Pallet dispenser pallet magazine pallet slip sheet dispenser pallet top slip sheet dispenser L3P fully automatic Pallet rotary arm wrapper with top presser

User manual

Dear user:

Thanks for buying our products. Please be sure to read this manual carefully before using, so as to give a full play of its excellent performance. Please follow the security precautions and strictly operate the machine according to the technical parameters. If there is any question, please get contact with us in time, We will offer dedicated service to you.

Please preserve the manual and relevant technical files so that you may read it at anytime when necessary.

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-, PRECAUTIONS FOR USE

1.1, use environment

- 1. Place: indoor
- 2. Temperature: -0~50℃
- 3. Relative humidity: $35 \sim 85\%$ RH (no condensation)while using

4. Environment: keep out of direct sunlight, dust, corrosive gas, flammable gas, oil fog, steam and water-drop. Avoid salt heavy environment, no sharply temperature change result in condensation.

Attention: If the goods is black, white, transparent, dark or used in strong light, the photo sensor will be out of work, use something to cover the photo sensor, and use the position packing function of travel switch to pack, or you can also contact the manufacturer.

1.2, Security precautions

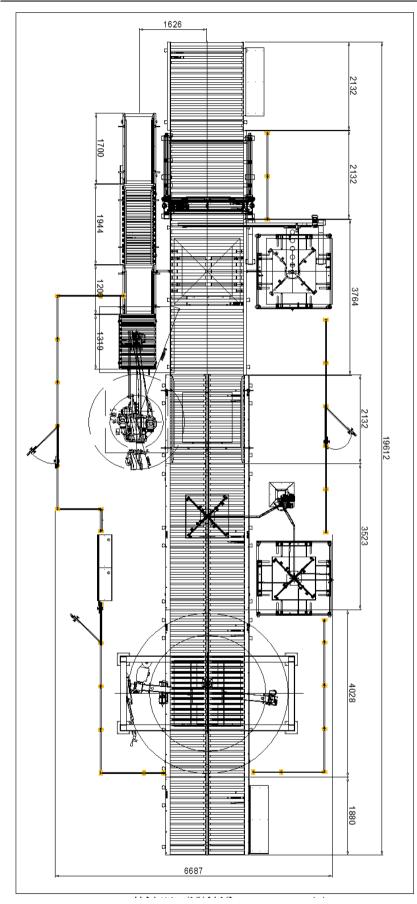
Please read this manual before installation, operation, maintenance, and check, so as to use it properly for a long time.

- 1) Please pay attention to the lifting of machine chassis and column during installation.
- 2) Since the column is relatively high and heavy, any careless of fix may cause damage to people, so please be very careful during machine transmission and installation,
- 3) The connection of electrical circuit should be carried out by professional electrician.
- 4) Make sure that all screws have been fixed before wiring, the outer wiring of the machine should be done firstly, connect the main power cord after accurate measurement.



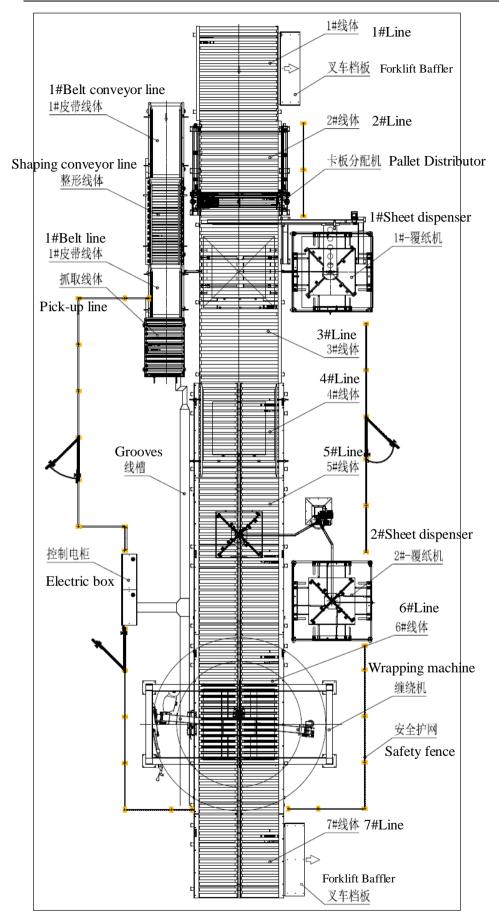
2.1, Machine dimension

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2.2 Parts name of the machine

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Ξ Technical parameters

Cantilever type wrapping machine (film feeding & cutting device) Work system: PLC+touch screen+inverter Goods size: L1200-1600 * W1200-1600 * H2000mm Max Goods weight: 3500kg Max Packing efficiency: 20-30/hour Cantilever speed: 0-18 circle/min Film carriage type: pre-stretch film carriage Auto feeding film, cutting film and wiping film (cylinder) Height of rotating platform: 640mm Conveying type: roller conveyor Conveying speed: 8-15M/min Dimensions of roller: 3.5*76*1750mm Roller wheelbase: 126.4mm Packing material: stretch film: \$\$200mm width 500, inner core \$\$76mm; Method of cutting film: heater Method of wiping film: heater Air source: 0.4-0.6Mpa Power supply: 3P 5 wires AC380V /50Hz Power: 40.0kw

四、Machine handling & installation

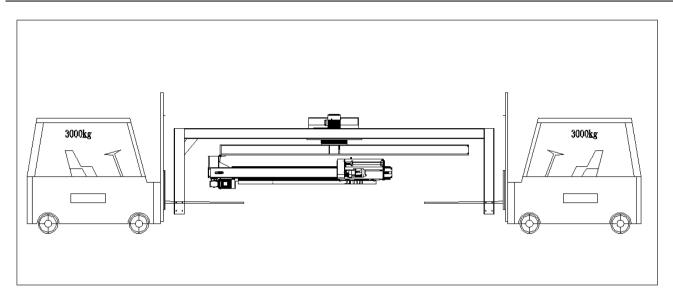
4.1 security precaution of machine handling

- 1) please pay attention not to get crashed with other object.
- 2) While use forklift to handle the machine, make sure to get the forklift to the 2/3 length of the frame, and do not rise it too high.

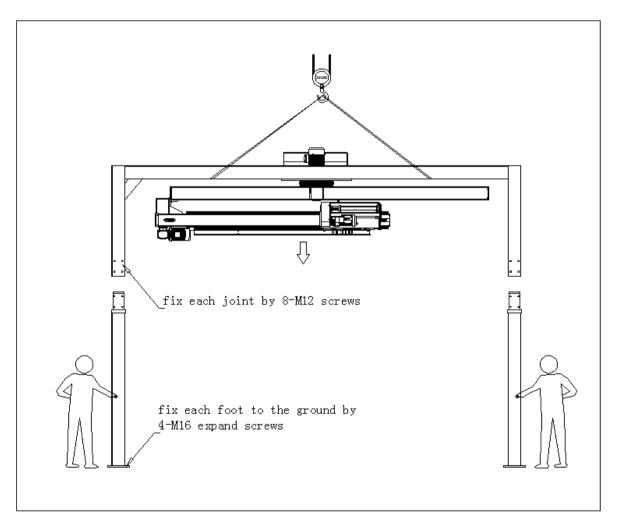
4.2 handling method

Picture 1:

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Picture 2:



\pm . Machine starting up and debugging

1. Air source

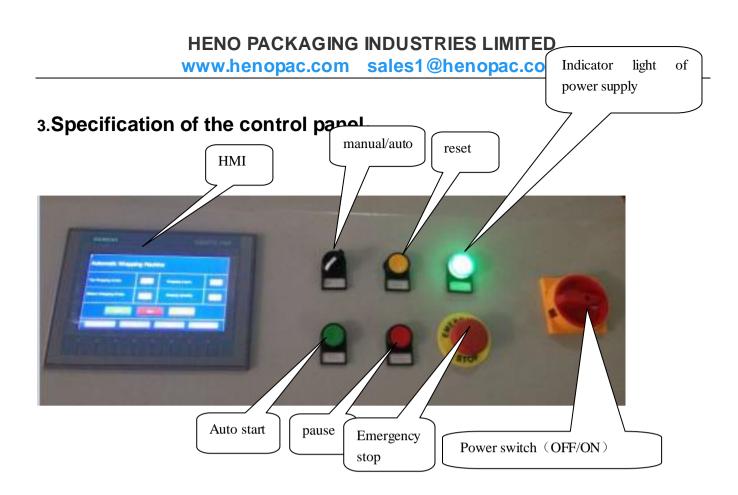
open air valve, adjust the air pressure to 0.4-0.7Mpa

2. Power supply

turn on the breaker in the electrical box, and rotate power switch on the control panel.



