

www.eae-ae.com



IMPORTANT NOTES

Before start up, connecting and operating EAE products, it is absolutely essential that the operating instructions/owner's manual and, in particular the safety instructions are studied carefully. By doing so you can eliminate any uncertainties in handling EAE products and thus associated safety risks up front; something which is in the interest of you own safety and will ultimately help avoid damage to the device, When an EAE product is handed over to another person, not only the operating instructions but also the safety instructions and information on its designated use must be handed over to the person.

By using the product you agree the following conditions:

Copy right

The enclosed instructions are the property of EAE or its supplier, and are protected against duplication and reproduction by copyright laws, international agreements, and other domestic legislation. The reproduction or disclosure of instructions or an extract thereof is prohibited and offenders are liable to prosecution; EAE reserves the right or initiates criminal proceedings and asserts claims for damages in the event of infringements.

Warranty

The use of non-approved hardware will result in a modification of our products and thus to the exclusion of any liability or warranty, even if such hardware has been removed again in the interim.

It is not permissible to make any changes to our products and these are not only to be used together with genuine accessories and genuine replacement parts. Otherwise any warranty claims will be invalid.

Liability

The liability of EAE is limit to the amount that the customer has actually paid for this product. This exclusion of liability does not apply to damages caused through willful misconduct or gross negligence on the part of EAE.



IMPORTANT NOTES	2
SAFETY NOTES	4
1.1 Operation of lifting platforms	4
1.2 Checking of the lifting platforms	4
1.3 Important safety notices	5
1.4 Warning labels	6
1.5 Potential safety risks	7
1.6 Noise level	7
PACKING, STORAGE AND TRANSPORTATION	8
2.1 Storage and transportation	8
2.2 Opening the packs	8
PRODUCTS DESCRIPTIONS	9
3.1 General descriptions	9
3.2 Construction of the lift	9
3.3 Technical data	9
3.4 Dimensions	10
3.5 Safety devices descriptions	11
INSTALLATION INSTRUCTIONS	12
4.1 Preparations before installation	12
4.2 Installation attentions	12
4.3 General Installation Steps	13
4.4 Items to be checked after installation	20
OPERATION INSTRUCTIONS	21
5.1 Precautions	21
5.2 Operation instructions	21
TROUBLE SHOOTING	23
MAINTENANCE	24
Annex 1, Floor plan	26
Annex 2, Electrical schemes and parts list	27
Annex 3, Hydraulic schemes and parts list	27
Annex 4, Mechanical exploded drawings and parts list	32



SAFETY NOTES

1.1 Operation of lifting platforms

This lift is specially designed for lifting motor vehicles. Users are not allowed to use it for any other purposes. The applicable national regulations, laws and directives must be observed.

Only users aged 18 or above who have been instructed on how to operate the lifting platform and have proven their ability to do so to the owner are to be entrusted with unsupervised operation of lifting platforms. The task of operating the lifting platforms must be granted in writing.

Before loading a vehicle onto the lift, users should study the original operation instructions and familiarize themselves with the operating procedures in several trial runs.

Lift vehicle within the rated load. Don't attempt to raise vehicles with excessive weight.

1.2 Checking of the lifting platforms

Checks are to be based on the following directives and regulations:

- Basic principles for testing lifting platforms
- The basic health and safety requirements stipulated in the directive 2006/42/EC
- Harmonized European standards
- The applicable accident prevention regulations

The checks are to be organized by the user of the lifting platform. The user is responsible for appointing an expert or qualified person to perform checking. It must be ensure that the person chosen satisfies the requirements.

The user bears special responsibility if employees of the company are appointed as experts or qualified persons.

1.2.1 Scope of checking

Regular checking essentially involves performing a visual inspection and a functional test. This includes checking the condition of the components and equipment, checking that the safety systems are complete and functioning properly and that the inspection log book is completely filled in. The scope of exceptional checking depends on the nature and extent of any structural modification or repair work.

1.2.2 Regular checking

After initial commissioning, lifting platforms are to be checked by a qualified person at intervals of not longer than one year.

A qualified person is somebody with the training and experience required to possess sufficient knowledge of lifting platforms and who is sufficiently familiar with the pertinent national regulations, accident prevention regulations and generally acknowledged rules of engineering to be able to assess the safe operating condition of lifting platforms.

1.2.3 Exceptional checking

Lifting platforms with a lift height of more than 2 meters and lifting platforms intended for use with people standing under the load bearing elements of the load are to be checked by an expert prior or reuse following structural modifications and major repairs to load bearing components.

An expert is somebody with the training and experience required to possess specialist knowledge of lifting platforms and who is



sufficiently familiar with the pertinent national work safety regulations, accident prevention regulations and generally acknowledged rules of engineering to be able to check and give an expert option on lifting platforms.

1.3 Important safety notices

1.3.1 Recommend for indoor use only, DO not expose the lift to rain, snow or excessive moisture.

1.3.2 Only use this lift on a surface that is stable and capable of sustaining the load. Do not install the lift on any asphalt surface.

1.3.3 Read and understand all safety warnings before operating the lift.

1.3.4 Do not leave the controls while the lift is still in motion.

1.3.5 Keep hands and feet away from any moving parts. Keep feet clear of the lift when lowering.

1.3.6 Only these properly trained personnel can operate the lift.

1.3.7 Do not wear unfit clothes such as large clothes with flounces, tires, etc., which could be caught by moving parts of the lift.

1.3.8 To prevent evitable incidents, surrounding areas of the lift must be tidy and with nothing unconcerned.

1.3.9 The lift is simply designed to lift the entire body of vehicles, with its maximum weight within the lifting capacity.

1.3.10 Always insure the safety locks are engaged before any attempt to work near or under the vehicle. Never remove safety related components from the lift. Do not use if safety related components are damaged or missing.

1.3.11 Do not rock the vehicle while on the lift or remove any heavy component from vehicle that may cause excessive weight shift.

1.3.12 Check at any time the parts of the lift to ensure the agility of moving parts and the performance of synchronization. Ensure regular maintenance and if anything abnormal occurs, stop using the lift immediately and contact our dealers for help.

1.3.13 Lower the lift to its lowest position and do remember to cut off the power source when service finishes.

1.3.14 Do not modify any parts of the lift without manufacturer's advice.

1.3.15 If the lift is going to be left unused for a long time, users are required to:

a. Disconnect the power;

b. Empty the oil tank;

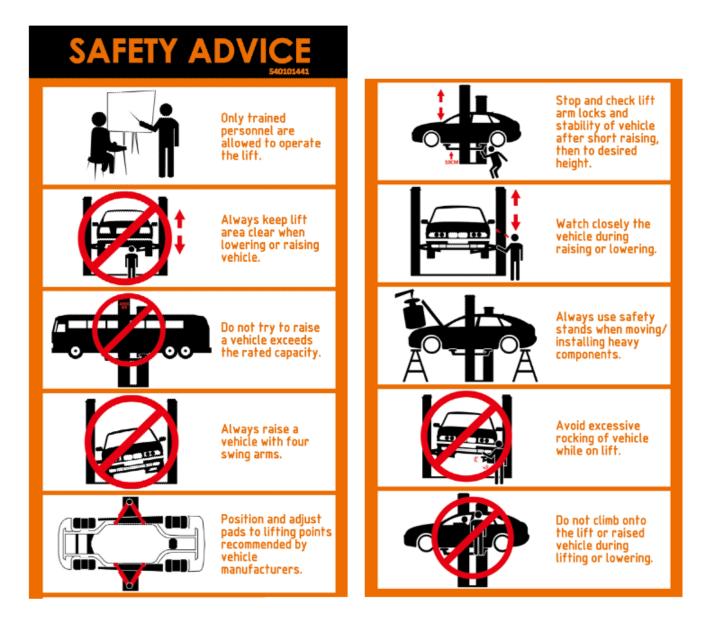
c. Lubricate the moving parts with hydraulic oil.

