.8	Machine start-up	Page 13
2.9	Moving the machine	Page 14
Part 3. Adjustments		
3.1	Adjusting reel downstroke limit	Page 15
3.2	Disabling caution	Page 15
3.3	Troubleshooting Guide	Page 16
Part 4. Maintenance		
4.1	Maintenance	Page 20
Part 5. Parts List		
5.1	Parts List	Page 22
Part 6. Electrical Diagram		
6.1	Electrical Diagram	Page 28



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## Part 1. Specification

Operation can be mainly divided into the following phases:

1. Put the object together with its tray onto the turn plate;
2. Put the film around the surface of the object;
3. Start the machine and it will automatically wrap the object.

Machine technical data	OR-1000
Weight of the machine	550Kg
Approximate weight with packing	650Kg
Dimensions of the machine	L2250×W1500×H2400 mm
Installed power	1.0 KW
Noise	≤75DB
Surroundings	humidity≤98%, temperature -10°C~40°C
Rotation speed	0-6r/min, 0-9r/min, 0-12r/min
Power supply	3P, 380V, 50Hz

### Film Data:

The machine can use different types of film reel with the following dimensions (FIG1):

- a. Internal diameter of reel:  $\varnothing 50 \sim \varnothing 76 \text{mm}$
- b. External diameter of reel:  $\leq \varnothing 250 \text{mm}$
- c. Height of reel: 100~500mm
- d. Thickness of film: 17~35 $\mu\text{m}$ (standard)
- e. Extensible ratio: 100%~300%
- f. Weight of reel: approx. 17kg

The main types of film that can be used are:

- a. Single-sticking extensible film (FIG2, POS1)
- b. Double-sticking extensible film (FIG2, POS2)

For optimal protective seal & dynamic strength use Orbitwrap Stretch Film.

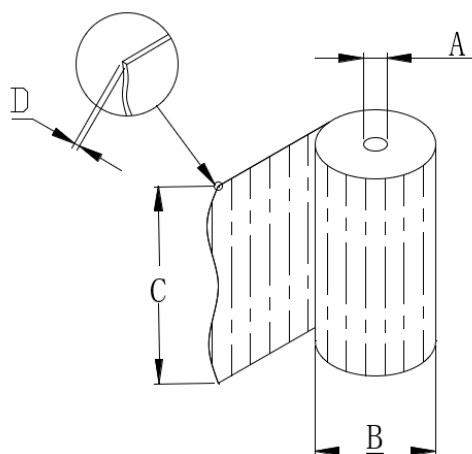


FIG-1

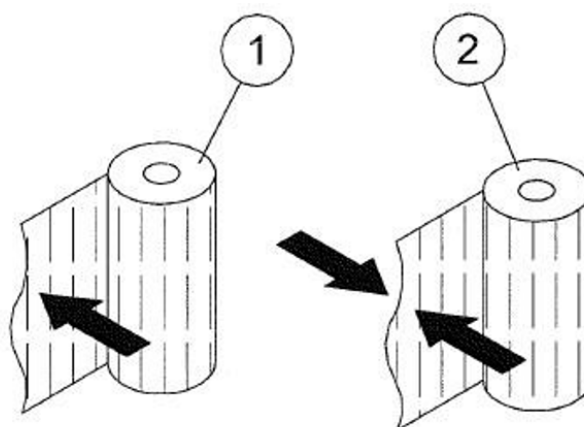


FIG-2

## Part 2. Preparing the Machine for Use

### Preliminary Options:

Appearance of the machine before being removed from its packing. The machine is packaged with steel and wooden crate.

After removing the machine from its packing, please check to ensure that:

- There are no loose parts left in the packing;
- All strings holding the parts of the machine in place have been removed;
- The machine corresponds to others that have been previously ordered;
- Use, maintenance and spare parts handbook with CE declaration;
- Spare tools parcel is included with the machine;
- Report any damage caused during transport.

### Machine identification number

When consulting the manufacturer always quote the serial number and the model (FIG2-1)


Type:	MH-FG-1000A	Supply:	380 V, 50 HZ
Year:		Phase:	Triphase
Serial number:		Rated power:	1000 W
		Net weight:	550 kg
		Max speed:	6/9/12 r/min

FIG2-1



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## Space Required for setting up the machine

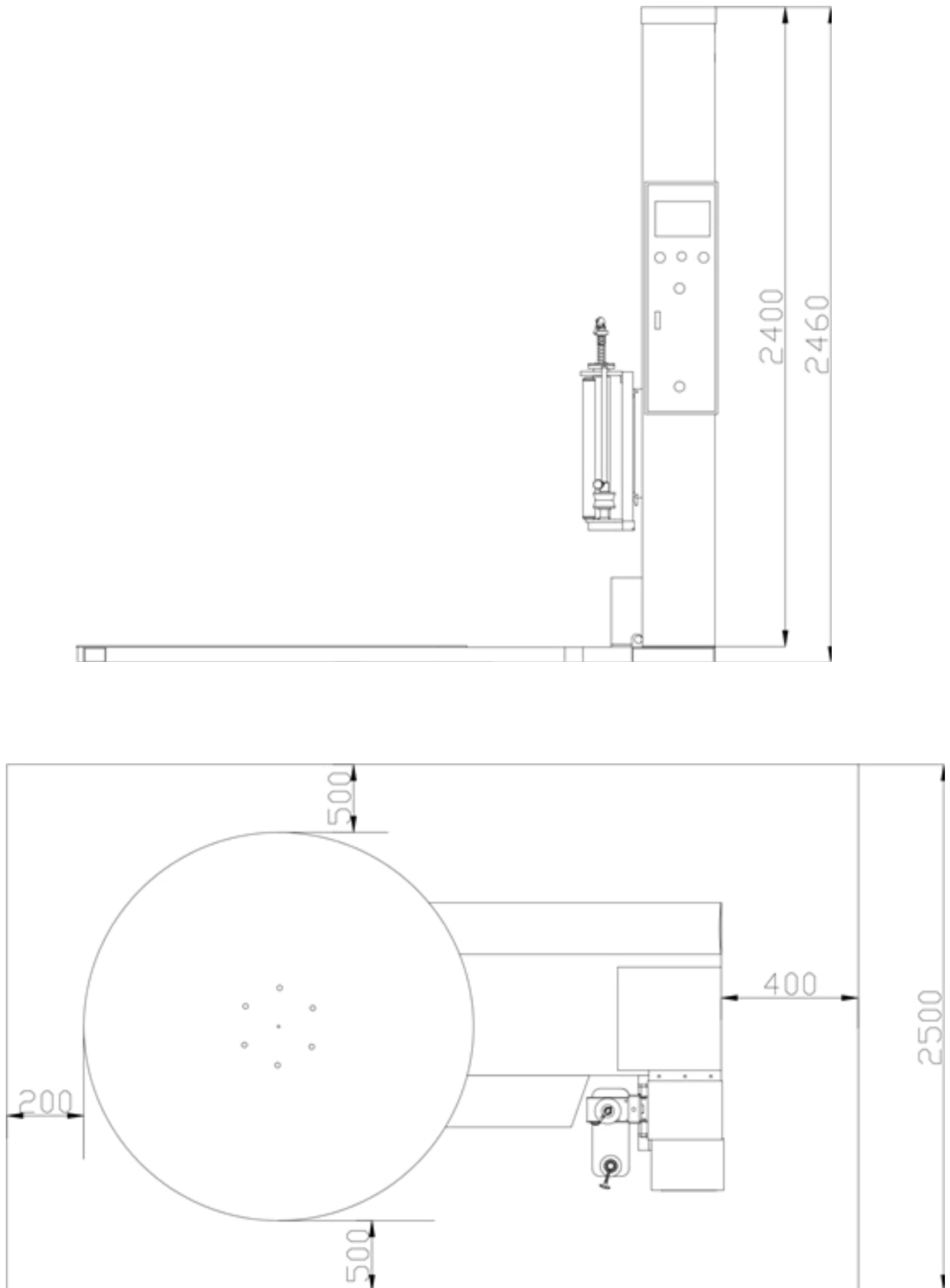


FIG2-2



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### Safety notice for machine operation:

1. Make sure the power is right, AC380V 3P is suitable for this machine, the double-color wire is ground wire for leakage protection;
2. Do not put your feet on the machine when it's running;
3. Do not install the machine on unstable ground;
4. Do not put the object which is to be wrapped on the edge of the turn plate;
5. Make sure to disconnect the power when finished;
6. Press EMERGENCY push button to disconnect motor power to make machine stop running in an emergency
7. Clean the machine once every day when not in use;
8. Do not tamper with electric equipment;
9. Only electrical technicians can inspect electric equipment;

### Warnings

This warning card must not be removed or replaced. It's used in the chain-wheel zone. There are two locations where this warning card is displayed, one is at the bottom of mast and the other is at the top of mast, see FIG2-3.



FIG2-3

This warning card is stuck on the turn plate. It indicates no one is permitted to stand on the turn plate when machine is running, see FIG2-4.



