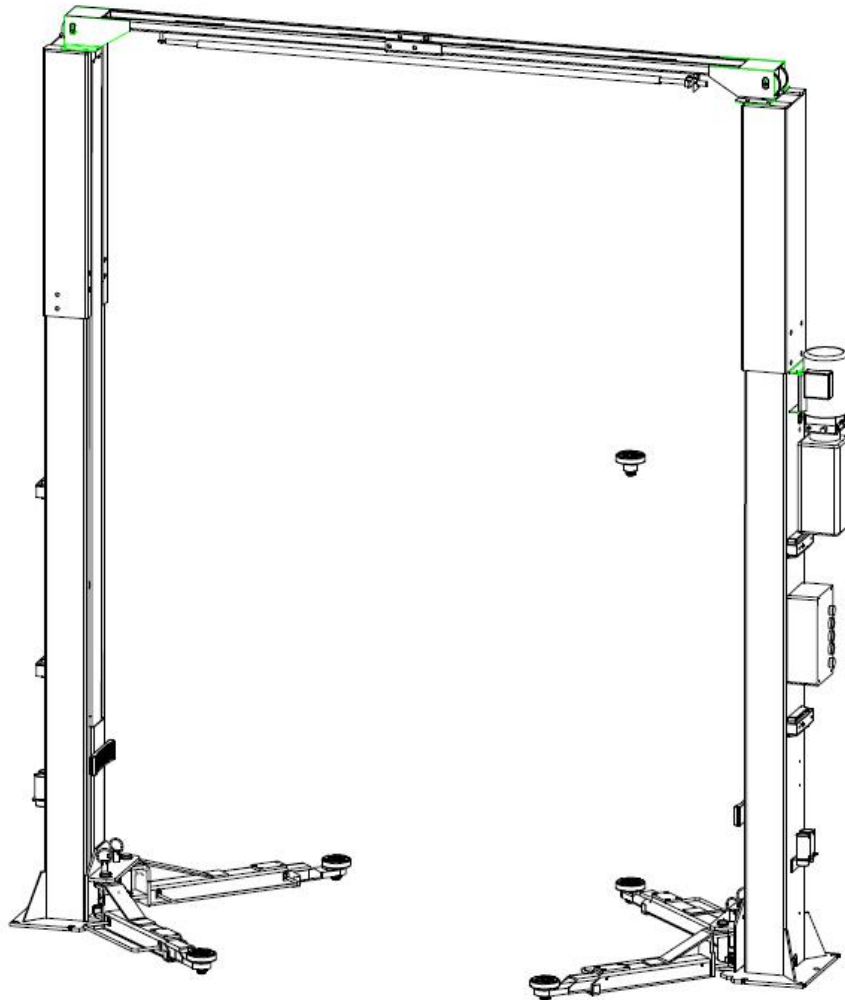


THINKCAR



Clear Floor Two Post Lift

TVL 345ST (Manual Unlock)

TVL 345AT (Motorized Unlock)

Installation Operation Service Manual

Matters needing attention:

- Please read this manual carefully before use and keep it for future reference.
- The equipment list should be checked carefully before use. If in doubt, contact Thinkcar Tech Inc immediately.
- Due to the continuous upgrading of the product, the manual and the physical have a slight difference, without notice, please prevail in kind.

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1. IMPORTANT SAFETY INSTRUCTIONS

1.1 Important notices

THINKCAR will not take any responsibility for whatever bad consequence resulted from improper installation and operation, overload running or unqualified ground condition.

This lift is specially designed for lifting vehicles that weighs within its outmost lifting capacity. Users are not allowed to use it for any other purposes. Otherwise, we, as well as our sales agency, will not bear any responsibility for accidents or damages of the lift. Make sure to pay careful attention to the label of the lifting capacity attached on the lift and never try to lift cars with its weight beyond.

Read this manual carefully before operating the machine so as to avoid economic loss or personnel casualty incurred by wrong operation. Without the permission of the manufacturer, no user shall change the control part and other mechanical parts of the machine.

1.2 Instructions for qualified operators and users

1. Only professionally trained personnel are allowed to operate and use the lift.
2. The electrical connection must be operated by a qualified electrician.
3. Non-professional personnel should not go near the lifting area.

1.3 Instructions for precautions

1. Do not install the lift on the asphalt ground, the thickness of the concrete must meet the requirements.
2. Before operating the lift, please read and understand the safety operation instructions carefully.
3. If the lift is not customized for special customer needs, it will not be used outdoors.
4. Keep your hands and feet away from the moving parts of the lift. Remove your hands and feet to avoid being crushed when the machine is descending.
5. Only professionally trained persons are allowed to operate and use the lift.
6. The operator is not allowed to wear loosen clothes, so as not to be caught by moving parts during the lifting of the machine.
7. The surroundings of the lifting machine must be kept clean and tidy, and there can be no sundries stacking, so as not to cause accidents.
8. The lifting machine is designed to lift the whole of the vehicle, not part of it; Be sure not to attempt to lift a vehicle in excess of its rated lifting weight.

9. Always ensure that the safety lock of the lift is in the locking status when there is personnel working under the vehicle.

10. The lifting pad of the lift machine must be placed in the position suggested by the vehicle manufacturer, and then slowly lift the vehicle to ensure that it is stable and does not tilt, tip over or fall off before it can be lifted to the desired height.

11. Check the parts at any time for damage, check the synchronicity of the machine and the flexibility of the moving parts, and pay attention to regular maintenance, once found abnormal conditions, immediately stop using and contact the dealer.

12. After the operation, please descend the machine to the lowest position and turn off the power.

13. Do not change the parts of the lift machine without the permission of the manufacturer.

14. If the machine is not used for a long time, the user should:

a. Cut off the power supply.

b. Drain the hydraulic oil.

c. Lubricate moving parts with hydraulic oil.

1.4 Training

Only professionally trained people can operate and use the lift, if you need professional training from the manufacturer, we will be happy to help you.

Attention: For environment protection, please dispose the disused oil in a proper way.

1.5 Description of Safety labels

Safety indication signs will be affixed to the machine to alert the operator for safe operation. Please keep the safety indication sign clean and replace it immediately if the label falls off or is damaged. Please read the following safety sign instructions carefully to understand and remember their meaning.

Remain clear of lift when lowering or lifting vehicle.

Clear area if vehicle is in danger of falling.

Locate the vehicle with center gravity right between two adapters.

Keep feet away from adapter while lift lowering.

Do not override self - closing lift controls

Do not shake vehicle heavily while on lift.

Read the manual before installation or operation of the lift

Lift is only allowed to be used by trained operator.

Only authorized personnel allowed in lift area

CAUTION

Lift vehicle at the manufacturer's points

CAUTION

Always use safety stands when removing/ installing heavy components

CAUTION

Use height extension when necessary to ensure good contact.

CAUTION

Auxiliary adapters may reduce load capacity.

WARNING

1. Travelling on the load carrying devices is forbidden.
2. After raising a short distance, checked to ensure that it is correctly and safely positioned.
3. It is forbidden to climb onto the load or load carrying devices when they are raised.

Arms must support the rated load weight as the following diagram.

Lifting capacity	Load distribution	
	D	E
3.5T	1.5±0.1T	2.0±0.1T
3.8T	1.7±0.1T	2.1±0.1T
4.2T	1.9±0.1T	2.3±0.1T
4.5T	2.1±0.1T	2.4±0.1T
5.0T	2.3±0.1T	2.7±0.1T

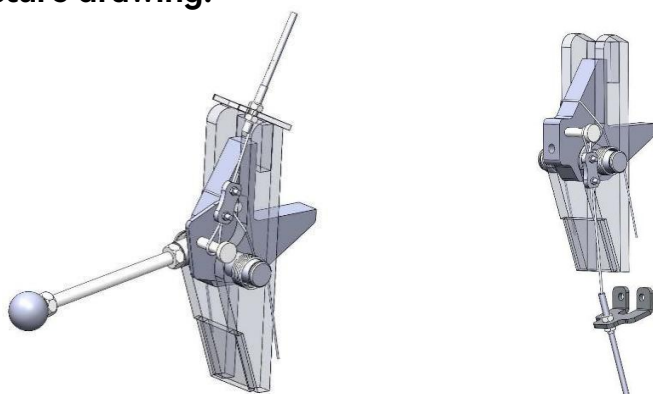
Lifting capacity	Load distribution	
	F	G
3.5T	2.0±0.1T	1.5±0.1T
3.8T	2.1±0.1T	1.7±0.1T
4.2T	2.3±0.1T	1.9±0.1T
4.5T	2.4±0.1T	2.1±0.1T
5.0T	2.7±0.1T	2.3±0.1T

2. Product Description

2.1 General descriptions

This lift is composed of column, slide table, lifting arm, oil cylinder, power unit and other main parts. When the power unit is connected to the power supply, the gear pump works, and the hydraulic oil pushes the cylinder piston rod to rise, driving the carriage and the lifting arm to rise, so as to achieve the purpose of lifting. In the process of lifting, the safety rack in the carriage will automatically lock with the safety plate in the column during each rise, to ensure that the carriage will not drop due to the failure of the hydraulic system.

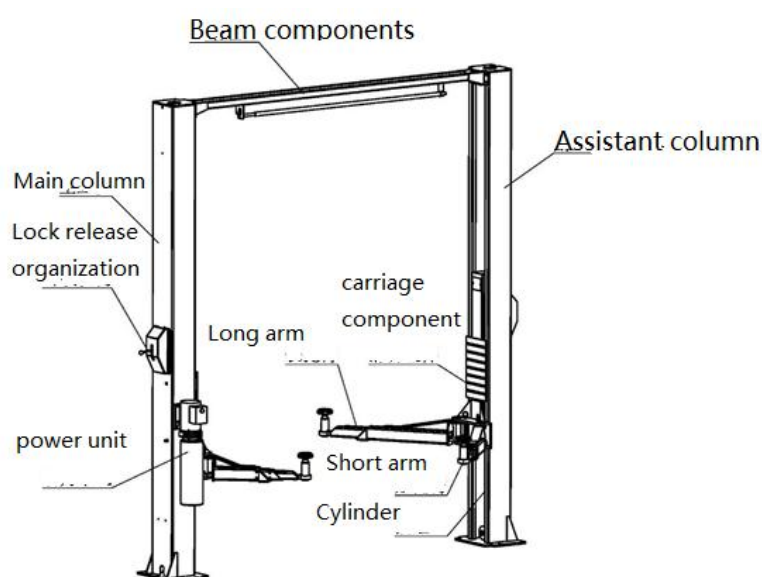
Safety structure drawing:



2.2 Technical data

Model	Lifting	Full rise time	Full rise	Height	Width	Width between posts
TVL345ST/ TVL345AT	4500kg	60Sec	1900mm	3874mm	3420mm	2850mm

2.3 Main structure drawing



3. INSTALLATION INSTRUCTIONS

3.1 Preparations before installation

3.1.1 Tools and equipments needed

- ✓ Lifting Equipment
- ✓ Anti-wear hydraulic oil
- ✓ Electric drill
- ✓ Chalk and tape measure, magnetic line pendant, a 8 meter horizontal tube with diameter of 15mm.
- ✓ Flat and open wrenches, one set of Allen wrenches, one set each of cross and flat-head screwdrivers.
- ✓ 4 LBS hammer, one needle-nose pliers, with a set of socket wrenches with diameter of 17, 19, 22.