WARNING: The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



1.4 Warning labels

All safety warning labels are clearly depicted on the lift to ensure that the operator is aware of and avoid the dangers of using the lift in an incorrect manner. The labels must be kept clean and they have to be replaced if detached or damaged. Please read carefully the meaning of each label and memories them for future operation





1.5 Potential safety risks

1.5.1 Mains voltage



Insulation damage and other faults may result in accessible components being live

Safety measures:

- > Only ever use the power cord provided or a tested power cord.
- > Replace wires with damaged insulation.
- > Do not open the operating unit.

1.5.2 Risk of injury, danger of crushing

In the event of excessive vehicle weight, incorrect mounting of the vehicle or on removing heavy object, there is a risk of the vehicle falling off or tipping up.

Safety measures:

- > The lift is only ever to be employed for the intended purpose.
- Carefully study and heed all the information given in Section 1.4.
- > Observe the warning notices for operation.

1.6 Noise level

Noise emitted during operating the lift should be less than 70dB. For your health consideration, it is suggested to place a noise detector in your working area.



PACKING, STORAGE AND TRANSPORTATION

Packing, lifting, handling, transporting operations must be performed only by experienced personnel with appropriate knowledge of the lift and after reading this manual.

2.1 Storage and transportation

The packs must be kept in a covered and protected area in a temperature range 0f -10°C to +40°C. They must not be exposed to direct sunlight, rain or water.

Stacking the packs

We advise against stacking because the packs are not designed for this type of storage. The narrow base, heavy weight and large size of the packs make stacking difficult and potentially dangerous.

If stacking is unavoidable, use all appropriate precautions:

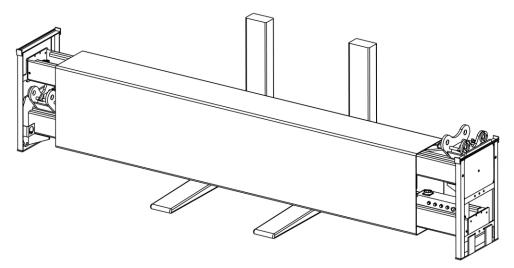
-never stack to more than 2 meters in height.

-never make stacks of single packs. Always stack pairs of packs in a cross pattern so that the base is bigger and the resulting stack is more stable. Once the stack is complete, restrain it using straps, ropes or other suitable methods.

A maximum of two packs can be stacked on lorries, in containers, and in railway wagons, on condition that the packs are strapped together and restrained to stop them falling.

2.2 Opening the packs

The packs can be lifted and transported only by using lift trucks. Never attempt to hoist or transport the unit using lifting slings.



When the lift is delivered make sure that it has not been damaged during transportation and that all the parts specified on the packing list are present.

Packs must be opened adopting all the precautions required to avoid injury to persons (keep at a safe distance when cutting the straps) or damage to parts of the machine (be careful that no parts are dropped while you are opening the packing) **Take special care with the hydraulic power unit, the control panel and the cylinder.**



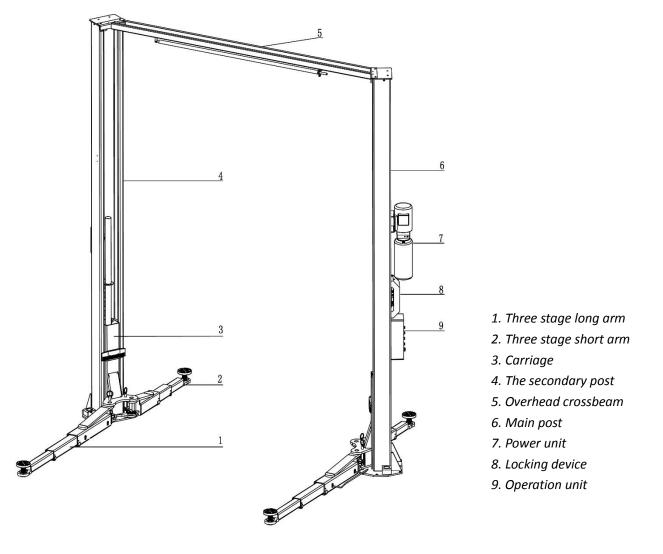
PRODUCTS DESCRIPTIONS

3.1 General descriptions

This lift is composed of posts, carriages, lifting arms, cylinders and power unit.

The lift is drove by an electro- hydraulic system. The gear pump delivers hydraulic oil to oil cylinders and pushes upwards its piston. The piston drives to raise the carriage and the lifting arms. During lifting process, the safety lock will automatically and firmly bite with the safety teeth block in the posts. Therefore, no sudden dropping-down will happen in case the hydraulic system breaks down.

3.2 Construction of the lift

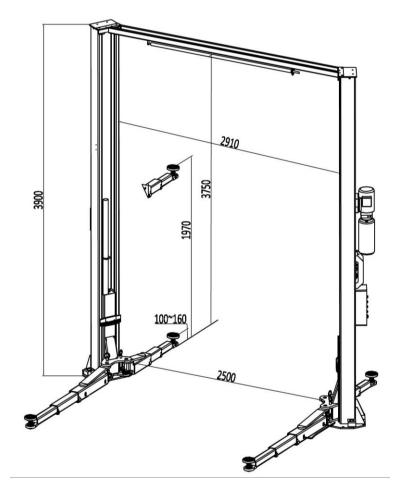


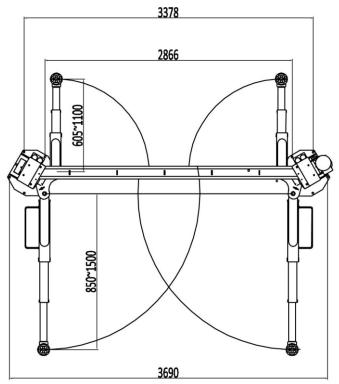
3.3 Technical data

Model	Lifting capacity	Full rise time	Release type	Full rise
EE-6214EKZ	4000kg	50 Sec	Electrical	1970mm



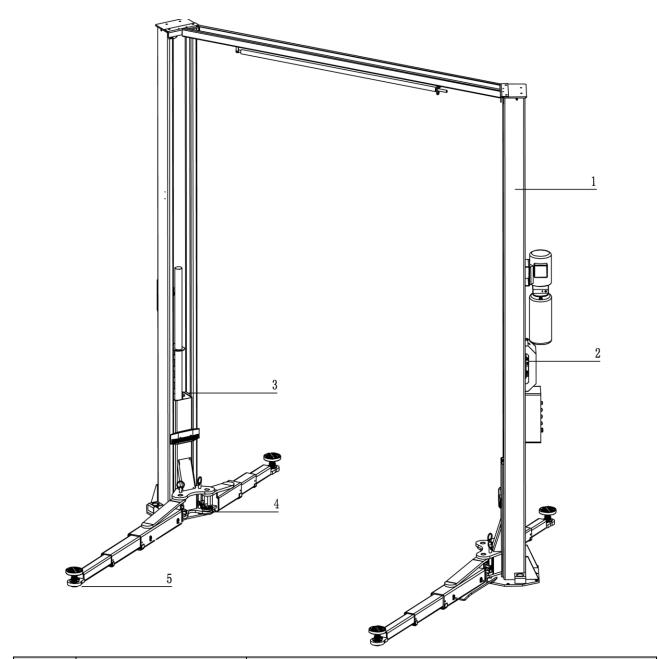
3.4 Dimensions







3.5 Safety devices descriptions



POS.	Name	Function
1	Max height limit switch	Stop rising at max height
2	Mechanical lock	Catch the carriages in case of hydraulic failure
3	Steel ropes	Ensure the synchronization for both carriages
4	Arm lock	Ensure the lifting arms are locked and avoid being swinging during lifting process
5	Rubber lifting pad	Rubber protects the wheel base from being damaged



INSTALLATION INSTRUCTIONS

4.1 Preparations before installation

4.1.1 Space requirements.

Refer to 3.4 for the dimensions of the lift. There must also be a clearance of at least 1 meter between the lifting platform and fixed elements (e.g. wall) in all lifting positions. There must be sufficient space for driving vehicles on and off.