FIG2-4

Label1 and Label2 are stuck on the covering plate of chains. Label1 indicates no person permitted to stand on the covering plate; Label2 indicates the turn plate rotates at clockwise direction, see FIG2-5.

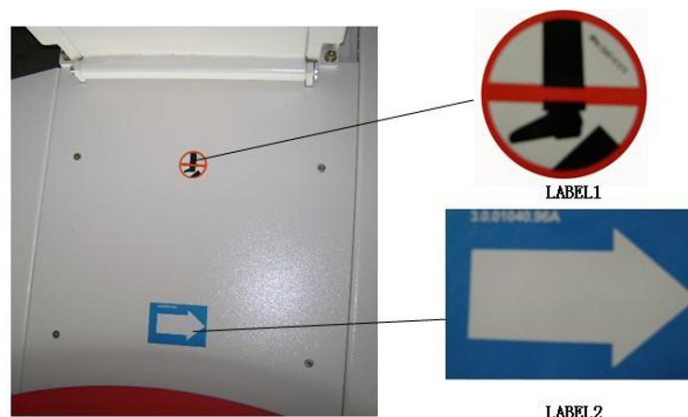


FIG2-5



### Installation of mast:

1. Use a crane (or forklift) to carry the machine out of the packing and place it onto the ground horizontally see FIG2-6;
2. Use the crane (or forklift) tool to raise the mast. While one person holds the mast vertical, the other person uses 6 M10 screws to fix the mast onto the proper position of the base unit see FIG2-7;
3. Fit the film lifting unit onto the relevant position of the upright mast and fasten using 4 M10 screws. See Fig 2-8;
4. Check to make sure that all screws are well fastened, then connect the power supply. Link the switch of electrical control box and check whether the power indicator lights up and whether the text screen displays. If not, check whether the plug for the text controller has fallen off.

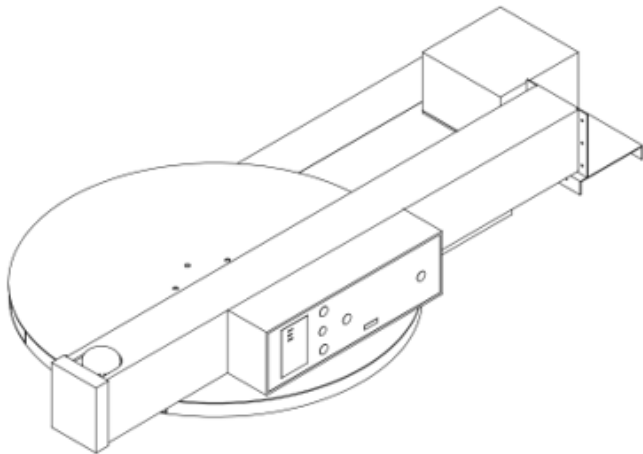


FIG2-6

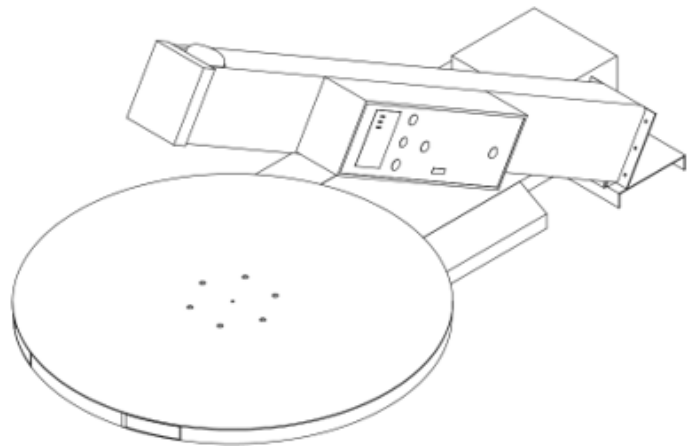


FIG2-7

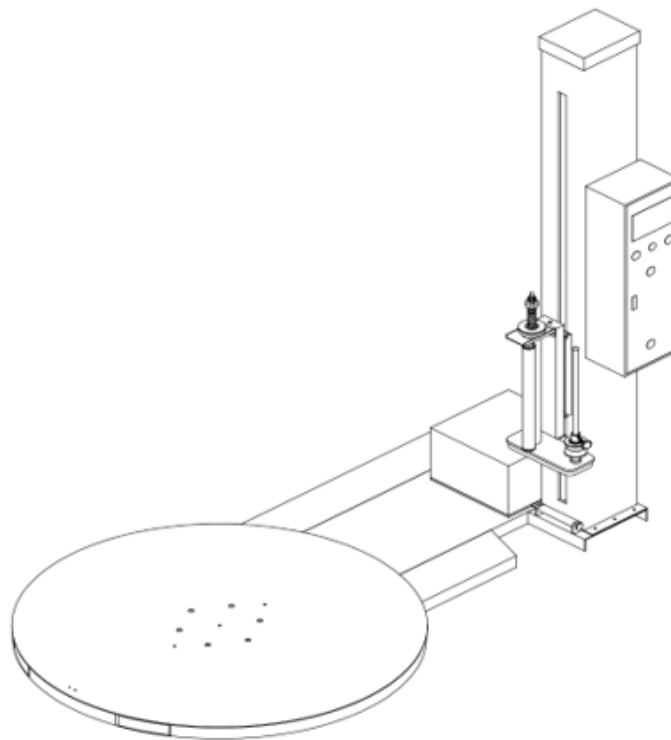


FIG2-8



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### Fitting the film reel:

1. As Fig. 2-9: loosen the handle screw and remove straining ring and upper positioning plate.
2. As Fig. 2-10: position the film reel on the reel-holder shaft.
3. As Fig. 2-11: install straining ring and upper positioning plate to tighten the film with screw (as Fig. 2-12).



FIG2-9



FIG2-10



FIG2-11



FIG2-12

### Threading film and adjusting film tension:

As shown in FIG2-13:

1. Turn the eccentric gear handle (1) to the position of icon 1 (the loosen direction which will be easy to thread film);
2. Pull the film from film shaft;
3. Go around anti-stretch roller (3);
4. Go around transition roller (4) stick the film to the object and pull down the eccentric handle. (1) onto the position of Icon2 (the tighten direction, which is the normal working state);

To adjust retardation force:

Turn the adjusting handle (2), and the indicator dog (5) will move at same time. The black block of indicator dog shows the retardation force. The bigger the black block, the higher the retardation force will be. When the block smaller, the retardation force will be less.



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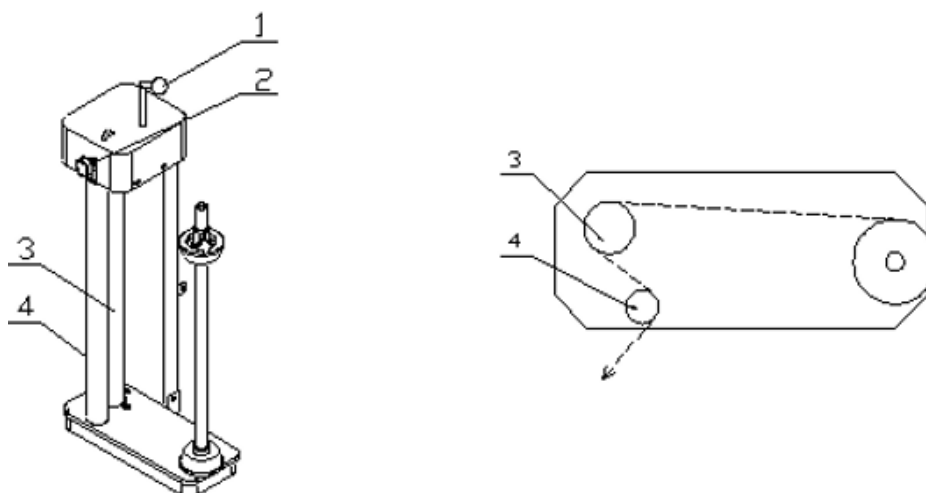
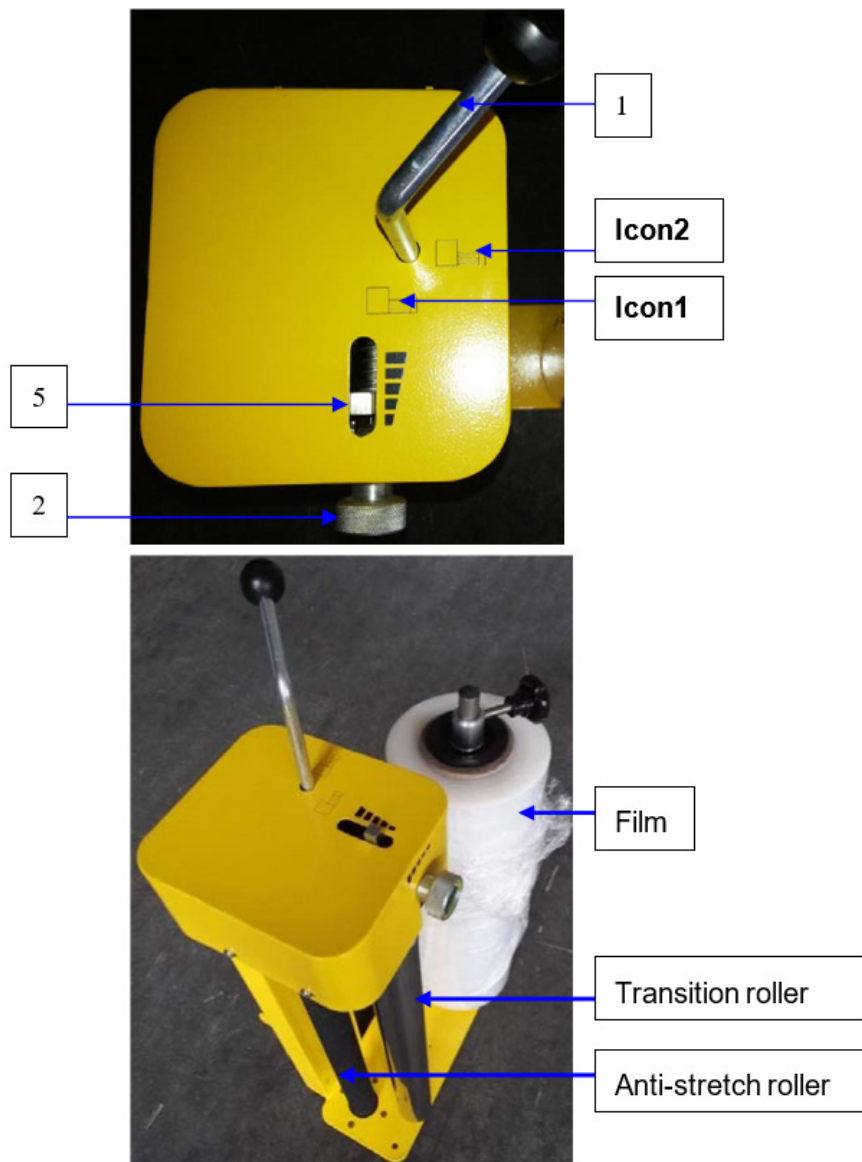


