

Instructions and Maintenance Original Manual

QSD3500S&QSD3800S

Content

Packing, Transport and Storage	4
Packing	4
Lifting and Handling.....	4
Storage	4
Stacking	5
Opening.....	5
INTRODUCTION WARNING.....	5
Conserving the manual	5
Laws.....	5
1 Abstract.....	6
2 Uses	7
2.1 Important Technical Reference	7
2.2 Working conditions:.....	8
2.3 Basic Structure of the Product	8
3. Installation and Adjustment of the Equipment.....	8
4. Safety Instruction.....	10
4.2 Warning Logo	11
5. Use and Operation	12
5.1 Preparation.....	12
5.2 Raising.....	12
5.3 Stopping.....	12
5.4 Locking.....	12
5.5 Lowering.....	12
6 Maintenance and Care	13
6.1 Maintaining Cleanliness	13
6.2 Regular Check-ups.....	13
6.3 Maintenance of the Hydraulic System.....	13
7. Common Problems and Solution Methods	14
8 Important Information for the User	14
8.1 Important Information Regarding Purchase of the Machine.....	14
8.2 Quality Assurance after Opening the Product.....	14
8.3 Foundation	15
8.4 Returning Documents	15
9 Important Items.....	15
10 Noise Declaration	15
11 DISPOSAL OF USED OIL	15
12 MACHINE DEMOLITION.....	15
13.1 QJY-2-35A Layout diagram.....	16
13.2 QYK-2-4.0B Layout diagram.....	17
14.1QJY-2-35A and QYK-2-4.0B Circuit diagram	18
15 QJY-2-35A and QYK-2-4.0B hydraulic system	19
16. Cable connection diagrams.....	20
17. Safety lock diagrams.....	22

18. Foundation diagram 23
19. Hose connection diagrams 24
Declaration of Conformity29

Packing, Transport and Storage

ALL PACKING, LIFTING, HANDLING, TRANSPORT AND UNPACKING OPERATIONS ARE TO BE PERFORMED EXCLUSIVELY BY EXPERT PERSONNEL WITH KNOWLEDGE OF THE VEHICLE LIFT AND THE CONTENTS OF THIS MANUAL

Packing

The lift of 2 post lift is shipped disassembled into following parts:

1. Complete command post, complete with carriage, hydraulic cylinders, long arms, short arms, lower cover board, and etc

The gross weight is 585kg. (Net weight is 570kg)

The lift of 2 post lift with clear floor is shipped disassembled into following parts:

1. Complete command post, complete with carriage, hydraulic cylinders, long arms, short arms, lower cover board, and etc
2. Second part of columns is packed into one piece in separating.

The gross weight is 655kg. (Net weight is 640kg)

Lifting and Handling

The pack boxes may be lifted and moved with a lift truck (Fig.1). If either of the latter two are used, boxes must be harnessed with at least 2 slings.

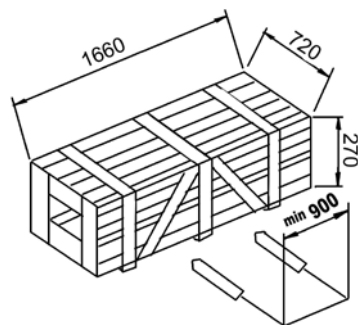


Fig.1

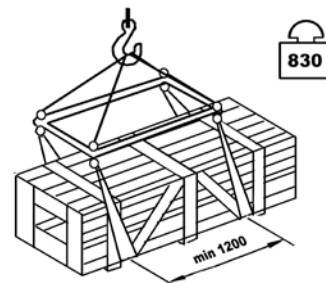


Fig.2

Storage

Pack boxes always be kept in a covered, protected place, at a temperature between -10° And +40° And must not be exposed to direct sunlight and must not be caught in the rain.

Stacking

The type of packing allows the possibility of stacking up to 3 crates.

Up to 3 crates may be stacked one upon the other on lorries or in containers if properly positioned and provided they are restrained to prevent falling.

Opening

When the crates arrive, check that the machine has not been damaged during transport and that all parts listed are present. The crates must be opened using all possible precautionary measure to avoid damaging the machine or its parts. Make sure that parts do not fall from the crate during opening.



INTRODUCTION WARNING

This manual has been prepared for workshop personnel expert in the use of the lift (operator) and technicians responsible for routine maintenance (maintenance fitter): read the manual before carrying out any operation with the lift and /or the packing. This manual contains important information regarding:

THE PERSONAL SAFETY OF operators and maintenance workers

THE SAFETY OF LIFTED VEHICLES

Conserving the manual

The manual is an integral part of the lift, which it should always accompany even if the unit is sold .The manual, must be kept in the vicinity of the lift in an easily accessible place so that the operator and maintenance staff must be able to locate and consult the manual quickly at any time.

Lift rack has been designed and built in compliance with the following:

Laws

Machinery Directives: 2006/42/EC, applicable standards: EN 60204-1: 2006+ A1:2009

EN1493:2010.

The lifting, transport, unpacking, assembling, installation, starting up, initial adjustment and testing, the work relate to EXTRAORDINARY maintenance, repair, overhauls, transport and dismantling of the lift must be performed by specialist personnel from the LICENSED DEALER or an SEVICE CENTRE authorized by the manufacturer (see authorized dealer on frontispiece).

The manufacturer declines all responsibility for injury to persons or damage to vehicles or objects when

any of the above mentioned operations have been performed by unauthorized personnel or when the rack has been subject to abuse.

This manual indicates only the operative and safety aspects that may prove useful to the operator and maintenance works better understanding the structure and operation of the lift and for best use of the lift.

In order to understand the terminology used in this manual, the operator must have specific experience in workshop, service, maintenance and repair activities, the ability to interpret correctly the drawings and descriptions contained in the manual and be acquainted with the general and specific safety rules relevant to the country in which the machine has been installed.

The same applies to the maintenance fitter, who must also possess specific and specialized knowledge (mechanical, engineering) needed to perform the operations described in the manual in complete safety.

The words "operator" and "maintenance fitter" used in this manual are construed as follows:

OPERATOR: person authorized to use the lift.

MAINTENANCE: person authorized for routine maintenance of the lift.

The end user can only use the machine in correct way as defined in instruction.

Loose clothes shall not be used protection cap shall also be used for long hair person, etc.

Lubricate the machine periodically according to the manual.

1 Abstract

The 2 post lifts are products of our research and development division: a two-cylinder steel-balanced hydraulic lift. Its special features include a lifting capacity of 3500kg; a hydraulic pulling system with a

hydraulic control activator providing power; power supplied by oil cylinders installed in its columns; a chain system connected through the columns on a slide unit allowing free action of the slide unit and giving the lift the capacity to reach relatively high; synchronized steel cable pulling action and slide unit movement; an electric safety locking system that backs off the lift when activated; one-way and two 2-passage exchange valves in the hydraulic system; and a hydraulic cylinder that freely positions and locks itself. The entire machine features great width capacity with a space between columns of 2815mm. The tray goes as low as 95mm for convenience in the lift and repair of luxury vehicles.

The type with clear floor design, we install beam with a bar of height limit on the top of lift. This height limit controlling device is achieved by electric control. The type of lift can be used for lifting and maintenance of high vehicles.

Our company specializes in manufacturing and has strict quality guarantee system: ISO9001:2000

2. Use

The two kinds of products are used to lift all types of small vehicles, and to aid in the maintenance and repair of these vehicles. The maximum loading weight is 3500kg. The lift is only used for lifting cars, other usages are prohibited.

2.1 Important Technical Reference

Model type	QSD3500S	QSD3800S
Type	Floor plate	Clear-floor
Capacity	4000kg	4000kg
Lifting time	<55s	<55s
Descent time	>20s	>20s
Max. lifting height	1900mm	1900mm
Min. lifting height	95mm	95mm
Overall width	3435mm	3435mm
Overall height	2856mm	3676mm
Power supply	3/N/PE~400V/380V, 50/Hz, 6.6A 1/N/PE~230V/220V,50Hz,	3/N/PE~400V/380V, 50/Hz, 6.6A 1/N/PE~230V/220V,50Hz,
Power	2.2 KW	2.2 KW
Noise	≤80dB	≤80dB
Safety catch type	Manual release	Manual release

2.2 Working conditions:

The machine should be used in below condition.