4.1.2 Foundations and connections

The user must have the following work performed before erecting the lift.

- Construction of the foundation following consultation with the manufacturer's customer service or an authorized service agent. Routing of the wiring to the installation location. The user must provide fuse protection for the connection.
- Attention: electrical system connection must be done by licensed technicians. Requirements for power supply cable of the installation site: at least 2.5mm² wire core for 3Ph power and 4.0mm² wire core for 1Ph power.
- Refer also to the corresponding information in the operation instructions.

4.1.3 Foundations preparations (see Annex 1, floor plan)

C20/25 concrete base with strength more than 3000psi, tolerance of flatness less than 5mm and minimum thickness of 200mm.
In addition, newly built concrete ground must be older than 20days. If not specially noted, this lift is for indoor use only.

4.1.4 Tools and equipment needed for installation

Tool name	Specification	Quantity needed
Electrical drill	With D16 and D18 drill bit.	1
Open spanner	D17-19mm	2
Adjustable spanner	bigger than D30mm	1
Cross socket screw driver	PH2	1
Quick spanner handle adapter/ Ratchet	REB-310	1
Socket spanner	D24mm	1
Levelling device	1mm accuracy	1
Hammer	10 pounds	1
Truck lift	Capacity more than1000KG	1
Lifting string	Capacity, 1000KG	2
Torque spanner	MD400	1

4.2 Installation attentions

4.2.1 Joints of oil hose and wiring must be firmly connected in order to avoid leakage of oil hose and looseness of electrical wires.

4.2.2 All bolts should be firmly screwed up.

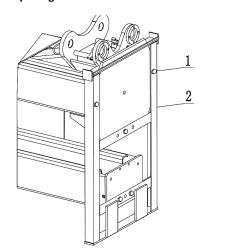
4.2.3 Do not place any vehicle on the lift in the case of trial running.



4.3 General Installation Steps

Step 1: Remove the packaging, take out the carton for accessories and cover plate.

Step 2: Firstly, put something supporting between the two posts or suspend one of the posts by a crane and then remove the bolts on the package.



1.Hex bolt 2.Iron rack

Attention : Please pay special attention not to let the post fall down for it may cause casualty or bring damages to the accessories fixed in the post.

Step 3: When the first post has been taken away, place something supporter under the second post and then remove the bolts on the package.

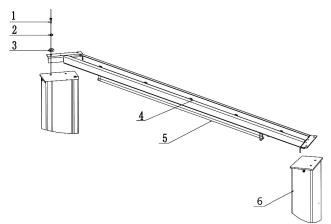
Step 4: Fix the standing position for the two posts. (See Annex 1, floor plan)

1. Unfold the package and decide on which post the power unit will be mounted.

2. Draw an outline of the base plate on the ground with chalk and ascertain the position for the post.

Step 5: Connect crossbeam.

Make the posts face to each other and the distance between the posts equals to the length of the overhead crossbeam. Fix the beam to the posts by screw M12×20.



Hex socket cylinder head screw M12*20
Spring washing M12
Flat washer M12
Overhead crossbeam
Vehicle roof protection rod
Post



Step 6: Erect and secure the post.

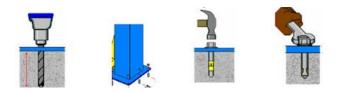
1. Use suitable means to raise the lifting carriage to the first latching position. All the mounting holes in the base plate are then accessible. Make sure the locking pawl is engaged.

2. Check the position of the base plates again.

3. Drill the mounting holes. Remove the drilling dust from the hole.

4. Use a spirit level to check the vertical alignment of the lifting posts. If necessary, place equalizing plates under the base plates. The equalizing plates must be of the same length as the side of the base plate resting on them. Otherwise the load of the base plate will not be transferred evenly to the foundation.

5. Erect and secure the other post similarly.



Step 7: Connect the synchronization steel ropes.

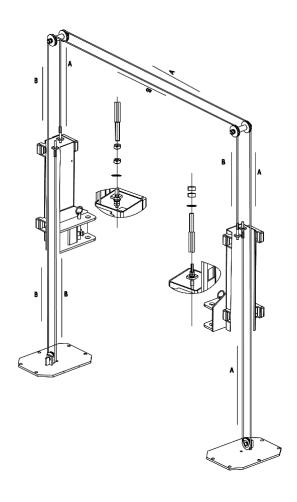
1. Route and fix according to the following diagram of steel rope connection.

2. Raise both carriages to the first locking point.

3. Make sure that the mechanical safety locks in each post are fully engaged before attempting to route ropes.

4. After being fixed, adjust and make the ropes at both sides be with the same tightness which could be judged by the sound emitted during lifting process. Make judge and adjustment after trial running.

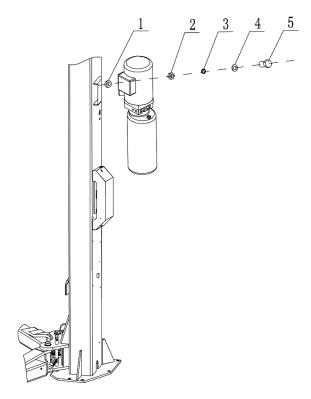
5. Grease after being fixed. (It is a must.)





Step 8: Connect oil hoses.

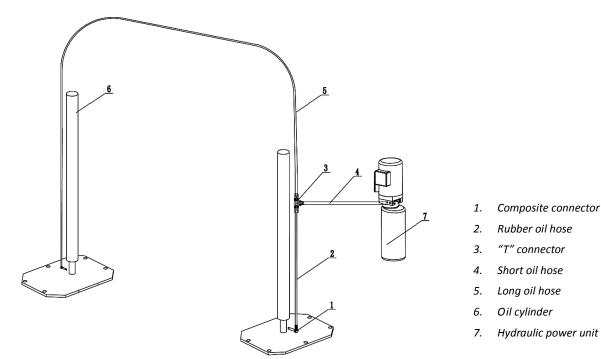
1. Install hydraulic power unit onto the main post.



- 1. Anti-vibration washer
- 2. Hex head nut M10
- 3. Spring washer M10
- 4. Flat washer M10
- 5. Hex head full swivel screw M10*35

2. Connect oil hoses (NO.4 and 5 in the below Fig.) to the "T" connector in the main post.

NOTE: make sure the connectors and hose are clean.

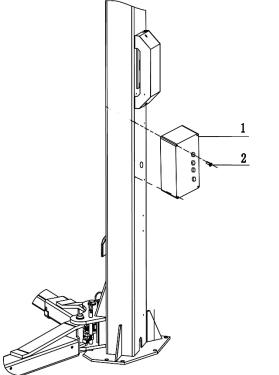




Step 9: Connect electrical system.