FIG2-13

Notice:

Pay attention when threading the single-sticking extensible film. Ensure it is threaded correctly so it can stick on the packaging.

### Machine Start up:

1. Location of the operator is shown as FIG2-14;
2. Turn the main switch to "ON";
3. Deactivate EMERGENCY by turning the knob clockwise
4. Press the button to supply the power circuit, and wait a few seconds for the power indicator to light
5. Press the RESET button for a few seconds
6. The OR-1000 is now ready for use.

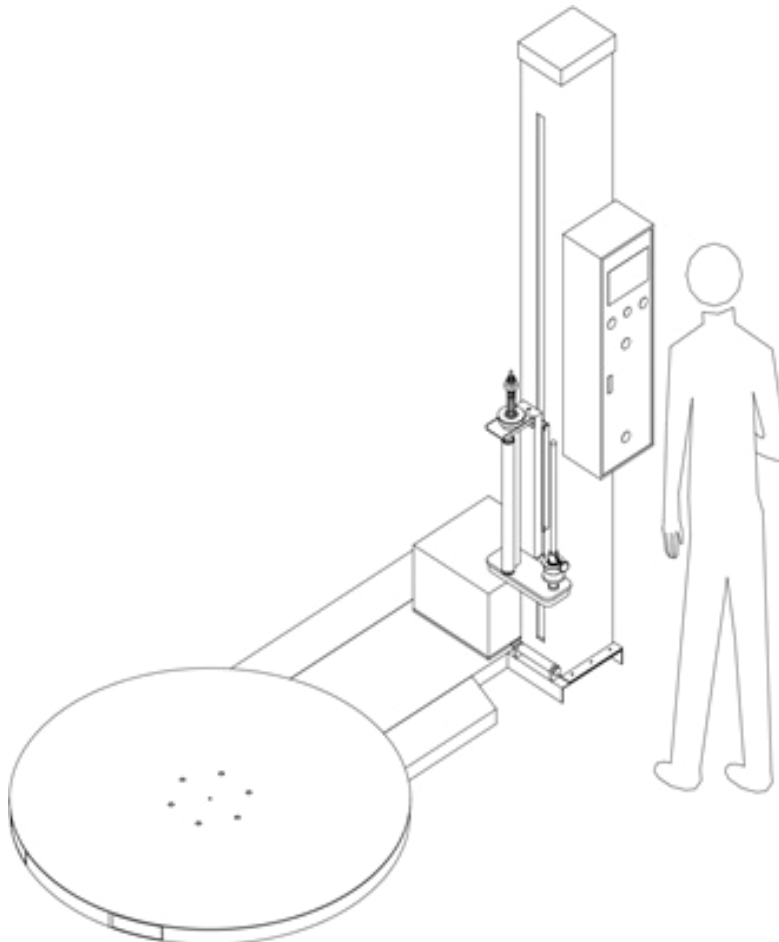


FIG2-14



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## Moving the machine:

Use forklift or crane to carry the machine see (FIG2-15)

- Insert the two forks of the forklift into the relevant slots in the machine see (FIG2-16), then the machine can be easily carried.

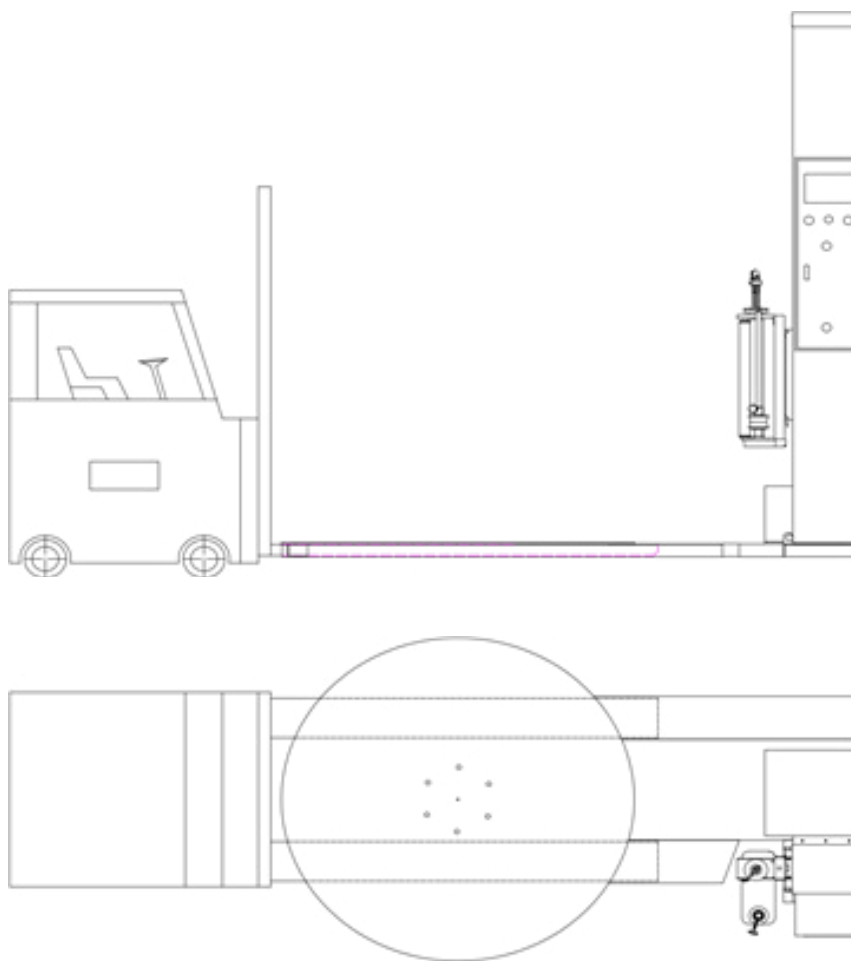
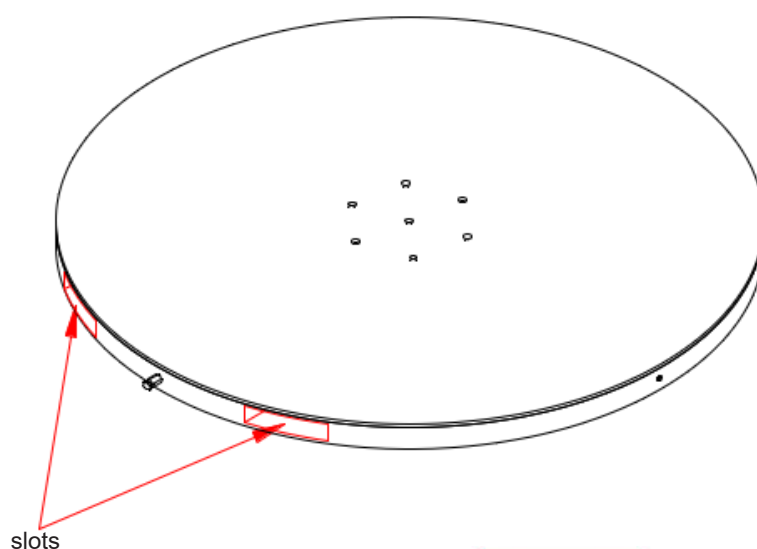