- a. Temperature limit of air should be between 0 °C~40°C.
- b. Air humidity: ≤80% at 30°C
- c. Transportation and storage temperature: -25 °C~+55 °C
- d. Height above sea level: ≤2000m.

4000kg

Express the rated load is 4000kg, don't allow the lift load weigh excess 4000kg.



This symbol express attention should be taken for electrical hazards



This symbol expresses the earth connecting point.

2.3 Basic Structure of the Product

2.3.1 Main structure of the equipment:

Lifting structure: install cylinders in two posts, fill up oil into cylinder, poisons of cylinders move up to drive the sliding tables moving through chains on poisons.

Supporting structure: when drive car into lift working area, adjust arm traveling and extending positions to make adapters can reach bearing points of car. And also can adjust adapters' height as different cars. (See Diagram 1, 2)

Balance structure: During lifting two steel cables connect two sliding tables, and make the two sliding tables operate synchronously. (See Diagram 5, 6)

Safety lock structure: safety lock is on each side of two sliding tables, when lifts car up, safety lock works automatically to keep car stop a position stably before starting use it. (See Diagram 7)

2.3.2 Main systems of the equipment: See Diagram 3, 4.

3. Installation and Adjustment of the Equipment

3.1 Installation should be carried out by trained employees of the manufacturing company.

3.2 The installation site should have 400V and 50Hz 3-phase power supply and reliable ground wires.

3.3 The incoming line should have 16A safety installation and a power supply switch. The minimum wire section area is 1.5 square millimeters.

3.4 The lift's foundation has the following requirements: the concrete should not be lower than 250 grades; the area of the foundation should be 3695mm long x800mm wide x >250mm thick. (see Diagram 8)

3.5 Installation Steps

3.5.1 When the concrete has solidified at the proper thickness, install the two columns into the floor of the installation site. Check and measure the dimensions and move into the proper place as needed by the user. After ensuring that the columns and floor are perpendicular, use steel plates and concrete to fill in any gaps between the base plate and floor. Use M18*160 anchor bolts to secure the base plate.

ATTENTION: MUST ENSURE TWO POSTS INSTALLED STABLY TO KEEP PEOPLE SAFETY.

3.5.2 Lift and lock the two slide units into the first locking position. Connect the two synchronized steel cables according to needs (see Diagram 5, 6). Adjust nuts (tighten the cable in position so the last thread screws against the nut, save the longer screws), and adjust the tension in the cables so that they are in the best position.

3.5.3 Connect the hydraulic system pipeline. (Diagram 9)

3.5.4 Add the oil: 10 Liters of Hydraulic Oil #46 in summer, # 32 in winter.

3.5.5 Affix the flat-ranged chain in the most logical position. Bring the slide tables as low as they can go giving the cradle room to sway unobstructed but not sliding across the ground. When the product comes out of the factory, this first step should have already been set.

3.5.6 Lubricate the sliding blocks and grooves. (Use Formula 2 Grease)

3.6 Test for problems.

3.6.1 Preparing the vehicle.

Before trying a vehicle on the lift, give the equipment a thorough check. Check that all connections are tight and reliable. Make sure the levers operate smoothly and that the ends of the hydraulic pipes are fastened securely. Check that the power source is adequate, and that the ground wire is reliable. The generator should turn in a direction consistent with that of the gear pump.

3.6.2 Operation with an Empty Load

Check that the two sliding tables are moving together and meet requirements. Regulate the tension in the steel cables so they meet requirements. The core axle line in the hydraulic cylinders should be equal to the core axle line in the columns (if not, adjust). The movement of the sliding blocks should be normal. The hydraulic pipeline should be free of leakage. The locking installation should be normally regulated, without any obstructions. Raise and lower two times.

3.6.3 Loading operation:

If all is working order with an empty load, move a car onto the lift. Repeatedly raise and lift the vehicle, first bringing it to about 1000mm, checking each working part of the lift and adjusting as needed. If everything is up to standard, raise the lift to a fixed height and lower, and then repeat.

NOTE: After the lift has been installed a debugged, it can be used

for normal operation.

4. Safety Instruction

4.1 Safety Rules

Do not attempt to operate until you have read thoroughly and understand completely all instructions, rules, etc. contained in this manual. Failure to comply can result in accidents involving fire, electric shock, or serious personal injury. Keep owners manual and review frequently for continuous safe operation.

1. Know your machine.

For your own safety, read the owner's manual carefully. Learn its application and limitations as well as specific potential hazards pertinent to this machine.

2. Keep work area clean.

Disorder area and working table will cause accident.

3. Do not use in dangerous environments.

Do not use power tools in damp or wet locations, or expose them to rain. Keeps work area well illuminated.

4. Keep non-professional people away.

All visitors should be kept at a safe distance from work area.

5. Wear proper apparel.

Avoid loose clothing, gloves, neckties, rings, bracelets, or jewelry, which could be caught in moving parts.

Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

7. Don't maintenance the machine in running states.

The machine should be maintained such as lubrication, proper adjustment.

8. Before maintenance, accessory changing or assembling and reassemble motor, be sure to cut off the power from the power resource.

9. Never leave machine running unattended.

4.2 Digest



5. Use and Operation

5.1 Preparation

After the cradle has swiveled back against the slides of the columns, drive the car up on the lift and into a suitable position. Rotate the cradle around and move the adjustable arms and the height of the chassis. Make sure the vehicle's weight is evenly dispersed when propping it up.

5.2 Raising

With the power source connected, hit the button and raise the vehicle. When the vehicle has risen 100-150mm off the ground, release the button to stop the lift. Rock the car to check that it is resting firm and steady on the cradle. Then hit the starter button again and raise the car to the required position.

5.3 Stopping

Release the lift 'UP' button and allow the lift to stop.

5.4 Locking

Press release bar on hydraulic pump, lift will go down for several seconds. **Do not press the bar for long time, long time pressing will cause chain coming off from wheel.**

5.5 Lowering

Press the "up" button a bit, the lift raises then pull each lock cable on safety locks one time, and then continue to press release bar on pump, sliding tables go down; relax the bar, the tables stop lifting. After raising the car to suitable height, user should press release bar on pump first to make lift locks completely before working.

Pay Attention during Operation:

Before lifting the vehicle, be sure to adjust the height of the chassis, making sure the contact points are propping area.

You must support the car on its skirt or bridge by positioning the center of the rubber chassis, so that the support area is perfectly centered. When the vehicle leaves the ground (100-150mm), rock the car a bit checking that lift is safe to operate.

No one should be allowed underneath the car when the lift is in operation.

When the lift has reached the required height, it must then be set in the safety position. Employees can then set up for work.

Before the car is lowered, make sure everything is cleaned up below the car, the sliding table, and on the ground below the cradle. The entire work area should be cleaned up.

Each week check each of the movable parts, lubricate the sliding blocks and ensure that the operating parts are lubricated and positioned properly.

Bring the lift sliding table to its lowest position, checking the oil in the oil tank. Make sure the tank is filled 80% of the way.

If meet any troubles unsolved please contact after-sales service department of our company or our local agency. The lift should be repaired by professional people.

6 Maintenance and Care

6.1 Maintaining Cleanliness

The lift should be frequently wiped down to maintain cleanliness. Before wiping, first cut the power supply.

The work area about the lift should be swept up. If large amounts of dirt should accumulate, this will accelerate the rate of wear-and-tear on the machine and reduce its natural life span.

6.2 Regular Check-ups

6.2.1 Check the safety features of the lift every day before work. The lock plate should be operating normally, the locking plate should be in position, if you discover something abnormal, make prompt adjustments, repairs or changes.

6.2.2 Every day, check that the space between the sliding table chain and the hydraulic cylinders is correct. Check if the flat-ranged chain and the nut connecting it to the sliding table have become loose or detached.

6.2.3 Connections to the steel cable should be normal and the cable should have proper tension.

6.3 Maintenance of the Hydraulic System

6.3.1 Cleaning, Oil Change

Three months after the first full usage of the lift, clean out the oil tank and change the oil. Once per six months afterwards, clean the hydraulic system and change the oil.

6.3.2 Replacing the Seals

After the lift has been used for a period of time, if you discover any oil leakage, make a thorough inspection. If the leakage is due to from wear of the seals, then replace parts immediately following regulations.