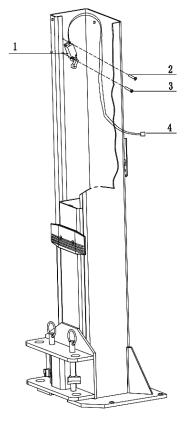
Refer to electrical connection diagram.

1. Fix the operation unit onto the main post.



- 1. Control box
- 2. Cross socket cap head screw M5*8

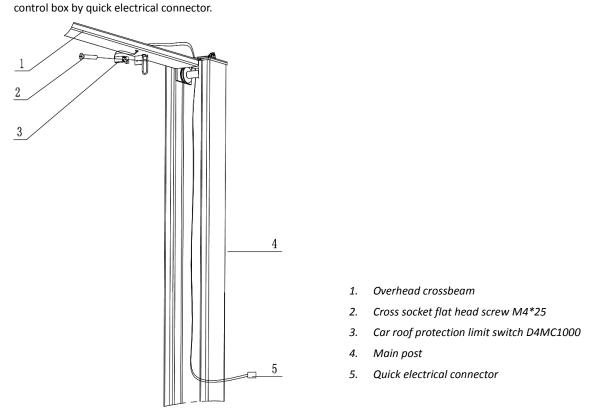
2. Fix max height limit switch onto the inside surface of the main post and connect its wire with the corresponding wire comes from the control box by quick electrical connector.



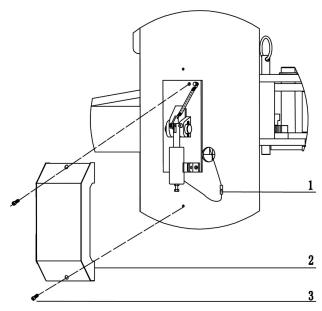
- 1. Max height limit switch TZ8108
- 2. Cross socket cap head screw M4*12
- 3. Cross socket cap head screw M4*25
- 4. Quick electrical connector



3. Fix car roof protection limit switch onto the overhead crossbeam and connect its wire with the corresponding wire comes from the



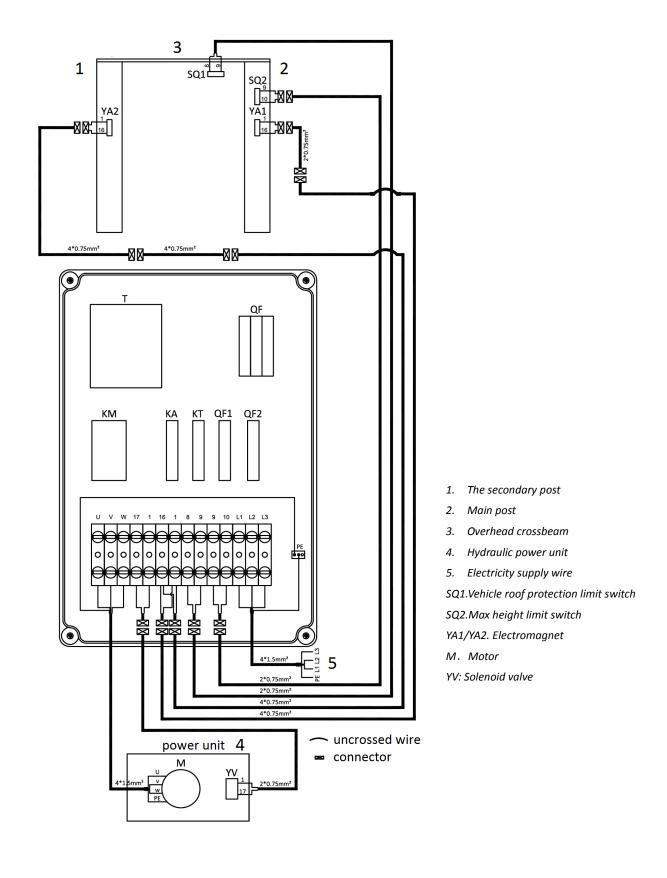
4. Connect wires of electromagnets. Dismantle its protection cover before making the connection.



- 1. Quick electrical connector
- 2. Protection cover
- 3. Hex socket cylinder head screw M6*8



5. Connect electrical wires referring to the following wire connection diagram. Check that the supply voltage is adapted to the voltage of the lift.



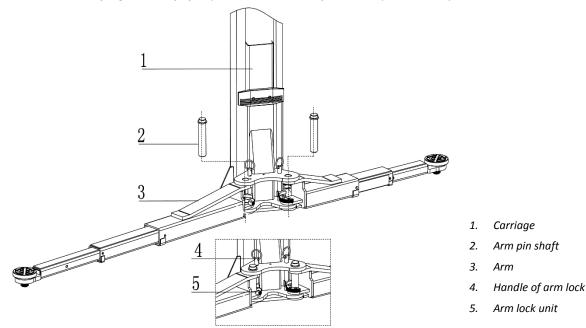


Step 10: Install lifting arms.

Connect the lifting arm and the carriage. The arm pin shafts (No. 2) must be greased at the installation

Install the lifting arms onto the carriages and ensure the arm lock could work.

Attention: Install Lifting arms and fix feet protection bars ONLY after the complete assembly has been erected and anchored.



Step 11: Fill with hydraulic oil.

CLEAN AND FRESH OIL ONLY. DON'T FILL THE TANK COMPLETELY FULL.

Lift must be fully lowered before changing or adding hydraulic oil.

It needs 13 liters of hydraulic oil. Fill about 10 liters into the oil tank to run the lift up and down for 2 or 3 times.

After running the lift for several cycles, add more oil if necessary to raise lift to full height.

Note: As running speed of the lift is mainly decided by the viscosity of the hydraulic oil, we suggest using NO.46 hydraulic oil when average temperature of the location is above 18 degree Celsius and using NO.32 hydraulic oil when temperature is below 18 degree Celsius. **Change the oil 6 month after initial use and change once per year thereafter.**

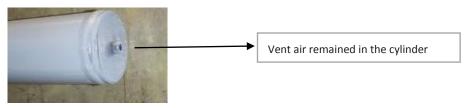
Step 12: Trial running.

Get familiar with lift controls by running the lift through a few cycles before loading vehicle on lift. This step is of particular importance for it can check if the oil hose is well connected. The connection is qualified when there is no abnormal sound or leakage after having been tested for 5-6 times.

If the lift doesn't raise, the motor may turn in the wrong direction. In such event, interchange wires U, V in the connection box.

Bleeding the hydraulic system

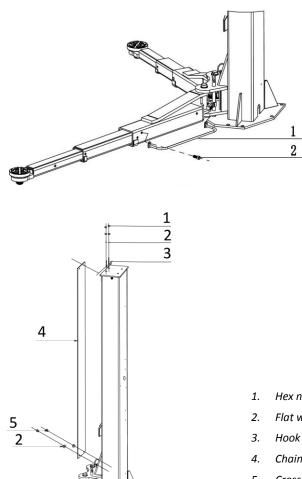
Unscrew but don't remove the nut on top of the oil cylinder and slightly press the UP button until oil gets out. Screw the nut tight thereafter.



After bleeding system, fluid level in power unit reservoir may be down. Add more fluid if necessary to raise lift to full height. It is only necessary to add fluid to raise lift to full height.



Step 13: Fix feet protection fenders, chain protection clothes, and lifting trays.