3.1.2 Check parts list -- Annex 7 (Packing list)

Open the package, check according to the packing list for missing parts, once found, immediately contact the dealer or manufacturer. If the lift with missing parts is still installed, THINKCAR and the dealer are not responsible for the problem arising, and will not solve the problem free of charge.

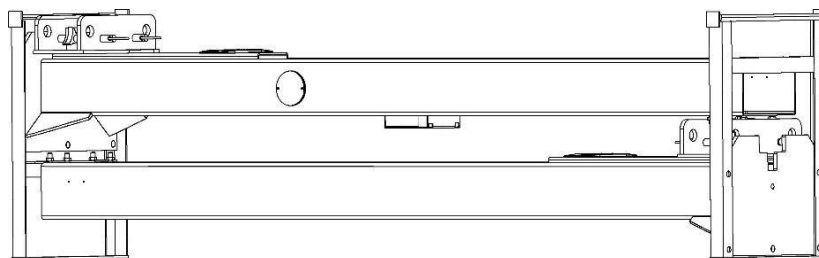
3.1.3 Foundation requirements

The lift must be installed on a horizontal solid concrete ground, the strength of the concrete is above 3000psi, the tolerance is less than 5mm, and the minimum thickness is 200mm. The newly poured concrete needs to be cured for more than 28 days.

3.2 Precautions for installation

1. During installation, ensure that the two columns are parallel to each other and perpendicular to the ground and not tilted.
2. Hydraulic Tubes and steel wire rope should be connected correctly to avoid oil leakage and slack of steel wire rope.
3. All the parts where bolts and nuts are connected must be tightened.
4. No vehicle shall be placed on the lift during the test operation.

3.3 Instructions for installation steps



Step 1: Remove the packing material and take out the accessory box, bracket arm, etc. Be sure to read and understand this manual carefully before proceeding to the next step.

Step 2: Place supports between the two posts or hoist the top post in place, then remove the screws from the packing rack.

Note: Be careful to ensure that the column will not tip over during the process of removing the packing rack, so as not to cause injury to personnel and damage to the fittings between the column.

Step 3: After removing the first column, place the support under the second column, then carefully remove the screws.

Step 4: Determine the installation position of the column, erect the main and assistant columns, the width between the columns is 2850mm.

1. After connecting the long column (for two section column lift, for lift with one section columns there is no this step), determine the main column with power unit and the assistant column .

2. Mark the shape and installation position of the bottom plate with chalk according to the installation foundation drawing (Attachment 2) and the overall dimensions drawing (Attachment 1).

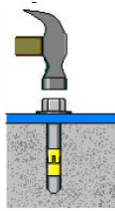
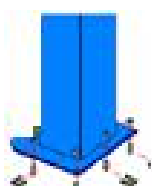
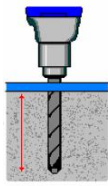
3. Before proceeding to the next step, make sure that the bottom of the column and the chalk line are aligned again.

Step 5: Install the column, first install the main column and then install the assistant column.

1. Use an electric drill to drill the installation hole of the expansion bolt, vertical force, can not tilt the drill bit.

2. After drilling the hole, sweep away the dust and make sure that the base plate of the column and the lines drawn are aligned during the drilling process.

3. Following the chalk lines, position the main column, install the assistant column by following steps 1 and 2, and make sure the columns are parallel to each other and perpendicular to the ground.



Step 6: Install the beams.

1.The inner and outer beams are to be connected (for beam with two section, if the beam is with just one section there is no this step), wheel for the wire rope and the wheel shaft and the cover are to be installed.

2.Install the beam to connect the main and secondary posts.

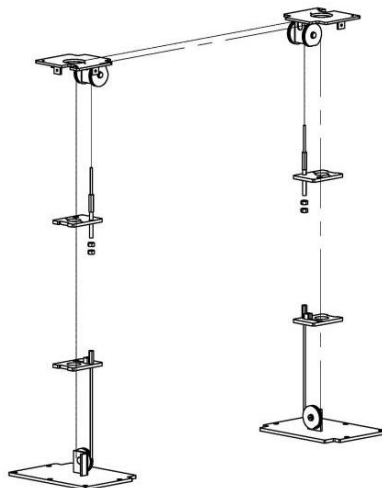
Step 7: Attach the wire rope.

1.The height of the carriages on both sides must be at the same height before installing the wire rope.

2.Follow the wire rope connection diagram to begin the installation.

3.After laying the wire rope, adjust the joint until the tightness of both sides is the same, which can be judged by the safety lock clicking sound on both sides when rising. If it is not sure at this moment, it can be adjusted when the machine is in trial operation.

4.Grease the wire rope with butter after the installation of the wire rope (this step cannot be omitted).

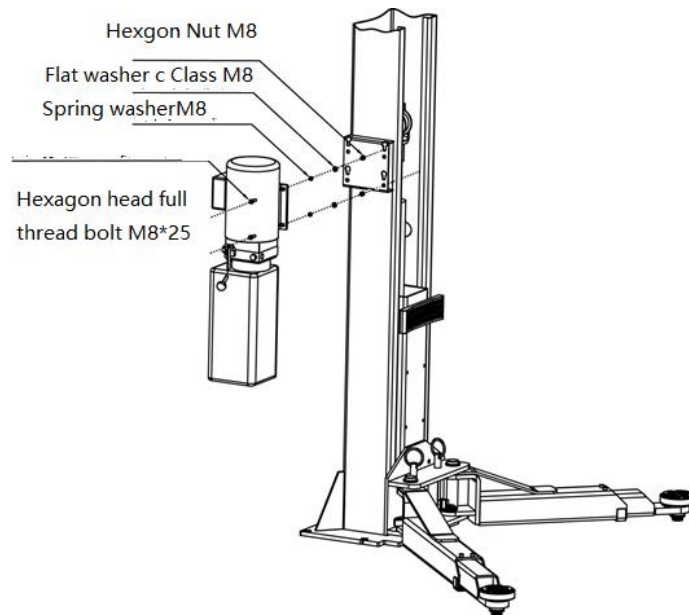


Step 8: Install the pump station

Step 9: Connect the hydraulic tubes

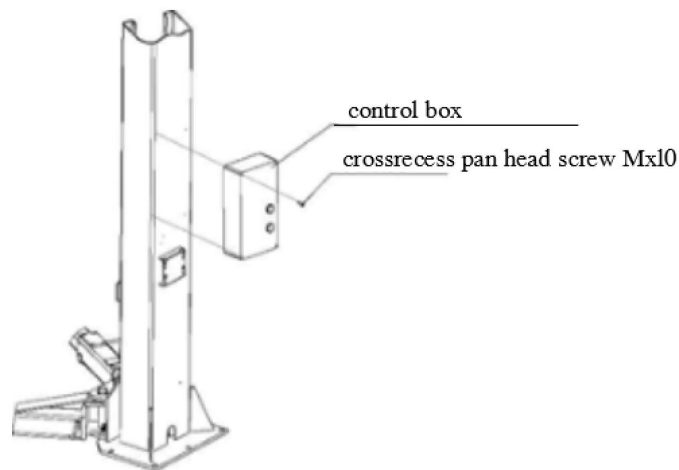
1.Follow the tubes connection diagram to connect the tubes.

2.Make sure the tube joint is clean when connecting the tubing.



Step 10: Install the control unit.

1. Attach the control box to the motor mounting plate on the main post.
2. Connect the limits inside the post
3. Connect the upper limit of the beam
4. Connect the motor power cable to the external power cable



Step 11: Install the lift arm.

Connect the lift arm to the carriage with a pin. Swing the lift arm back and forth and make sure the teeth and blocks fit.

Step 12: Fill with hydraulic oil.

The capacity of the tank is 10L, and the hydraulic oil must be more than 4/5 of the capacity of the tank to work properly. Use 32# in winter and 46# anti-wear hydraulic oil in summer!

Step 13: Trial run.

1. Do not place any vehicles on the lift during the trial run.

2. Check to see if all parts are connected correctly.

3. Check the mechanical safety lock's locking status. If the lock does not work, please adjust the hex bolt on the safety lock from the hole on the side of the post according to the instructions in the picture below. (If the lock does not lock, please reverse the screw. If the lock does not open, please turn the bolt clockwise.)

Step 14: Install column curtain/vehicle door crash protection pad/electromagnet guard/foot guard.

3.4 Checklist After Installation

S/N	Check items	YES	NO
1	Whether the post is perpendicular to the ground		
2	Whether the extension post is tilted inward or outward		
3	Whether the tube connection is correct		
4	Whether the wire rope connection is correct		
5	Whether the lift arm connection is correct		
6	Whether electrical connection is correct		
7	Whether other parts of the connection are tight		
8	Whether all parts to be lubricated correctly		

