



FELICE LX7440

LX7440– MechanicalTwo Post Lift
User's Manual



Date	Revised Version	Describe	Author
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Warning

- This manual is a necessary part of this product, please read it carefully.
- Keep this manual safe for use during maintenance.
- Follow this instruction manual and use only the accessories recommended by the manufacturer.
- This machine should only be used for the purpose specified in the design, do not use it for other purposes.
- The manufacturer shall not be liable for any damage caused by improper use or diversion.

Matters Need Attention

- The machine installation and debugging personnel must have certain electrical knowledge, operators must be specially trained and qualified, without the permission of the manufacturer or according to the instructions, any change in the parts and scope of use of the machine may directly or indirectly cause damage to the machine.
- Do not expose the lift to extreme temperature and humidity. Avoid placing near heating equipment, faucets, air humidifiers, or furnaces.
- The lift shall be protected from large amounts of dust, ammonia, alcohol, diluents or spray-on adhesives and from rain.
- When the machine is working, non-operator should not go near the machine.
- Daily inspection of the lift, do not run in the case of a fault or damaged parts of the lift, repair and replacement parts should use the original equipment parts.
- The lift shall not be overloaded. The rated bearing weight of the lift is indicated on the nameplate.
- Please do not lift the lift when the vehicle is occupied. Customers and bystanders should not be in the lifting area during operation.
- Keep lift area free of obstacles, grease, oil, garbage and other impurities.
- Adjust the lift support to contact the lifting point recommended by the manufacturer. Raise the lift and make sure the support is in close contact with the vehicle. Raise the lift to the appropriate working height.
- For some vehicles, the removal (or installation) of components can cause a severe shift in the center of gravity and cause instability in the vehicle. Safety brackets are needed to keep the vehicle balanced.
- Before leaving the lift area, locate the swing arm and support of the lift to avoid obstruction during movement.

- Use proper equipment and tools and protective equipment, such as overalls, safety shoes, etc.
- Pay special attention to the various safety signs affixed to the fuselage.
- Do not touch the moving parts with hair, loose clothes, hands or other parts of the body when the lift is working.
- Take special care not to remove or disable the safety devices of the machine.
- Allow assemblies to cool completely before storage, and cords etc. on fittings to be completely relaxed during storage.
- Do not place the lift in the open air or where rain can reach it. Where unavoidable, special supply requirements should be provided to the manufacturer.
- Check the device list carefully before installation. If you have any questions, please contact the distributor.

Felice Taiwan is committed to continuously improving product quality and updating technical specifications, subject to change without prior notice.

Warning label understanding

- (1) Before using the lift, you should carefully read the operation manual and installation and commissioning manual.
- (2) It must be properly maintained and inspected for operational safety



- (3) Do not operate the damaged lift!



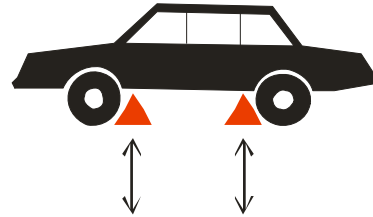
- (4) The lift should only be used by trained operators!



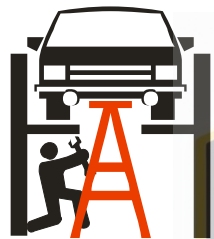
- (5) Access to the lift area is restricted to authorized personnel only.



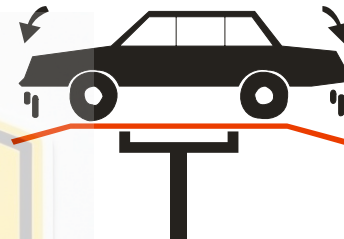
- (6) Lift points recommended by the vehicle manufacturer should be used.



- (7) Always use safety brackets when removing or installing heavy components.



- (8) The use of auxiliary frames will reduce the load capacity of the lift.



- (9) When there is a danger of overturning the vehicle, the surrounding area should be clear.



- (10) The center of gravity line of the vehicle must be between the two supporting arms.



- (11) When lifting or lowering the vehicle, the lift should be accessible around the lift



- (12) When the vehicle is on the lift, avoid excessive rocking of the vehicle



(13) Unilateral lifting of vehicles is strictly prohibited



(14) When the lift is descending, the foot must leave the lift



(15) When the lifting machine is in the operation state of load rising or falling, it is forbidden to stand under the bracket and lifting platform



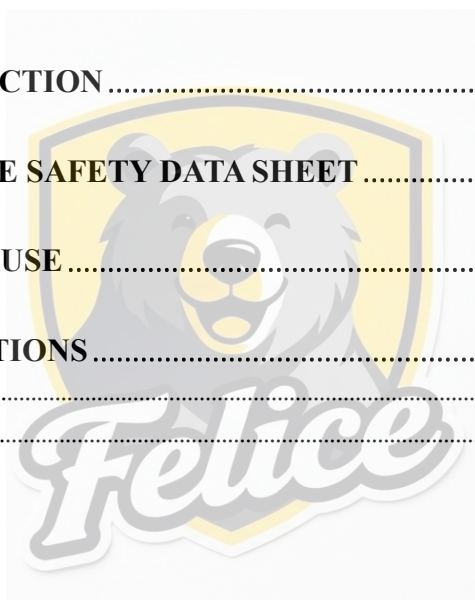
(16) No one is allowed to stand on the lift bearing device



Catalogue

1	OVERVIEW	1
1.1	Demonstration of the type	1
1.2	Use	1
1.3	Functions and characteristics	1
1.4	Technical specification	1
1.5	Environmental requirement	2
2	MACHINE STRUCTURE AND PRINCIPLE	2
2.1	Structural representation	2
2.2	Equipment structure principle	3
3	OPERATING INSTRUCTIONS	4
3.1	Car repair precautions	4
3.2	Preparation before operation	4
3.3	During operation	4
3.4	Lifting car	4
3.5	Lower car	5
3.6	Dangerous zone	5
4	ELECTRICAL OPERATION	6
4.1	Display operation instructions	6
5	FREQUENTLY ASKED QUESTIONS AND SOLUTIONS	10
6	CARE AND MAINTENANCE	10
6.1	Keep clean	10
6.2	Every day:	10
6.3	By the month:	11
6.4	Every six months:	11
7	STORAGE AND SCRAP	11
7.1	Storage	11
7.2	Scrap	11
8	INSTALLATION AND DEBUGGING TOOLS	12
8.1	Tools	12
8.2	Unpack	12
8.3	Installation precautions	12
8.4	Installation procedure	13

8.4.1	General orientation	13
8.4.2	Mounting plate layout	13
8.4.3	Installation of main column	14
8.4.4	Install the cable tray	15
8.4.5	Install beam	16
8.4.6	Install bracket	17
8.5	Testing of equipment	18
8.5.1	Preparation before commissioning	18
8.5.2	Debugging procedure	18
9	EQUIPMENT PARTS DETAIL	19
10	PACKING INSTRUCTION	24
11	MACHINE GREASE SAFETY DATA SHEET	25
12	GUARANTEE CLAUSE	25
13	OTHER INSTRUCTIONS	26
13.1	Disclaimer	26
13.2	Order notify	26