7. Common Problems and Solution Methods

Trouble	Cause	Solution
Generator does not work	The power source or power equipment is malfunctioning	Check the power source and other electrical components, check fuses
In working mode, the sliding table automatically lowers	Pistons have lost effectiveness	Fix the pistons
	Pipes are leaking oil	Change the seals and tighten the nuts on the connection
	Seals on the hydraulic cylinders have lost effectiveness	Change the seals
The hydraulic system makes abnormal sounds	The oil filter is stopped up	Clean the oil filter
The sliding table creeps when raising and lowering	Air has entered the hydraulic system	Lift the sliding table to max height, keep it there for 2-3 seconds
	The space between the sliding blocks and columns are not lubricated	Add lubrication
	The space between the sliding blocks and the columns is too narrow	Select sliding blocks that will leave between a 1.5 and 2.5mm gap between the blocks and column
The main and supplementary lift support mechanisms don't move together	The equilibrium cables are stretched out after use, losing their tension	Adjust the nut on the steel cables, adding tension
Safety lock inside sliding table cannot work normally.(cannot hear operating sound)	Adjustment of safety locks.	Open two circle cover on posts, adjust safety lock through the hole and fill some lubricant oil. See Diagram 7.

8 Important Information for the User

8.1 Important Information Regarding Purchase of the Machine

Before purchasing this lift, make sure you clearly understand the product's use, feature, safety conditions, operation adjustments, etc. If there are any quality problems during shipping, installation or maintenance, please promptly contact the manufacturing company or a specializing agency.

8.2 Quality Assurance after Opening the Product

If after opening the packaging, you notice that the product and accessories and the installation list do not match, please promptly contact the purchasing department.

8.3 Foundation

The dimensions for the foundation of this product must be in accordance with those outlined by the manufacturing factory. The cement grade should be **no less** than #500. Concrete strength should be **no less** than 250 grades. ***If you cannot meet this company's requirements for foundation strength, any problems resulting are the user's responsibility.***

8.4 Returning Documents

Once the customer has purchased the equipment, should the need arise he/she should promptly fill out the warranty card and return to the manufacturing company. The company will enter information into the computer for prompt service.

9 Important Items

9.1 Before using this product, please carefully read the operating instructions in this manual.

9.2 Turn on the power switch. The power light will go on, and then can use the machine.

10 Noise Declaration

We hereby certify that the noises of lifts we produce cannot exceed 80db when loading.

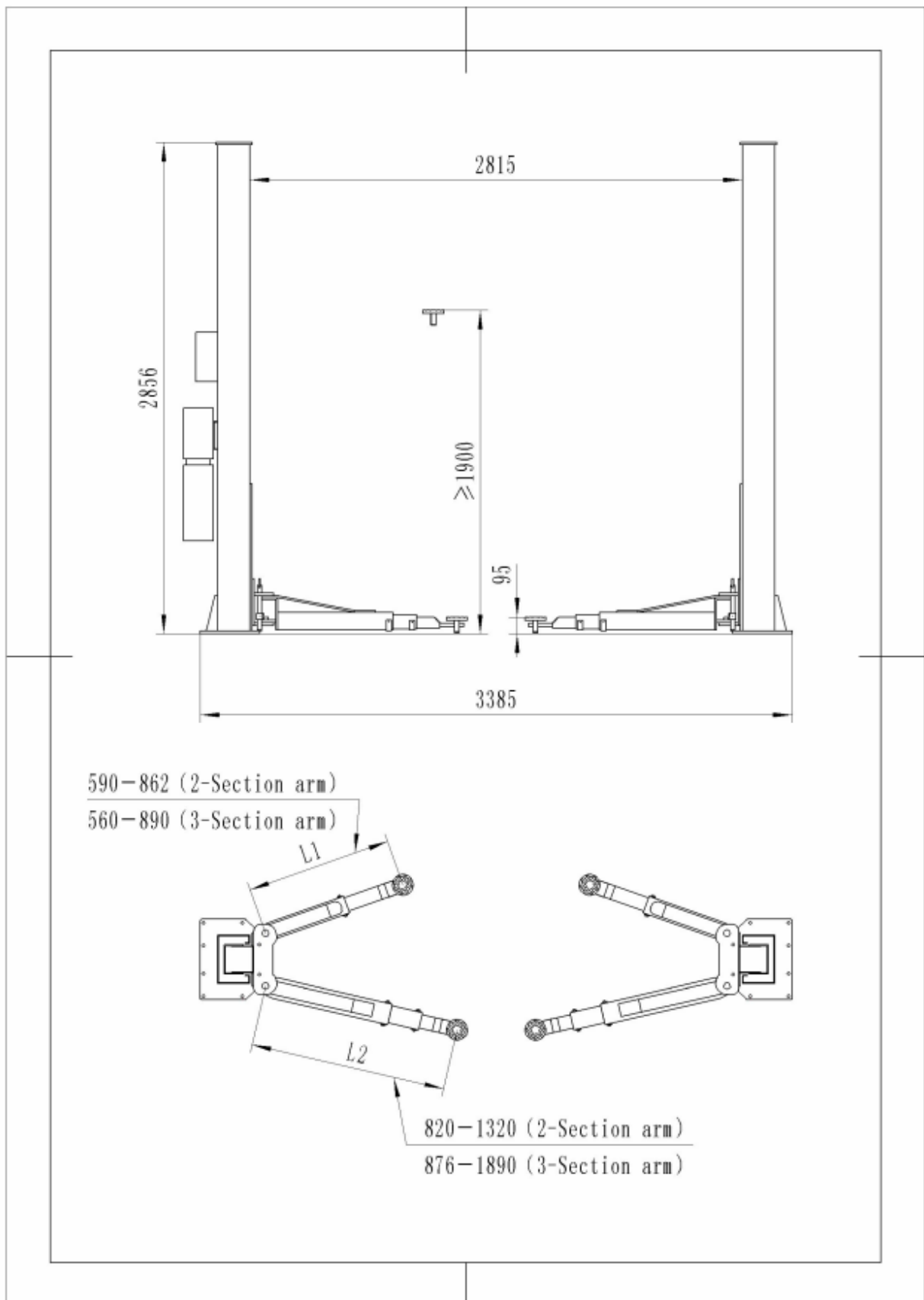
11 DISPOSAL OF USED OIL

Used oil, which is removed from the power unit and the plant during an oil change, must be treated as a polluting product, in accordance with the legal prescriptions of the country in which the lift is installed.

12 MACHINE DEMOLITION

The machine must be demolished by authorized technicians, just like for assembling. The metallic parts can be scrapped as iron. In any case, all the materials deriving from the demolition must be disposed of in accordance with the current standards of the country in which the rack is installed. Finally, it should be recalled that for tax purposes, demolition must be documented; submitting claims and documents according to the current laws in the country in which the rack is installed at the time the machine is demolished.