4. OPERATION INSTRUCTIONS

4.1 Instructions for operation precautions

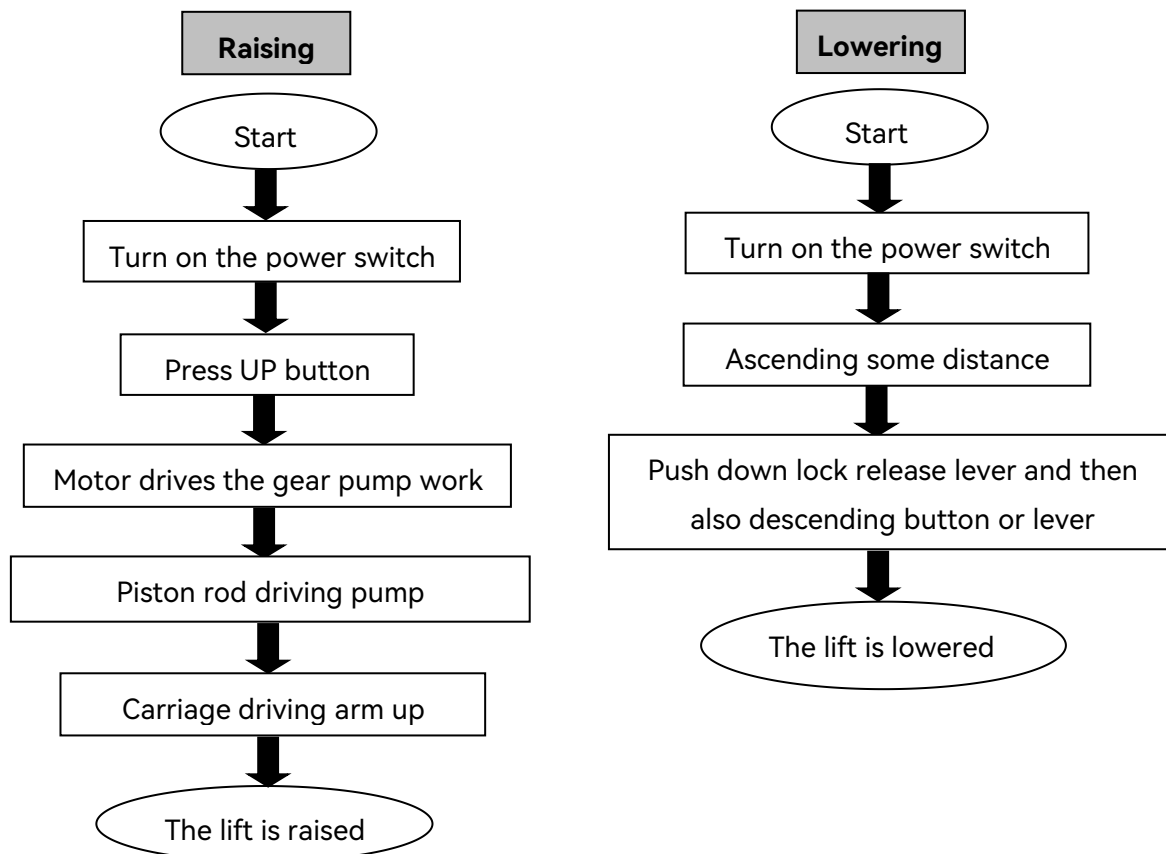
1. Check all joints and tube connection. The machine should only be used if there is no oil leakage.

2. If the safety device of the lift fails, it must not be put into use.

3. If the center of gravity of the repaired vehicle is not located in the center of the lifting range, the lifting machine cannot be operated, otherwise Eounice and the dealer shall not bear any consequences arising there from.

4. The operator and other staff must stand in the safe area during the lifting and lowering of the lift.

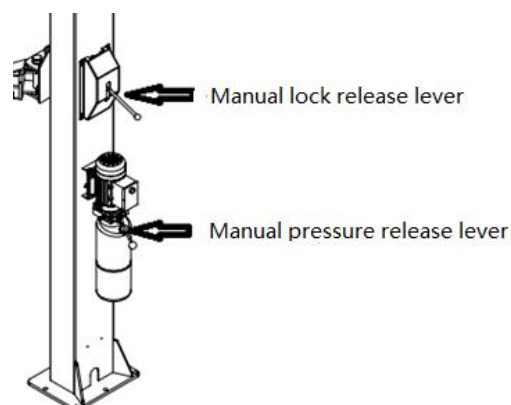
4.2 Operation Flow chart



The lift Raising

- 1.You must read and understand the operating instructions before operating the machine.
- 2.Park the car between the two posts.
- 3.Swing the lifting arms to the car's support point, making sure the car's center of gravity is in the center of the four lifting arms.
- 4.Turn on the power switch and gently press the lifting button on the electric control box until the pad of the lift arm touches the support point of the car.
- 5.Continue to rise to lift the car off the ground a little, then check the car's position again.
- 6.Rise to the required height, check if the car is safe, and then press the manual pressure release lever on the power unit to put the safety lock in place and turn off the emergency stop switch before you can work under the car.

The lift Lowering



1. Make sure the machine is installed
2. The power supply indicated on the nameplate is connected.
3. Press the rise button to release the safety lock teeth from the locking position.
4. Pull down the manual release lever of the post to disengage the safety lock from the rack.
5. Press the manual descending lever on the power unit to lower the car.
6. Once the lift arm is fully lowered, swing the lift arm to a 180 degree position and clear all surrounding obstructions.
7. Move the car away.

5. Problem symptoms and solutions

Note: If you cannot resolve the problem, contact the manufacturer for help. We will help you solve the fault as soon as possible, and provide us the relevant fault information and fault pictures so that the manufacturer can troubleshoot the fault for you at the fastest speed.

Fault symptom	Causes	Methods of elimination
Unusual Sounds	Whether there are friction marks on the inside the column	Add lubricating oil to the inside of the column
	Whether there are obstructions inside the	Clear internal obstructions
The motor does not turn and carriage does not rise	Poor wire contact	Check and connect the wiring
	Motor circuit breaks or burns out	Replace the motor
	Limit switch out of line. Poor operation,damaged.	Connect the wiring. Adjust or replace the limit switch
The motor rotates but carriage does not rise	Motor reverses	Correct wire connection
	The relief valve is loose or obstructed	Adjust or clean the relief valve
	Gear pump damaged	Replace the gear pump
	Insufficient hydraulic oil	Refill Hydraulic oil
	The suction tube is loose and comes off	Tighten the suction tube
	Loosen or obstructed buffer valve	Tighten or clean the buffer valve
Slow pressure relief after lifting	Check the tubing for oil leaks	Replace the tubing
	The cylinder seal is poor	Replace the seal
	Check valves are poorly sealed	Disassemble and clean out or replace
	Bad relief valve	Disassemble and clean to remove or
	The electromagnetic pressure release valve is bad	Disassemble and clean to remove or replace
	Whether the wire rope is loose and has not leveled	Check that the wire rope is leveled

Fault symptom	Causes	Methods of elimination
Ascending speed slow	Oil strainer blocked	Wash or replace
	Air is mixed into the oil	Refill hydraulic oil
	The relief valve is not adjusted properly	Adjust
	The hydraulic oil gets hot (above 45°)	Replace hydraulic oil
	Worn cylinder seals	Replace the seal
	Column lubrication is not good	Change the lube inside the cylinder
Descending speed slow	Descending throttle is stuck and obstructed	Clean out or replace
	Hydraulic oil dirty and not clean	Replace the hydraulic oil
	The explosion-proof throttle has an obstruction	Replace the explosion-proof throttle
	Obstructed tubing	Replace the tubing
The wire rope has roughness	Installation without butter lubrication	Replace the wire rope

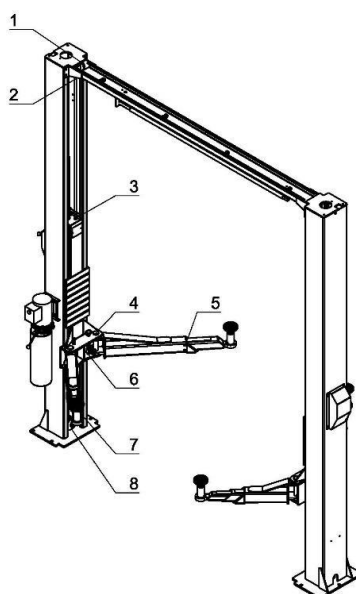
6. Maintenance Instructions

Simple and inexpensive routine maintenance can ensure the normal operation and safety of the machine. The following are some routine maintenance requirements.

The following recommended routine maintenance time can be carried out according to the environment and times of use of the lift.

Parts to be lubricated are as follows:

S/N	Description
1	Upper pulley
2	Wire rope
3	Slider
4	Pin shaft
5	Lifting arm
6	Arm lock
7	Tray
8	Lower pulley



6.1 Check the following items before operation each day

The operator must perform a check before operating the machine. The inspection of the safety lock is very important, and it must be checked every day to ensure that you will not suffer serious damage. It is not a waste of time, and it will avoid casualties.

- When operating, judge the locking status of the safety lock according to the sound.
- Check the connection of the hydraulic pipe and whether there is oil leakage.
- Check the connection of the chain, the connection of the wire rope, the electrical part.
- Check the tightness of the expansion bolts.
- Check the meshing of the lifting arm and the tooth block.

6.2 Contents of the weekly routine inspection

- Check the flexibility of moving parts.
- Check the working conditions of safety parts.
- Check the amount of oil left in the oil tank. Oil is enough if the carriage can be raised to highest position. Otherwise, oil is insufficient.
- Check whether expansion bolts are firmly screwed.

6.3 Contents of monthly routine inspection

- Tightening of bolts.
- The tightness of the hydraulic system, if oil leakage is found, tighten the joint.
- Check the lubrication and wear of the pin, pulley, carriage structure, lifting arm and related parts, and replace it in time once the damage is found.
- Check the lubrication and wear of the wire rope.

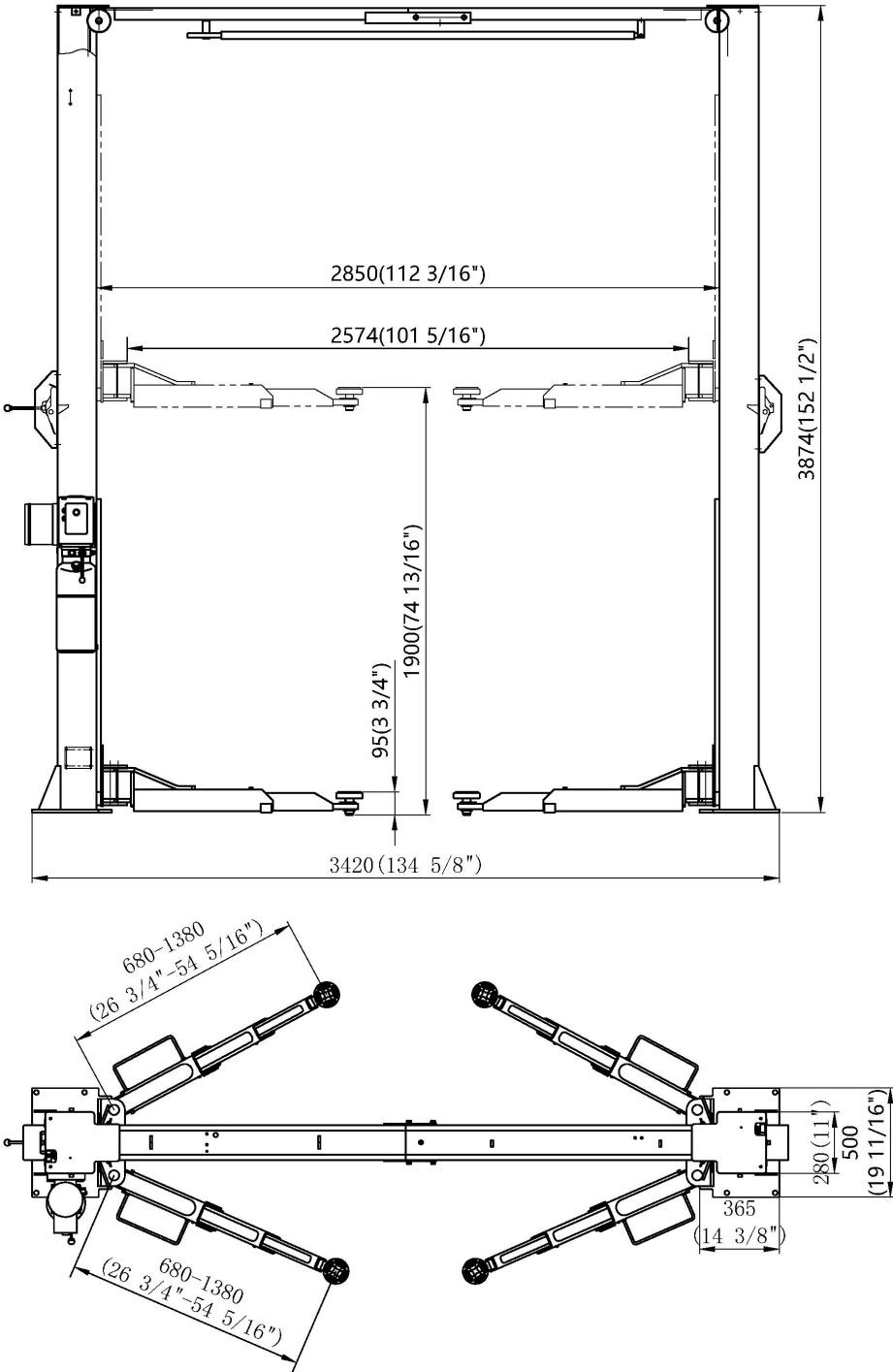
6.4 Contents of annual routine inspection