1 Overview

1.1 Demonstration of the type

Type	explan
LX7440-Mechanical Two Post Lift	4T

1.2 Use

This model is suitable for lifting vehicles with a total weight of 4t or less for vehicle repair and maintenance

1.3 Functions and characteristics

- The cable is fully hidden, beautiful appearance.
- Designed according to international standards, in line with public demand.
- Mechanical punching insurance, effectively protect the vehicle from being damaged.
- Double motor drive, smooth lift.
- The bracket locking mechanism is equipped with a wider tooth block to effectively prevent the bracket from slipping and make the lifting vehicle safer.
- Touch screen control, safe and easy operation.
- Dual motor synchronous connection, two sliding platform synchronous movement, effectively prevent vehicle tilt.
- Patented slider support structure, later maintenance is more convenient and efficient.

1.4 Technical specification

- Noise
Working noise: $\leq 75\text{dB}$ (A)
- Electric parameter:
Electrical machinery
Three phase: 220V/50Hz/60Hz 1.5 kW
- Basic parameter of equipment:

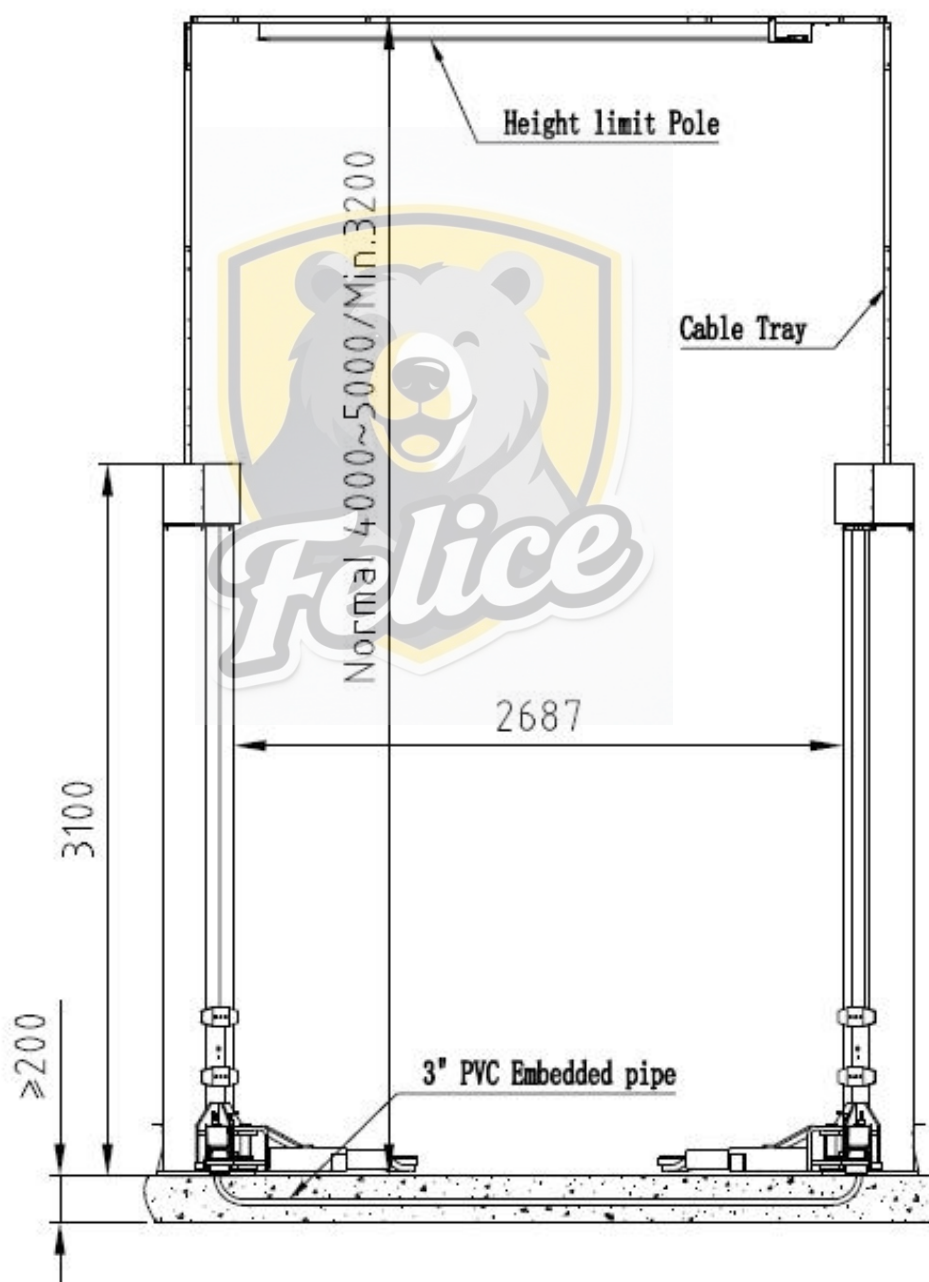
Type	rated load	Lifting height	Rise time	Decline time	Pass width	Overall width	Machine height
LX7440	4000 kg	1990 mm	$46\leq s$	$46\leq s$	2460 mm	3300 mm	3200 mm~ 5000 mm