FIG2-15



slots

FIG2-16



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### Adjusting reel downstroke limit:

To limit reel-carrier downstroke, act as follows:

- Loosen screw nuts (FIG3-1 POS3)
- Slide the travel switch along the guide, upwards to shorten or downwards to lengthen stroke
- Tighten the loosened screws
- Screw (FIG3-1 POS2) can adjust the left and right touch point of travel switch
- Screw (FIG3-1 POS1), on the limit block, used for locating when replacing the travel switch

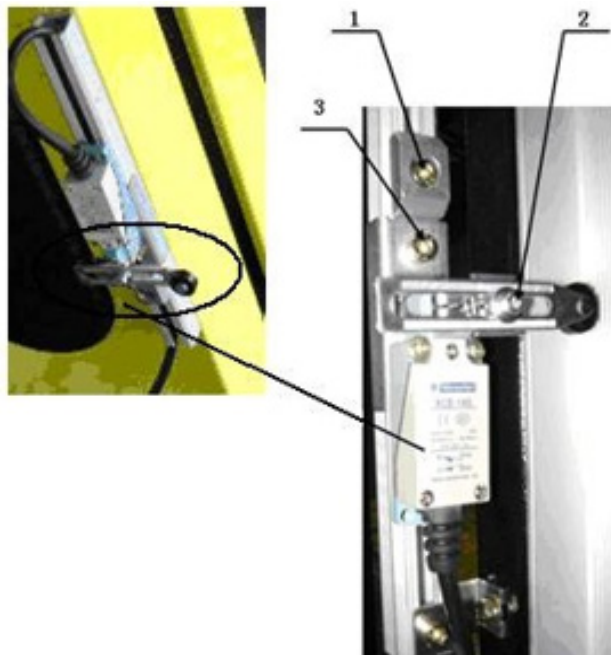


FIG3-1

### Disabling caution

Decommissioning and demolition must be carried out by staff specialized in electrics/pneumatics and mechanics. Before starting work, create around the machine a sufficiently large and clear space in order to allow operatives to work without additional risks created by the surrounding area.

To decommission the machine, proceed as follows:

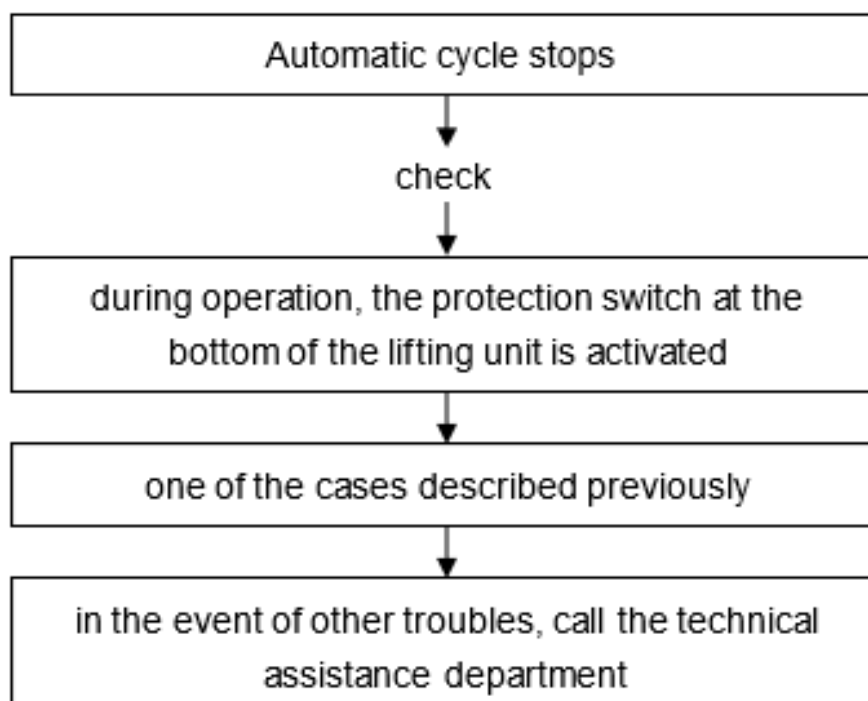
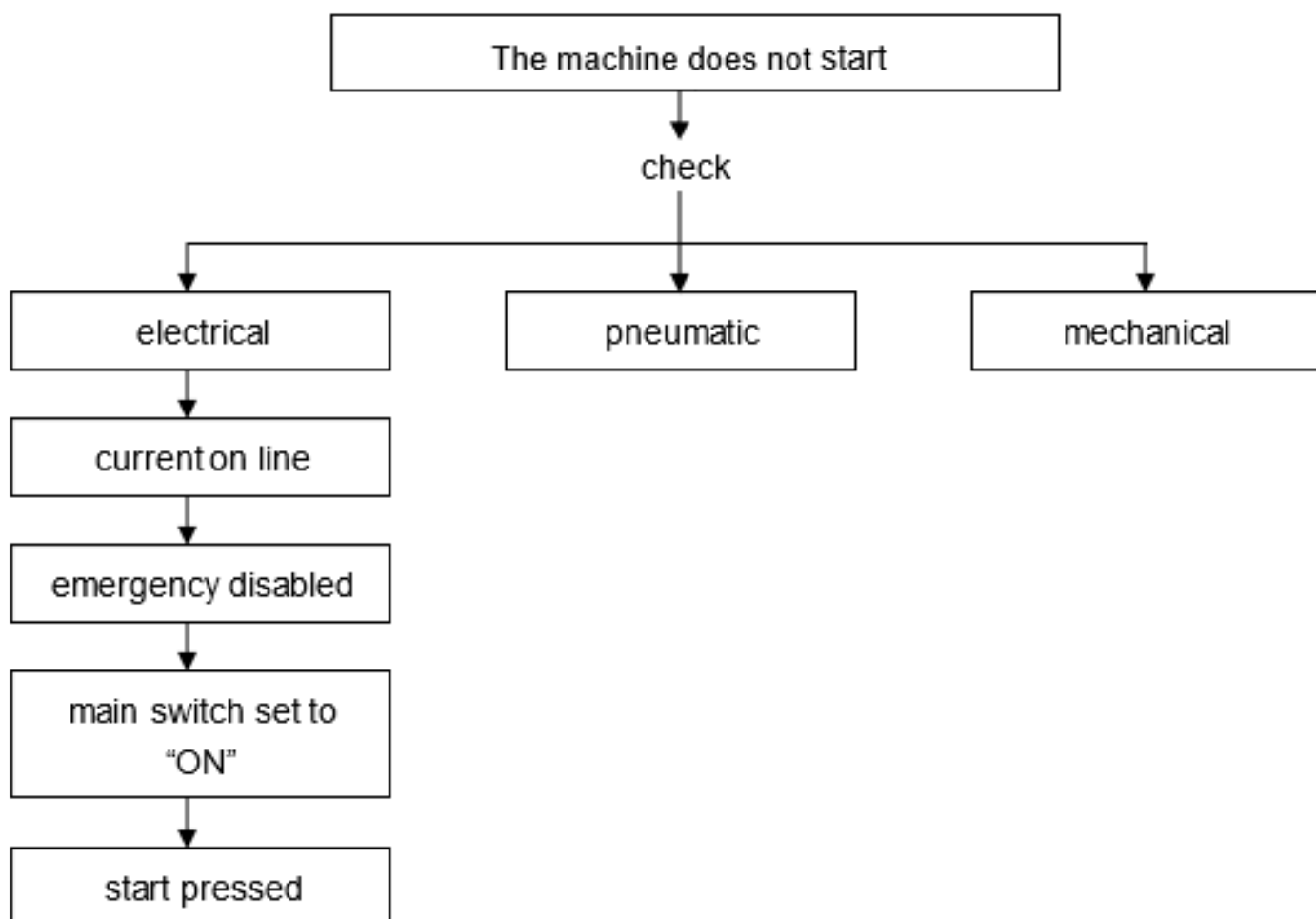
- Stop the machine
- Disconnect power by turning the main switch to "OFF"
- Remove inner electrical wire connected to the panel
- Loosen the four M10 screws
- Lay down the mast and place it on the base, backed with two wooden battens
- Prepare the machine for possible transport, clamping the mast and the moving parts

