Middle Scissor Lift

Instruction manual

Safety precautions



Lifting machine is a kind of lifting equipment. The safety of its use and operation depends on the use of appropriate operation technology and the corresponding professional knowledge of the operator. Each operator shall operate in accordance with the following requirements:

1. Obtain detailed description of the product from the dealer
2. Pay attention to the warning and maintenance requirements in the manual
3. Safety operation training and operation skills
4. Get professional technical support from the user manual

If you do not operate according to the operating procedures, you will be responsible for all the consequences!

When the machine is in normal use, in order to ensure that the upper part of the oil cylinder is not rusted and the sealing ring is worn, the user is requested to use it every week After raising the machine to the upper limit switch, repeat several times in order to

lubricate the upper part of the cylinder.

Special notes

1. After the customer receives the equipment, please carefully check the external packaging of the equipment. If the equipment is damaged and parts are missing during the shipment, the buyer shall claim against the carrier.
2. Safety performance has been considered in design and manufacturing. However, proper training and care Ground operation can also increase safety. Do not operate or repair the equipment without reading the instructions.
3. Find out the requirements of power supply and voltage status on the motor nameplate, which must be connected by a professional qualified electrician.
4. The company will not inform about the partial structure improvement of the product. There is no obligation to notify customers of updates to previously sold products.
5. Please read and fill in the warranty card of this manual carefully, and give it back to the dealer and the company for filing. As one of the basis of providing after-sales service. Otherwise, it shall be deemed that the right to enjoy corresponding services is automatically waived and the responsibility shall be borne by itself.
6. Do not lift more than the rated lifting weight of the equipment.
7. Please read the warning signs on the equipment carefully.

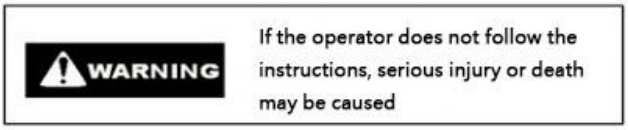
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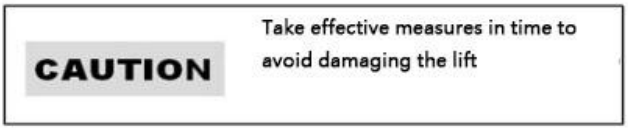
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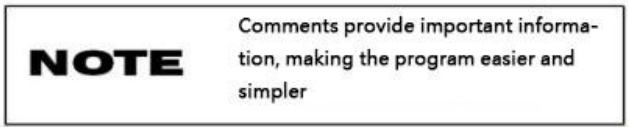
1. Important information of the manual

Special important information in this operation manual has been marked. Pay attention to the following warning!









***note:**

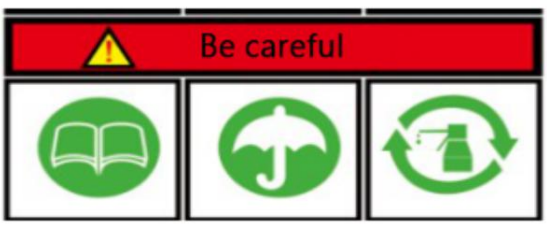
1.1 this operation manual is an integral part of the lift and should be kept together with the lift.

1.2 We continue to seek improvements in product design and quality. This manual contains the latest product information at the time of printing, and there will be slight differences between the lift and the manual. If you have any questions about this manual, please consult your dealer.

2. Safety information tips

Please read the following label carefully before operating the lift:



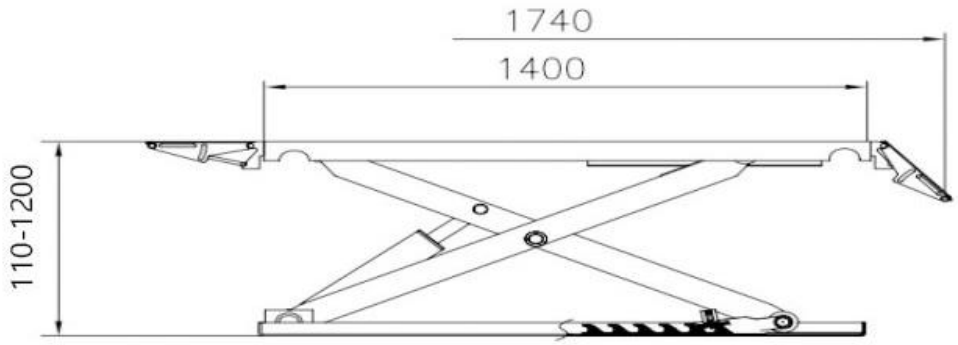


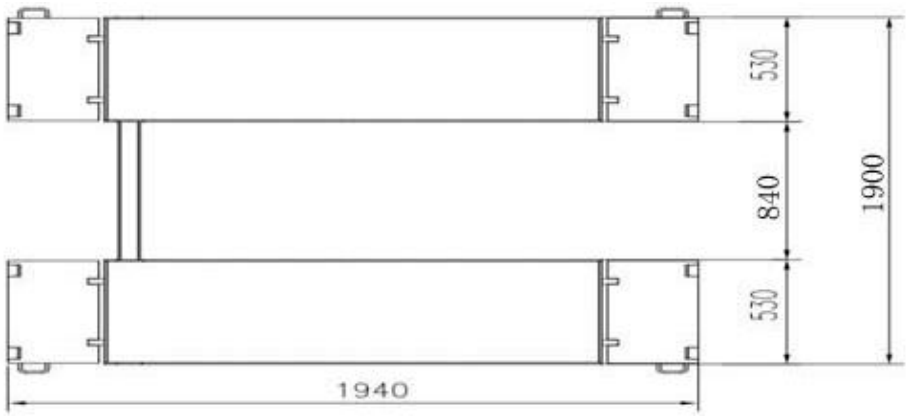
3.Transportation and packaging.

According to the requirement, the hoisting machine is packed with air cushion film, with foam protection, and the pump station is packed in carton.
3.1once the packaging materials are damaged, please check whether the machine is damaged!
3.2 please keep the packaging materials away from the place where children can get them to avoid danger!

4. Main technical parameters

主要技术参数：Main specifications and technical parameters:	
最大举升能力 Max.lifting capacity	3000kg-3500kg
最大举升高度 Max.lifting height	1200mm
落地高度 Min.height	110mm
举升时间 lifting time	30sec
电　　源 Power supply	110v/220v/380v
噪　　音 Noise level	＜65dB
整机重量 Overall weight	665kg
气 压 pressure	0.6-0.8Mpa
额定油压 oil pressure	28Mpa