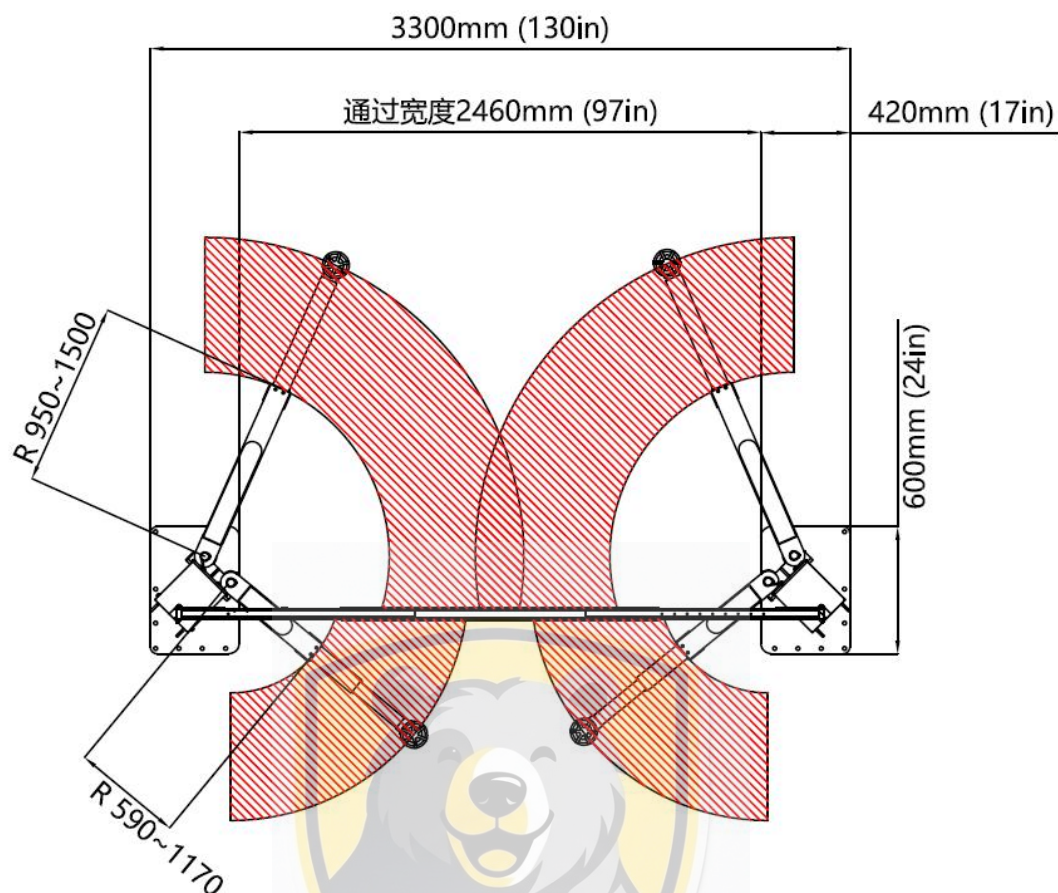
1.5 Environmental requirement

- Operating temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$
- Relative humidity: temperature $+30^{\circ}\text{C}$, Relative humidity80%
- Transport and storage temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$
- Operational altitude: not exceeding 2000m

2 Machine structure and principle

2.1 Structural representation





2.2 Equipment structure principle

- Lifting mechanism: a motor is installed in the two columns respectively. When the motor starts, it drives the synchronous wheel to rotate, thereby driving the screw to rotate, thereby driving the slide to move down.
- Supporting mechanism: when the car enters the work area, adjust the Angle and expansion length of the two brackets, so that the tray is in the effective supporting point position of the car, and then adjust the height of the screw under the tray to adapt to the different height of the car chassis.

3 Operating instructions

3.1 Car repair precautions

- All kinds of vehicles have different positions of center of gravity. First understand the position of the center of gravity of the car, the car into the lift, to make the center of gravity near the plane composed of two columns. Make sure the lift position is at the lift point recommended by the vehicle manufacturer.
- When lifting the vehicle, pay attention to the position of the roof and do not approach the beam or other overhead obstacles to avoid accidents.
- Read warning signs carefully.

3.2 Preparation before operation

- On the moving contact surface of the slide block column of the slide table, add general lithium grease (GB7324-87), requiring all sliding surfaces to be evenly coated from top to bottom.

3.3 During operation

- Check that the motor power supply is correctly installed.
- Check that all connection bolts are strong.



Attention: Do not operate the lift with broken ropes or parts damaged or fallen. It can not be operated until it is inspected and repaired by professionals.

3.4 Lifting car

- Remove debris from the area around the lift.
- Lower the slide to the lowest position.
- Shrink the bracket to its minimum length.
- Swing the bracket along the path of the vehicle.
- Move the vehicle between the two bodies.
- Move the pallet on the bracket below the car's recommended lift point and rotate the pallet to make even contact with the car's lift point.
- Press the starting switch on the motor to lift the vehicle to ensure load balance, and then raise the lift to the required height.
- Release the lift button, automatically lock, you can carry out vehicle maintenance operations.



Attention:

✧ Before use, be sure to check the safety mechanism

(1) the positioning tooth mechanism at the end of the bracket arm is consistent;

(2) Whether the lift pad is deformed.

- ✧ All brackets must be used when lifting the vehicle.
- ✧ After the vehicle is raised, jack support is required to maintain the balance of the vehicle when adding or removing any major heavy objects.

3.5 Lower car

- Clear the area under and around the lift.
- Press the down button to slide the platform down.
- Lower the lift to the bottom of the arm and release the button away from the lift point.
- Remove the vehicle by fully retracting the underarm.

3.6 Dangerous zone



Attention: When the lift is not working, be sure to cut off the power supply.

4 Electrical operation

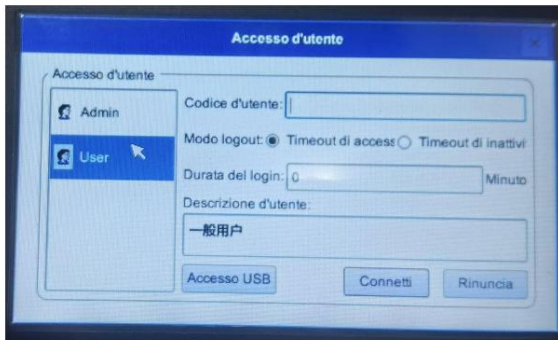
4.1 Display operation instructions

After the device is turned on, the following interface will be displayed

The image displays two versions of a user login interface, one in Chinese and one in English. Both interfaces show a list of users on the left, a password field, a logout method selection, a login time field, a user description field, and buttons for USB login, login, and cancel. Red circles with numbers 1 through 4 highlight specific steps: 1. Select user, 2. Enter the password, 3. According to login, and 4. If there is a USB drive encryption, you can first select User and then click on USB login to enter the work interface.

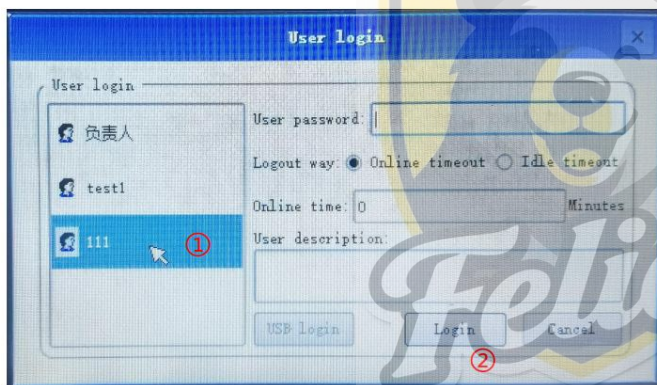
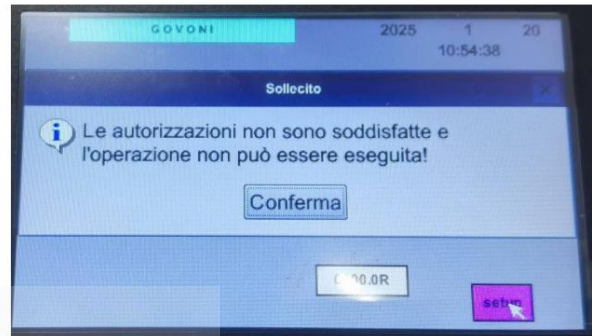
1. Select user
2. Enter the password
3. According to login
4. If there is a USB drive encryption, you can first select **1** User and then click on **4** to enter the work interface.