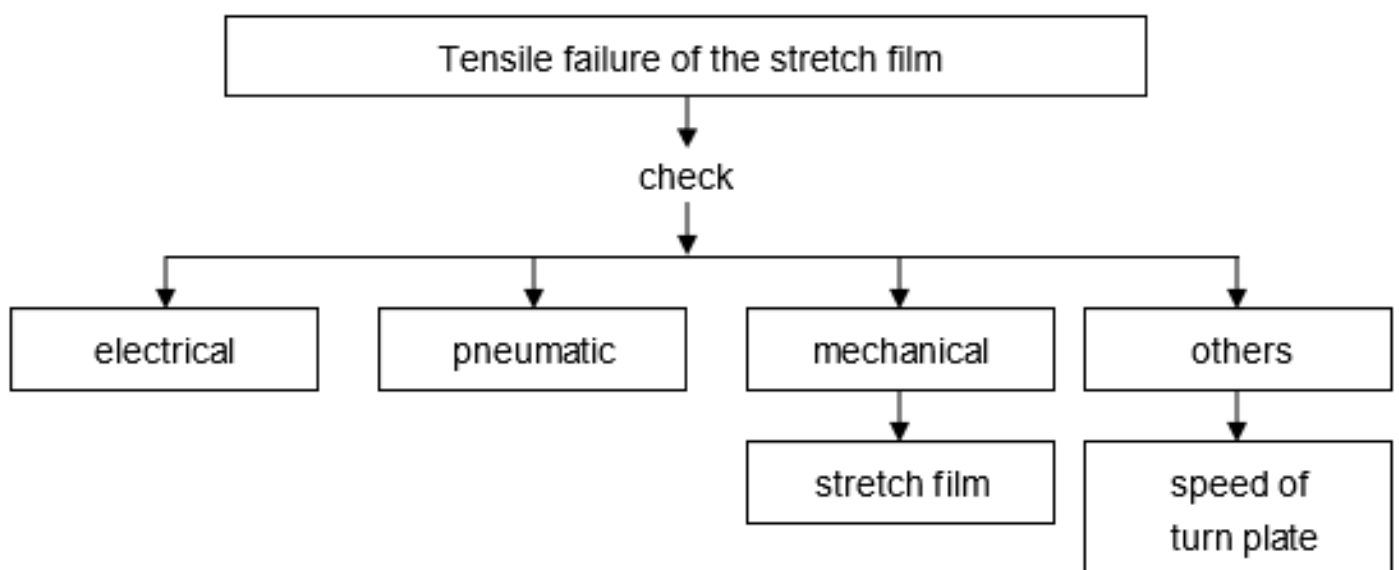
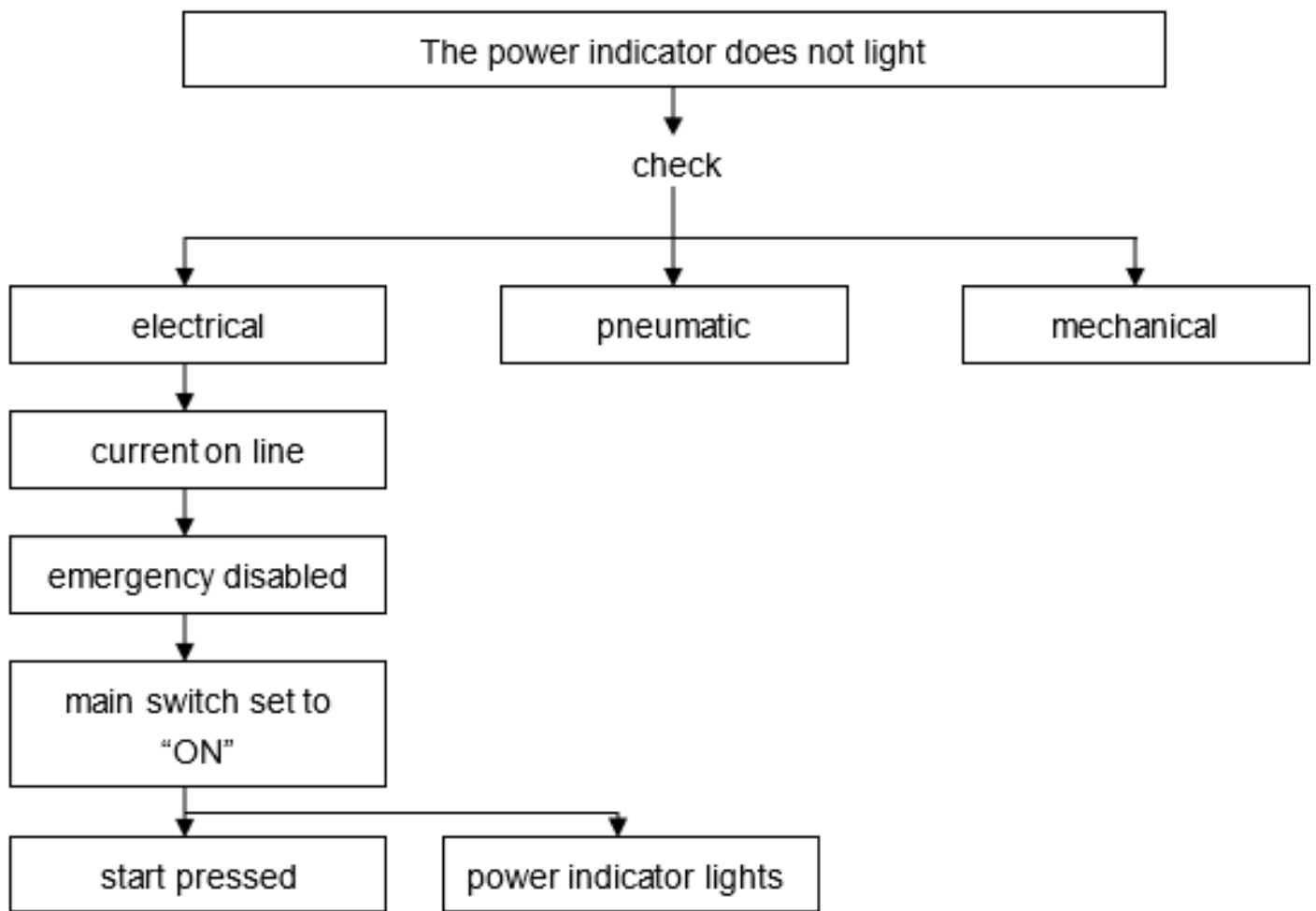
For possible demolition of the machine, repeat the same operations described for decommissioning:

- Separate various parts according to type (Metal, plastic, rubber etc.) and send them for selective waste collection

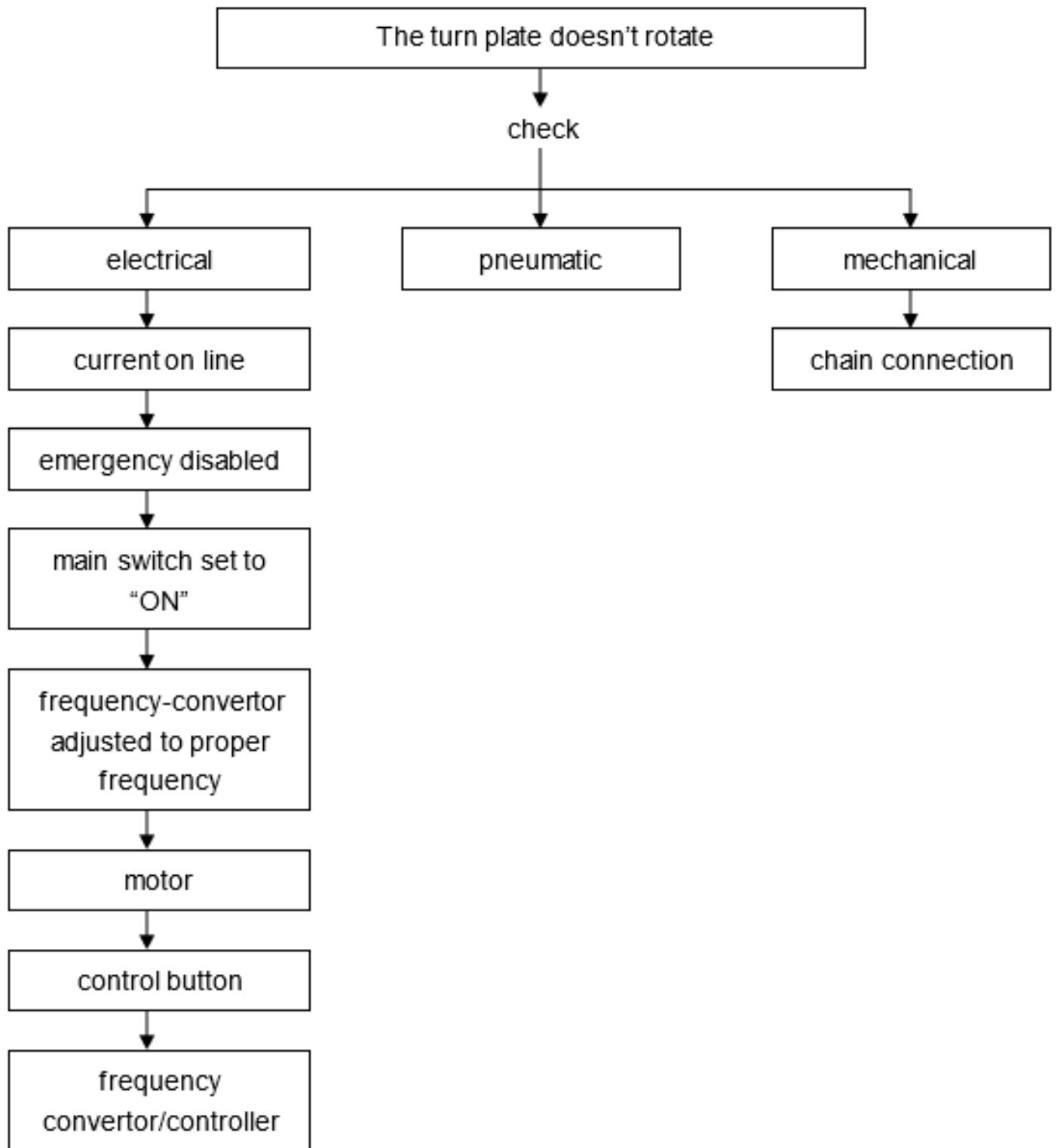
Note: in the event of demolition of the machine, the local laws must be observed.