- 1. Feet protection fender
- 2. M10*15 Hex socket cylinder head screw M10*15

- Hex nut M6
- Flat washer M6
- Hook for chain protection cloth
- Chain protection cloth
- 5. Cross socket cap head screw M6*8

4.4 Items to be checked after installation

S/N	Check items	YES	NO
1	Are the posts vertical to the floor?		
2	Are the two posts paralleled?		
3	Are oil hoses well connected?		
4	Are steel ropes well connected?		
5	Are all lifting arms well fixed?		
6	Are electrical connections right?		
7	Are the rest joints firmly screwed?		
8	Are all items need lubricating added with grease?		



OPERATION INSTRUCTIONS

5.1 Precautions

5.1.1 Check all connections of oil hose. Only when there is no leakage, the lift can start work.

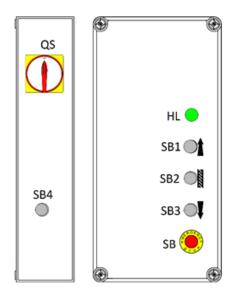
5.1.2 The lift, if its safety device malfunctions, shall not be used.

5.1.3 It shall not lift or lower an automobile if its center of gravity is not positioned midway of the runways. Otherwise, we as well as our dealers will not bear any responsibility for any consequence resulted thereby.

5.1.4 Operators and other personnel concerned should stand in a safety area during lifting and lowering process.

5.1.5 When the lift is raised to the desired height, switch off the power at once to lock the button with a padlock to prevent any wrong operation done by unconcerned people.

5.2 Operation instructions



POS.	Name	Function
QS	Main switch	Control main power
HL	Power indicator	Show if electricity is connected
SB1	UP button	Control the rising movement
SB2	LOCK button	Engage mechanical lock
SB3	DOWN button	Control the lowering movement
SB4	APS button	Control directing lowering movement

To avoid personal injury and/or property damage, permit only trained personnel to operate the lift. After reviewing these instructions, get familiar with lift controls by running the lift through a few cycles before loading vehicle on lift. Always lift the vehicle using all four adapters. Never raise just one end, one corner or one side of vehicle adapters.



Raise the lift

Make sure vehicle is neither front nor rear heavy and center of balance should be midway between adapters and centered over the lift.

1. Make sure that you have read and understood the operation manual before operation.

2. Park the vehicle between two posts.

3. Adjust the lifting arms until lifting trays are under the pick-up positions of the vehicle and make sure the gravity of vehicle located over the center of four lifting arms.

4. Turn on the Main power switch.

5. Push the "UP" button on the control box until lifting trays touched the pick-up positions of vehicle.

6. Keep on raising the vehicle to let it have a bit clearance off the ground and check again the stability.

7. Raise the vehicle to the excepted height, push the "Safety Lock" button to engage the mechanical safety lock. Check again the stability and then perform maintenance or repair work underneath.

Lower the lift

When lowering the lift pay careful attention that all personnel and objects are kept clear. Push APS button and DOWN button for direct lowering.

1. Push the "DOWN" button on the control box. Meanwhile the lifting arms automatically go upwards about 5CM which releases the safety lock. After that the lift starts descending.

2. When the lift is fully lowered, position the lift arms and adapters to provide an unobstructed exit before removing vehicle from lift area.



TROUBLE SHOOTING

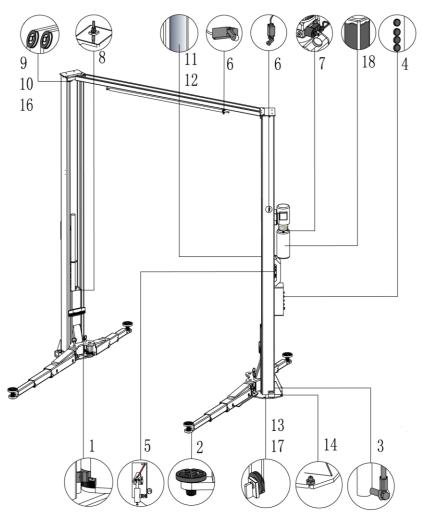
ATTENTION: If the trouble could not be fixed by yourself, please do not hesitate to contact us for help. We will offer our service at the earliest time we can. By the way, your troubles will be judged and solved much faster if you could provide us more details or pictures of the trouble.

TROUBLES	CAUSE	SOLUTION
Abuseumalusaisa	Abrasion exists on insider surface of the posts.	Grease the inside of the post.
Abnormal noise	Trash in the post.	Clear the trash
	The wire connection is loose.	Check and make a good connection.
Motor does not run and will	The motor is blown.	Replace it.
not rise	The limit switch is damaged or the wire connection is loose.	Connect it or adjust or replace the limit switch.
	The motor run reversely.	Check the wire connection.
	Overflow valve is loose or jammed.	Clean or adjust it.
Motor runs but will not raise	The gear pump is damaged.	Replace it.
wotor runs but will not raise	Oil level is too low.	Add oil.
	The oil hose became loose or dropped off.	Tighten it.
	The cushion valve became loose or jammed.	Clean or adjusts it.
	The oil hose leaks.	Check or replace it.
	The oil cylinder is not tightened.	Replace the seal.
Carriages go down slowly after	The single valve leaks.	Clean or replace it.
being raised	The overflow valve leaks.	Clean or replace it.
	Manual unloading valve or electrical unloading valve leaks.	Clean or replace it.
	The oil filter is jammed.	Clean or replace it.
	Oil level is too low.	Add oil.
Raising too slow	The overflow valve is not adjusted to the right position.	Adjust it.
	The hydraulic oil is too hot (above 45°).	Change the oil.
	The seal of the cylinder is abraded.	Replace the seal.
	Inside surface of the posts is not well greased.	Add grease.
	The throttle valve jammed.	Clean or replace.
Lowering too slow	The hydraulic oil is dirty.	Change the oil.
Lowering too slow	The anti-surge valve jammed.	Clean it.
	The oil hose jammed.	Replace it.
The steel rope is abraded	No grease when installation or out of lifetime	Replace it.



MAINTENANCE

Easy and low cost routine maintenance can ensure the lift work normally and safely. Following are requirements for routine maintenance. Frequency of routine maintenance is determined by working condition and frequency.



S/N	Components	Methods	Period
1	Swing arm locking units	Push the UP button to raise the lifting arms and check if four swing arms are locked into position. Add grease in case necessary.	Every day
2	Rubber contact pads	Inspect the pads and clean off any objects that may cause sliding or damage	Every day
3	Cylinder and oil hose connectors	Inspect to ensure no leakage before using the lift.	Every day
4	Control buttons	Check if control buttons work as "hold- to -run " and check if they work as the function indicated.	Every day
5	Mechanical safety catch	Check if both mechanical catches can engage and disengage simultaneously by pushing control buttons.	Every day
6	Limit switches	Push the UP button and inspect and to ensure the lifting platform stops rising when the switch is activated.	Every day
7	Unloading valve	Inspect if the valve leaks or not. Clean or change the valve if it leaks.	Every day