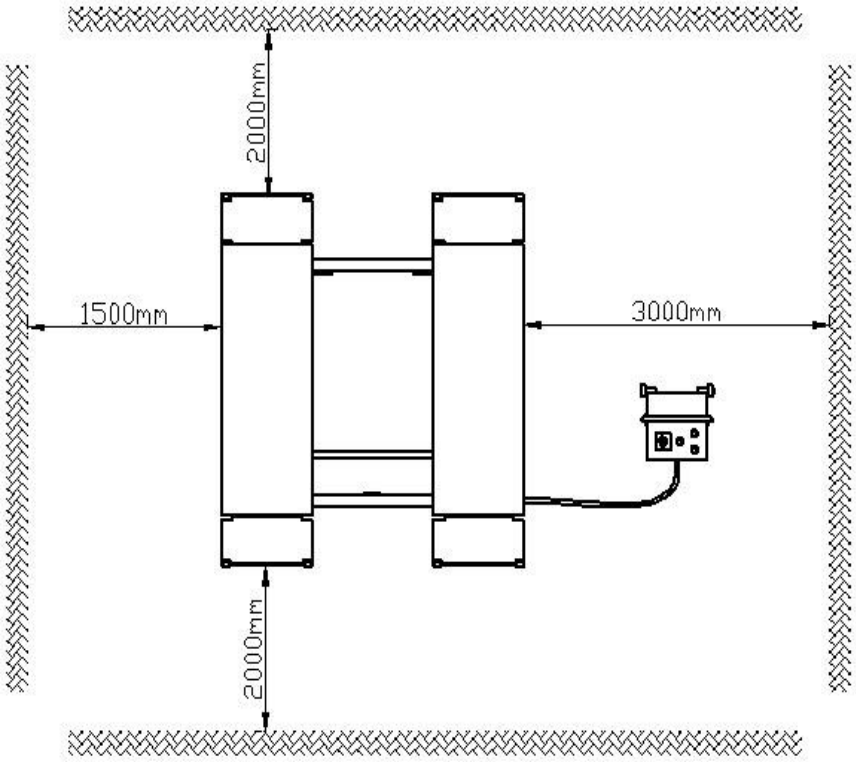


5. Foundation and requirements

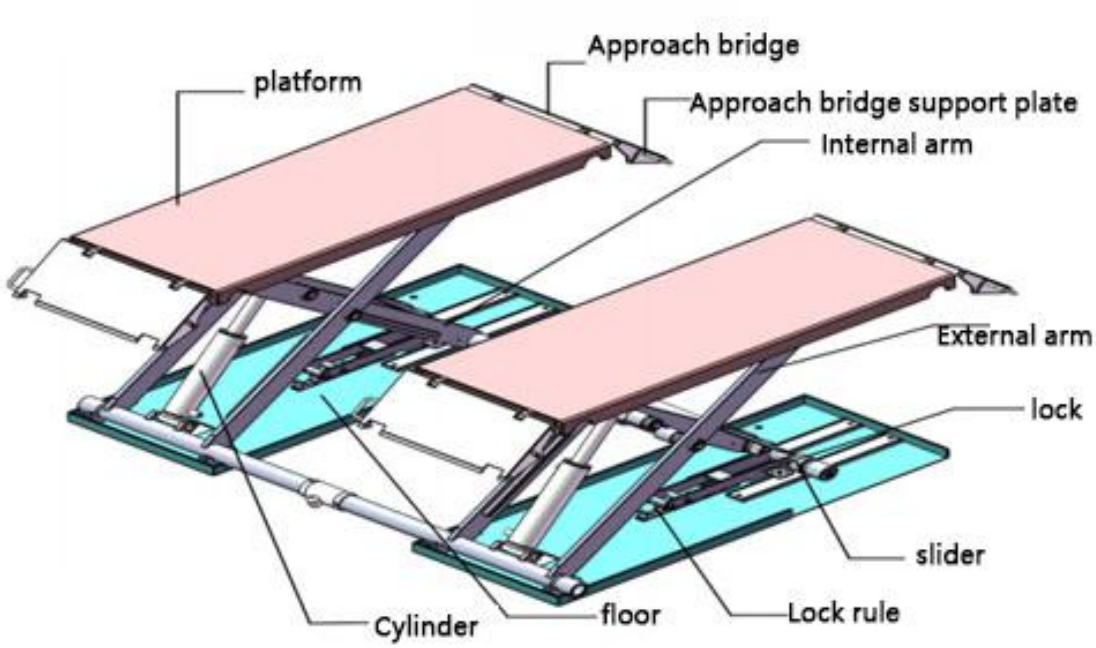
5.1the machine shall be installed in a safe place. The ground should not be damaged or uneven so that the machine can run smoothly and the platform can move freely.
5.2 if it is installed outdoors, it must be protected from moisture and rain.
5.3 the following is the applicable working environment:
① Relative humidity from 30-95%, no water drop
② Temperature: 5-55 ℃

⚠ The machine must be kept away from explosive objects

The maximum space of the machine is 3200x2000mm, and the minimum distance from the wall is as shown in the figure.



⚠ This dimension is the operating range of the machine. Access to this area is prohibited except for specially trained or authorized personnel.



Lift details

The above is the main component drawing. Refer to exploded view for detailed components and assemblies