- Empty the tank to check the condition of the hydraulic oil.
- Clean the filter in the oil tank.

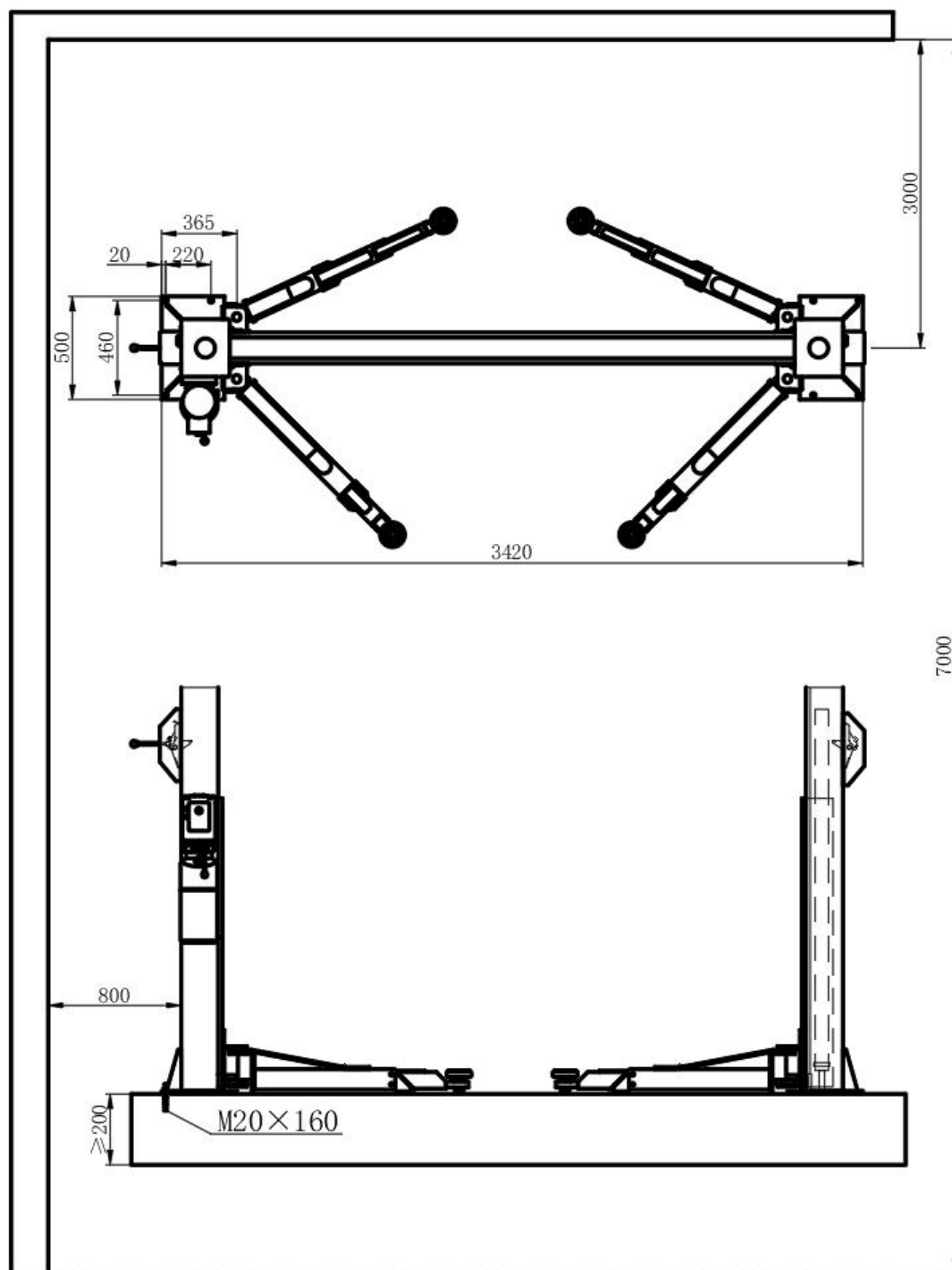
Warning: If the machine is maintained in strict accordance with the above requirements, the machine will always be in normal working condition, and the accident can be avoided to a large extent.

7.ANNEX

Annex 1, Outline Size Drawing



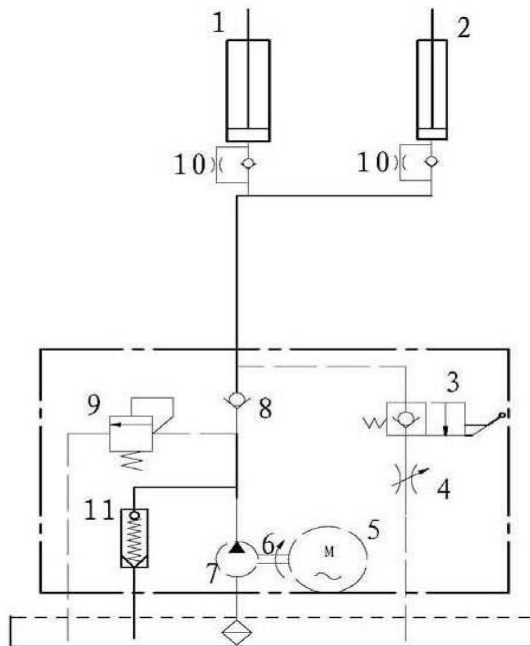
Annex 2, Installation Foundation Drawing



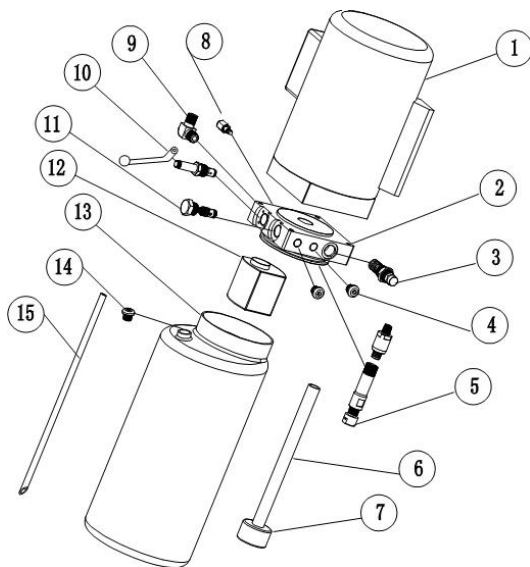
Technical requirements

- 1、Concrete type 425# with a drying period of 25 days
- 2、Concrete thickness $\geq 200\text{mm}$
- 3、Level accuracy of foundation $\leq 5\text{mm}$
- 4、The thickness and level of the foundation concrete are very important, and the level adjustment ability of the machine itself cannot be expected too much.

Annex 3, Hydraulic Schematic Diagram



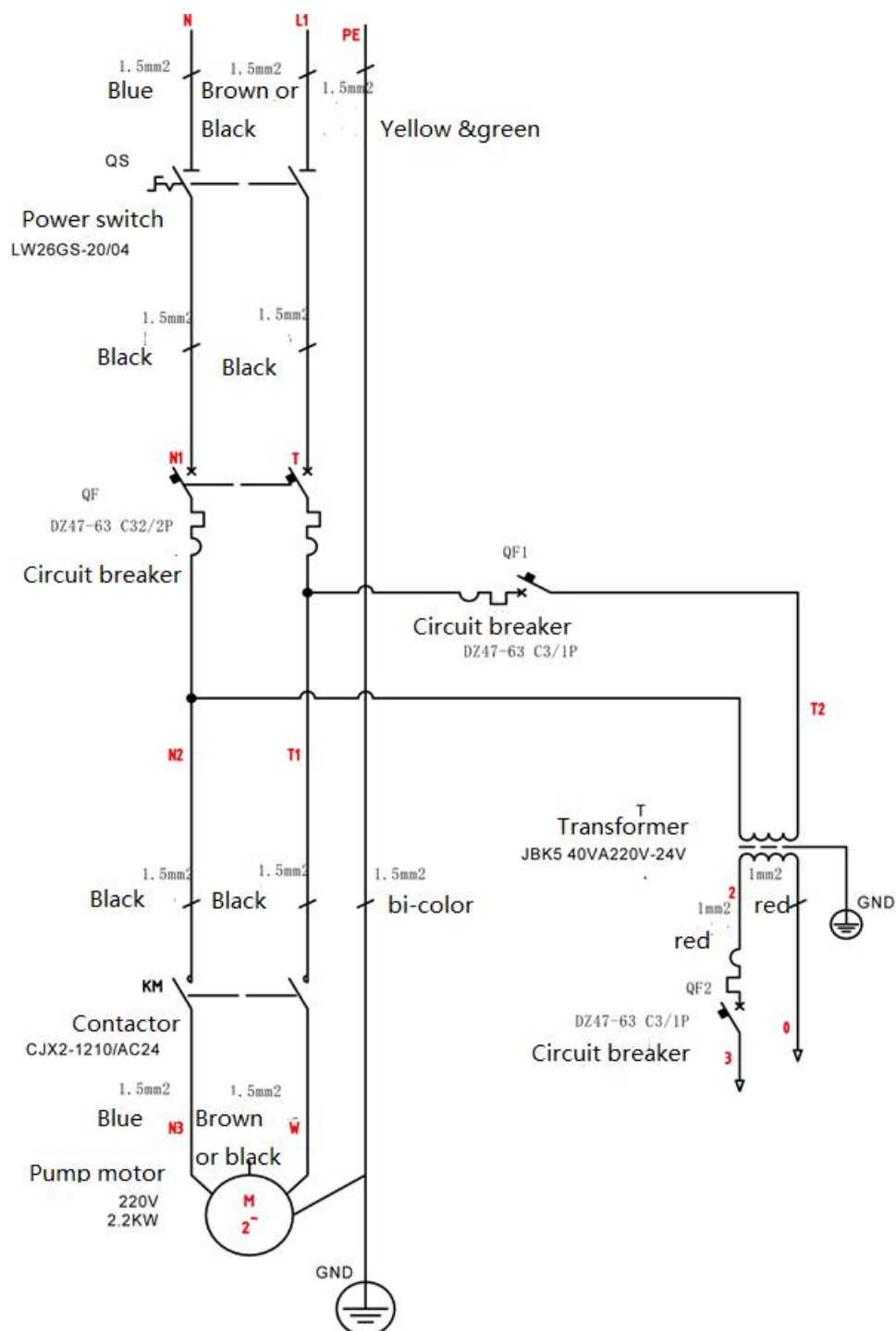
1. Drive oil cylinder
2. Assistant cylinder
3. Electro-unloading valve
4. Lowering throttle valve
5. Motor
6. Coupling
7. Gear pump
8. Single-way valve
9. Overflow valve
10. Anti-surge valve
11. Cushion valve
12. Emergent unloading valve