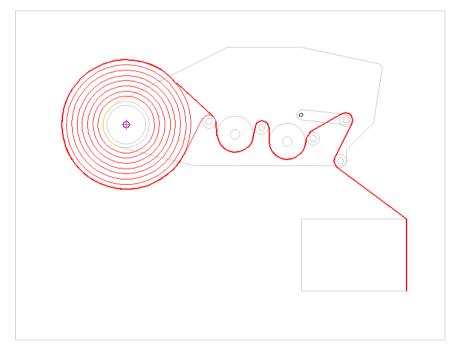




4. Feeding film

- 1) choose stretch film of proper size;
- 2) Film installation sketch:

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 膜座

 Film roller Base

 Aluminum roller

 微动滚筒

 活动單门

 Safety door

 活动單门锁

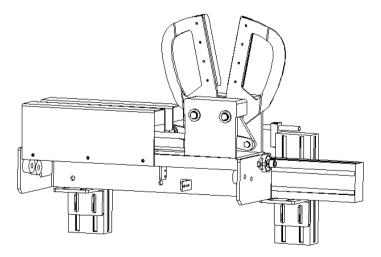
 Safety door lock

1.put the stretch film into film carriage, 2. twist the handle down to open film carriage door, open the safety door 3. pull out the film, cross the micro roller and guide roller according to the sketch. 4.close safety door lock;

- 4) Step of clamping film:
- 1. press 'clamp' button on the clamp cover;

Clamp open; 2. put the film to the top of the clamp and move your hand

3.press 'clamp' again, clamp close;



六. Control panel specification

3) Step of film installation:

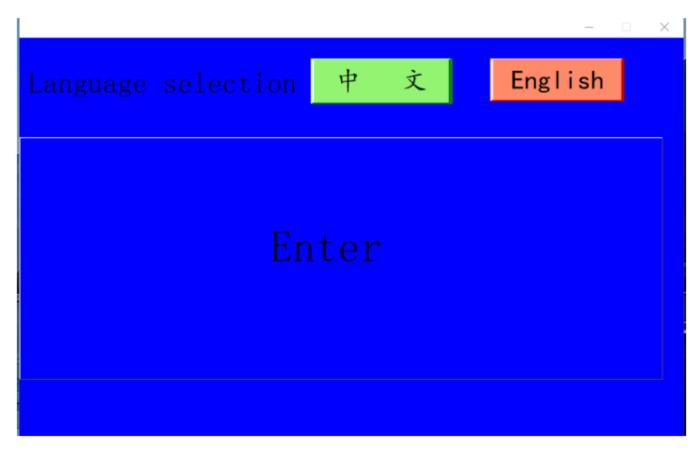
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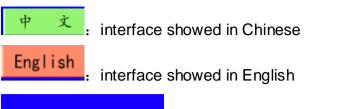
- 4.1 connect to the power and rotate the Power switch to ON, check if the indicator light is on. **If not on:** 1) \sim check if there is power supply,
 - 2) 、 check if the air switch is on.
- 4.2: check if there is closed circuit of emergency stop.
- 4.3 click HIM to enter parameter page, and set the relevant parameters(refer to chapter 7)
- 4.4 Press "**Start**" button, check if the machine is working, wrapping goods, **If no**t: check if chassis and film carriage on **home** position; click **reset**.

七. HMI specification

7.1. Start up picture:



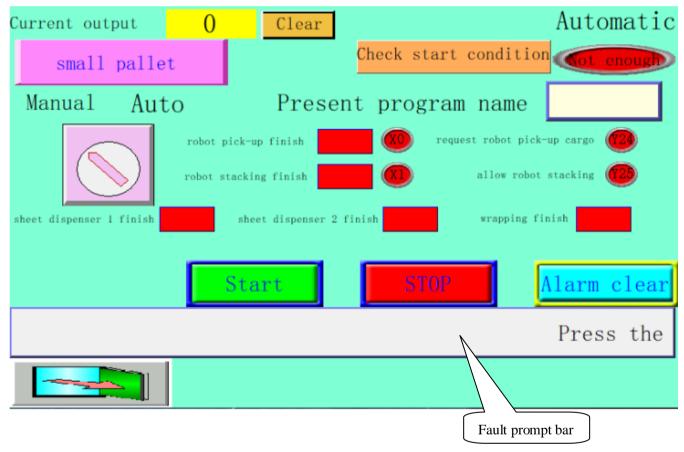
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Enter

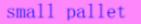
: click the screen to enter the system.

7.2. Menu (running page) :



Current output : show the current output, 1 package means press 'start' button 1 time. Clear : press 'clear' for 0.3 seconds to clear the data. Automatic : show the current page

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choose the dimensions of pallet, small pallet 1200*1200MM, large pallet

1600*1600MM, choose different program , this is very important.

Check start condition

•

: this parameter shows when the machine is at

standby status(not automatic running), click the button to look for details

Check start condition				Back	
Rotay arm home		sheet dispenser #1 home position		rotary arm inverter fault	Orma
Carriage safety		suck paper CYL home position		film carriage inverter fault	Orma
Fencing door 1		sheet dispenser #2 home position		pre-strech inverter fault	orma
Swing arm rear position		sheet dispenser #2 upper		presser inverter fault	Orma
wipe film rear position		stopper #3 home position		pallet dispenser inverter fault	(orma)
presser upper limited		stopper #4 home position		sheet dispenser#1 inverter fault	Orma
centered CYL home position		Fencing door 2		sheet dispenser#2-A inverter fault	Orma
stopper #1 CYL home position		Fencing door 3		sheet dispenser#2-B inverter fault	orma
stopper #2 CYL home position		hydraulic lifting table lower		conveyor inverter fault	Orma
				Emergency stop	REOP



Manual/auto: switch between manual and auto mode.

Present program name

: show the present program

name (can set parameters of every group)

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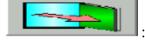


Learning will stop working, if you want to start again, back to home position first, then click "start" button.

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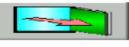
: when there is alarm, click this button to clear the alarm.



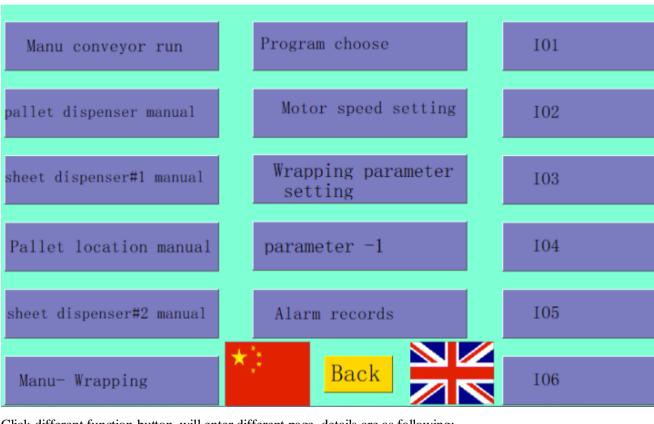
enter next page;

7.3. Page setting :

At the lower left of menu, click and parameter setting page :



enter the following function choosing

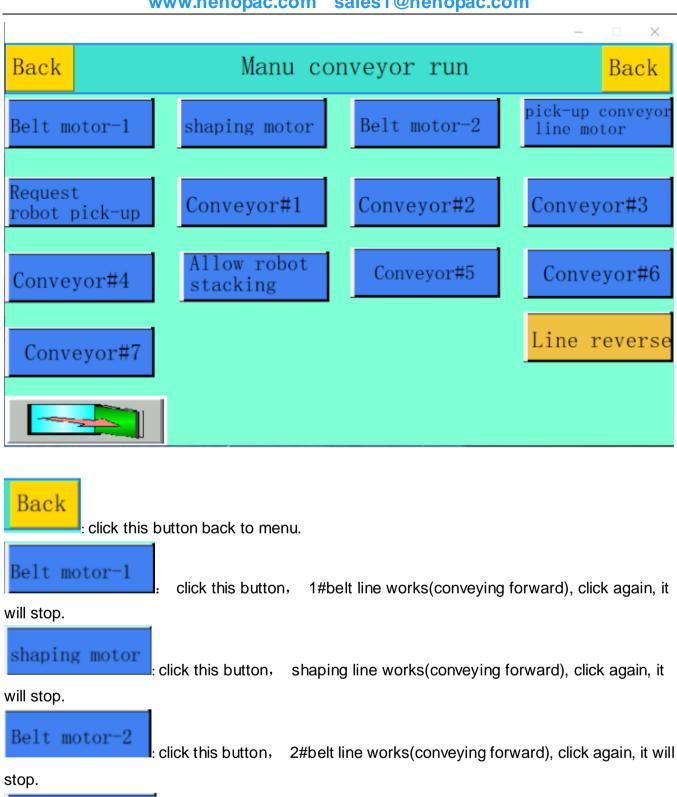


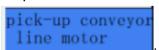
Click different function button, will enter different page, details are as following:

7.4. Conveyor line manual page



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: click this button, pick-up conveyor line works(conveying forward), click

again, it will stop.