Note: Encrypted USB drives are divided into user USB drives and administrator USB drives. Administrator USB drives are marked with a redmark at the back.



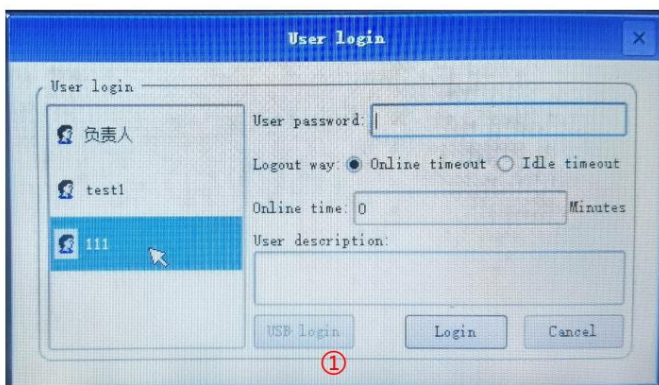
If the user selects User (general user) after booting up and the password is 111, if a key USB drive is used, press the key USB drive button directly to enter the work interface, which is the same as the administrator's work interface.

Upon pressing the settings button on the general user's work interface, a permission warning window will pop up, and the settings button and settings interface will not启动 open. By clicking confirm in the window, the user will be returned to the work interface. If access to settings is required, the device must be turned off and then turned back on. On the login screen, select Admin (Administrator), with the password being hjkl, and then click login. If a red key USB drive is available, it can be inserted and then USB login can be used to directly enter the system.



- 1 Click user 111
 - 2 Click the login button
- Then enter the work interface.
Note: The work interface only displays the current status and does not allow any operations such as setting parameters.

The above login methods will be changed or canceled in subsequent versions.



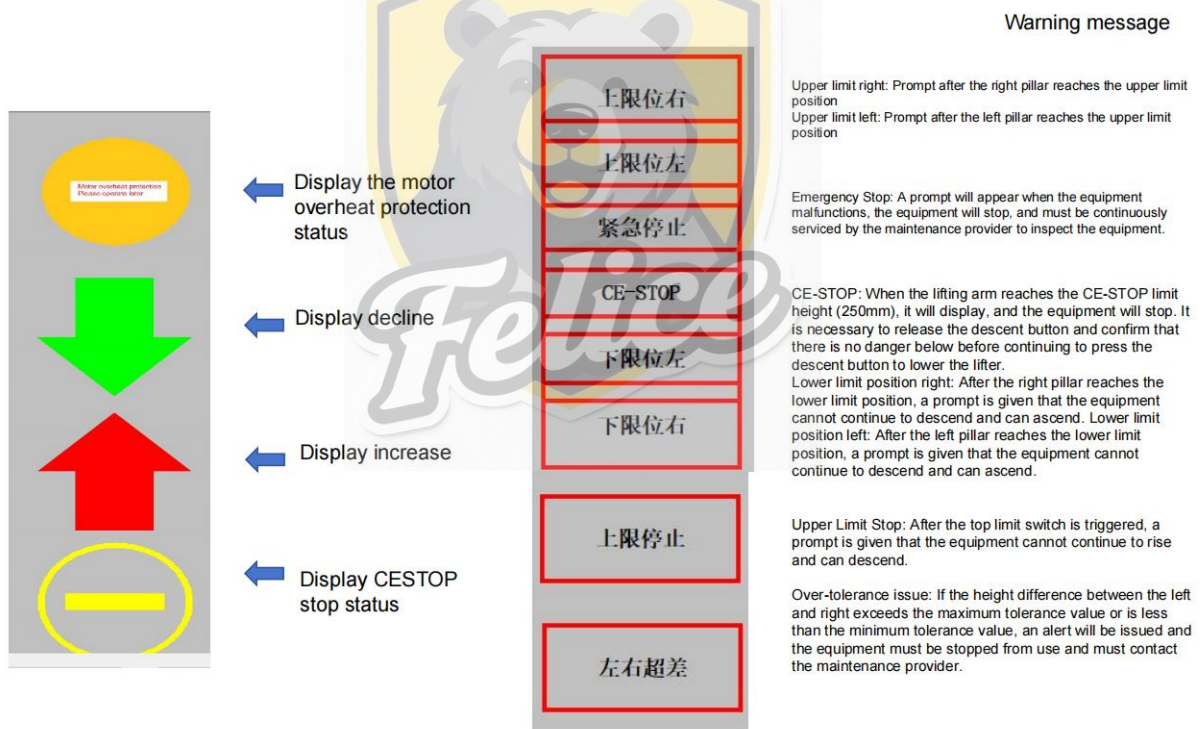
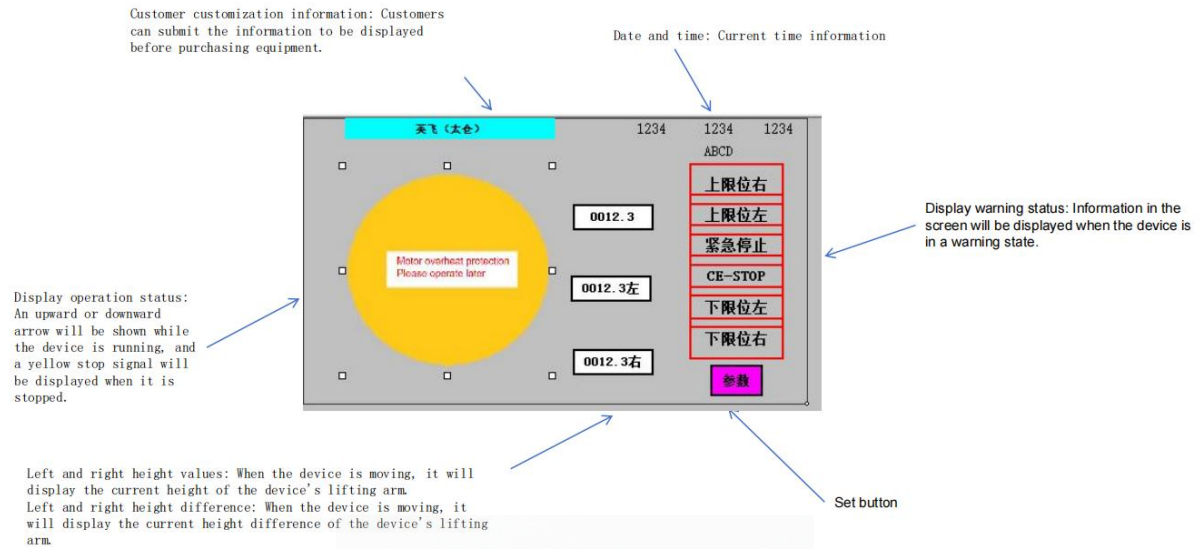
If there is a user logged in encrypted USB drive behind the device display

- 1 Click the USB login button
- Then enter the work interface.