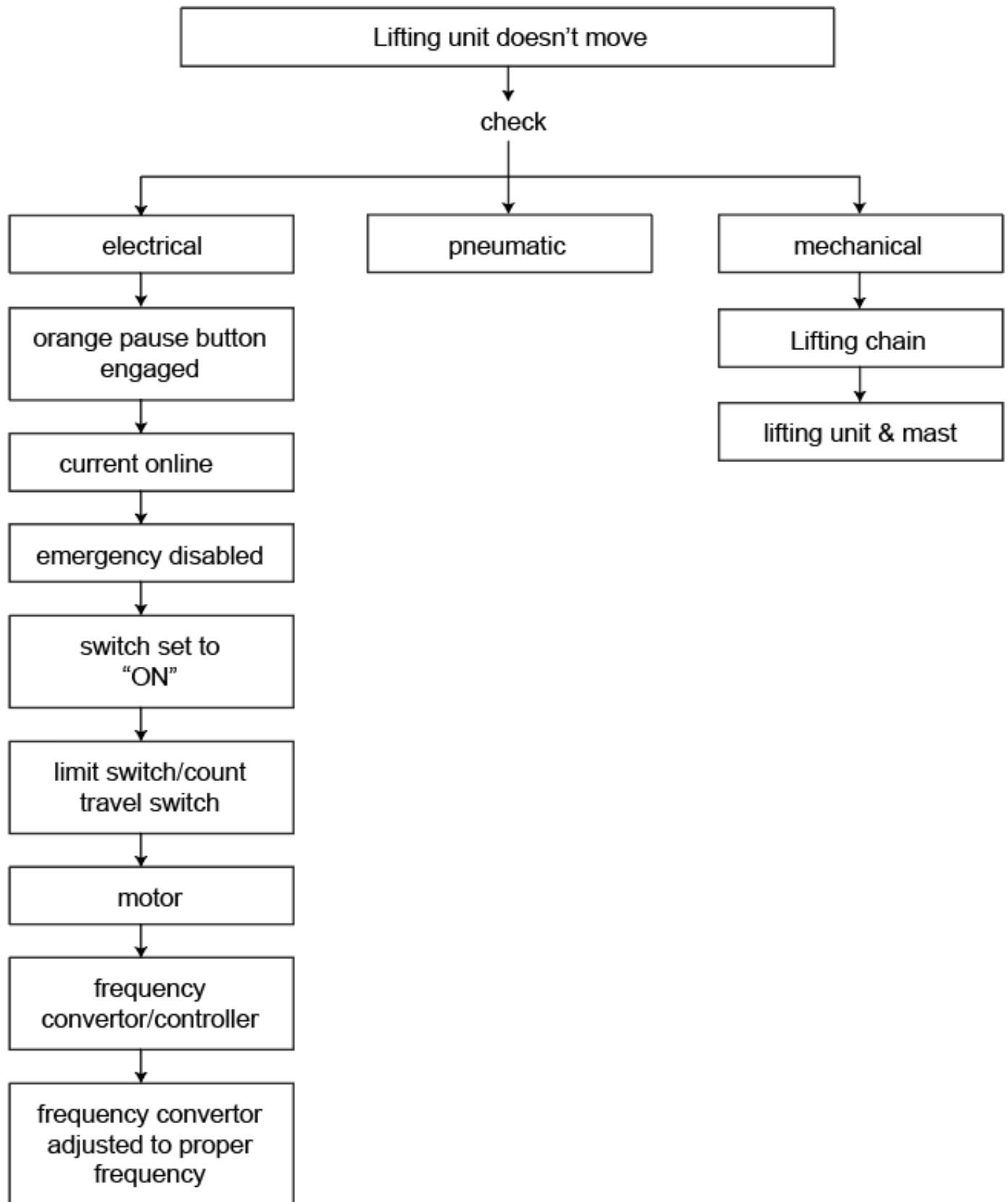
## Troubleshooting Guide:











### Routine Maintenance requirements:

Safety warnings for repairing:

1. Make sure that the main power is off.
2. Wear the appropriate PPE & Footwear when carrying out maintenance.

Periodic maintenance and cleaning:

1. Periodically check whether the screws of each part are not loose
2. Periodically lubricate the important parts of the machine
3. Keep clean the surface of the machine clean

Routine maintenance for the machine can extend its durability and avoid some troubles, thereby enhancing production efficiency. Periodically check the main parts of the machine (lifting frame chain, turn plate, etc.) The parts which need to be lubricated usually are as follows:

- Chain slider in the mast
  - Turn plate chain
1. Open the motor hood, carefully lubricate the chain(wheel)B with appropriate grease and brush the whole chain transmission with the grease. It is recommended to undertake maintenance once every three months.
  2. Lubricate the slide rail of the lifting unit (travel range of the slider A) with appropriated grease. It is recommended to undertake maintenance once a month.



FIG5-1

3. Open one cover plate between the turn plate and the mast (fixed by four screws) and carefully lubricate the transmission chain of the turn plate with appropriate grease and brush the whole chain transmission with the grease (FIG5-1). It is recommended to undertake maintenance once every three months.

If the diameter of the roller body under the turn plate (see figure below) is less than 53mm or noise abnormal, replace the whole roller.

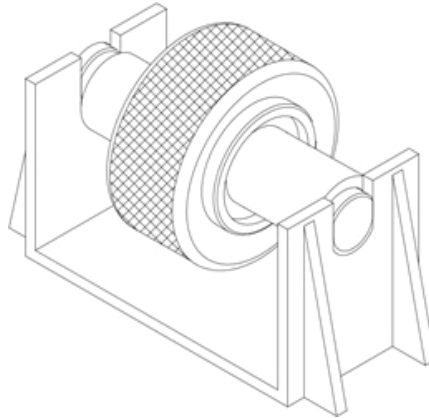


FIG5-2

**Caution:**

Please replace the old parts following correct order shown in figures. To avoid possible trouble or damage, please use original spare parts.

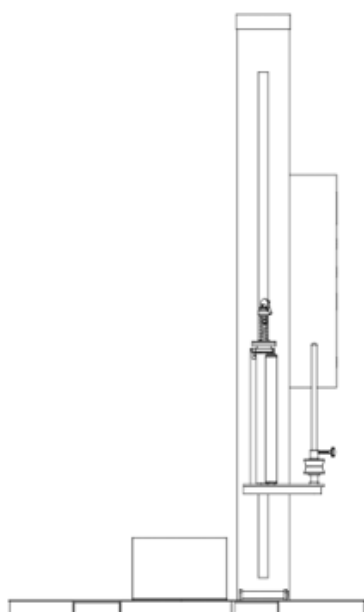
**Attention:**

All maintenance work should be processed by professional personnel under the condition that all power supply and air pressure devices are disconnected.