Request robot pick-up

: click this button, manually sending signal to robot to pick up goods, only use in adjusting, it is rarely used.

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Conveyor#1

click this button, 1# roller conveyor line(upper pallet position)

works(conveying forward), click again, it will stop.

Conveyor#2

click this button, 2# roller conveyor line(pallet position) works(conveying forward), click again, it will stop.

Conveyor#3

click this button, 3# roller conveyor line(bottom sheet dispenser position) works(conveying forward), click again, it will stop.

Conveyor#4

works(conveying forward), click again, it will stop.

Allow robot stacking

use in adjusting, it is rarely used.

Conveyor#5

eclick this button, 5# roller conveyor line(sheet dispenser top position) works(conveying forward), click again, it will stop.

Conveyor#6

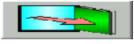
click this button, 6# roller conveyor line(wrapping machine position) works(conveying forward), click again, it will stop.

Conveyor#7

elick this button, 6# roller conveyor line(goods unloading position) works(conveying forward), click again, it will stop.

Line reverse

included) running reversely, conveying backward; click again, it will stop.



Click

enter next page;

7.5.Pallet dispenser manual page:

pallet dispenser manual

button, enter the following page:

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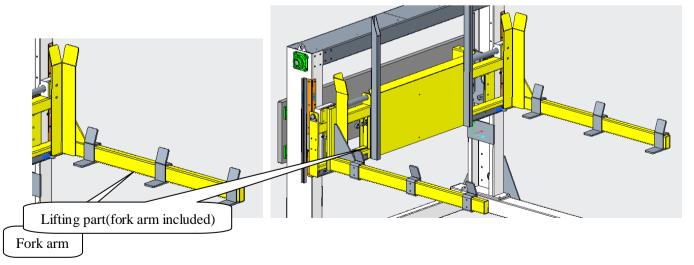
					– 🗆 X
Back		pallet	dispenser	manual	Back
Conv	veyor#1			Co	nveyor#2
	hook in			Fe	orks out
		Lif	ft middle		
	Lift up			L	ift down

Conveyor#1

works(conveying forward), click again, it will stop.

Conveyor#2

forward), click again, it will stop.



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hook in

click this button, the fork arm of the both sides of pallet dispenser

stretch forward; if the fork arm is on the home position, there will be no respond when clicking.

Forks out

stretch back; if the fork arm is in place position, there will be no respond when clicking.

Lift middle

click this button, the lifting part(including fork arm) of pallet

dispenser up or down to central position; if the fork arm is on the central position, there will be no respond when clicking.

Lift up

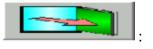
click this button, the lifting part(including fork arm) of pallet

dispenser up to upper limit position; if the fork arm is on the upper limit position, there will be no respond when clicking.

Lift down

click this button, the lifting part(including fork arm) of pallet

dispenser down to lower limit position; if the fork arm is on the lower limit position, there will be no respond when clicking; Attention: when fork arm is on home position, photocell of 2#conveyor line sense pallet, lifting part won't go lift down, you need to convey the pallet away, until the photocell of2#conveyor line can't sense it.



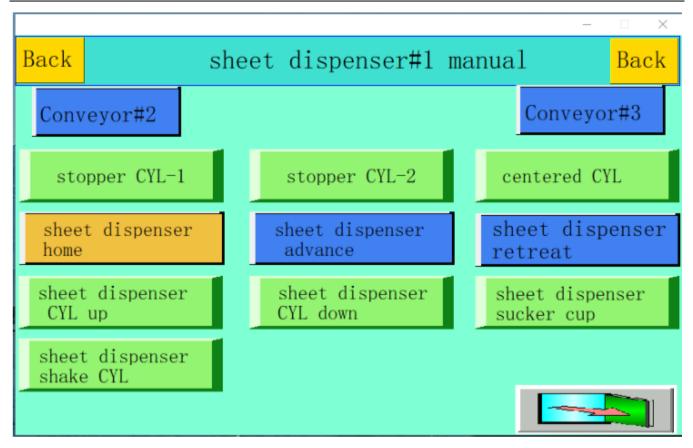
enter next page:

7.6.1#sheet dispenser manual page:



button, enter the following page:

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Conveyor#2

click this button, 2# roller conveyor line(pallet position) works(conveying forward), click again, it will stop.

Conveyor#3

click this button, 3# roller conveyor line(bottom sheet dispenser position) works(conveying forward), click again, it will stop.

stopper CYL-1

: stopper CYL-1, that is 1200*1200 stopper of pallet; click this button, stopper up, click again, stopper down.

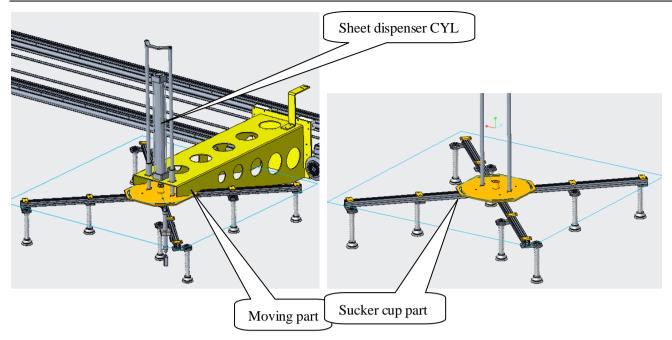
stopper CYL-2, that is 1600*1600 stopper of pallet; click this

button, stopper up, click again, stopper down.

click this button, stoppers on both sides forward, click again,

stoppers backward.

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```
sheet dispenser
home
```

click this button, all parts of sheet dispenser back to home ample moving part sucker this button used usually when manually resetting

position, for example, moving part, sucker, this button used usually when manually resetting the whole machine.

sheet dispenser advance

click this button, the moving part of sheet dispenser (including

sucker cup) works forward, click again, it will stop; if the moving part is on the switch at the front, there will be no respond when clicking.

click this button, the moving part of sheet dispenser (including

sucker cup) works backward, click again, it will stop; if the moving part is on the switch at home position, there will be no respond when clicking.

click this button, the sucker cup of sheet dispenser

stretches out, sucker cup works down, click again, it will stop; if the sucker cup is on the lower position, there will be no respond when clicking.