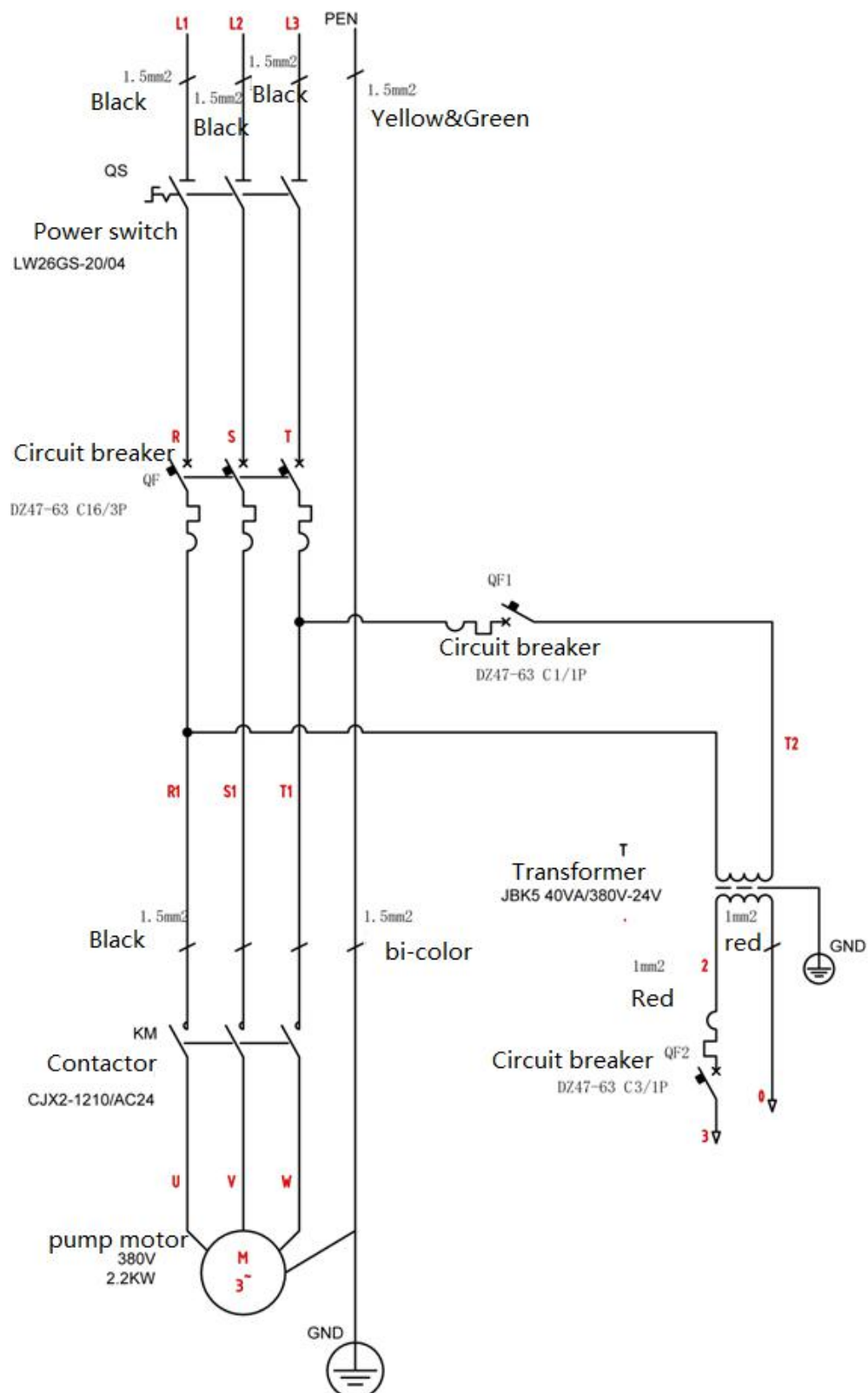
S/N	Name	Qty
1	Motor	1
2	Hydraulic block	1
3	Overflow valve	1
4	Removable plug	2
5	Cushion valve	1
6	Oil absorbing pipe	1
7	Oil filter	1
8	Throttle valve	1
9	Oil pipe tie-in	1
10	E-magnetic unloading	1
11	One-way valve	1
12	Gear pump	1
13	Plastic oil tank	1
14	Oil tank cover	1
15	Oil back pipe	1