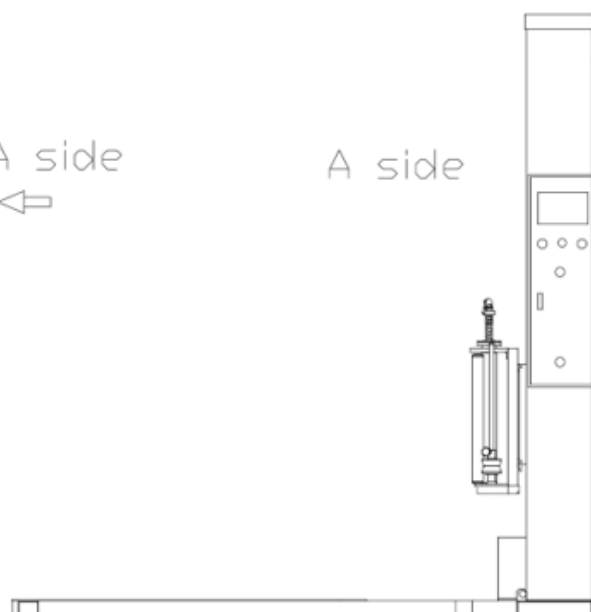


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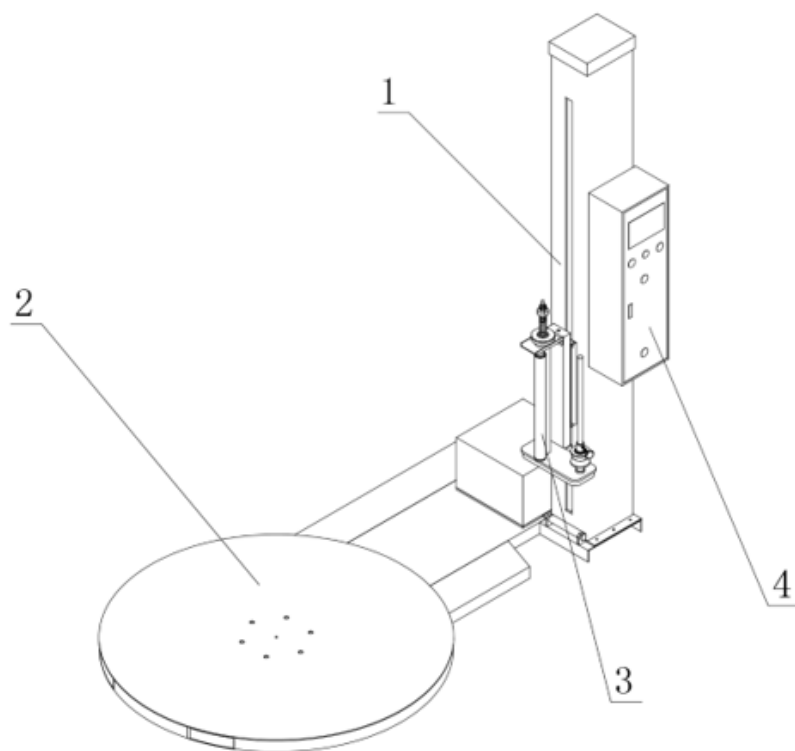
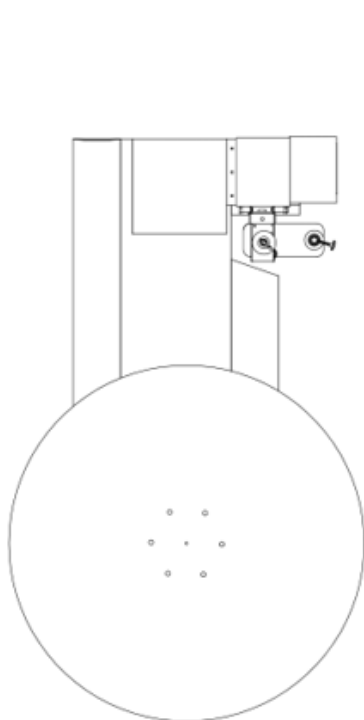
## Part 5. Parts List



A side  
←

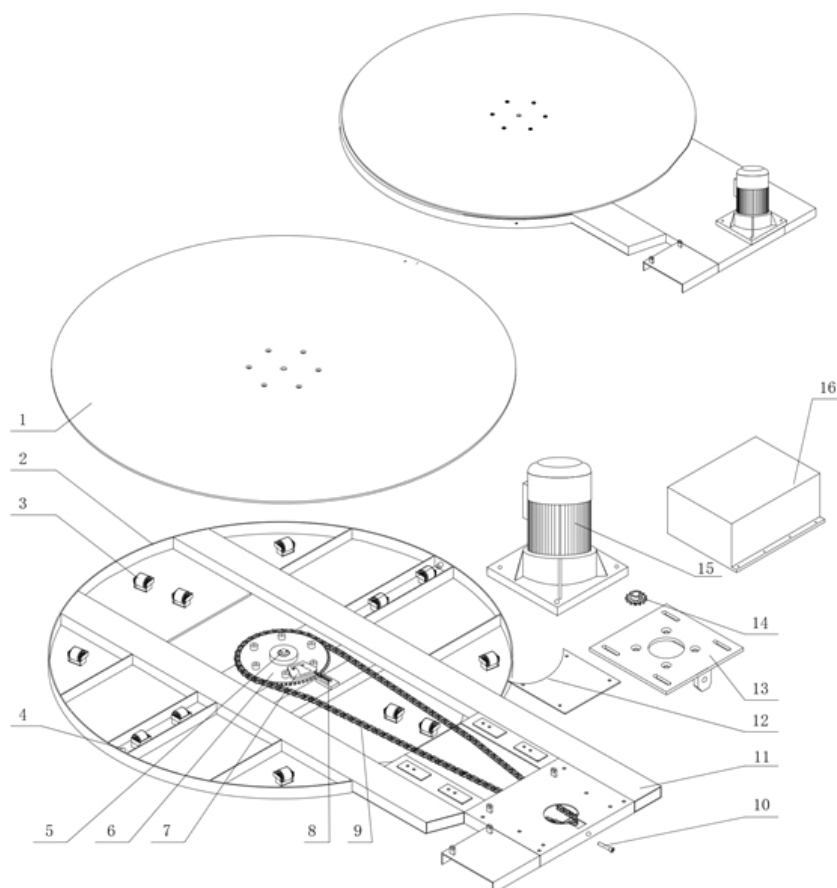


A side



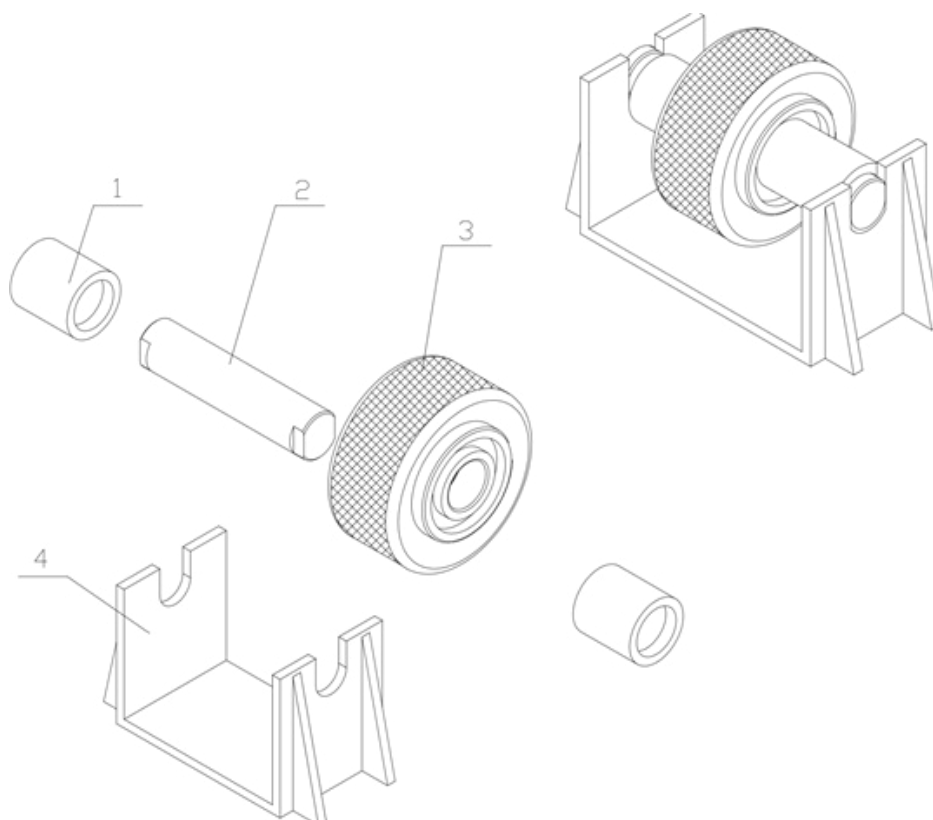
No.	Description
1	Mast unit
2	Base unit
3	Lifting combination
4	Electric box

## Base Unit:



No.	Description	Code	Quantity
1	Turn plate	FG-023	1
2	Base	FG-7000	1
3	Roller combination	FG-013A	12
4	Nut	FG-7000-13	4
5	Central axis	FG-7000-5	1
6	Big chain-wheel	FG-008	1
7	Travel switch touch block 1	FG-009	1
8	Count travel switch	TZ-918	1
9	Chain	12A	1
10	Main motor adjusting screw	M10X50	1
11	Cover plate 1	FG-7002	1
12	Cover plate 2	FG-7003	1
13	Main motor base	FG-005	1
14	Main turntable chain-wheel	FG-022	1
15	Turn plate motor	CV750-30S	1
16	Cover	FG-335	1