```
sheet dispenser
CYL down
```

click this button, the sucker cup of sheet dispenser stretches

out, sucker cup works upward, click again, it will stop; if the sucker cup is on the upper position, there will be no respond when clicking.

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sheet dispenser sucker cup

click this button, electromagnetic valve of sucker cup open,

sucker cup inhales, please make sure that vacuum pump already turns on; click again, electromagnetic valve of sucker cup close, stop inhaling.

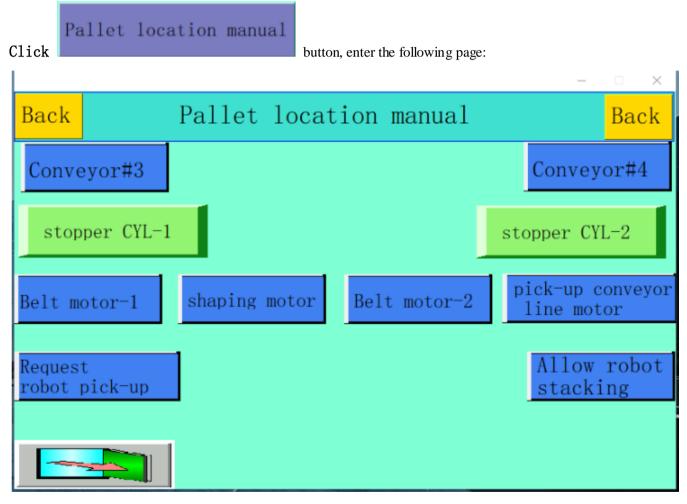
sheet dispenser shake CYL

CYL push rod stretch out, then retract, repeatedly 3 times, some machine type can't perform this function, this function only works when the surface of materials is smooth and sticky.



: enter the next page:

7.7. Pallet location manual page:



Conveyor#3

click this button, 3# roller conveyor line(bottom sheet dispenser position)
works(conveying forward), click again, it will stop.

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Conveyor#4

eclick this button, 4# roller conveyor line(pallet centered position) works(conveying forward), click again, it will stop.

stopper CYL-1

stopper CYL-1, that is 1200*1200 stopper of pallet; click this button, stopper up, click again, stopper down.

stopper CYL-2

button, stopper up, click again, stopper down.

click this button, 1#belt line works(conveying forward), click again, it

will stop.

shaping motor

Belt motor-1

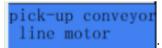
click this button, shaping line works(conveying forward), click again, it

will stop.

Belt motor-2

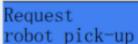
click this button, 2#belt line works(conveying forward), click again, it will

stop.

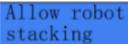


click this button, pick-up conveyor line works(conveying forward), click

again, it will stop.

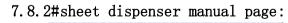


use in adjusting, it is rarely used.



use in adjusting, it is rarely used.

: enter next page:

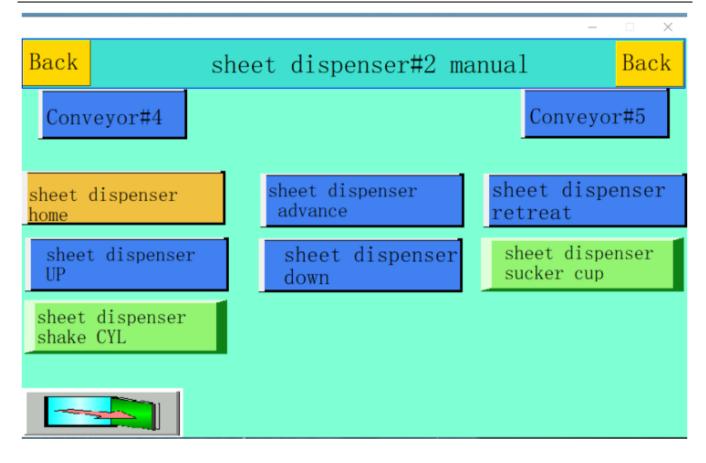


sheet dispenser#2 manual

Click

button, enter the following page:

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Conveyor#4

works(conveying forward), click again, it will stop.

Conveyor#5

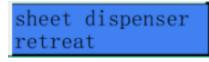
click this button, 5# roller conveyor line(pallet top position) works(conveying forward), click again, it will stop.

sheet dispenser home

nome : click this button, all parts of sheet dispenser back to home position, for example, moving parts , sucker cup, this button used usually when manually resetting the whole machine.

sheet dispenser advance

: click this button, the moving part of sheet dispenser (including sucker cup) works forward, click again, it will stop; if the moving part is on the switch at the front, there will be no respond when clicking.



click this button, the moving part of sheet dispenser (including

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sucker cup) works backward, click again, it will stop; if the moving part is on the switch at home position, there will be no respond when clicking.

sheet dispenser UP

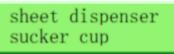
click this button, the sucker cup of sheet dispenser stretches out,

sucker cup works down, click again, it will stop; if the sucker cup is on the lower position, there will be no respond when clicking.

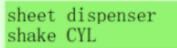
sheet dispenser down

click this button, the sucker cup of sheet dispenser stretches

out, sucker cup works upward, click again, it will stop; if the sucker cup is on the upper position, there will be no respond when clicking.



sucker cup inhales, please make sure that vacuum pump already turns on; click again, electromagnetic valve of sucker cup close, stop inhaling.



click this button, electromagnetic valve of shake CYL open, CYL push rod stretch out, then retract, repeatedly 3 times, some machine type can't perform this function, this function only works when the surface of materials is smooth and sticky.



Click

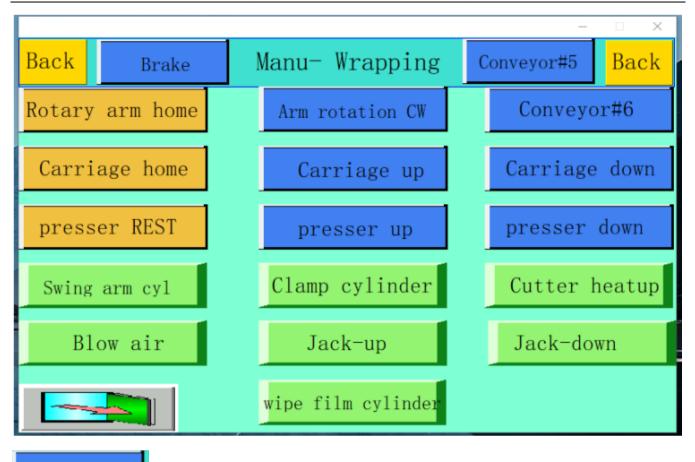
enter the next page:

7.8. Manu-wrapping page:



button, enter the following page:

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Brake

turn down, this button only use when debugging and maintaining, the rotating platform can be rotated manually.

Conveyor#5

click this button, 5# roller conveyor line(pallet top position) works(conveying forward), click again, it will stop.

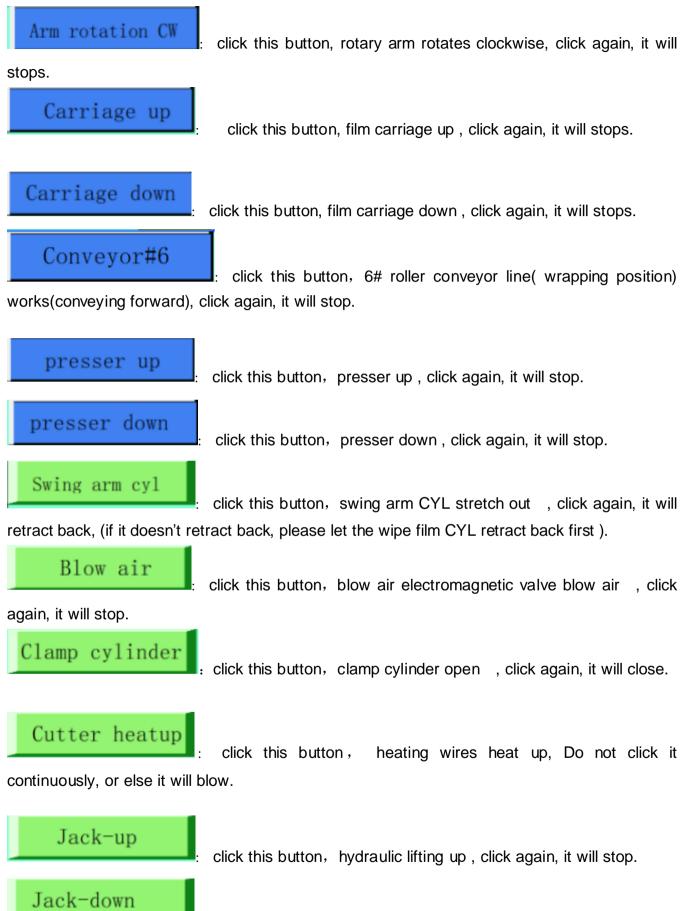
Rotary arm home

stops, if the rotary arm is on home position, there will be no respond when clicking.

carriage is on home position, there will be no respond when clicking.

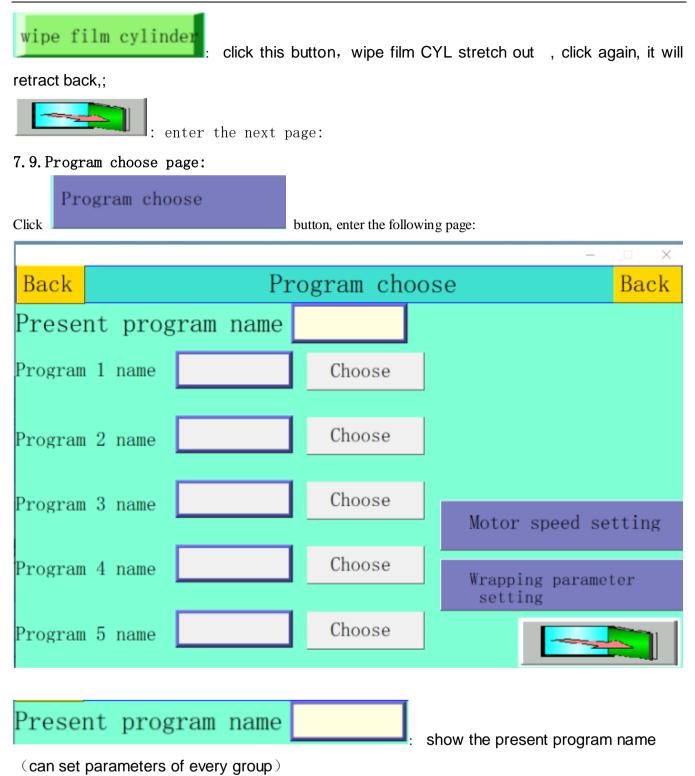
is on upper limit position, there will be no respond when clicking.

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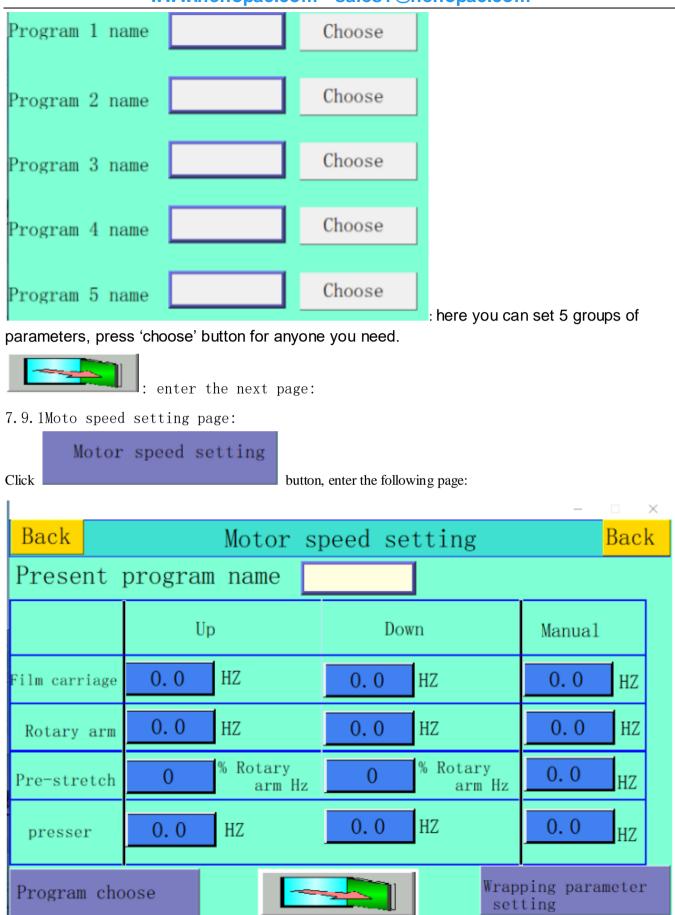


click this button, hydraulic lifting down, click again, it will stop.

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			• • • • •		
Present	program	name		show the pr	resent program name
(can set param	eters of ever	y group)			
	Up)	Down		
Film carriage	0.0	HZ	0. 0 H	Z	: setting the frequency of
film carriage up and contrary, the smaller	00		1 00	01	m when wrapping,; on the
Rotary arm	0.0	HZ	0.0 H	Z	: setting the frequency of
rotary arm, the bigg	ger the value, the	e faster speed.			