Note: The work interface only displays the current status and does not allow any operations such as setting parameters.

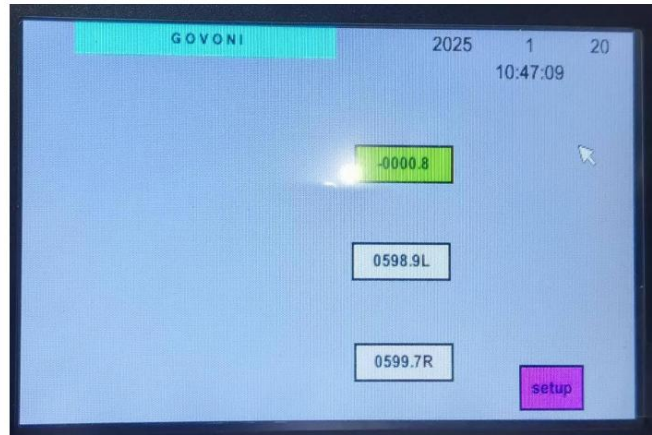
The above login methods will be changed or canceled in subsequent versions.

Work interface



Work interface

- When the device is running, the current status will be displayed.
- Pressing the settings button will enter the settings interface.
- The display will show the height of the left pillar, the height of the right pillar, and the difference in height between the left and right.
- The date and time are displayed in the upper right corner.
- An alert message will be displayed above the set button, and if there is no such area, it will show a blank.



5 Frequently asked questions and solutions

Fault phenomenon	Fault cause	Solution
Motor not running	◆ Power supply problems; ◆ Motor overheating; ◆ Motor failure; ◆ Potentiometer failure; ◆ The switch is damaged.	◆ Check whether the power circuit breaker and fuse are normal. Check the power supply, power cable connection terminal, power cable, If abnormal, adjust and replace in time; ◆ Stop use, use after the motor temperature cooling; ◆ Replace the motor; ◆ Change potentiometer; ◆ Change switch.
Rise and fall are reversed	◆ The motor reverses;	◆ Correct wiring;
When the machine is running, the lifting arm cannot rise or the load will slip	◆ Belt damage; ◆ In excess of load; ◆ Nut and screw failure ◆ Bearing wear; ◆ Slider exception; ◆ Motor power supply phase deficiency	◆ Check belt, replace; ◆ Check that the weight of the vehicle exceeds the requirements of the lift; ◆ Replace the nut and screw; ◆ Replace the bearing; ◆ Replace the slider; ◆ Check the motor power supply.
The lift will not rise	◆ The installation ground is not level; ◆ The installation column is not vertical; ◆ The potentiometer synchronizer is abnormal.	◆ Install on a level floor. See installation instructions; ◆ Adjust the vertical of the column; ◆ Adjust the potentiometer.
Abnormal sound	◆ Bearing abnormal noise; ◆ Column slide table abnormal noise; ◆ Abnormal belt noise;	◆ Lubricate or replace bearings; ◆ Lubricate or replace the slider; ◆ Adjust belt or replace.

6 Care and maintenance

6.1 Keep clean

- The machine should be wiped with a dry cloth frequently to keep it clean. The power supply should be cut off before cleaning to ensure safety.
- The working environment of the machine should be cleaned frequently and kept clean. If the working environment is more dusty, it will accelerate the wear of the parts and shorten the service life of the machine.

6.2 Every day:

- Before work, carefully check the safety insurance mechanism of the machine, whether the

safety board is in place, if any abnormality is found, it should be adjusted, repaired or replaced immediately.

6.3 By the month:

- Tighten the anchor screws again.
- Lubricate the lead screw.
- Check all bolts and pins to ensure proper installation.
- Check whether the synchronization belt is worn.
- To check whether the movement of the slide block on the inside of the column is correctly lubricated, high-quality heavy lubricating grease (lithium grease GB7324-87) should be used.



Attention: All anchor screws should be completely tightened. If any screw does not work for some reason, the lift should be shut down until the bolt is replaced.

6.4 Every six months:

- Inspects all moving parts for possible wear, disturbance or damage.
- Check whether the lead screw is deformed or damaged. Replace the lead screw in time if necessary.
- Check and adjust balance tension to ensure level rise and fall.
- Check the perpendicularity of the column.



Attention: The inner corners of each cylinder should be lubricated with lubricating oil to minimize friction of the slider and ensure smooth and even lifting

7 Storage and scrap

7.1 Storage

- When the equipment needs to be stored for a long time.
 - ✧ Unplug the power.
 - ✧ Lubricate all parts required to be lubricated: moving contact surfaces of slides, etc.
 - ✧ Cover the device with a plastic cover to prevent dust.

7.2 Scrap

- When the device can no longer be used, unplug the power supply and properly handle the problem according to local laws and regulations.

8 Installation and debugging tools

8.1 Tools

- To ensure smooth installation and commissioning, prepare the following common tools

Tool	Type
Gradienter	The kind that carpenters use
Chalk line	Minimum 4.5m
Hammer	1.5kg
Adjustable wrench	40mm
Open wrench set	11mm-23mm
Pawl socket kit	
Flat head screwdriver	150mm
Percussion drill	20mm
Carbide bit	∅ 19mm

8.2 Unpack

- Unpack the packing case, remove the surrounding packing materials, check whether the machine is damaged in transit, and check whether the main parts and accessories are complete against the packing list.
- Keep packaging materials away from children to avoid danger; If packaging materials can cause contamination, they should be disposed of properly.

8.3 Installation precautions

- Incorrect installation may cause lift damage or personal injury. The manufacturer shall not be liable for any damage caused by incorrect installation or incorrect use of this product, whether directly or indirectly.
- The correct installation location should be "level" ground and ensure that the level is raised. A slight inclination of the ground can be compensated for with a suitable thin pad. Any large tilt will affect the performance of the unit for horizontal lifting. If the floor has a suspicious tilt, consider a visual inspection or, if possible, pouring a new horizontal concrete slab. In short, in the optimal level lifting state, the level of equipment lifting depends on the level of the ground on which it is installed, and it is not expected to offset the severe slope of the ground.
- The device shall not be installed on any asphalt surface. According to the minimum specifications in the general flooring requirements, the device shall not be installed on any surface other than concrete. Do not install the device on concrete with large cracks or cracks or defects, please check with the building engineer.