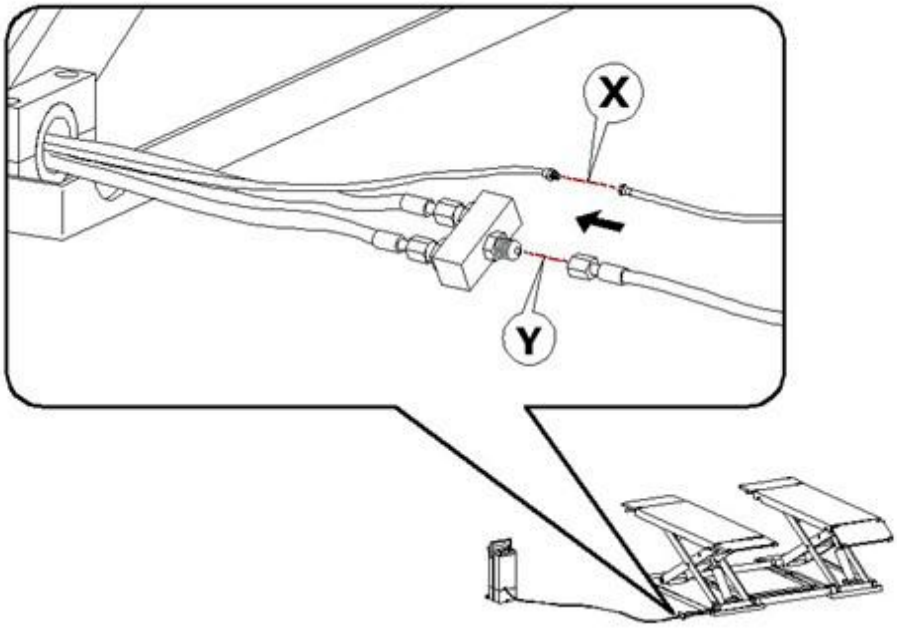


The above is the control cabinet diagram. Refer to exploded view for detailed components and assemblies

6. Installation

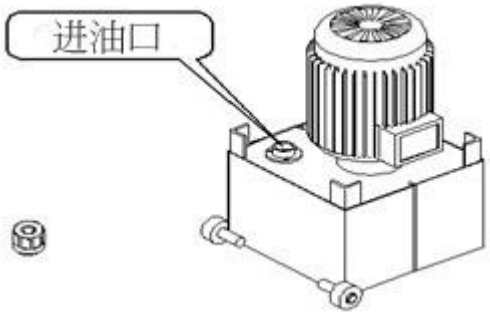
6.1 pipeline connection

There are two pipes in the pump station as shown in the figure. (x) Tube is a pneumatic tube used for safety door lock. (Y) It is used for hydraulic oil pipe and hydraulic cylinder.



6.2 filling hydraulic oil

First open the motor box, then open the oil tank cover and open the oil inlet anticlockwise. Inject 32 × hydraulic oil from the oil inlet in winter / 46 × hydraulic oil in summer, as shown in the figure.



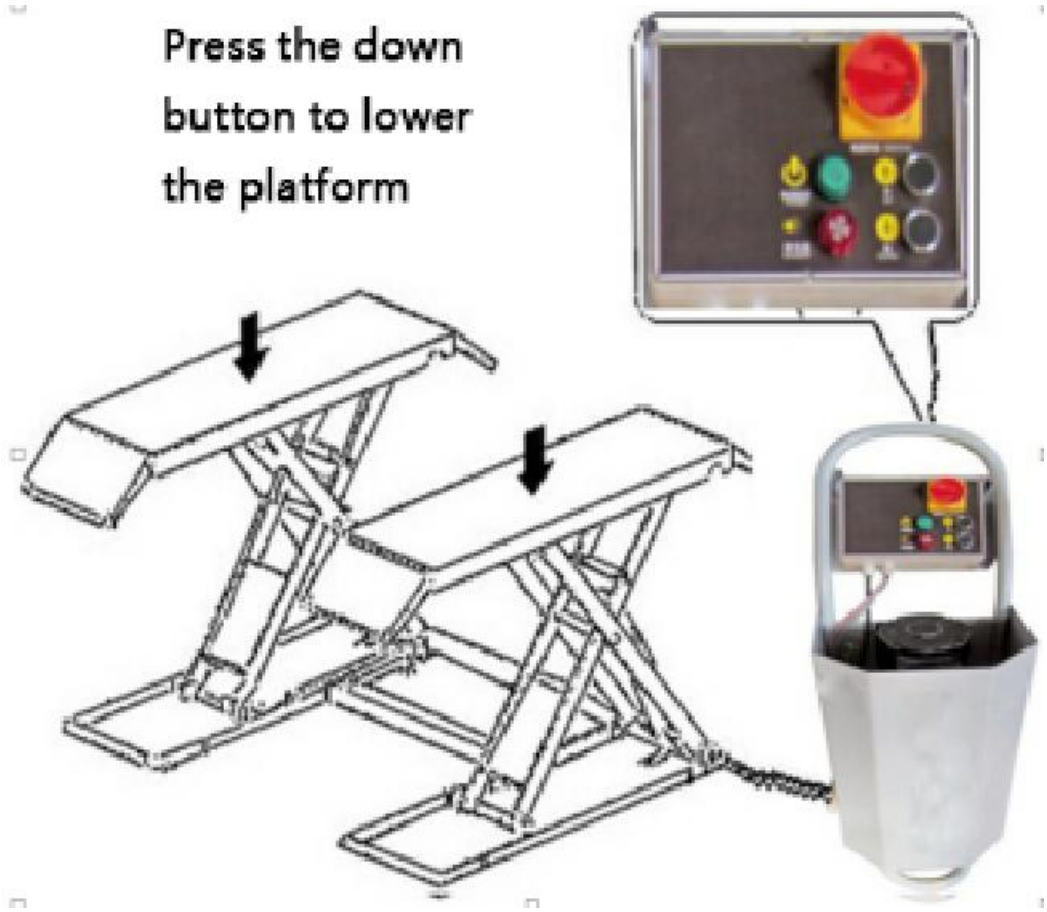
※ The specified qualified hydraulic oil must be used. Other oil will cause serious damage to internal parts: gear pump, oil pipe cylinder, etc