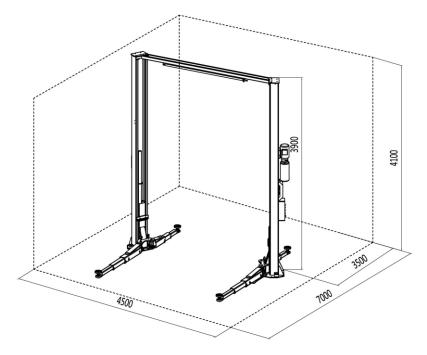
S/N	Components	Methods	Period
8	Stool ropo	Check the synchronization of both carriages and adjust the tightness	Every day
ŏ	Steel rope	of the rope if desynchronization is unacceptable.	Every day
9	Bushing of the upside pulley	Lubricate the bushing with NO.1 lithium based grease.	Every 3 months
9	and circlip of the shaft	Check if the circlip is in its original position.	Every 5 months
		Lubricate the rope with NO.1 lithium based grease.	
10	Steel rope	Change with new steel ropes every 3 years or ten single wires have broken.	Every 3 months
11	Running track inside the	Lubricate path with NO.1 lithium based grease.	Even 2 menths
11	post for carriages	No obstruction on the path.	Every 3 months
		Lubricate the chain with NO.1 lithium based grease.	
12	Chain and its pins (optional)	Change the chains every 3 years or if any cracks occurred to the pin	Every 3 months
		of the chain.	
	Bushing of the downside	Lubricate the bushing with NO.1 lithium based grease.	
13	pulley and circlip of the	Check if the circlip is in its original position.	Every 3 months
	shaft		
14	Expansion bolts	Check with torque spanner. For M18 bolt ,the torque is no less than	Every 3 months
		80N.m / For M16, the torque is no less than 60N.m	
	Whole Lift	Running the lift for several cycles with and without rated load. The	Every 3 months
		lift can run steadily and smoothly with no abnormal noise.	
	Bushing of the upside pulley	Slacken the steel ropes and dismantle the bushing. Measure the	
16	and circlip of the shaft	abrasive clearance and change the bushing if the clearance is bigger	Every year
		than 0.5mm.	
	Bushing of the downside	Slacken the steel ropes and dismantle the bushing. Measure the	
17	pulley and circlip of the	abrasive clearance and change the bushing if the clearance is bigger	Every year
	shaft	than 0.5mm.	
		Change the oil 6 months after initial use and once per year	
18	Hydraulic oil	thereafter. Inspect the hydraulic oil and change the oil if the oil	Every year
		becomes black or there is dirt in the oil tank.	

If users strictly follow the above maintenance requirements, the lift will keep in a good working condition and meanwhile accidents could be avoided to a large extent.

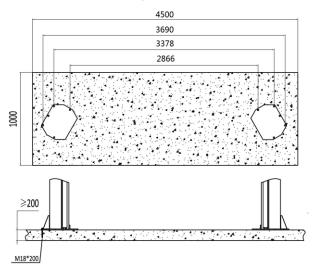


Annex 1, Floor plan

C20/25 concrete base with strength more than 3000psi, tolerance of flatness less than 5mm and minimum thickness of 200mm. In addition, newly built concrete ground must be older than 20days. If not specially noted, this lift is for indoor use only.



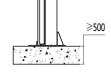
Continuous footing



Individual footing

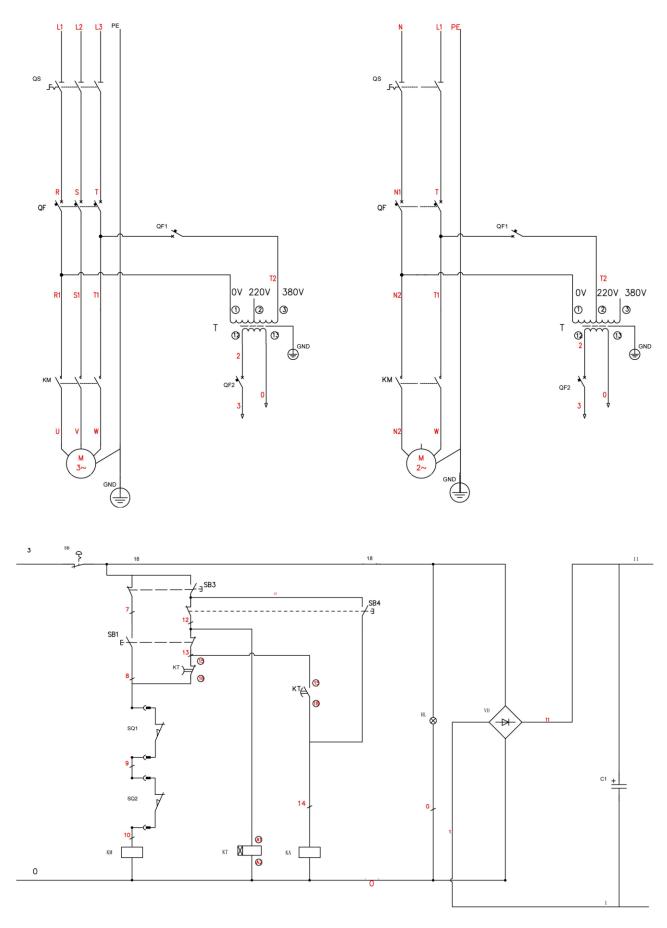


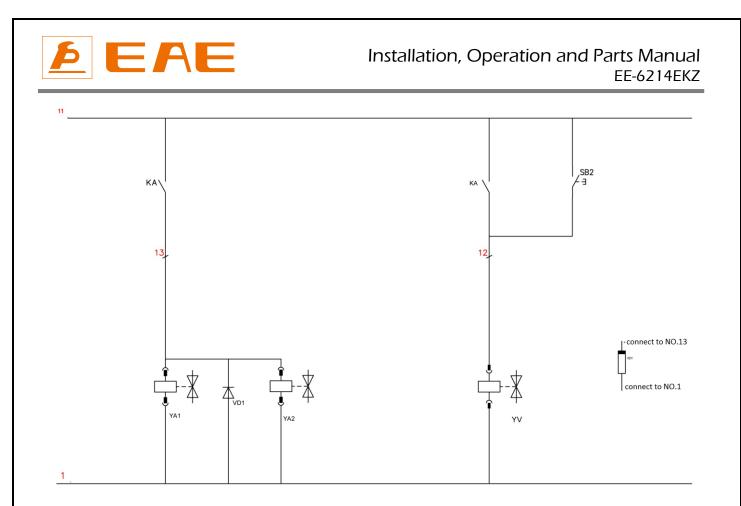


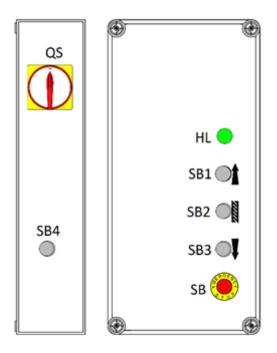




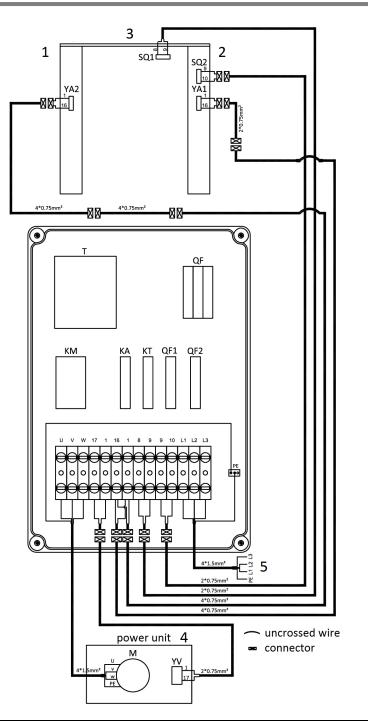
Annex 2, Electrical schemes and parts list