Pre-stretch	0	% Rotary arm Hz	0 %	Rotary arm Hz	: setting the frequency of
film conveying moto	or, the bigger the	value, the faster sp	beed, the looser whe	n wrapping; on t	he contrary, the smaller
the number, the lowe	er the speed, the n setting, for exa	tighter when wrap	ping; 0 tary frequency is 50	Rotary arm I	
presser	0.0	HZ	0. 0 H	Z	: setting the frequency of
presser motor, the big	gger the value. t	he faster speed, the	tighter the presser.	on the contrary.	the smaller the number,
the lower the speed,		-			,

Manual	
0.0	ΗZ
0.0	HZ
0.0	HZ
0.0	HZ

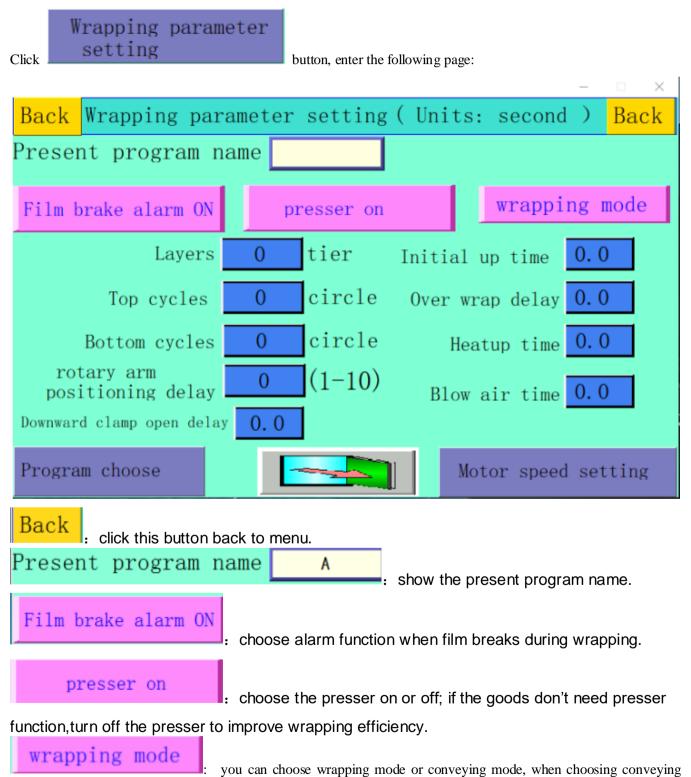
: set the frequency of motor during manual operation; the more bigger the value, the more faster the speed.

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enter the next page:

7.9.2Wrapping parameter setting page:



mode, goods were conveyed through wrapping machine, there will be no action of wrapping machine.

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Layers 0: set the wrap layers, from the bottom to the top is 1 layer, up and down is
2 layers.
Top cycles 0: set the top cycles for the top of goods.
Bottom cycles 0 : set the cycles for the bottom of goods.
rotary arm 0 (1–10) : set the rotary arm back to home position, then
set the time delay, then stop and brake, the delay time can set between 1-10 seconds.
Downward clamp open delay 0.0 : film carriage down to the position for the first time,
clamp opens and blows. Tip: blowing position is related to the speed of film carriage up-down.
presser time 0.0 : time of presser to press the goods, after this action, turntable starts rotating, factory setting is 5 seconds. This function is only for the machine with presser. Tip: presser time is related to the goods height and cylinder speed.
Initial up time 0.0 : set the time of film carriage up before wrapping.
Over wrap delay 0.0 : the rising time of film carriage when photoelectric sensor
detects the goods top. Change this parameter to change the film wrap height of goods top.
Heatup time 0.0 : set the heat-up time when cutting film.
Blow air time 0.0 : when clamp opens, the film is blew up. Set the time of blowing
air.
Program choice : click this button back to menu.
Motor speed setting : click this button back to wrapping motor setting page;
7.10 click and enter the parameter-1 page:

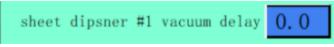
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		– 🗆 X
Back	parameter -1	(Units: second) <mark>Back</mark>
Prese	ent program name	
pall	et dispenser hook delay 0.0	sheet dispenser#10N
	centered CYL delay 0.0	sheet dispenser #1 paper fall detect on
	et dispenser #1 sucker 0.0	paper fair detect on
	dipsner #1 vacuum delay 0.0	sheet dispenser#2 ON
she cup	et dispenser #2 sucker 0.0	sheet dispenser #2 paper fall detect on
sheet	dipsner #2 vacuum delay 0.0	
Preser	nt program name 🛛 🗛	show the present program name.
palle	et dispenser hook delay 0.0 : Set the	time when the fork arm of the pallet dispenser is
•	art the clock when the fork arm leave CYL home mag prmed ; the time is related to the speed of the cylinder st	
ce	entered CYL delay 0.0 : set when palle	t reaches the middle line, the time when central
-	lamped ; start the clock when the stopper on both sides oppers on both sides will open, the time is related to the	_

sheet dispenser #1 sucker 0.0

set when paper sucker mechanism of 1# sheet dispenser

down to suck paper and reach paper, delay the time then stop going down, this can help sucker and paper contact closer.



: set the time vacuum sucker of 1#sheet dispenser sucks in

air, when time is up, it will perform next action (not stop absorbing air), the time is related to the pressure of vacuum pump, when actually in use, it should be set according to the on-the-spot usage.

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sheet dispenser #2 sucker 0.0

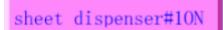
set when paper sucker mechanism of 2# sheet dispenser

down to suck paper and reach paper, delay the time then stop going down, this can help sucker and paper contact closer.



: set the time vacuum sucker of 2#sheet dispenser sucks in

air, when time is up, it will perform next action (not stop absorbing air), the time is related to the pressure of vacuum pump, when actually in use, it should be set according to the on-the-spot usage.



: choose 1#sheet dispenser on/off, when choose off, sheet dispenser won't work,

goods go through directly

sheet	dispenser #1	
paper	fall detect	on

choose whether 1# sheet dispenser detect paper falling, this button setting

when debugging, you must choose on in actual use.

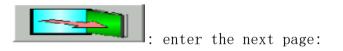
: choose 2#sheet dispenser on/off, when choose off, sheet dispenser won't work,

goods go through directly

sheet dispenser #2 paper fall detect on

: choose 2#sheet dispenser on/off, when choose off, sheet dispenser won't work,

goods go through directly



Alarm records

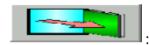
7.11 click

enter the Alarm records page, as following:

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		_	
Back	Alarm records		Back
12:39:46 12:39:46	Press the E-stop 1 pallet Press the E-stop1	9/02/24 9/02/24	
<u>▲</u>			▶

show the alarm content and time of alarm occurred. When there is no alarm occurred, it is blank.

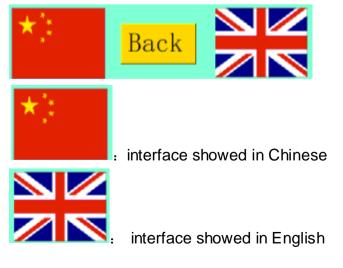


: enter the next page:

Back

: click 'BACK' button back to menu.

