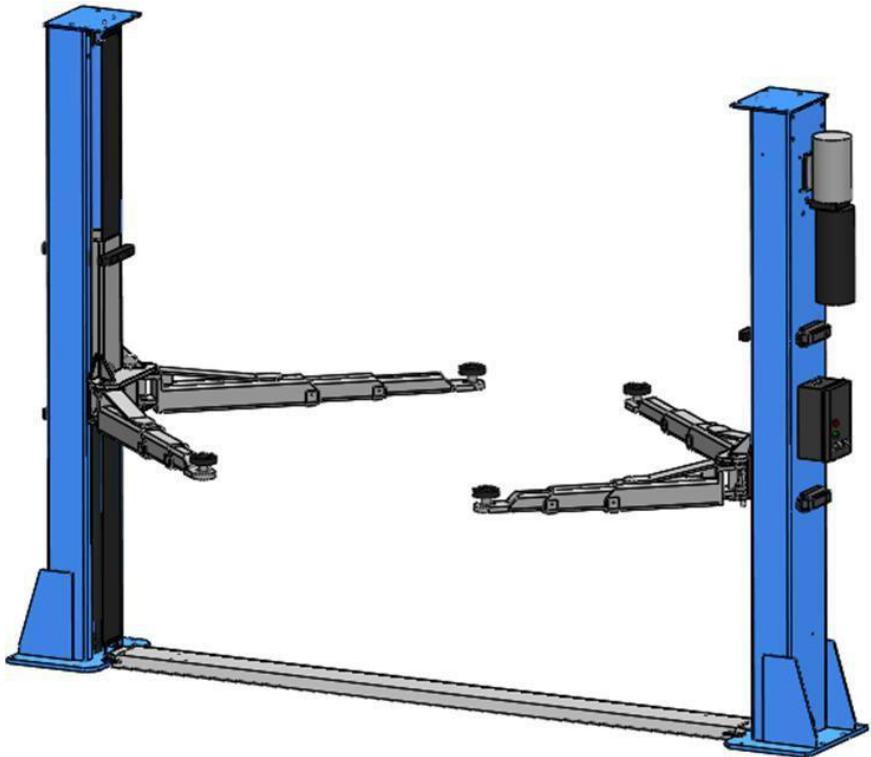




# 5000KG TWO COLUMN LIFT BRIDGE OPERATION MANUAL

**VL50F400**



## 1. Symbolen label

### 1. Symbols label



**NLD** Klim nooit op de brug of het voertuig.

**ENG** Never climb on the bridge or vehicle.



**NLD** Het is ten strengste verboden om veiligheidsinstellingen te wijzigen of aanpassingen te maken aan de hefbrug.

**ENG** It is strictly forbidden to change safety settings or make adjustments to the lift bridge.



**NLD** Kom niet onder de hefbrug als deze in werking is.

**ENG** Do not get under the lift when it is in operation.



**NLD** Pas op! Hoog voltage, elektrocutiegevaar.

**ENG** Caution! High voltage, danger of electrocution.



**NLD** Pas op! Klemgevaar voor handen

**ENG** Caution! Clamping hazard for hands



**NLD** Pas op! Houd uw voeten op afstand tijdens het zakken vanwege het gevaar van pletten.

**ENG** Caution! Keep your feet away during lowering due to the danger of crushing.



**NLD** Pas op! Houd bij het plaatsen van de hefbrug rekening met de maximale hefhoogte inclusief auto en de plafondhoogte.

**ENG** Caution! When positioning the lift bridge, take into account the maximum lifting height including car and ceiling height.



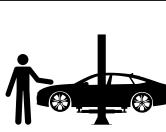
**NLD** Plaats het zwaartepunt van het voertuig altijd tussen de kolommen.