When the machine is working, make sure there is enough hydraulic oil in the oil tank.
Do not overfill hydraulic oil, otherwise it will cause overflow and oil level rise.
Before working, make sure that the tank cap is closed correctly

7. Operation During operation, keep your hands and other parts of your body as far away from the moving parts of the machine as possible. Such as necklace, bracelet and over



When the power is turned on, turn on the power switch clockwise, and the indicator display is in standby mode



hen the hoist is working, remember:

No one is allowed to stay in the lifted vehicle, otherwise personal injury or death will be caused!

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8. Storage

If the machine needs to be kept for a long time, the following items must be noted:

8.1 lower the platform and do not place objects on the machine

8.2 disconnect all power to the machine

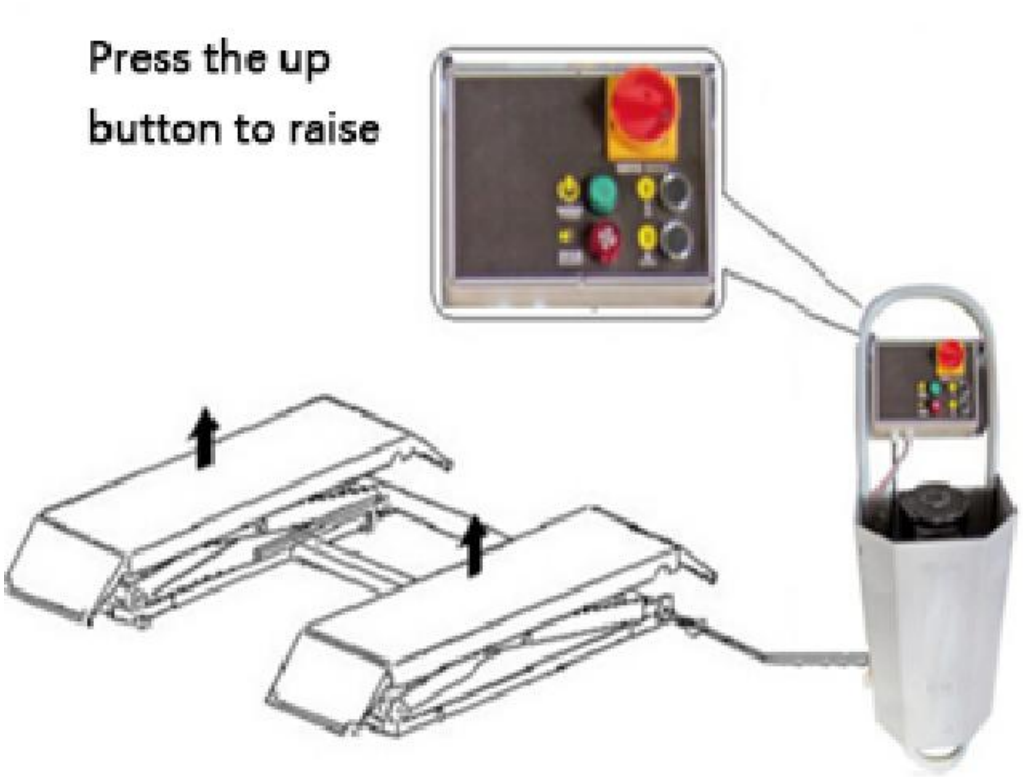
8.3 oil the parts lacking oil

8.4 prevent dust from entering internal fittings

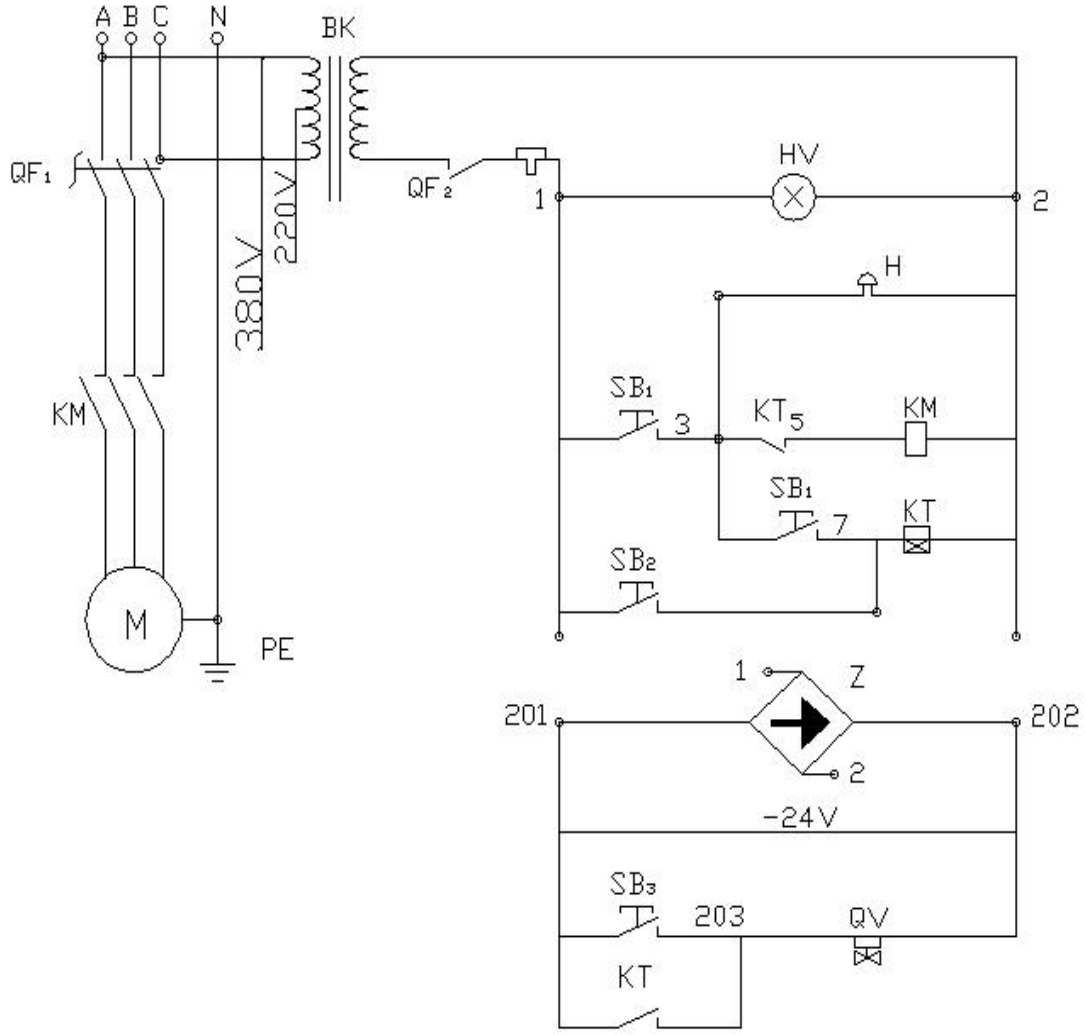
If the machine is to be re operated after a long period of storage, it must be noted that:

8.5 filling the oil tank

8.6 electrical connection

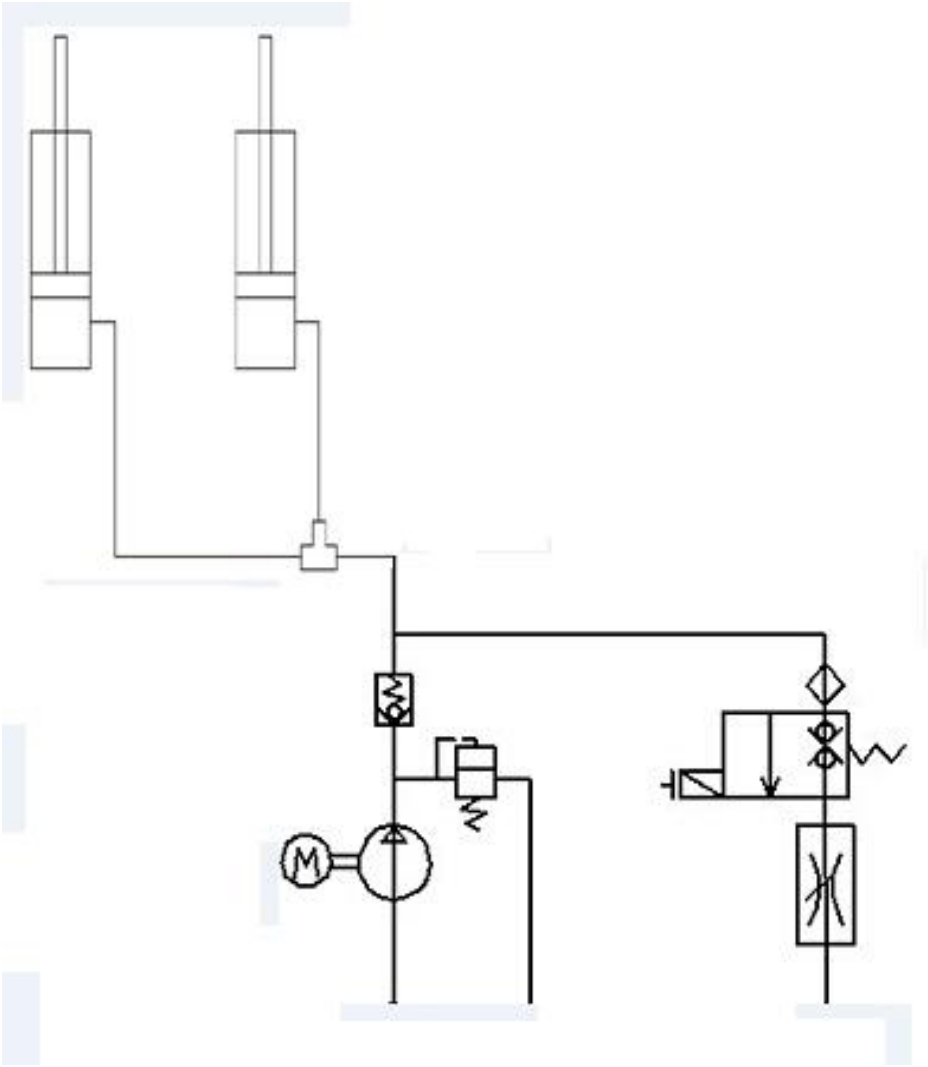


9. Hoist electrical system diagram

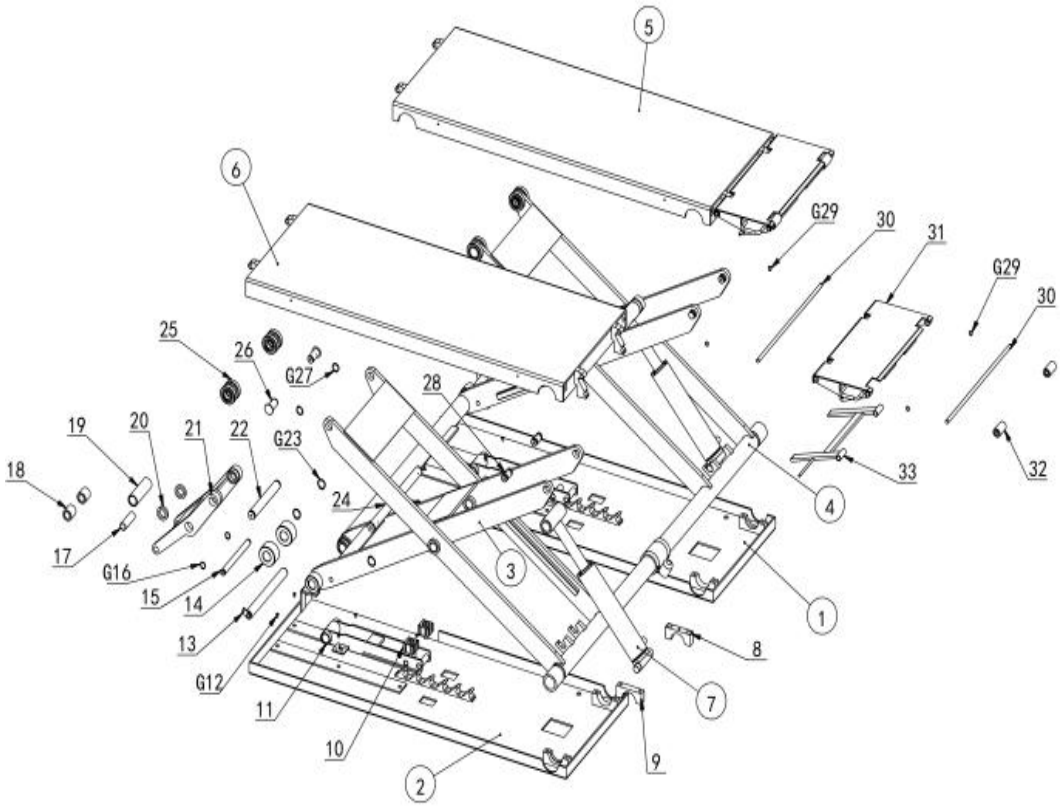


NO	CODE	Name of accessories	Specification and model	Number
1	QF1	CAM switch	N11	1
2	QF2	Miniature circuit breaker	D847-631PC3A	1
3	H	Buzzer	ND16 AC24V	1
4	SB1/SB2/SB3	Button	BA-21	3
5	KM	AC contactor	CT*2 P10 AC24V	1
6	KT	Time relay	JSYZ6-5S AC24V	1
7	QV	Pneumatic solenoid valve	3V210-8 AC24V	1
8	Z	Rectifier block	KBDC35-10	1
9	M	Motor	220V/380V	1
10	SQP	Travel switch	BLXW-6/11ZL(T311)	1

10. Hydraulic system diagram of hoist



11、Breakdown



Part NO.	Name	NO	Model	Part NO.	Name	NO	Model
1	Left base plate	1		18	Start axis	4	
2	Right base plate	1		19	Inner arm bush	2	
3	Internal arm	1		20	Bearing retainer	4	
4	External arm	1		21	Starting arm	2	
5	Upper left cover plate	1		22	Upper shaft of oil cylinder	2	
6	Upper right cover plate	1		23	Circlip	8	Φ30
7	Cylinder	2		24	Arm center axle	2	
8	Upper fixed seat of support arm	1		25	Rolling wheel	8	
9	Lower fixed base of support arm	1		26	Rolling axle	4	
10	Sda20 * 15 cylinder	4		27	Circlip	4	Φ25
11	Locking teeth	2		28	Fixed shaft of upper cover	4	
12	Cross countersunk head screw	12	M6*10	29	Circlip	8	Φ12
13	Welding of wheel sliding shaft	2		30	Approach axle	4	
14	Inner arm roller	4		31	Approach bridge	2	
15	Starting arm travel axis	2		32	Rolling wheel	4	
16	Circlip	4	Φ20	33	Approach bridge support	2	
17	Starting wheel spacer	2		34			