7.12 Operating interface language choosing ;as following:



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: click 'BACK' button back to menu.

7.13 I/O Monitor page, as following:

The following show the operating conditions of each PLC input

101

Back	I01	NEXT	Back
robot link #1	manual or auto	swing arm CV home position	
robot link #2	3 start	swing arm CV in place	L 🩋
robot link #3	pause button	clamp CYL home positi	on 🩋
rotary home position 🧯	3 reset	clamp CYL in	place 🩋
film carriage safety door	E-stop	wipe film CY home position	
film carriage detect 🤇	safety fence door	#1 🐠 wipe film CY in place	L 🩋
film carriage micro switch	wrapping in place photocell #1	film carriag upper limit	e 🩋
Conveyor#1 Entrance photoelectric	wrapping in place photocell #2	film carriag lower limit	e 🩋

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Back	PREV		I02		NEXT	-	Back
film carriage lower limit	(30	pall upp	et dispenser er	<u> </u>	conveyor line place photoce		×50
film carriage inferior limit	(3)		et dispenser ral position	<u>(41</u>)	conveyor line place photoce		×51
presser upper	limit 🥸	pall lowe	et dispenser r	X42	centered CYL home position		×52
presser in plac	ce 🚳		et dispenser r limit	(43)	stopper #1 CY home position		(53
replace film b	utton 🥨		k left CYL e position	A	stopper #1 CY in place	L	(5
wrapping entra overlenght pho			k right CYL e position	K4 5	stopper #2 CY home position		<u>(55</u>
wrapping exit overlenght pho	tocell 🥸		eyor line #1 e photocell	in 🚳	stopper #2 CY in place	L	(5
Conveyor#7 Export photoel	ectric 🥘		eyor line #2 e photocell	in 🐠	pallet stop		(5

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Back	PREV	103		NEXT	Back
sheet dispens home position		sheet dispense home position	r #2 🕡	conveyor line place photoce	
sheet dispens stack	ser #1 🔞	sheet dispense stack	r #2 🧭	conveyor line place photoce	
sheet dispens paper CYL upp		sheet dispense upper	r #2 🥢	stopper #3 CY home position	
spare #4	<u>6</u>	sheet dispense lower	r #2 🛛 🐼	stopper #3 CY in place	L 🐽
sheet dispens sucker cup in		sheet dispense sucker cup in		stopper #4 CY home position	
paper stack # warning detec		paper stack #2 warning detect		stopper #4 CY in place	L 🐠
paper stack # paper detecti		paper stack #2 lack paper det		conveyor line photocell #1	#5
pallet warnin	ng 🚳	cargo height detection	20	conveyor line photocell #2	#5

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Back PF	EV	I04		NEXT	Back
conveyor line #7 photocell		conveyor #1 in place	×120	rotary arm inverter alarm	n 🚺
safety fence door #2		ing conveyor in place	×121	film carriage inverter alarm	
safety fence door #3		conveyor #2 in place	(122)	presser lift inverter ala	ing rm 🚺
hydraulic lifting upper		-up conveyor in place	×123	pre-sttretch inverter alarm	n 🚺
hydraulic lifting inferior	oepn 🚺	safety door #1	×124	pallet dispens inverter alarm	
spare #5	oepn 🛛	safety door #2	×125	sheet dispens moving invert	er #1 er alarm
spare #6	oepn (safety door #3	(126)	sheet dispense lifting invert	
conveyor line fault		conveyor line ance photocell	(12)	sheet dispens rotary invert	

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				– 🗆 X
Back	PREV	I05	NEXT	Back
pick-up fin	ish 📢			
sheet disper lifting home	nser #2 e position 🚺			
sheet disper drop paper d				
sheet dispen drop paper d	ser #1 letection			
spare #7	(144)			
spare #8	K145			
spare #9	(146)			
spare #10	(147)			

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Г

Back	PREV		I06		NEXT		Back
rotary arm speed runni		wrappi main p	ng machine ower	10	green	<u> </u>	(20
rotary arm speed runni		cuttin	g film heating	11	yellow		(2)
presser mot	or up 🛛 🙋	rotary	arm brake	12	red		(22)
presser mot	or down 🛛 🔞	spare	#11	13	buzzer		(23)
pre-stretch running	motor 🕜	swing	arm CYL	14	robot link A		(24
pre-stretch second spee		clamp	CYL	15	robot link B		(25
film carria	ge up 🛛 🚺	wire f	ilm CYL	16	robot link C		(26)
film carria	ge down 🥡	blowin	g CYL	17	robot link D		(2)

				– ×
Back	PREV	107	NEXT	Back
pallet dispenser up		llet dispenser ok forward	conveyor line centered CYL	#3 👀
pallet dispenser down		llet dispenser ok back	conveyor line stopper CYL #	
sheet dispenser #1 forward		eet dispenser #1 ick paper CYL UP	conveyor line stopper CYL #	
sheet dispenser #1 back		eet dispenser #1 ucker cup	conveyor line stopper CYL #	
sheet dispenser #2 up		eet dispenser #1 ake CYL	conveyor line stopper CYL #	
sheet dispenser #2 down		eet dispenser #2 cker cup	hydraulic lifting up	(55
sheet dispenser #2 forward		eet dispenser #2 ake CYL	hydraulic lif down	ting 💴
sheet dispenser #2 back		llet dispenser ifting brake	sheet dispense lifting brake	

				- 🗆 X
Back	PREV	I08	NEXT	Back
conveyor line #	1 motor 🏀	belt conveyor line #1 motor	spare #12	@
conveyor line #	2 motor 🔞	shaping conveyor line motor	spare #13	(10)
conveyor line #	3 motor (762)	belt conveyor line #2 motor	spare #14	(10)
conveyor line #	4 motor (163)	pick-up conveyor line motor	spare #15	(10)
conveyor line #	5 motor 🔞	safety fence door #1 open	spare #16	(10)
conveyor line #	6 motor (165	safety fence door #2 open	spare #17	(105)
conveyor line #	7 motor 🙆	safety fence door #3 open	spare #20	(105)
total pallet co line reversal	nveyor 🔞	sheet dispenser #1 suck paper CYL dow		(10)

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			×
Back	PREV	I09	Back
spare #22	(10)		
spare #23			
spare #24	(112)		
spare #25	(11)		
spare #26	(11)		
spare #27	<u>(11</u>)		