13.1 QSD3500S Layout diagram



13.2 QSD3800S Layout diagram

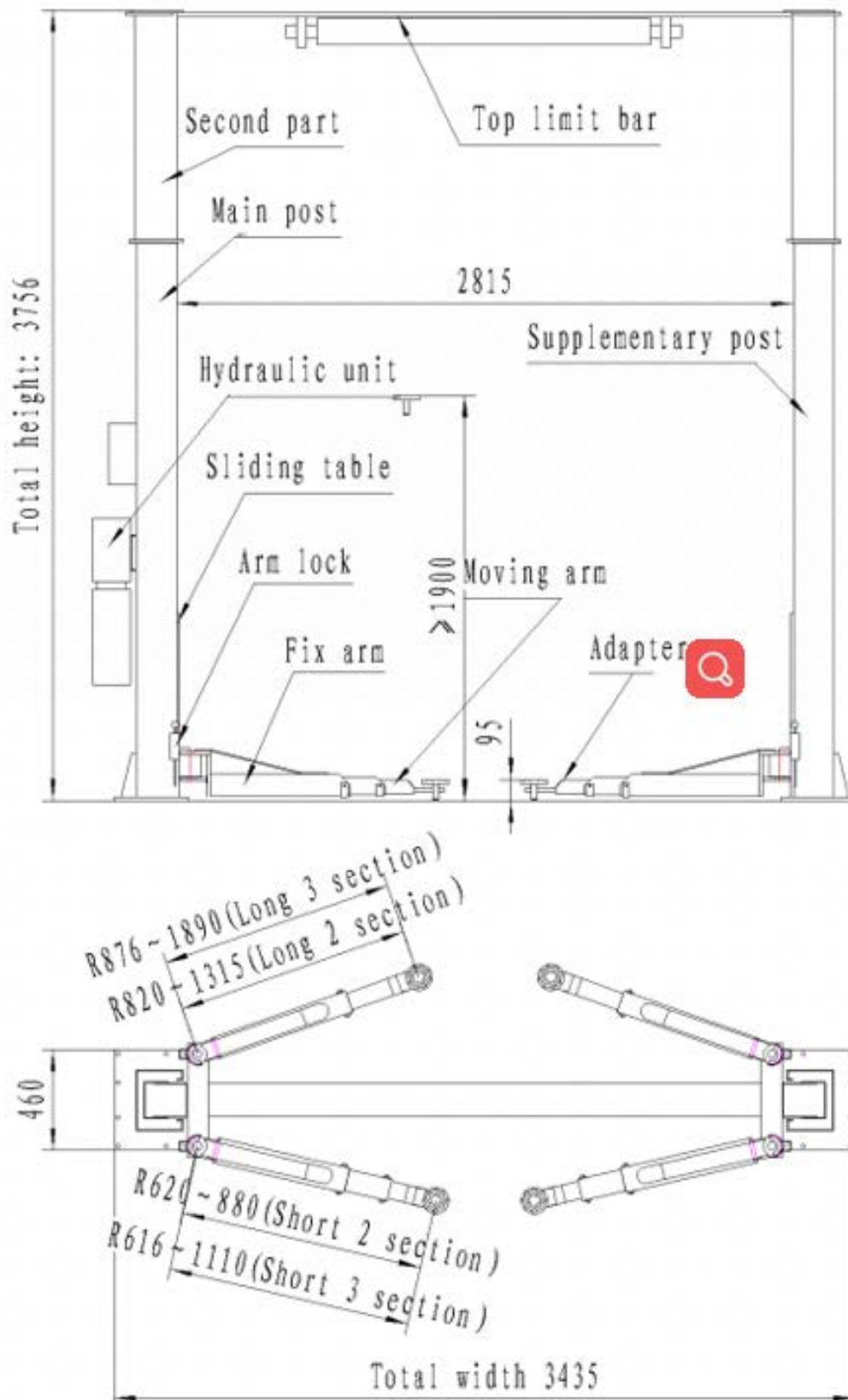
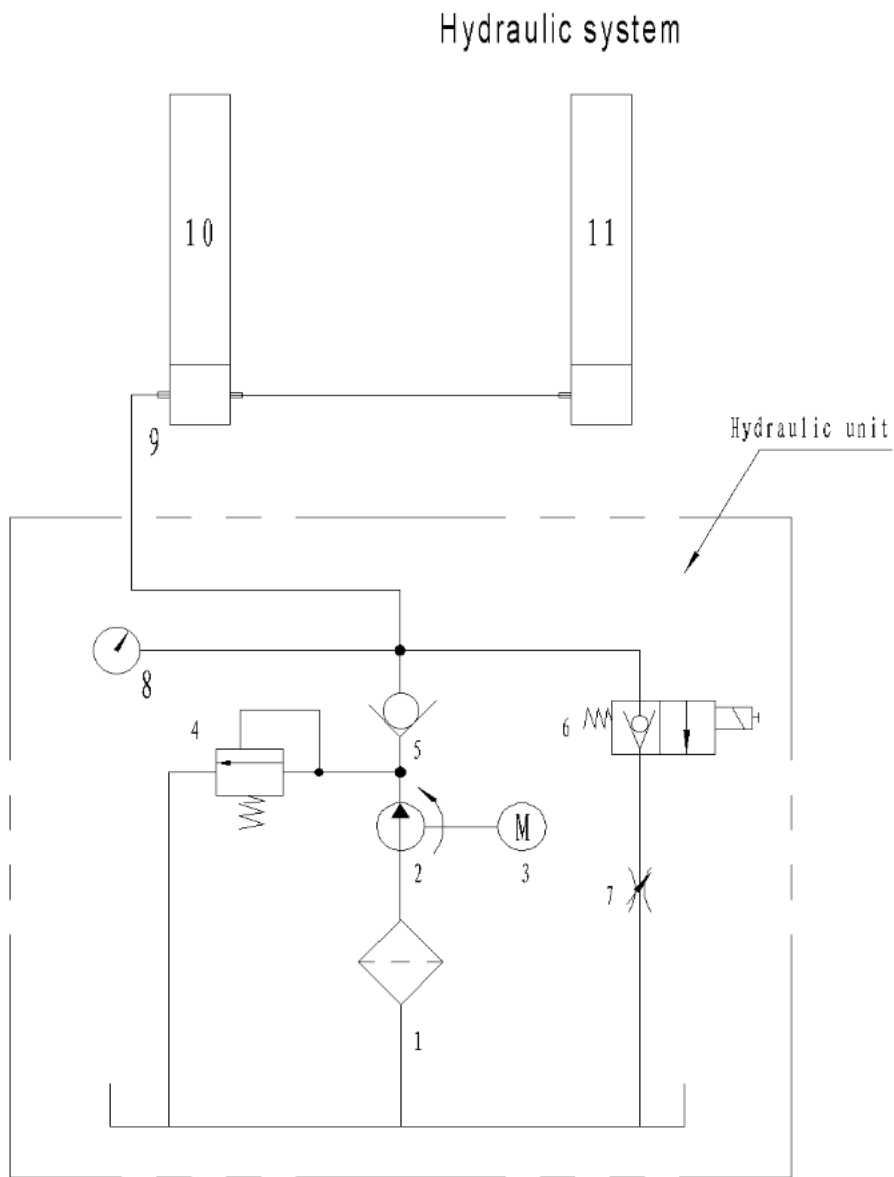