## Roller combination:

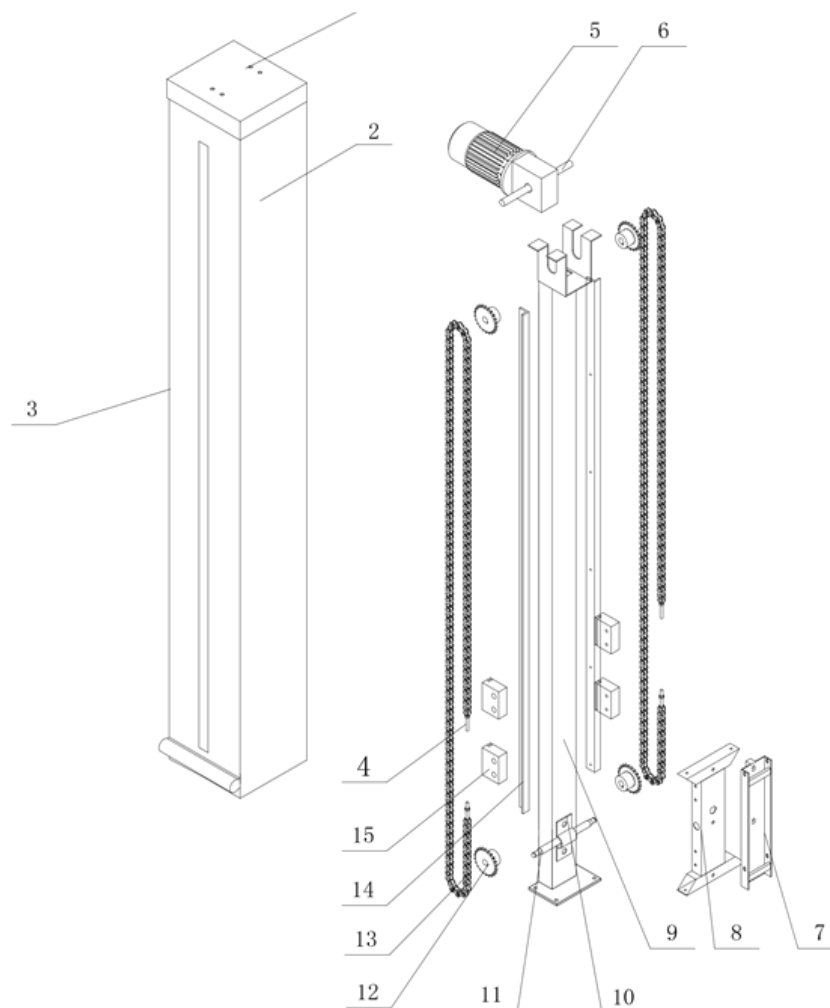


No.	Description	Code	Quantity
1	Space ring	FG-015A L=23	2
2	Roller shaft	FG-014A	1
3	Roller body	FG-013A	1
4	Roller stand	FG-7000-19	1



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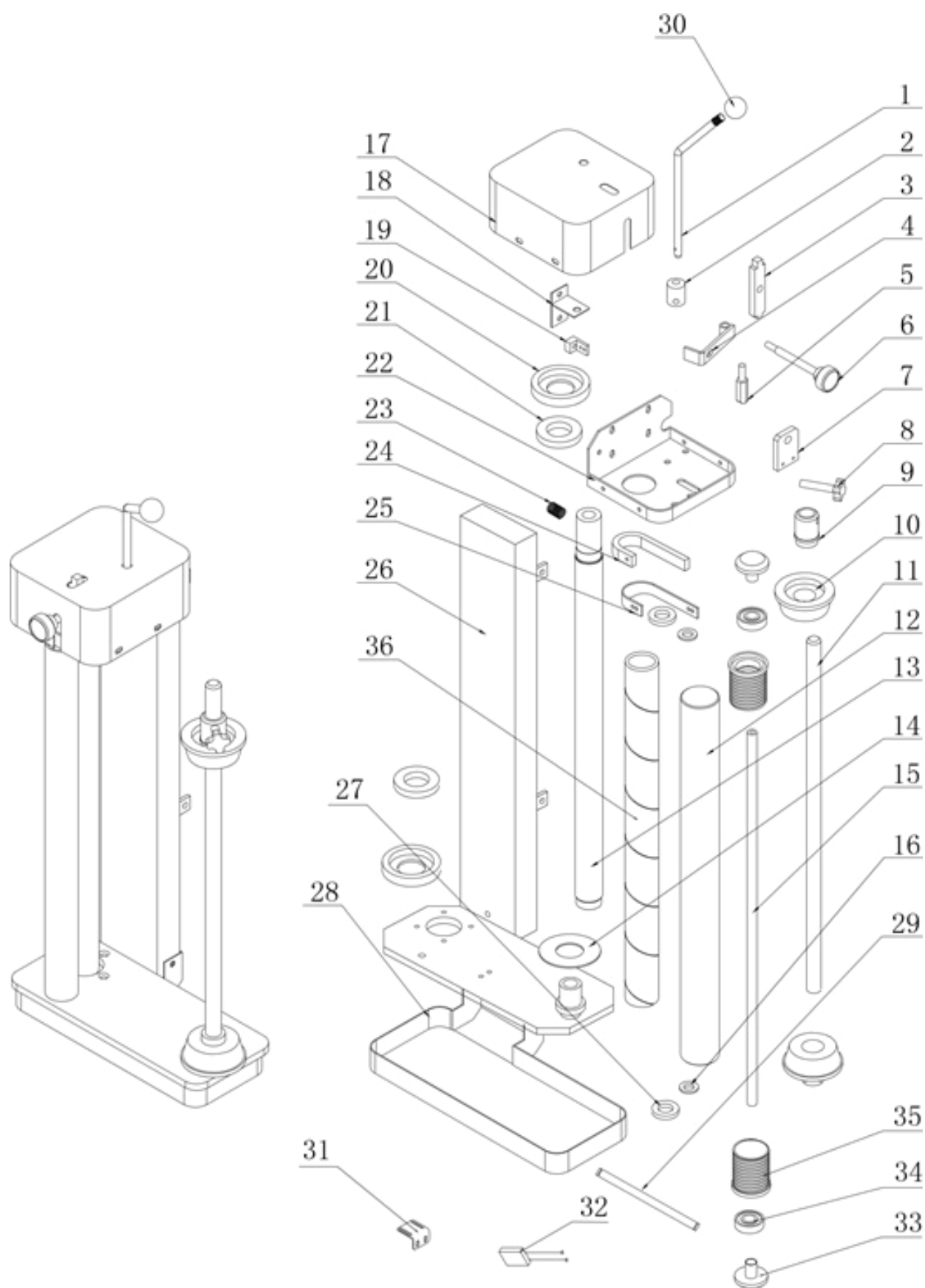
## Mast Unit:



No.	Description	Code	Quantity
1	Mast top cover	FG-322	1
2	Mast	FG-320	1
3	Photoelectric switch	RLK-31-8-2500	2
4	Chain adjusting screw	FG-065	4
5	Lifting motor		1
6	Motor shaft	FG-058	1
7	Transition frame	FG-075A	1
8	Lifting frame	FG-066	1
9	Lifting fixture	FG-055	11
10	Driven-shaft fixing buckle	FG-064	1
11	Driven shaft	FG-059	1
12	Driven sprocket	FG-061	2
13	Chain	FG-08B	2
14	Slide track	FG-057	1
15	Slide block	FG-069	4



**Roller combination:**



No.	Description	Code	Quantity
1	Handle	FG-164A	1
2	Eccentric Wheel	FG-163	1
3	Indicates Block	FG-167	1
4	Tensioning Block	FG-161	1
5	Tensioning Block Driven Shaft	FG-162	1
6	Adjusting Handle	FG-158	1
7	Screw Bolt Fixed Block	FG-159	1
8	Fastening Screw	M10	1
9	Straining Ring	FG-138A	1
10	Film-locating Plate	FG-135A	2
11	Film Shaft	FG-134	1
12	Roller	FG-153II	1
13	Anti-stretch Shaft	FG-152	1
14	Locating Pallet	FG-2526	1
15	Transition Roller	FG-154II	1
16	Stop Ring	FG-155	2
17	Anti-stretch Cover	FG-157	1
18	Eccentric Wheel Fixation frame	FG-165A	1
19	Trimming Block	FG-168	1
20	Bearing Block	FG-156	1
21	Bearing	16007	2
22	Upper Cover	FG-151	1
23	Spring	FG-160	1
24	Belt	M-L105	1
25	Anti-stretch Belt Steel Ring	FG-239	1
26	Lifting Body	FG-150	1
27	Bearing	61904	2
28	Protection Frame	FG-170A	1
29	Protection Frame Shaft	FG-141	1
30	Internal Thread Ball	M8	1
31	Micro Switch Frame	1060.180.1.PL	1
32	Micro Switch	MQS-216	1
33	Transition Roller Outside Ender Cap	A50-106.1	2
34	Bearing	6002	2
35	Transition Roller Inner Ender Cap	A50	2
36	Rough Surface Belt		1

## 28