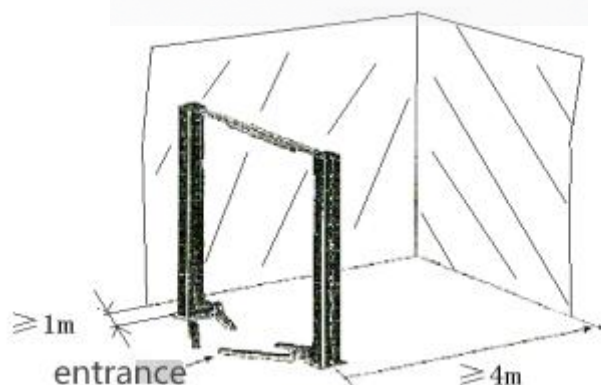
- The installation shall not be installed on a second floor with a basement without the written approval of the building engineer.
- Overhead obstacles: The lift installation area should not have any overhead obstacles, such as heaters, building supports, electrical piping, etc.
- Ground borehole test: The installer can use the ground borehole test to determine the thickness of the concrete in each site. If multiple lifts are to be installed in a single location, it is preferable to perform borehole tests at each installation location.
- Power supply: The power supply should be prepared before installation. It is recommended that all electrical wiring be carried out by a certified electrician.

8.4 Installation procedure

8.4.1 General orientation

Select the lift location according to the procedure listed below:

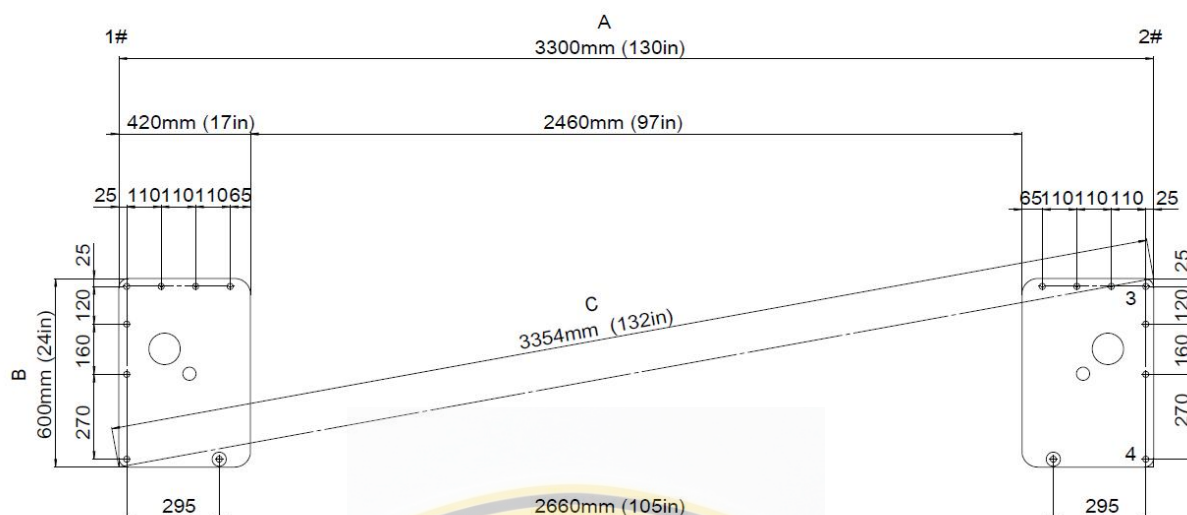
- The lift can only be installed on concrete slabs with a minimum thickness of 250mm and a minimum curing time of 7 days.
- Concrete slabs shall be reinforced with steel bars.
- Concrete slabs must be level, grade C25-C30.
- Check for possible obstacles such as lower ceilings, overhead lines, work areas, passageways, exits, etc.
- The front and rear of the lift machine should have enough space to accommodate all vehicles (approximately 4m on each side from the center line).



8.4.2 Mounting plate layout

- Based on the total width (A), draw two parallel lines (#1 and #2) on the concrete slab, and the error should be within 3mm.

- Determine the position of one side of the column first on either chalk line and mark the dimensions in the width direction (B) of the base plate. Mark points 3 and 4.
- Starting at point 3, draw a diagonal line (C) to form a triangle so that there are vertical lines to set the positions of the columns to each other.

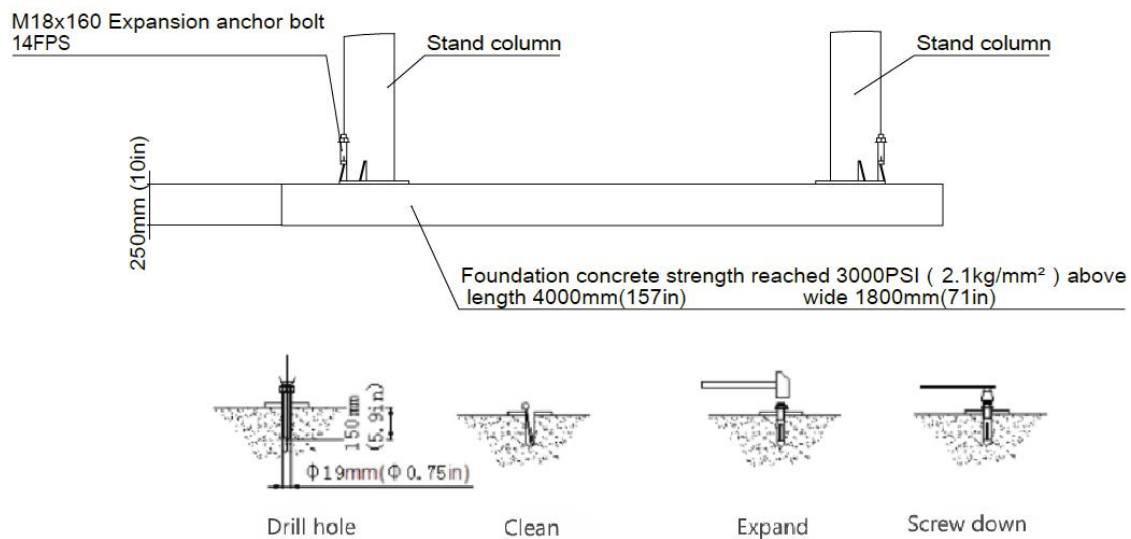


Attention:

- ✧ All dimensions are based on the outer boundary of the base plate.
- ✧ Ensure that the overall error is controlled within 6mm, which can eliminate difficulties in the final assembly.
- ✧ Drawing a line layout is very important. If it is not accurate, there will be problems in the final assembly and operation.

8.4.3 Installation of main column

First, the two columns are placed in the installation position with lifting equipment, and the two columns are erected to keep the bottom plate and chalk line layout straight. Use a level (instrument) to measure, select a suitable steel liner as a gasket to insert it under the bottom plate of the column, so that the column is vertical to the ground, and the two columns are aligned without distortion. The holes in the bottom plate of the main column are used as guides to fix them to the ground with concrete anchor screws. Drill a hole and install anchor screws at once. Ensure that the column does not move during drilling.