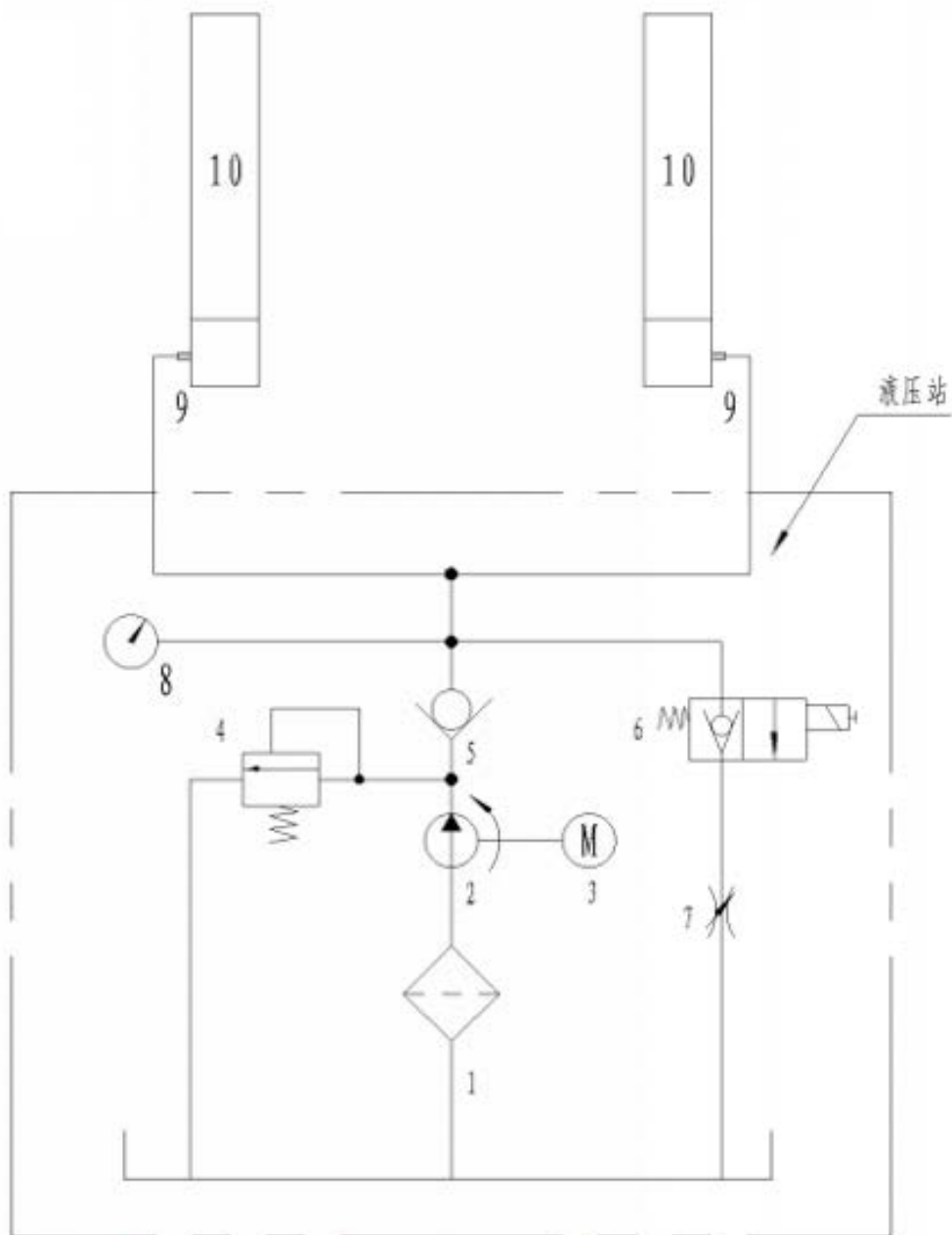
Diagram 2

14.1 hydraulic system



- 1.filter 2.gear pump 3.motor 4.overflow valve
5.monomial valve 6.solenoid valve 7.flow control valve
8.gauge(users can fit by themselves to check pressure)
9.parachute valve 10.main cylinder 11.supplementary cylinder

Diagram 4



- 1.filter 2.gear pump 3.motor 4.overflow valve
 5.monomial valve 6.solenoid valve 7.flow control valve
 8.gauge(users can fit by themselves to check pressure)
 9.parachute valve 10.main and supplementary cylinders