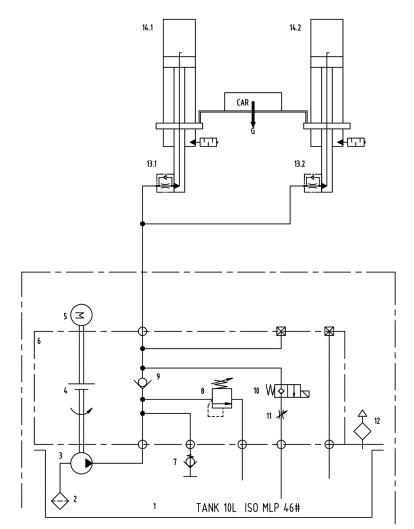


POS.	Code	Name	Specification	Qty
Т	320101035	Transformer	JBK3(JBK5)-100VA 380V-24V	1
	320101036	Transformer	JBK3(JBK5)-100VA 400V-24V	
SQ1	320301002	Limit switch	D4MC-1000	1
SQ2	320301011	Limit switch	TZ8108	1
QS	320304001	Power switch	LW26GS-20/04	1
SB1-SB4	320401013	Button	AR22F0R-11-W	4
SB	320402002	Emergency stop	XB2BS542C	1
KA	320601026	Integrated relay	NCH8-20/20 AC24V	1
КТ	320602009	Integrated time relay	ZYS11-A(AC24, 5S	1

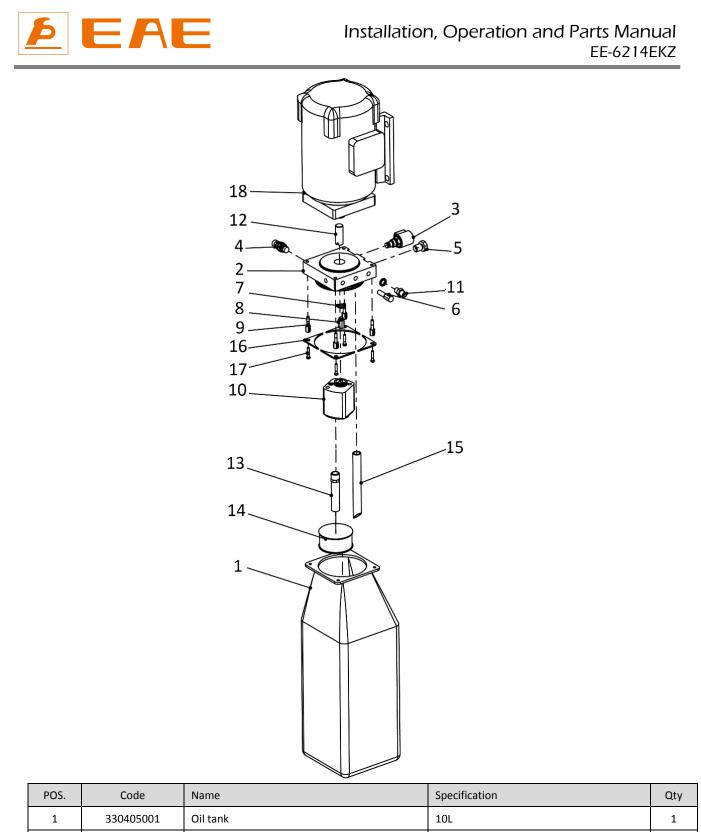


POS.	Code	Name	Specification	Qty
QF	320801001	Circuit breaker-3Ph	DZ47-63C16/3P	1
QF1	320803003	Circuit breaker	DZ47-63C3/1P	1
QF2	320803005	Circuit breaker	DZ47-63C6/1P	1
КМ	320901011	AC contactor	CJX2-1810/AC24V	1
С	321001004	Capacitor	4700UF/50V	1
VD	321002001	Bridge rectifier	КВРС5А-35А	1
HL	321201001	Power indicator	AD17-22G-AC24	1
YA1-YA2	410044350B	Electromagnet	6254E.V3-A14	2

Annex 3, Hydraulic schemes and parts list



- 1.oil tank
- 2.oil filter
- 3.gear pump
- 4.coupling
- 5.aluminium motor
- 6.hydraulic block
- 7.cushion valve
- 8.overflow valve
- 9.single way valve
- 10.solenoid unloading valve
- 11.flow control valve
- 12.tank cover
- 13.composite connector
- 14.oil cylinder

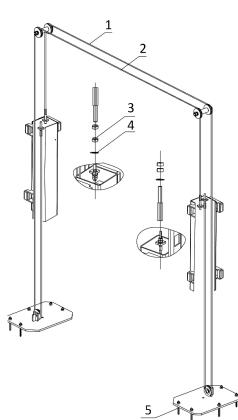


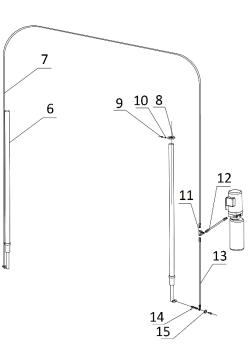
POS.	Code	Name	Specification	Qty
1	330405001	Oil tank	10L	1
2	330101063B	Hydraulic block	YF-2D	1
3	330308006	Solenoid unloading valve	DHF06-220H/DC24	1
4	330304001	Overflow valve	EYF-C	1
5	330302001	Single way valve	DYF-C	1
6	330305002	Throttle valve	TC-VF	1
7	207103019	Composite washer	M14	2
8	330301001	Cushion valve	HZYF-C1	1
9	202109064	Screw for oil tank installation	M6*30	4



POS.	Code	Name	Specification	Qty
10	330201007	Gear pump (for 3Ph motor)	СВК-F233	1
10	330201006	Gear pump (for 1Ph motor)	CBK-F225/CBK-2.5F	1
11	310101028	Shift connector	G1/4,M14x1.5	1
12	330404001	Coupling	YL-A	1
13	330401005	Oil sucking tube	XYGN-L293	1
14	330403001	Oil filter	YG-C	1
15	330402001	Oil back pipe	YH-D	1
16	410010091	Tank reinforced plate	6254E-A4-B12	4
17	201103001	Hex flange screw	M5*25	4
18	320204016	Aluminum motor	380V-3.0KW -3PH-50HZ-2P	1
18	320204017	Aluminum motor	400V-3.0KW-3PH-50HZ-2P	1

Annex 4, Mechanical exploded drawings and parts list

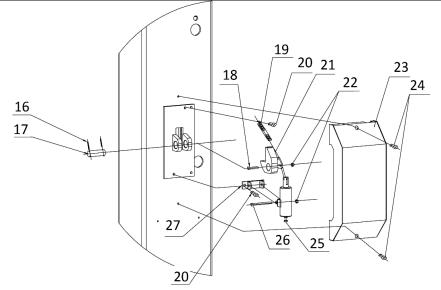




POS.	Code	Name	Specification	Qty
1	615015004B	Steel rope	6214EKZ.V2-A7 L=10950mm	1
2	615015005B	Steel rope	6214EKZ.V2-A8 L=11100mm	1
3	203101009	Hex nut M16	M16	8
4	204101009	Class C flat washer M16	M16	4
5	201201008	Expansion bolt M18*200	M18*160	10
6	615017013	Oil cylinder	6264-A24	2
7	624002025B	Oil hose	Ф8, L=8625mm	1

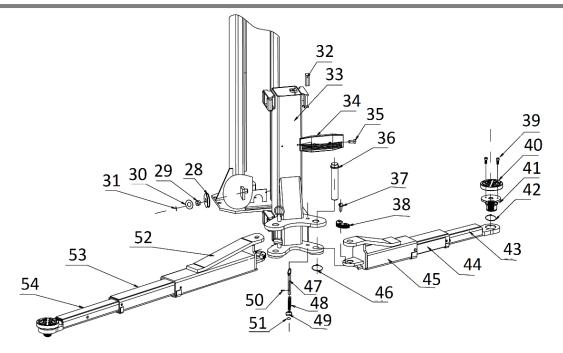


POS.	Code	Name	Specification	Qty
8	410170101B	Cylinder fixation ring	6264-A24-B1	2
9	202109024	Hex socket cylinder head screw	M6*35	2
10	203101004	Hex nut M6	M6	2
11	615006003	Oil hose	6214E-A4-B4	2
12	624001814	Oil hose	Φ8,L=300mm	1
13	624002004B	Oil hose	L=2265	1
14	615015003	Composite connector	6255E-A7-B7	2
15	207103025	Composite washer	13.7*20*1.5	4