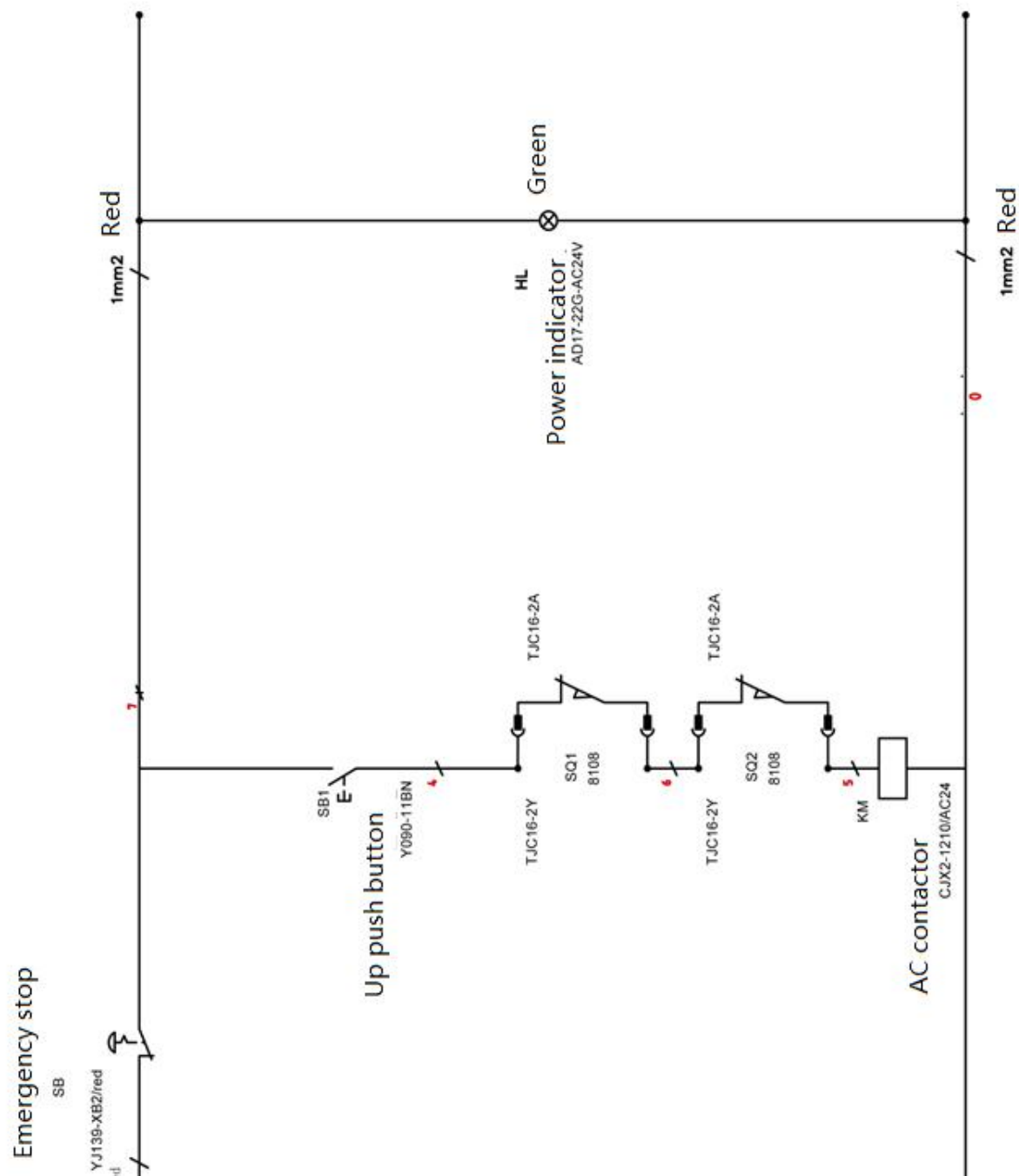
Annex 4, Electrical schematics

Single-phase

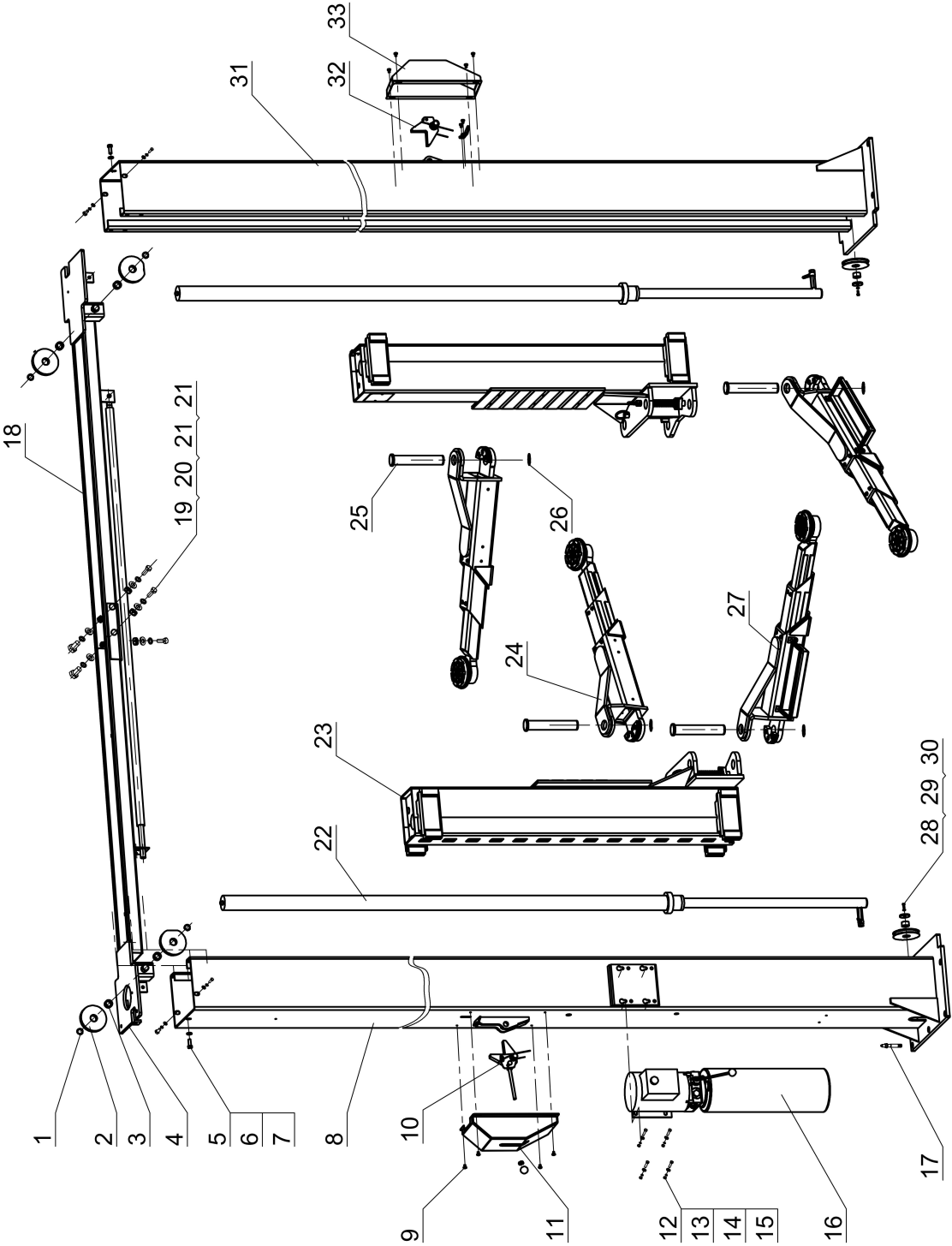


Three-phase



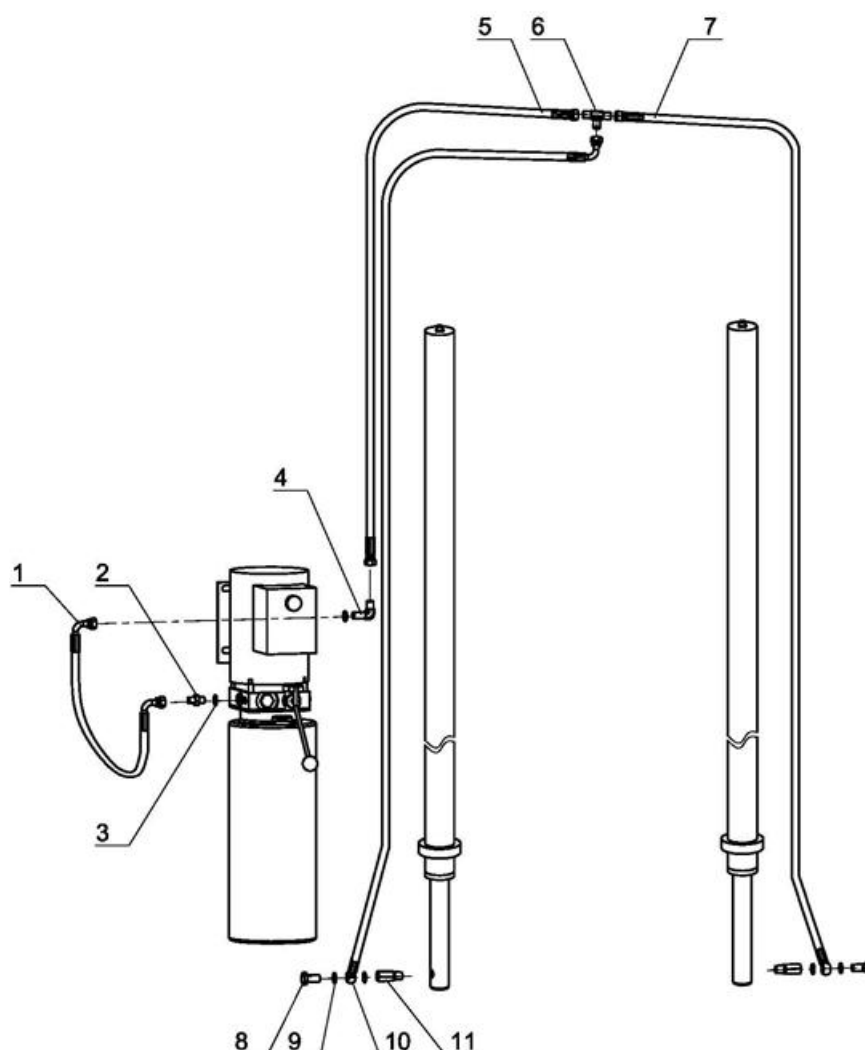


Annex 5, Complete machine breakdown drawing



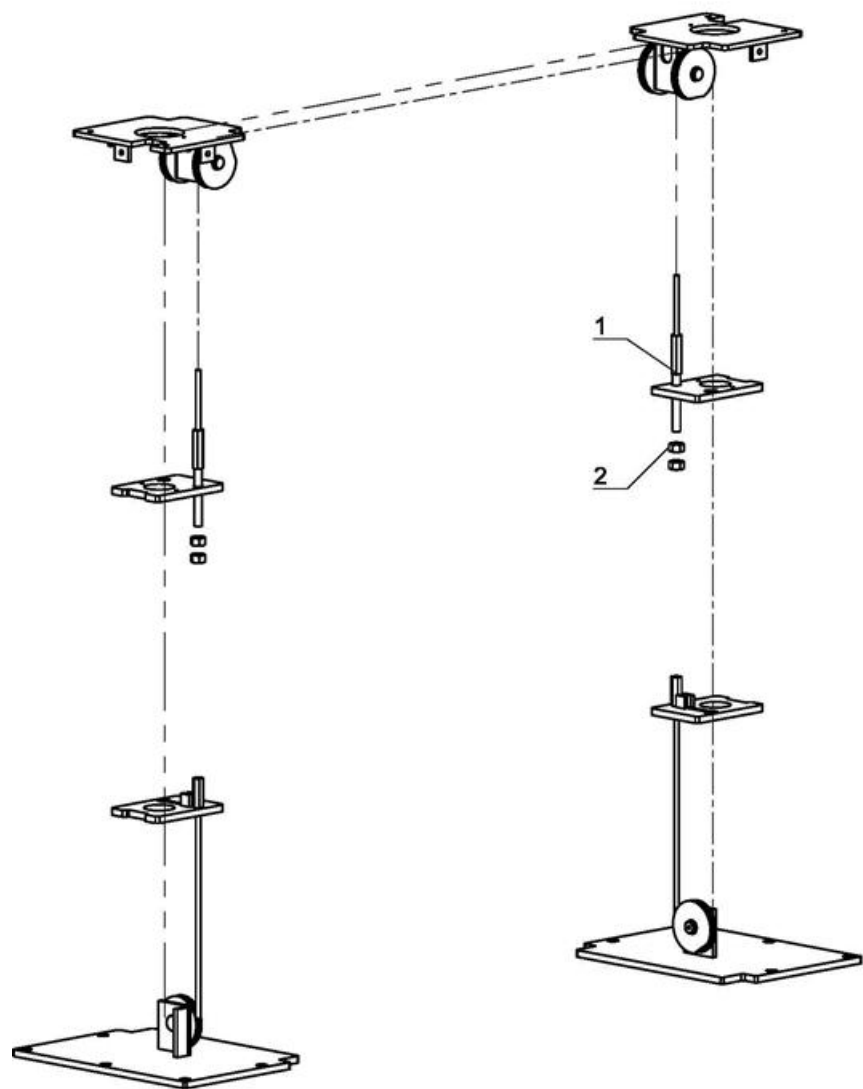
No.	Material #	Name	Drawing#	Qty	Materials	Remarks
1		Retaining ring for shaft 25	GB/T 894.2	4		
2		Lower pulley	ON-7224-A1-B2	6		
3		Composite bushing 2516	SF-2Y	6		
4		Post top plate	ON-7215DT-13A-00	2		
5		Hex screw M12x20	GB/T 70.1	6		
6		Nut M12	GB/T 6170	6		
7		Spring washer 12	GB/T 93	6		
8		Main post	ON-7215DT-10A-00	1		
9		Pan head screws M6x10	GB/T 818	10		
10		Main safety lock		1	Composite of parts	
11		Main lock cover	ON-7224DFL-A30	1		
12		Bolt M8 x 25	GB/T 5781	4		
13		Nut M8	GB/T 6170	4		
14		Flat washer 8	GB/T 95	4		
15		Spring washer 8	GB/T 93	4		
16		Power unit		1		
17		Expansion screw M18x		10		
18		Beam		1	Composite of parts	
19		Bolt M10 x 30	GB/T 5781	8		
20		Nut M10	GB/T 6170	8		
21		Flat washer 10	GB/T 95	8		
22		Spring washer 10	GB/T 93	8		
23		carriage		2	Composite of parts	
24		Three stage arm		4	Composite of parts	
25		Pin shaft	ON-7224F-12	4		
26		Retaining ring for shaft	GB/T 894.2	4		
27		Baffle	ON-7224-A1-B3-C2	2		
28		Hex socket screw M8 x16	GB/T 70.1	2		
29		Retainer for shaft 25	GB/T 894.2	2		
30		Assistant column	ON-7215DT-10B-00	1		
31		Assistant safety lock		1	Composite of parts	
32		assistant Lock Cover	ON-7224DFL-A31	1		