Diagram 4

15.Cable connection diagrams

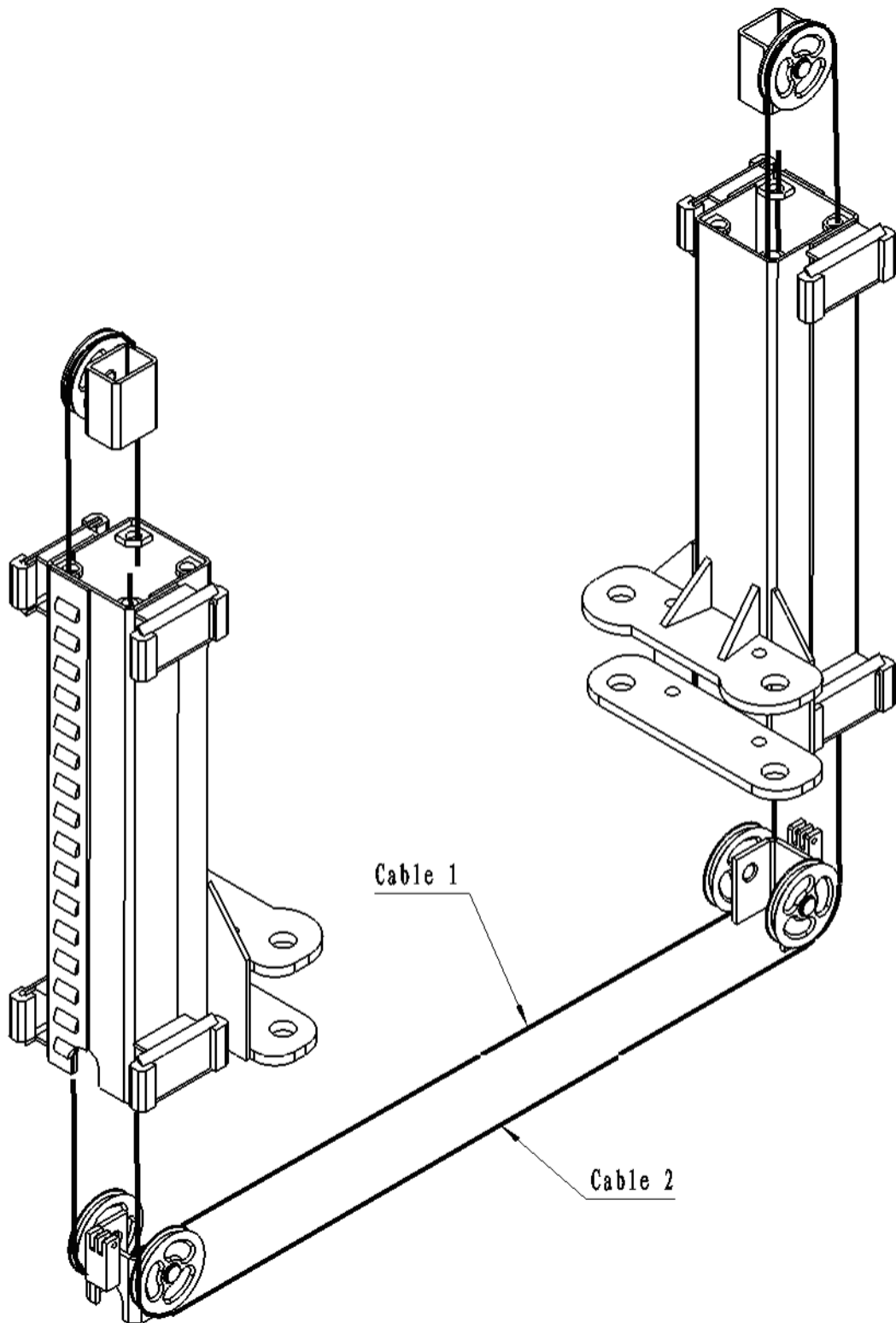


Diagram 5

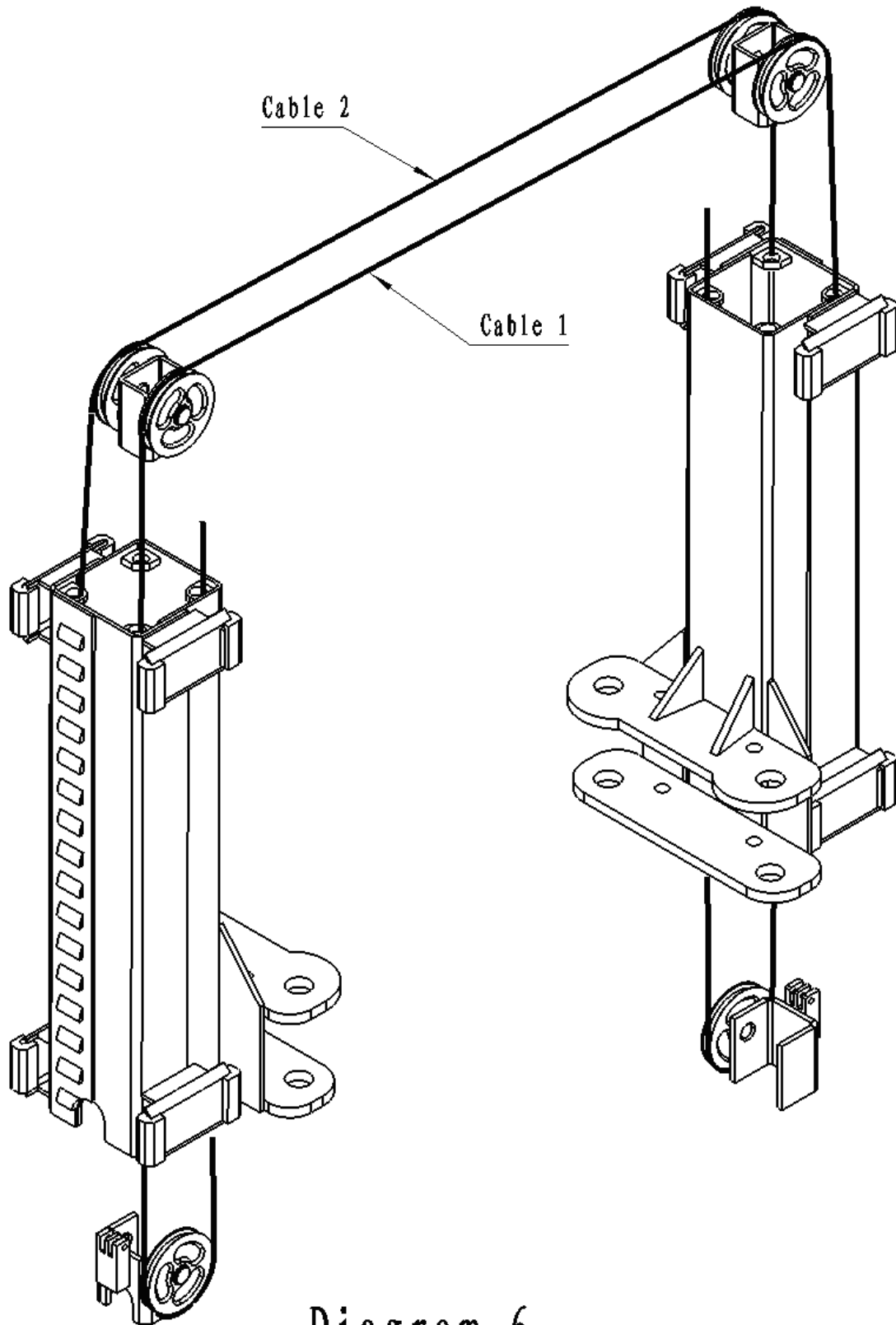
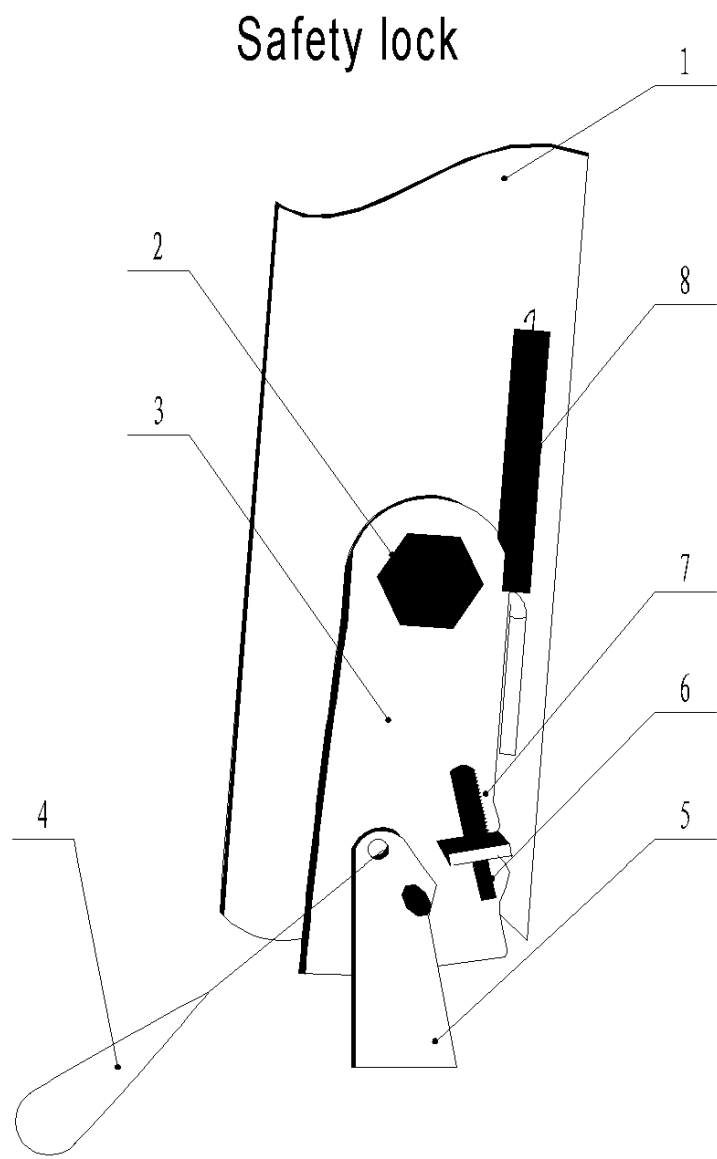


Diagram 6

Diagram 6

16.Safety lock diagrams

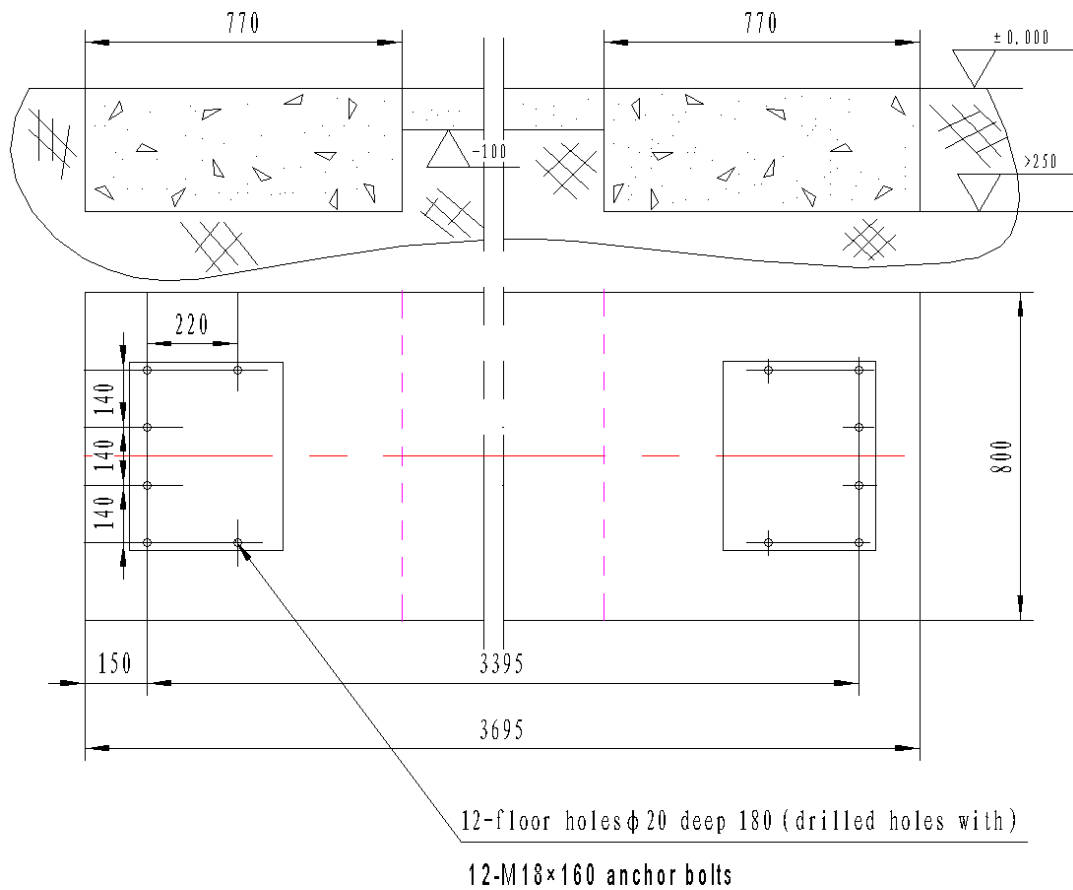


- 1.sliding table
- 2.connected bolt
- 3.main lock claw
- 4.pulling cable
- 5.supplementary lock claw
- 6 non-return plate
- 7.non-return spring
- 8.tension spring

Diagram 7

17. Foundation diagram

Foundation



Note:

1. cement, cracked stone, sand mixture should be in the proportion 1: 3: 5.
2. cement: #350
3. minimum hardening time=20 days.
4. pour the mortar once, leave no holes.