POS.	Code	Name	Specification	Qty
16	206201004	Cotter pin	3*45	4
17	410044340	Safety shaft	62B-A1-B6	2
18	202109024	Hex socket cylinder head screw	M6*35	2
19	410047530B	Pull spring	62B-A10-B9-M	2
20	202109027	Hex socket cylinder head screw	M8*12	10
21	614004806	Safety hook assembly	V3-A1-B4	2
22	203103005	Hex locking nut M6	M6	4
23	614035034	Safety lock protective cover	6215EKZ.V2-A13	2
24	202109017	Hex socket cylinder head screw M6*8	M6*8	4
25	410044350B	Electromagnet	6254E.V3-A14	2
26	202109132	Hex socket cylinder head screw	M6*65	2
27	614004809B	Fixation holder of electromagnet	62B-A1-B6-E	2

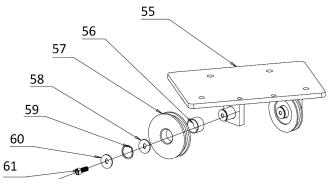




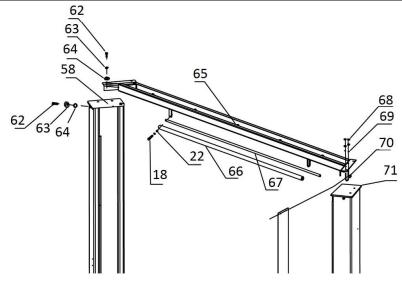
POS.	Code	Name	Specification	Qty
28	410010021B	Down pulley	6254A-A1-B1 Φ88 L=16	2
29	205101007	Bearing 2512	SF-1,2512	2
30	410010031	Washer	6254E-A1-B3	4
31	206201004	Cotter pin	3*45	2
32	420010010	Slider	6254E-A2-B5	8
33	614035030B	Carriage	6215EKZ.V2-A3-B1	2
34	420010020B	Protection rubber pad	6254E-A2-B6	2
35	202103021	Cross socket flat head screw M8*16	M8*16	4
36	612015005	Arm shaft assembly	6255E-A13	4
37	202109085	Hex socket cylinder head screw	M12*30	12
38	410150901	Teeth wheel (half)	6215-A4-B3 (6254E-A7-B6)	4
39	202111007	Hex socket flat head screw M8*20	M8*20	8
40	420040050B	Round lifting pad	6254E-A7-B4-C4	4
41	615004003D	Lifting tray	6254E-A7-B4	4
42	204301008	Circlip φ22	Туре В,22	4
43	614035024	Short third stage arm	6214EKZ.V2-A4-B3	2
44	614035023B	Short second stage arm	6214EKZ.V2-A4-B2	2
45	614035022C	Short first stage arm	6214EKZ.V2-A4-B1	2
46	204301013	Circlip	M38	4
47	612013004C	Pulling rod assembly (left)	6255E-A3-B4	2
47	612015006C	Pulling rod assembly (right)	6255E-A3-B4	2
48	410150121	Pressure spring	6254E-A2-B4	4
49	410150891	Teeth block	6254E-A2-B3(6215-A3-B3)	4
50	206102008	Elastic post pin	5*50	4



POS.	Code	Name	Specification	Qty
51	204301008	Circlip φ22	Type B,22	4
52	614035025C	First stage long arm	6214EKZ.V2-A5-B1	2
53	614035026B	Second stage long arm	6214EKZ.V2-A5-B2	2
54	614035027	Third stage long arm	6214EKZ.V2-A5-B3	2



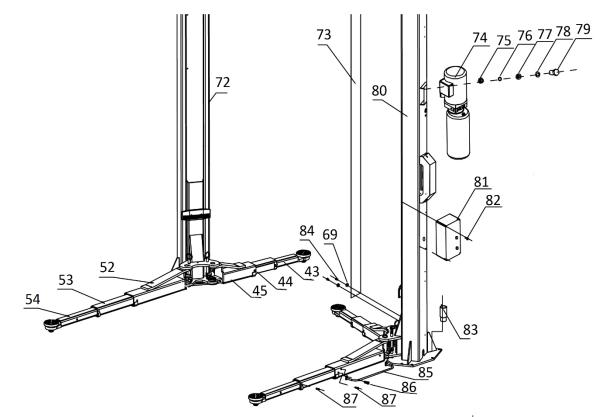
POS.	Code	Name	Specification	Qty
55	614035004	Top plate	6214EKZ-A2-B2-C1	1
56	205101008	Bearing 2518	SF-1,2518	4
57	410010061	Up pulley	6254E-A5-B1	4
58	410010031	Washer	6254E-A1-B3	4
59	204301009	Type B circlip φ25	Туре В, ф25	4
60	204104001	Large washer	M40*8*2.5	4
61	202110005	Hex socket button head screw M8*20	M8*20	4



POS.	Code	Name	Specification	Qty
62	202109093	Hex socket cylinder head screw	M12*30	8
63	201102027	Flat washer	M12	8
64	204201006	Spring washer M12	M12	8
65	614035031	Crossbeam	6215EKZ.V2-A6-B1	1
66	420060010	Black foam tube	0	1



POS.	Code	Name	Specification	Qty
67	410060013	Long rod	6214E-A21-B5	1
68	203101004	Hex nut M6	M6	8
69	204101004	Class C flat washer M6	M6	4
70	410010051	Pulling rod of chain protection cloth	6254E-A1-B5	4
71	614035002	Top plate	6214EKZ-A1-B2-C1	1



POS.	Code	Name	Specification	Qty
72	614035021	Secondary post	6214EKZ.V2-A2-B1	1
73	615006001	Chain protection cloth	6214E-A1-B3(6214A-A1-B3(3743*140MM)	2
74		Hydraulic power unit	2.2kW	1
75	203101006	Hex nut M10	M10	4
76	204201005	Spring washer M10	M10	4
77	420040010	Anti-shock pad	6254E-A23	4
78	204101006	Class C flat washer M10	M10	4
79	201103004	Hex head full swivel screw M10*35	M10*35	4
80	614035020	Main post	6214EKZ.V2-A1-B1	1
81	321204002	Control box	460*260*135	1
82	202101020	Cross socket cap head screw	M5*8	4
83	612004003B	Height adapter	6254E-A11 L=130MM	4
84	202101027	Cross socket cap head screw M6*8	M6*8	4
85	614035038	Feet protection fender (left)	6215EKZ.V2-A14-B1-1	2



POS.	Code	Name	Specification	Qty
85	614035039	Feet protection fender (right)	6215EKZ.V2-A14-B1-2	
86	202110004	Hex socket cylinder head screw M8*12	M8*12	4
87	202109040	Hex head full swivel screw M10*15	M10*15	8

Seal rings for oil cylinders

POS.	Code	Name	Specification	Qty
1	207103002	Y seal ring	B7-50*35*9	1
2	207105004	Dust proof ring	DHS38 (38*46*6)	1
3	207106018	Anti-abrasion ring	50X46X15	1
4	207106019	Anti-abrasion ring	38X42X15	1