Hydraulic system



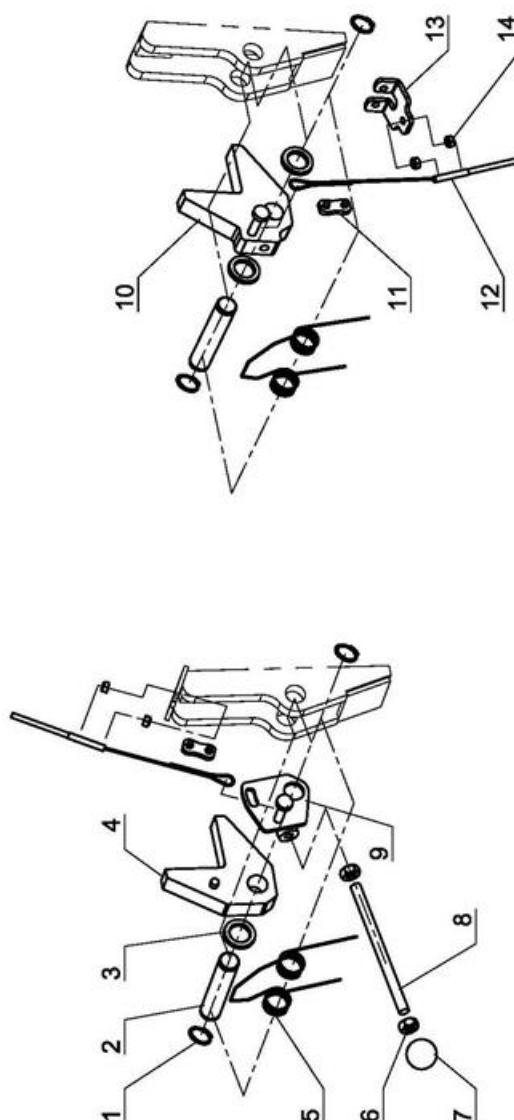
No.	Material #	Name	Drawing#	Qty	Materials	Remarks
1		High pressure tubing 450	ON-7214ZK-A18	1		
2		Pump splice		1		
3		Composite shims		1		
4		Right Angle splice G1/4	ON-7224E-A4-B15	1		
5		High pressure tubing 4400	CL-7214DT-45H-50-02	1		
6		Tee joint G1/4	ON-7803-40-01	1		
7		High pressure tubing 5550	CL-7214DT-45H-50-01	1		
8		Hollow bolt G1/4		2		
9		Composite gasket G1/4		4		
10		High pressure tubing 5550	CL-7214DT-45H-50-01	1		
11		Medium long joint 82	ON-7216DT/5.5-50-03	2		

Steel wire cable



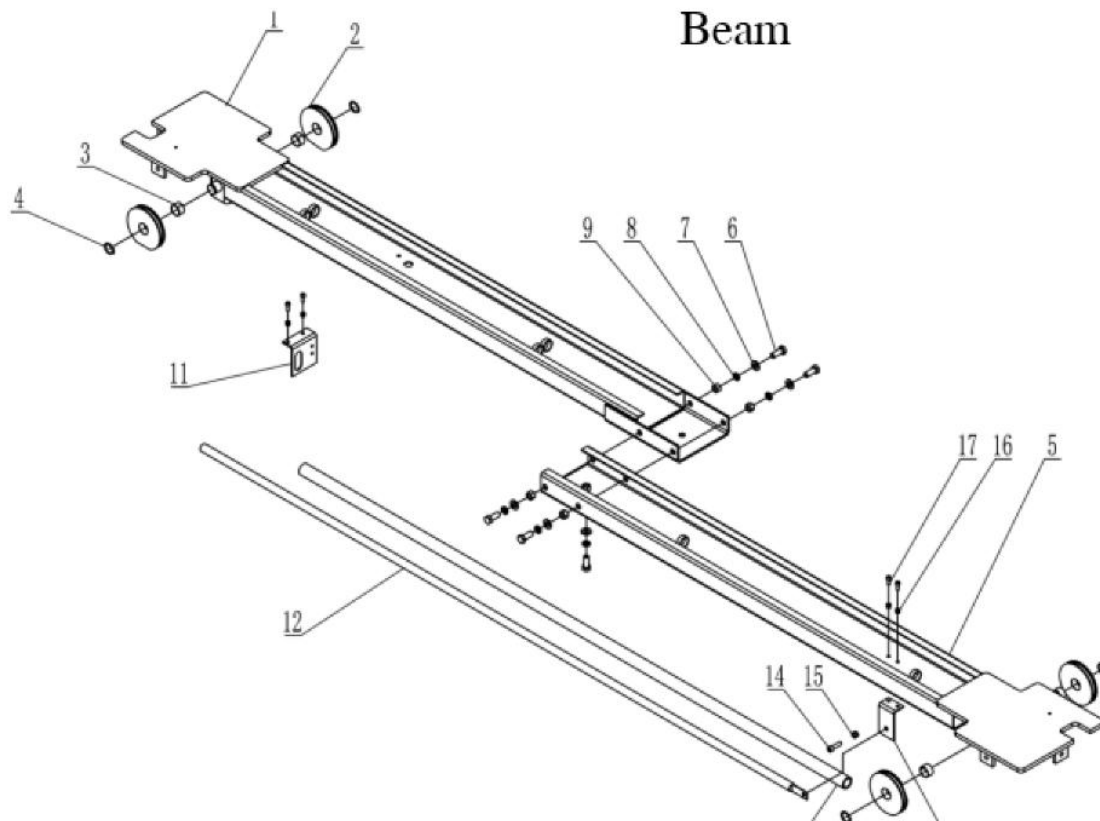
No.	Material #	Name	Drawing#	Qty	Materials	Remarks
1		Wire Rope 9490	CL-7214DT-45H-00-01	2		
2		Nut M16	GB/T 6170	4		

Main and assistant locks

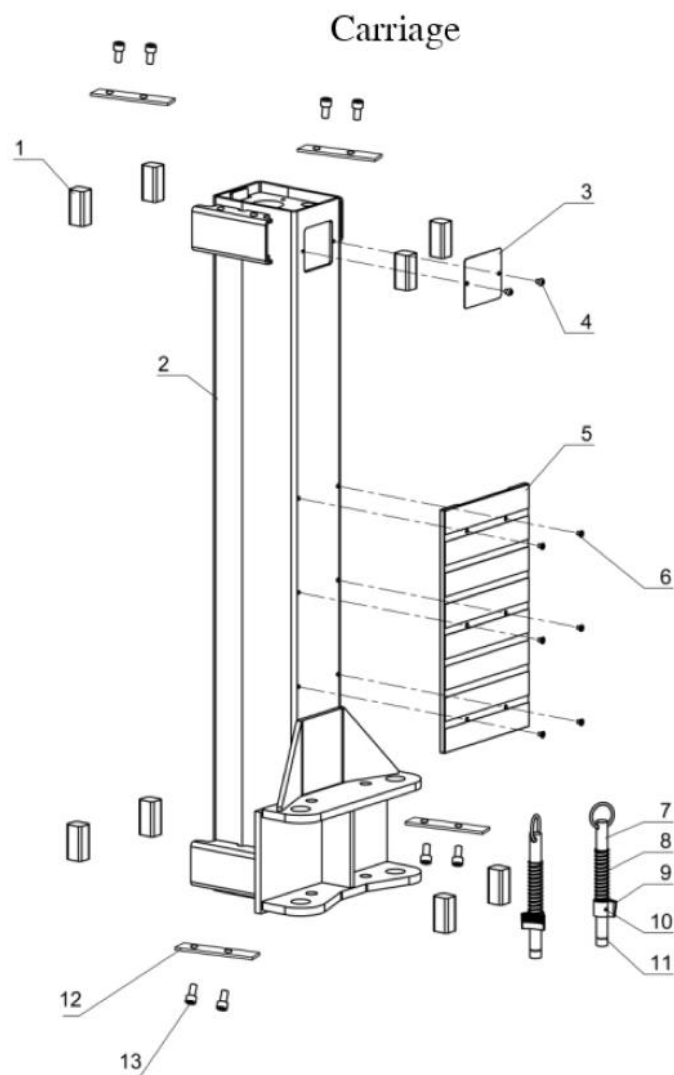


No.	Material #	Name	Drawing#	Qty	Materials	Remarks
1		Retaining ring for shaft 30	GB/T 894.2	4		
2		Safety hook shaft	ON-7216EL-10-06	2		
3		Lock spring spacer	ON-7216EL-10-05	3		
4		Main safety hook	ON-7214DK-A4-B2	1		
5		Twist spring	ON-7224D-36	2		
6		Nut M10	GB/T 6170	2		
7		Handle ball M10	ON-7214ZD-02-03-06	1		
8		lock release lever	ON-7215DT-10-10-14	1		
9		Auxiliary turning block	ON-7214DK-A4-B3	1		
10		Assistant safety hook	ON-7214DK-A4-B4	1		
11		Wire rope clamp M3		2		
12		Gate line 7600	CL-7214DT-45H-60-01	1		
13		Assistant gate line	ON-7224DFL-A21	1		
14		Nuts M6	GB/T 6170	4		