Diagram8

18. Hose connection diagrams

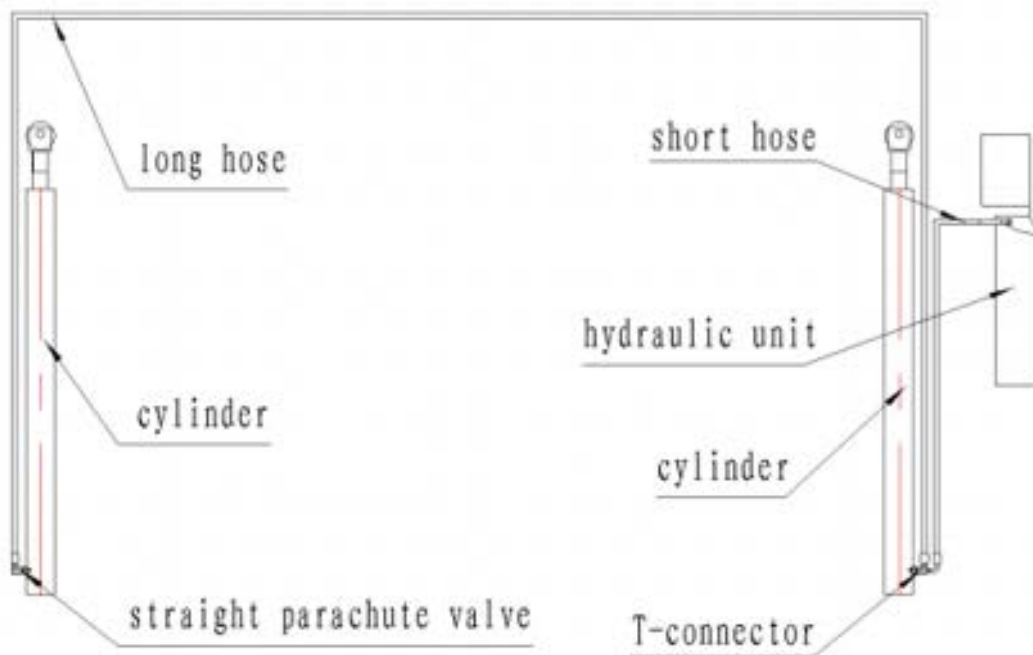
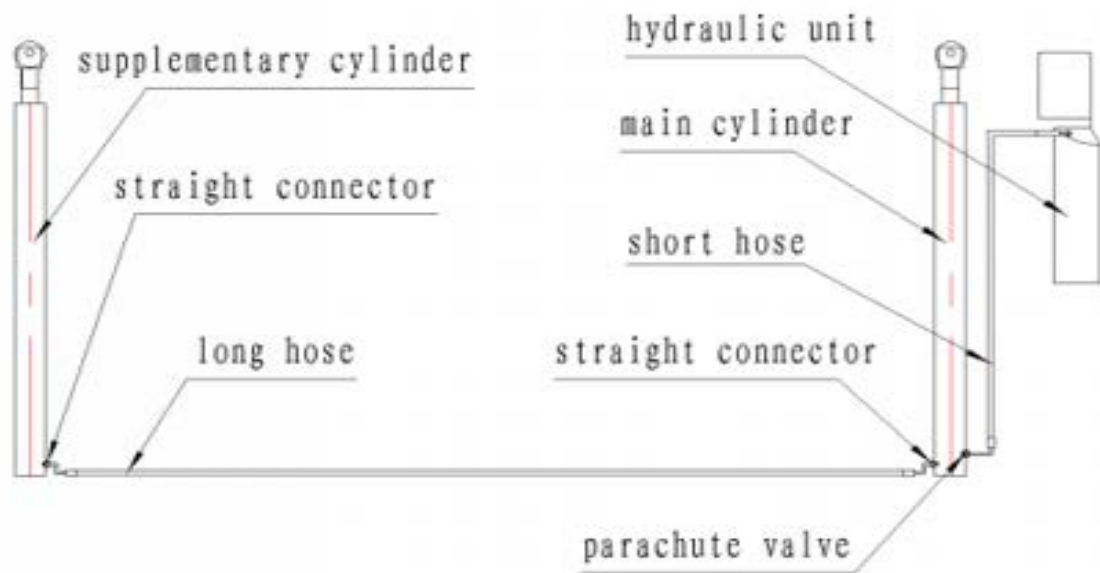
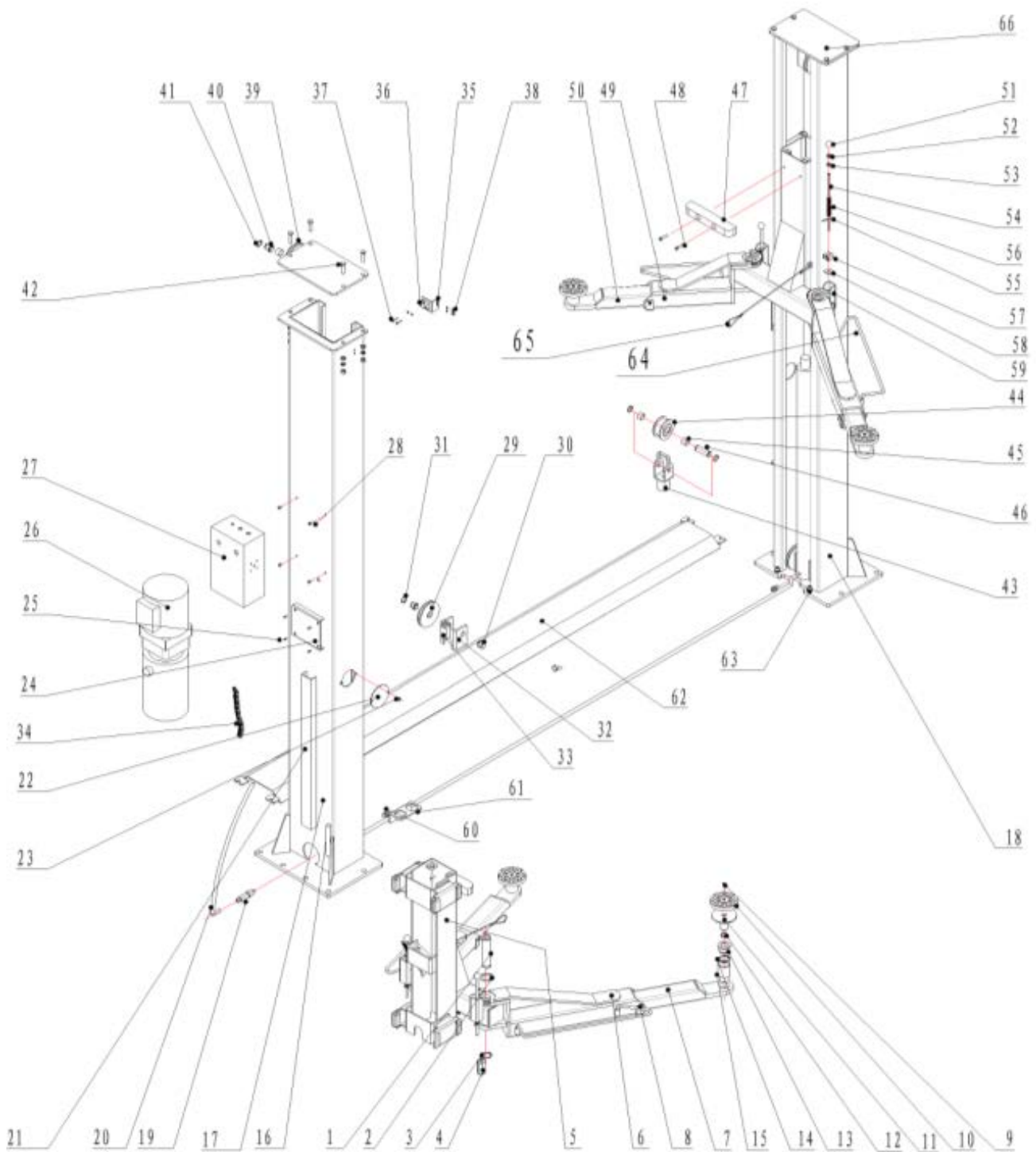
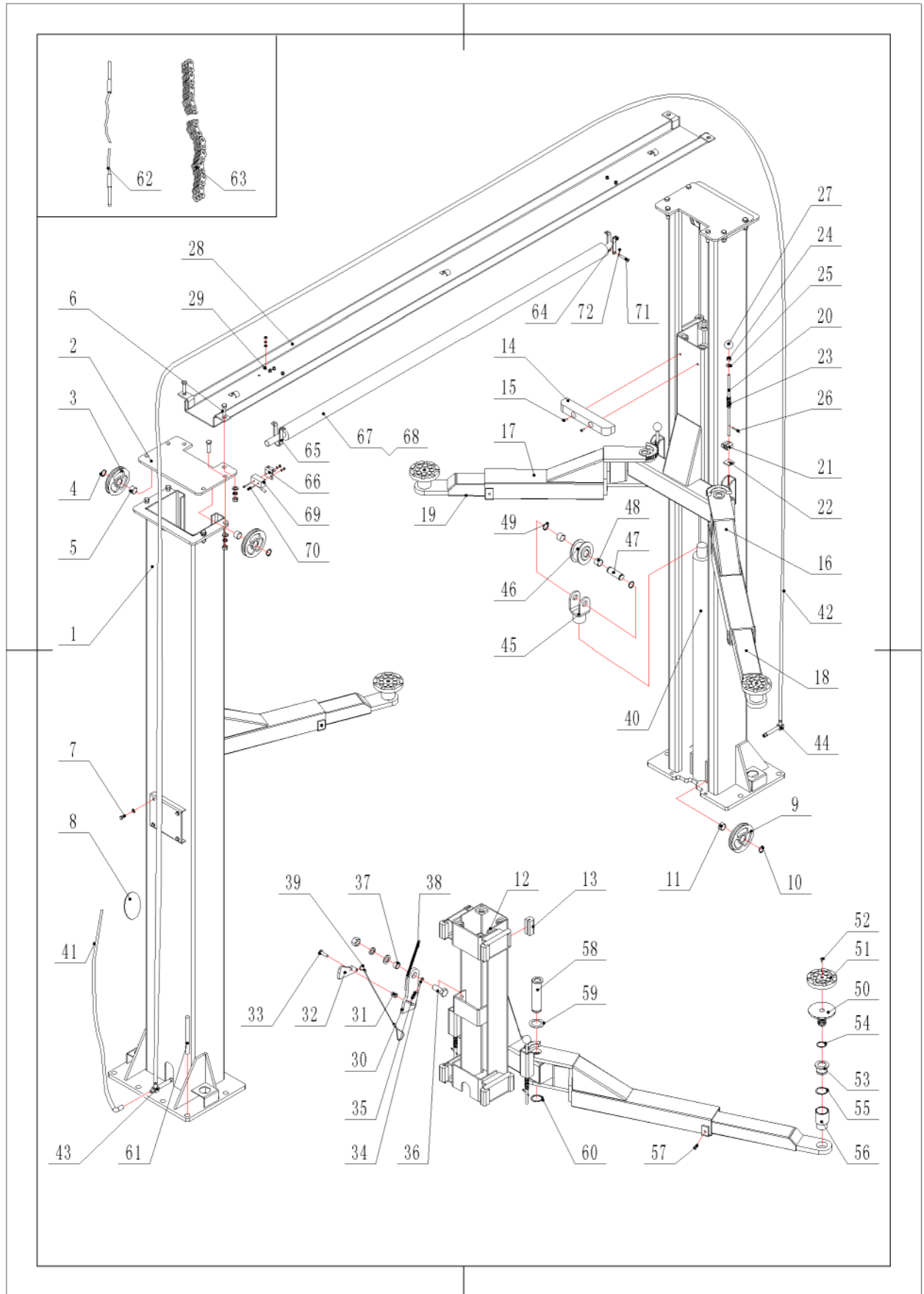