spare #28	(11)		
spare #29	(11)		

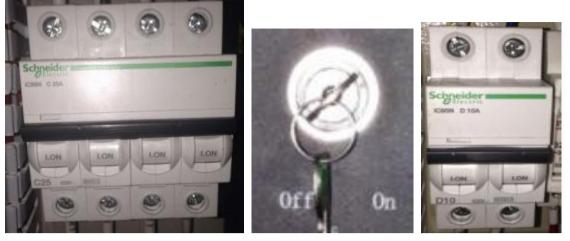
八、**Operation**

8.1 Manual running

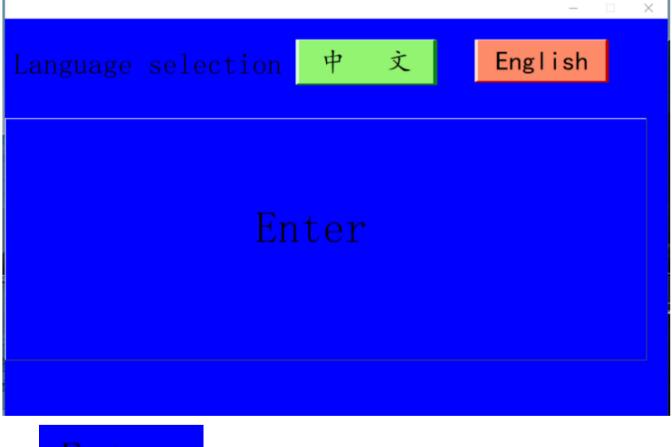
- 1) Connect to the power: turn the power switch to right, machine get power on, and the indicator light on.
 - (if not power on, open the electrical box to check whether the breaker is shut)



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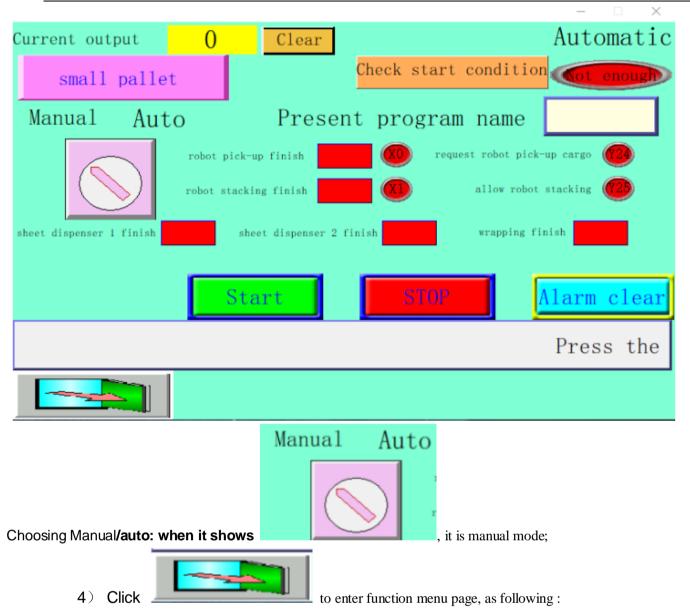


2) click the screen;

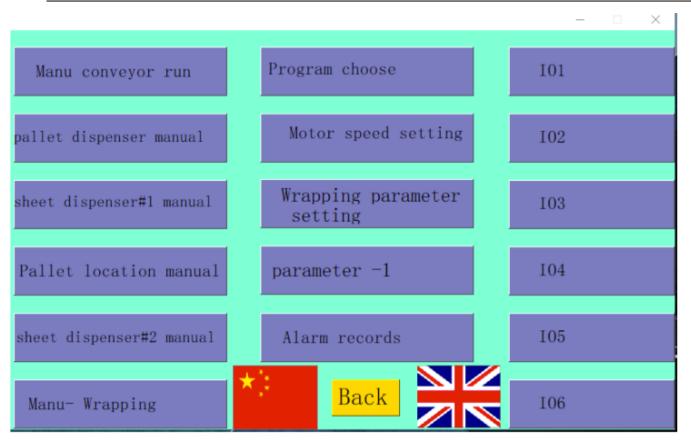




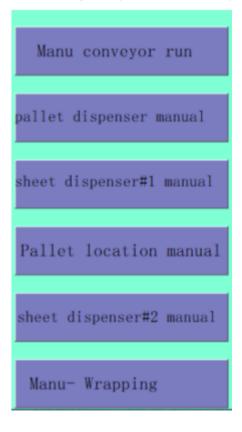
3) Enter menu as following:



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Enter corresponding function according to introduction,; please see details on the specifications



7.2 Automatic running

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1) Connect to the power: turn the power switch to right, machine get power on, and the indicator light on.

(if not power on, open the electrical box to check whether the breaker is shut)





2. Click Enter on power-on screen, enter menu as following:

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				_	
Current output	0	Clear		Auto	matic
small pa	llet	Ch	eck start co	ndition Not o	enough
Manual A	luto	Present	program n	ame	
	robot pick	-up finish	🗙 request r	obot pick-up cargo	<u>724</u>
	robot stack	ing finish	al al	low robot stacking	
sheet dispenser 1 fini	ish sł	neet dispenser 2 finis	h w	rapping finish	
	St	art	STOP	Alarm	clear
				Press	s the
lick , swit	ch to manual	mode,			

3. C1

Check start condition ot enough 4. When it can not automatic running, will always show on , if it meets the conditions of automatic running, it won't show . Check start condition ot enough 5. When it can not automatic running, click to enter

start condition page, as following :

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				-	0 X
	Ch	eck start conditio	n		Back
Rotay arm home		sheet dispenser #1 home position		rotary arm inverter fault	Orma
Carriage safety		suck paper CYL home position		film carriage inverter fault	Orma
Fencing door 1		sheet dispenser #2 home position		pre-strech inverter fault	Orma
Swing arm rear position		sheet dispenser #2 upper		presser inverter fault	orma
wipe film rear position		stopper #3 home position		pallet dispenser inverter fault	(orma
presser upper limited		stopper #4 home position		sheet dispenser#1 inverter fault	Orma
centered CYL home position		Fencing door 2		sheet dispenser#2-A inverter fault	orma
stopper #1 CYL home position		Fencing door 3		sheet dispenser#2-B inverter fault	orma
stopper #2 CYL home position		hydraulic lifting table lower		conveyor inverter fault	(orma
				Emergency stop	RROR



Remove faults according to the page, or press the Reset button on the control panel, if some part of the machine can't back to home position, or can't meet the conditions of automatic running, you need to check the corresponding parts, or contact professional person timely.

7.3. No sheet dispensing, no film wrapping, conveying directly.

7.3.1 No sheet dispensing setting

						- 0	\times
	Current output	0	Clear			Automa	itic
	small palle	et		Check sta	art conditi	on Not eno	ugh
	Manual Au	to	Prese	nt progr	am name		
	sheet dispenser 1 finish	robot pick- robot stacki			request robot pi allow rob wrapping	ot stacking 🕐	
	sneet dispenser i finish	and	zet urspenser 2	111151	#1 dpp 10g		
		Sta	art	STO)P	Alarm cl	ear
						Press t	the
Click		to enter func	tion menu page	e, as following :		- 0	×
	Manu conveyor	run	Program	choose		101	
	pallet dispenser m	anual	Motor	speed sett	ing	102	
	sheet dispenser#1	manual	Wrappi setti	ng parame ng	ter	103	
	Pallet location	manual	paramet	ter -1		104	
	sheet dispenser#2	manual	Alarm	records		105	
	Manu- Wrapping	*	¢.	Back		106	

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-

parameter -1			
Click	click and enter the parameter-1 page:		
	× ×		
Back parame	eter -1 (Units: second) <mark>Back</mark>		
Present program name	e e		
pallet dispenser hook delay	0.0 sheet dispenser#10N		
centered CYL delay	0.0 sheet dispenser #1 paper fall detect on		
sheet dispenser #1 sucker cup in place delayed	0.0 sheet dispenser#2 ON		
sheet dipsner #1 vacuum dela	y 0.0		
sheet dispenser #2 sucker cup in place delayed	0.0 sheet dispenser #2 paper fall detect on		
sheet dipsner #2 vacuum dela			
Click , turn off the sheet dispensing function of 1# sheet dispenser			
Click , turn off the sheet dispensing function of 1# sheet dispenser			
7.3.2 No film wrapping setting :			

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					_	\times
Current output	0	Clear		A	utomat	ic
small palle	t		Check start	condition	Not enoug	
Manual Aut	to	Present	t program	name		
	robot pick-u	p finish	XO reques	st robot pick-up	cargo 🔞	
	robot stackir	ng finish		allow robot sta	cking (725)	
sheet dispenser 1 finish	shee	et dispenser 2 fin	ish	wrapping finis	1	
	Sta	rt	STOP	Δ1	arm cle	ar
				F	Press th	ne

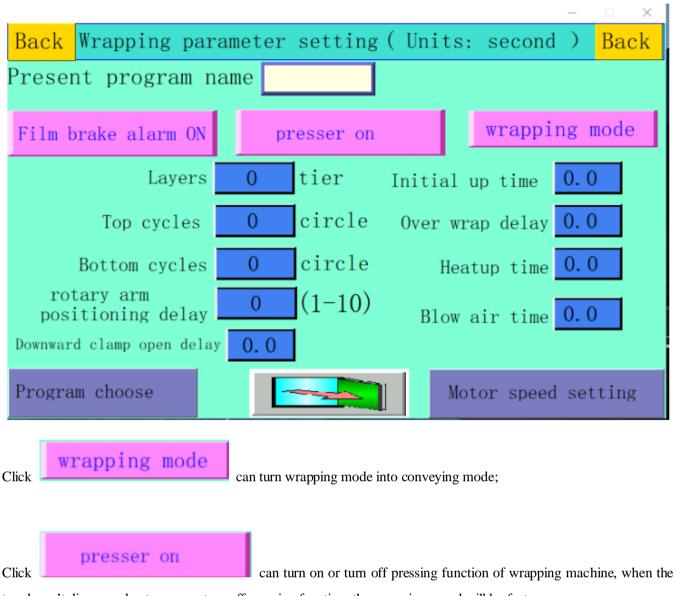


to enter parameter page, as following :

		– 🗆 X
Manu conveyor run	Program choose	101
pallet dispenser manual	Motor speed setting	102
sheet dispenser#1 manual	Wrapping parameter setting	103
Pallet location manual	parameter -1	104
sheet dispenser#2 manual	Alarm records	105
Manu- Wrapping	*: Back	106



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top doesn't dispense sheet, you can turn off pressing function, the wrapping speed will be faster;