Attention:

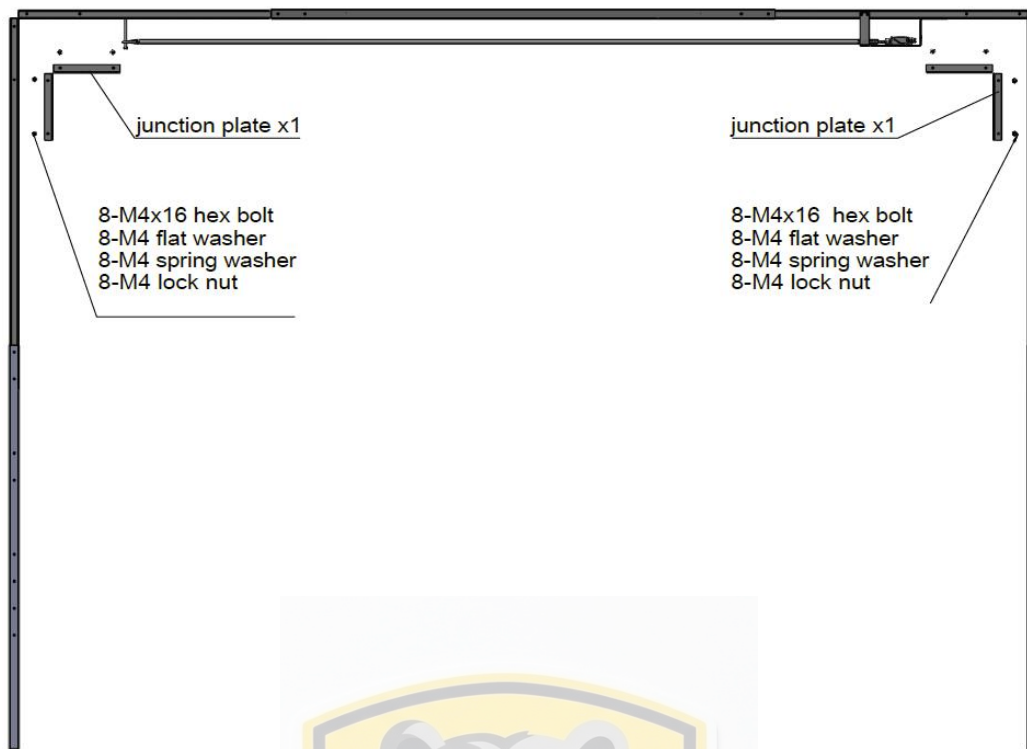
- ✧ When tightening anchor screws, **only use a torque wrench, do not use impact tools to tighten.**
- ✧ The **thickness of the gasket at the same position under the bottom plate should not exceed 5mm**, and the **column bottom plate should be cushioned around it**, otherwise the bracket arm will shake when lifting the vehicle.

For proper safety and performance, install anchor bolts as per the installation procedure below.

- Wear safety goggles.
- Use a sharp carbide tipped drill bit.
- Do not use bits that are worn out of tolerance.
- Keep the drill bit perpendicular to the drilling surface.
- Let the bit work by itself without applying extra pressure and without reaming the holes.
- Drill a hole at least twice the diameter of the bolt based on the length of the bolt.
- Blow the dust out of the hole with a pneumatic tool.
- Tap the screw into the hole until the washer is against the fixture.
- Tighten the bolt, 120Nm torque.

8.4.4 Install the cable tray

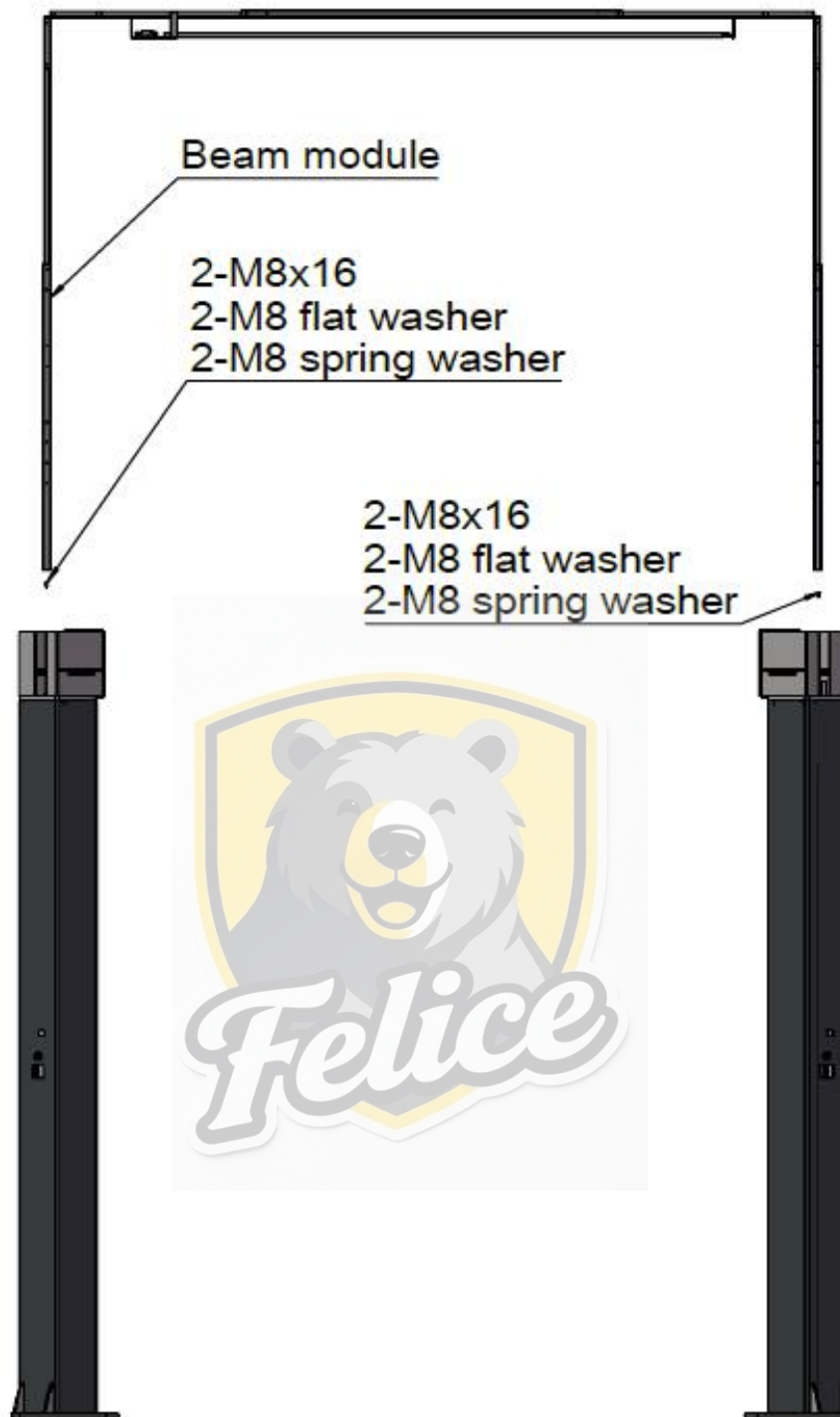
- Align the mounting holes of the horizontal and vertical cable trough plates, clamp the left and right sides of the connecting plates, and lock the bolts.