Diagram 9



No.	Name		QTY
1	Arm pin		4
2	Arm pad		4
3	Circlip for shaft	38	4
4	Sliding block		16
5	Carriage		2
6	Fixing arm		2
7	Moving arm		2
8	bolt	M8*16	8
9	Cross recess head screw	M6*16	4
10	Pad		4
11	Pallets		4
12	Circlip for shaft	26	4
13	Pallets nut		4
14	Circlip for shaft	45	4
15	Adjustable bar		4
16	Expansion bolt	M18*160	12
17	Main column		1
18	supplementary column		1
19	Parachute valve		1
20	Short hose		1
21	Tubing plate		1
22	Cover of observation hole		2
23	Cross recess head screw	M6*8	4
24	Hydraulic power unit seat		1
25	Outer hexagon bolt	M8*16	
26	Hydraulic power unit		1
27	Control box		1
28	Cross recess head screw	M6*12	4
29	Rope wheel A		4
30	Bottom rope wheel roller		4
31	Circlip for shaft	25	2
32	Bottom rope whee bracket		2
33	Chain block		4
34	Chains		2
35	Support limit switch		1
36	Limit switch 7120		2
37	Cross recess head screw with flat washer and nut	M4*30	2
38	Cross recess head screw with flat washer	M6*10	2
39	Rope wheel C		2
40	Rope wheel roller		4
41	Circlip for shaft	25	4
42	Outer hexagon bolt (with flat washer, spring washer and nut)	M12*45	12

43	Chain wheel bracket		2
44	Chain wheel		2
45	Bearing sleeve	2520	4
46	Chain wheel roller		2
47	Car door protector		2
48	Bolt	M8*35	4
49	Fixing arm		2
50	Moving arm		2
51	Ball handle		4
52	nut	M10	4
53	washer	10	8
54	Long bolt		4
55	split pin	∅4*35	4
56	Arm lock spring		4
57	Lock gear block		4
58	Adjusting pad		4
59	Rack and groove steel welding		4
60	Tank nib		2
61	Adjustment bar seat		2
62	Bottom plate assembly		1
63	Inner hexagon screw	M12*20	4
64	Foot protection		2
65	Manual release		4
66	Top plate		2



4.0B spare parts list

No.	Name	QTY	No.	Name	QTY
1	Master and slave column assembly	1pcs for each	16	Long fixing arm	2sets
2	Top plate	2sets	17	Short fixing arm	2sets
3	Upper rope wheel	4pcs	18	Long moving arm	2sets
4	Circlip for shaft \varnothing 25	4pcs	19	Short moving arm	2sets
5	Sleeve bearing 2518	4pcs	20	Long bolt	4pcs
6	Outer hexagon bolt M12 \times 45(with flat washer, spring washer and nut)	12sets	21	Adjustable teeth	4pcs
7	Outer hexagon bolt M8 \times 16(with flat washer)	4sets	22	Adjusting pad	4pcs
8	Cover of observation hole	2pcs	23	Arm lock spring	4pcs
9	Bottom rope wheel		24	Nut M10	4pcs
10	Circlip for shaft \varnothing 25	2pcs	25	Washer \varnothing 10	8pcs
11	Sleeve bearing 2515	2pcs	26	Split pin 4 \times 35	4pcs
12	Carriage	2pcs	27	Ball handle	4pcs
13	Sliding block	2sets	28	Cross beam	1sets
14	Car door protector	16pcs	29	Bolt M6 \times 25(with flat washer, spring washer and nut)	6sets
15	Bolt M8 \times 35	2pcs	30	Master lock claw	2pcs

31	Locating sleeve	4pcs		50	Pallets	4pcs
32	Deputy lock claw	2pcs		51	Pad	4pcs
33	Outer hexagon bolt M10×40	2pcs		52	Cross recess head screw M6×12	4pcs
34	Cross recess head screw M6×35	2pcs		53	Pallets nut	4pcs
35	Retaining spring	2pcs		54	Circlip for shaft \varnothing 26	4pcs
36	Outer hexagon bolt M20 × 50(with flat washer, spring washer and nut)	2pcs		55	Circlip for shaft \varnothing 45	4pcs
37	bearing	2pcs		56	Adjustable bar	4pcs
38	Spring	2pcs		57	Bolt M8×16	8pcs
39	Rope components	2sets		58	Arm pin	4pcs
40	Oil cylinder	2pcs		59	Arm pad	4pcs
41	Short hose	1pcs		60	Circlip for shaft \varnothing 38	4pcs
42	Long hose	1pcs		61	Expansion bolt M18×160	12sets
43	T-valve	1pcs		62	Steel rope	2pcs
44	L-valve	1pcs		63	Chains LH1234	2pcs
45	Chain wheel bracket	2pcs		64	Rotating bracket	2pcs
46	Chain wheel	2pcs		65	Sliding support	1pcs
47	Chain wheel roller	2pcs		66	Limit switch support	1pcs

48	Bearing sleeve 2520	4pcs		67	Steel tube	1pcs
49	Circlip for shaft $\varnothing 25$	4pcs		68	Sponge pipe	1pcs
69	Limit switch	1pcs		71	Pin roll $\varnothing 8 \times 50$	1pcs
70	Cross recess head screw M4 \times 30 (with flat washer and nut)	2pcs		72	Split pin $\varnothing 2 \times 20$	1pcs