```
Film brake alarm ON
```

```
Click
```

, can turn on or turn off film brake alarm, it is recommended to turn on film

brake alarm, when there is no film or film brake, it will alarm and stop; turn off the film brake alarm, only used when debugging wrapping machine with no film on;

九、Simple trouble shooting

Fault	Possible causes	Measures
phenomeno		
n		
Swing arm		(1) move the goods before photocell switch,
doesn't		make sure goods not on the way of rotary

rotate		arm
	1 photocell switch	② check the alarm reason according to the
	induces goods.	specification of the inverter, check the
	② inverter alarm	three phase line that connected to the
	③ motor wire not	resistance, if it lacks phase
	connected	$\ensuremath{\textcircled{3}}$ check if the wire of motor is well
	④ 'emergency stop'	connected.
	pressed down	④ pull up 'emergency stop' button.
	⑤ door of film carriage not	⑤ close the door of film carriage
	closed	
	6Film cutter not on home	
	position	
	\bigcirc safety fence door not	
	close	
Film	① door of film carriage not	$(\ensuremath{\underline{1}})$ close the door of film carriage
carriage	closed	2 check the alarm reason according to the
doesn't rise	② inverter alarm	specification of the inverter
	③ motor lacking phase	3check if the wire of motor is well
	④upper limit switch or low	connected
	limit switch or lower	(4) change the broken limit switch
	limit switch broken	⑤ pull up 'emergency stop' button
	⑤ 'emergency stop'	⑥ photoelectric sensor can not detect
	pressed down	goods
	6 machine is in the	
	process of wrapping	
	⑦guide rail of lifting	
	is out of shape	
Clamp	① no air source	① check air source:0.4-0.6Mpa
doesn't	2 magnetic valve is not	2 check the circuit of value or press the
open	energized.	valve by hand to check if there is any

	③ throttle closed entirely	response.
	④ 'emergency stop'	③ open the throttle and re-adjust it.
	pressed down	(4) pull up 'emergency stop' button
	⑤ get stuck or loose	$\ensuremath{\textcircled{5}}$ open the cover of cylinder, re-install the
		connecting rod and bolt
Film	①door of film carriage not	$(\ensuremath{\underline{1}})$ close the door of film carriage
carriage	closed	2 check the alarm reason according to the
doesn't feed	② inverter alarm	specification of the inverter
film	③ motor wire not	3check if the wire of motor is well
	connected	connected
	④ 'emergency stop'	4 pull up 'emergency stop' button
	pressed down	5 close the door of film carriage, check the
	⑤safety proximity switch	distance with proximity switch, it should
	loose	be 2-4mm.
	6 micro switch not	$\textcircled{6}$ swing micro roller, check if $\rule{0pt}{3pt}$ IO.5 on PLC is on
	touched	$\ensuremath{\overline{\mathcal{O}}}$ open the cover of film carriage, re-install
	1 chain falls off	the chain.
Conveyor	1. roller is bent	1. change a new roller of the same
roller makes	2. Chain is too long	specification
abnormal	3. Chain shell is out of	2. Tighten the chain or change a new one
noise	shape	3. Reshape the chain shell or change a
		new on
Presser	1. pressing function not	1. choose pressing function on the touch
does not up	open	screen
or down	2. Lifting motor not	2. Measure current and voltage of motor
	connected to electrical	3. Check lifting interter parameter and
	source	setting
	3. lifting inverter	4. Check the straightness of guide rail and

breakdown	whether there is abrasion on the
	surface
	5. Check the presser spring and the
	distance of proximity switch
	 Check travel switch connection
	1. check air source:0.4-0.6Mpa
	2. Disconnect it and reinstall
3. Clamp screw loose	3. Tighten the screw
4. Block gine of clamp	4. Change a new block gine
ageing or loose	
1. lifting part can not work	1. upper travel switch is connecting
up	2. lower travel switch is connecting
2. lifting part can not work	3. Check interver parameter and setting
down	4. Measure current and voltage of motor
3inverter breakdown	5. Check the air pressure of air source,
4. Motor problem	air goes in or out of throttle, check if the
5. Fork arm can not move	pulley rotate smoothly
left or right	6. check if the pulley rotate smoothly,
6. Lifting part shake	whether the between guide rail is too
excessively	large
7. Drive chain loose	7. Adjust chain tightness, if it is too long,
	remove unnecessary chain units
1.lifting part can not work	1.upper travel switch is connecting
up	2. lower travel switch is connecting
2.lifting part can not work	3. Check interver parameter and setting
down	4.Measure current and voltage of motor
3.inverter breakdown	5.check if the vacuum pump is open, the
	breakdown 4. Lifting guide rail out of shape 5. Presser in place and the proximity switch already on 6. Up/down travel switch is already on 1. air pressure not enough 2. Gear stuck 3. Clamp screw loose 4. Block gine of clamp ageing or loose 1. lifting part can not work down 3inverter breakdown 4. Motor problem 5. Fork arm can not move left or right 6. Lifting part shake excessively 7. Drive chain loose 1. lifting part can not work up

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	4.Motor problem	pressure is enough, whether the
	5.not sucking paper, not	vacuum electromagnetic is on regular
	vacuum	work
	6.Lifting part shake	6.check whether guide rail and straight
	excessively	bearing block is clear, whether there
	7.sheet dispenser stack	is abrasion on bearing
	malposition	7.adjust proximity switch or travel switch
		according to deviated direction
hydraulic	1. not up or down	1. check the wiring, whether the upper or
lifting	2. Motor is running, but	lower limit is connected
related	can not go up	2. Check whether the hydraulic oil is not
problem	3. Oil leak	enough
		3. Check whether the fluid cylinder and
		pipeline, change new sealing element

+、Machine maintenance

1) adjust the transmission chain of the parts in half year, and add lube, as the following picture shows:

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Attention: All the maintenance works should be done at power-off status.

- 1) adjust the transmission chain of the parts in half year, and add lube, as the picture shows:
- 2) Add lube to the guideway of the elevator mechanism every two months.
- 3) Check if the screws is loose due to the shake while using, if loose, please tighten the screw.
- 4) Check if the machine is well-grounded.
- 5) Strictly control the dust to ensure the normal work of machine system. Regularly clean the

dust and rubbish which attached on the machine, especially on magnetic valve, proximity switch.

+-, Circuit diagram

See in the CAD