Beam

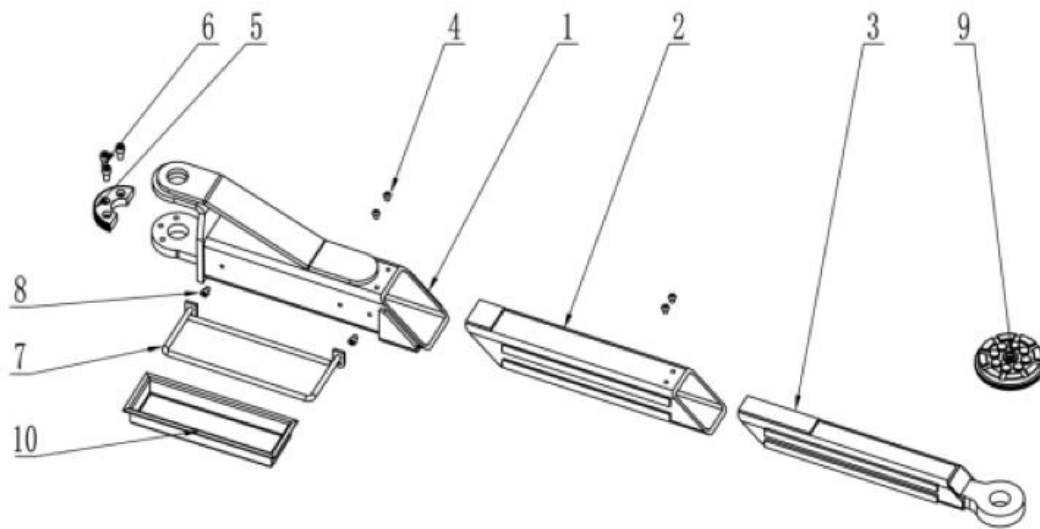


No.	Material #	Name	Drawing#	Qty	Materials	Remarks
1		Top cover plate of column	CL-7214DT-13-00	1		
2		Lower pulley 108	ON-7224-A1-B2	4		
3		Oil-free bearing 282516	SF-2	4		
4		Elastic retaining ring for shaft 25	GB894.1-1986	4		
5		Top cover plate of column 2	CL-7214DT-14-00	1		
6		Hexagon head bolt full thread M12×30	GB/T5781-2000	5		
7		Flat washer 12	GB/T97_1-2002	5		
8		Elastic washer 12	GB/T93-1987	5		
9		Hex nut M12	GB/T6170-2000	5		
10		Waist-shaped hole plate 2	ON-7214-A3-B1-C9	1		
11		Waist-shaped hole plate	ON-7214-A3-B1-C8	1		
12		Rod	ON-7214-A3-B7	1		
13		Foaming sleeve	ON-7214-A3-B8	1		
14		Hexagon head cap screw M8 ×30	GB/T70.1-2008	1		
15		Non-metallic insert type 1 hexagon locking nut M8	GB/T889.1-2000	1		
16		Non-metallic insert type 1 hexagon locking nut M6	GB/T889.1-2000	4		
17		Hexagon head cap screw M6 ×16	GB/T70.1-2008	4		



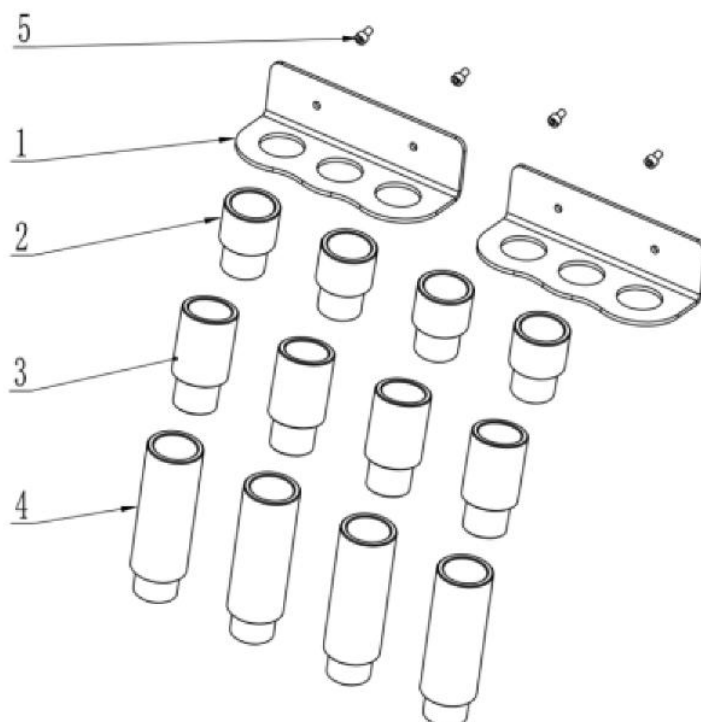
No.	Material #	Name	Drawing#	Quantity	Materials	Remarks
1		Slider	ON-7224-A3-B2	16		
2		carriage	ON-7215DT-20-00	2		
3		Cover plate	ON-7215DT-20A-01	2		
4		Screws M6x10	GB/T 818	4		
5		Anti-crash pads	ON-7215DT-20-10-04	2		
6		Countersunk screw	GB/T 819.1	12		
7		Lever	ON-7224F-A3-B2	4		
8		compressed spring	ON-7224-A3-B5	4		
9		Tooth blocks	ON-7224-A3-B4	4		
10		Elastic pin 5 x 35	GB/T 879.4	4		
11		Retaining ring for shaft	GB/T 894.2	4		
12		Slider bracket pressure	ON-7225D-A3-B9	4		
13		Hexagon head cap	GB/T70.1	4		

Three stage arm



No.	Material #	Name	Drawing#	Quantity	Materials	Remarks
1		Rear arm assembly	ON-7224F-A7-B3	1		
2		Intermediate arm	ON-7224F-A7-B2	1		
3		Forearm assembly	ON-7224F-A7-B1R	1		
4		Hexagon head cap screw	GB/T 70.2-2000	4		
5		Half-tooth block	ON-7224-A7-B5	1		
6		Hexagon head cap screw	GB/T 70.1-2000	3		
7		Three-section support	ON-7224F-A7-B4R	1		
8		Hexagon head cap screw	GB/T 70.1-2000	2		
9		Single section pallet	ON-7214DT-A15-4	1		
10		Tool box	CL-7214DT-10-08	1		

optional accessories



No.	Material #	Name	Drawing#	Quantity	Materials	Remarks
1		Extendable bracket	ON-7214DT-A1-B4	2		
2		Heightened set 38	ON-7214DT-A15-1	4		
3		Heightened set 64	ON-7214DT-A15-2	4		
4		Heightened set 127	ON-7214DT-A15-3	4		
5		Hexagon head cap screw	GB/T70.1-2008	4		

Annex 6, List of common accessories

List of accessories for electrical section

No.	Material #	Name	Drawing#	Units	Quantity	Remarks
1		Limit switch	TZ8108		2	

Annex 7, Packing List

No.	Material #	Name	Drawing#	Qty	Material
1		Main Column	ON-7214DT-45H-10	1	Components
2		Secondary column	CL-7214DT-45H-10B	1	Components
3		Three-section arm	ON-7224F-A7	4	Components
4		Sliding platform	ON-7215DT-20A-00	2	Components
5		Hydraulic pump stationv		1	Components
6		Column top plate	CL-7214DT-13-00	1	Painted parts
7		Column top plate 2	CL-7214DT-14-00	1	Sprayed parts
8		Pole + Foam Sleeve	ON-7214-A3-B7/B8	1	Sprayed parts
The carton includes the following					
9		Full Threaded Hexagon Head	M8X25	4	Rubber
10		Flat washers grade C	8	4	Components
11		Spring washers	8	4	Components
12		Hexagon nuts	M8	4	Galvanized
13		Tiger arm expansion bolts	M20*160	10	Components
14		Adjustment washers	ON-7224-A17	5 each of thick and	Painted parts
15		Socket set frame	ON-7214DT-A1-B4	2	Painted parts
16		Hexagon socket head cap screws	M6*10	12	Galvanized parts
17		Extension Sleeve 38	ON-7214DT-A15-1	4	Galvanized
18		Extension sleeve 64	ON-7214DT-A15-2	4	Galvanized
19		Sleeve 127	ON-7214DT-A15-3	4	Galvanized
20		Elastic Retaining Ring for Shaft-B Type	50	4	Standard parts
21		Waist-shaped hole plate	ON-7214-A3-B1-C8	1	Sprayed parts
22		Waist-shaped hole plate 2	ON-7214-A3-B1-C9	1	Sprayed parts
23		Hexagon socket cheese head screws	M6*16	4	Standard parts
24		Self-locking nuts	M6	4	Standard parts
25		Hexagon socket cheese head screws	M8*30	1	Standard parts
26		Self-locking nuts	M8	1	Standard parts
27		Hexagon head bolts	M12X30	5	Standard parts
28		Spring washers	12	5	Standard parts
29		Flat washers grade C	12	5	Standard parts
30		Hexagon nuts	M12	5	Standard parts
31		Hexagon head bolts	M12X35	6	Standard parts
32		Spring washers	12	6	Standard parts

No.	Material #	Name	Drawing#	Qty	Material
33		Flat washers grade C	12	6	Standard parts
34		Hexagon nuts	M12	6	Standard parts
35		Short oil pipe 450 (for pump mounted side)	ON-7214ZK-A18	1	Standard parts
36		Gate line 7600/8100	CL-7214DT-45H-60-	1	Components
37		Wire rope double clamp	M3	2	
38		Sub-gate line retaining plate	ON-7224DFL-A21	1	Painted parts
39		Pan head screw	M6×10	2	Standard parts
40		Unlocking hand ball M10	ON-7214ZD-02-03-0	1	Nylon
41		Unlocking handle	ON-7215DT-10-10-1	1	Galvanized
42		Pipe Clamps	ON-7215DT-13-02A	2	Sprayed parts
43		Hexagon head bolts	M6*40	2	Standard parts
44		Hexagon socket flat round head screws	M8*10	8	Standard parts
45		Travel switch + cable		1	
46		Instruction manual		1	

Warranty terms

This warranty applies only to customers and dealers who have purchased Thinkcar products through the normal course of business.

For a period of three years from the date of delivery, Thinkcar Inc. warrants its electronic products against damage caused by defects in material or workmanship. Damage to this equipment or parts caused by misuse, unauthorized alteration, use for purposes other than those for which the product was designed, or failure to operate in the manner specified in the instruction manual is not covered by this warranty. Damage to automotive gauges caused by defects in this equipment is limited to repair or replacement only, and Thinkcar is not liable for consequential or incidental damages. Thinkcar will determine the nature of the damage to the equipment in accordance with its own prescribed methods of inspection. No agent, employee, or commercial representative of Thinkcar is authorized to make any confirmation, recommendation, or promise in connection with Thinkcar products. No agent, employee or commercial representative of Thinkcar is authorized to make any confirmation, representation or promise with respect to Thinkcar products.

Waiver of Declaration

The above warranty may be substituted for any other form of warranty.

Order Notification

Replacement parts and optional accessories can be ordered directly from Thinkcar authorized dealers, please specify the quantity, part number and part name.

Customer service center

If you encounter any problems during the operation of the equipment, please call: 1-909-321-5665.

When the equipment needs to be repaired, please send it to Thinkcar with the warranty card, product certificate, purchase invoice and a description of the problem. If the equipment is within the warranty, Thinkcar will repair it free of charge; if the equipment is outside the warranty, Thinkcar will charge for the repair and add the return shipping cost.

Thinkcar Company Address:

1908 S Lynx Pl, Ontario, CA 91761

Customer Service Email: service@thinkcar.com

Thinkcar website: www.thinkcar.com

Statement:

Thinkcar reserves the right to change product design and specifications without prior notice. The appearance and color of the actual product may differ from that shown in the manual, please refer to the actual product. We have tried our best to make all the descriptions in the book accurate, but there are still some inaccuracies, if you have any questions, please contact the dealer or Thinkcar after-sales service center, the company does not assume any responsibility for any misunderstandings arising from the consequences.