8.4.5 Install beam

- Align the installation holes at the bottom of the cable tray module with the installation holes on the column, and lock the bolts.





8.4.6 Install bracket

- Install the bracket as shown



Attention:

- ✧ Before use, be sure to check whether the positioning tooth mechanism at the end of the bracket arm is anastomosed, which can be made by adjusting the screws fixing the half gear.
- ✧ The bracket and slide accessories need to be lubricated during installation so that the bracket can move freely.

8.5 Testing of equipment

8.5.1 Preparation before commissioning

- Check whether there is any debris around the equipment that interferes with the work of the equipment, and ensure that the working environment of the equipment is normal.

8.5.2 Debugging procedure

- Check that the motor power supply is correctly installed.
- Check that all connection bolts are strong.
- Do not load, press the starting switch on the motor, slide up; Stop pressing, slide stop.

- If no abnormality is found in the no-load check, lift another vehicle and perform load debugging by following the preceding steps. When repairing the car, ensure safe operation when the car rises to the required height.
- Debugging is complete.

9 Equipment parts detail



Attention:

- ✧ This detail is only for repair and maintenance personnel to provide reference, do not use it, otherwise all the consequences of the company will not bear.
- ✧ If any parts are damaged, please purchase them from the distributor according to the corresponding material code in the details.

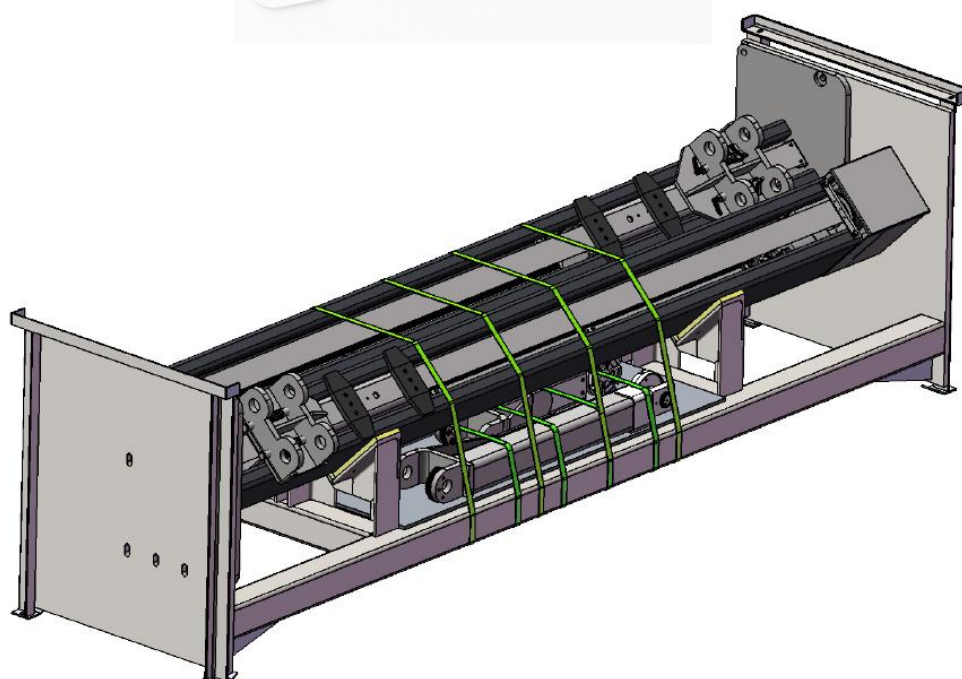


10 Packing instruction

Appendix: Transport Guide:

- The package size is shown in the table below, the package diagram is shown in the figure below, and the transportation guide is printed on the package.
- When using a forklift to lift the package, the distance between the two forklift arms should be at least 700mm and equidistant from the center of the package; When using a forklift fork to pick up the goods, the fork should be as deep as possible under the load; It should also be noted that the fork tip cannot touch the goods, and it is forbidden to pick up the goods at high speed and push the packaging and goods with the top of the fork; Avoid the loss of products caused by collision and excessive accumulation of goods during transportation.

Type	Name	Packaging
		Boundary dimension Length × width × height
LX7440	4T Mechanical Two Post Lift	3242mm×800mm×931mm



11 Machine grease safety data sheet

● No.2 lithium grease

Project	Quality index
penetration (1/10mm)	278
dropping point °C	185
corrosion (T2 copper sheet, 100 °C, 24h)	The copper sheet has not changed
Copper mesh oil separation (100°C, 22h) %	4
evaporation capacity (100°C, 22h) %	2
oxidation stability (99°C, 100 h)	0.2
anti-corrosion property (52°C, 48)	1
Impurity (microscopy)/ (PCS/cm ³)	
10µm above max	5000
25µm above max	3000
75µm above max	500
125µm above max	0
Similar viscosity (-15°C , 10s ⁻¹) ,/(Pa·s)	800
max	
Amount of water loss (38°C, 1h) (%)	8
max	

12 Guarantee clause

- This warranty is only applicable to users and distributors who have purchased our products through normal trading procedures.
- Within 12 months from the date of delivery, Felice Taiwan shall guarantee its mechanical and electrical parts due to defects in materials or workmanship, and damage to the equipment or parts due to abuse, unauthorized alteration, use for purposes other than those for which the product was designed, failure to operate in the manner specified in the instructions, etc., shall not be covered by this warranty. The method of compensation for damage to the vehicle instrument caused by the defect of this equipment is limited to repair or replacement, and Felice Taiwan shall not be liable for any indirect and incidental losses. Felice Taiwan will determine the nature of equipment damage in accordance with its prescribed inspection methods. No agent, employee or business representative of Felice Taiwan has the right to make any confirmation, suggestion or promise in relation to the products of Felice Taiwan.

13 Other instructions

13.1 Disclaimer

- The above warranty may replace any other form of warranty.

13.2 Order notify

- Replaceable parts and optional accessories can be ordered directly from Felice Taiwan authorized suppliers, please specify when ordering:
 - ✧ Order quantity
 - ✧ Part number
 - ✧ Part name

13.3 Customer service

- If you encounter any problems during the operation of the equipment, please call:
+886-908-280 100
- If the equipment needs to be repaired, please send it to the manufacturer, along with the warranty card, product certificate, purchase invoice and problem description. If the equipment is within the warranty scope, Felice Taiwan will repair it free of charge and refund the prepaid freight; If the equipment is not covered by the warranty, Felice Taiwan will repair the equipment at a cost and recover the freight.