**ENG** Always place the centre of gravity of the vehicle between the columns.



**NLD** Overschrijd nooit de maximale capaciteit van de hefbrug.

**ENG** Never exceed the maximum capacity of the lift bridge.



**NLD** Hef het voertuig ongeveer 30 cm en controleer de stabiliteit.

**ENG** Lift the vehicle about 30 cm and check stability.



**NLD** Vermijd overmatige beweging van voertuigen in geheven positie.

**ENG** Avoid excessive movement of vehicles in raised position.



**NLD** Houd vluchtroutes vrij zodat het werkgebied in geval van noodsituaties veilig verlaten kan worden.

**ENG** Keep escape routes clear so that the work area can be safely left in case of emergencies.



**NLD** Zorg ervoor dat er geen objecten onder het voertuig staan voordat het zakt.

**ENG** Make sure there are no objects under the vehicle before it lowers.



**NLD** Probeer nooit het voertuig slechts aan één kant op te heffen.

**ENG** Never try to lift the vehicle only on one side.

# **Index**

|  |    |
|--|----|
| Packaging, transport and storage       |    |
| Packaging                              |    |
| Lifting and handling                   |    |
| Storage                                |    |
| Stacking                               |    |
| Delivery and control of packages       |    |
| Warning                                |    |
| The safety of elevators                |    |
| Preservation of the Laws manual        |    |
| 1. Product description                 | 7  |
| 2. Use                                 | 7  |
| 3. Technical specification             | 7  |
| 4. Working conditions:                 | 8  |
| 5. Basic structure of the product      | 9  |
| 6. Installation of the safety devices  | 9  |
| 7. Installation and adjustment of the  | 10 |
| 8. use and operate                     | 13 |
| 9. Maintenance and care                | 15 |
| 10. Troubleshooting                    | 16 |
| 11. Important information for the user | 16 |
| 12. Important items                    | 17 |
| 13. Noise statement:                   | 17 |
| 14. Exploded plan:                     | 18 |
| 15. Sloop                              | 24 |
| 16. Guarantee                          | 25 |
| 17. EC Declaration                     | 26 |

All packing, lifting, handling, transporting and unpacking operations must be carried out only by qualified personnel with knowledge of the lift and the contents of this manual.

## Packaging

The 2-column lift is shipped disassembled in the following parts:

two columns, carriage, hydraulic cylinders, 2 long arms, 2 short arms, floor hose cover, etc.

## Lifting and handling

The packaging boxes can be lifted and moved with a forklift (Fig.1). If one of the latter two is used, the boxes must be secured with at least 2 slings

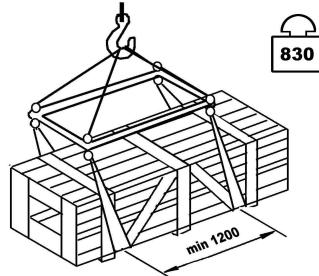
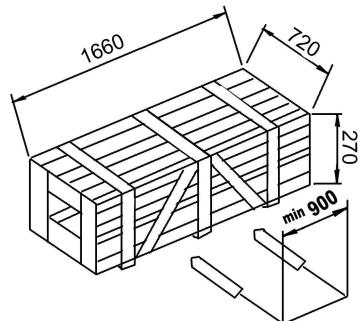


Fig.1 Fig.2

## Storage

Pack boxes should always be stored in a covered, protected place at a temperature between  $-10^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ . And should not be exposed to direct sunlight and should not be caught in the rain.

## Stacking

The packaging type offers the possibility to stack up to 3 crates.

A maximum of 3 crates may be stacked on top of each other on trucks or in containers if they are positioned and provided they are secured to prevent falling.

## Delivery and control of packages Check upon delivery

the lift for possible damage due to transport and storage. In case of transport damage, the customer must immediately inform the carrier of the problem.

Packaging must be opened taking care not to cause damage to persons (maintain a safe distance when opening straps) and parts of the lift (make sure that objects do not fall out of the packaging when opening).

Please check that all contents correspond to what was agreed upon when ordering. If an abnormality is found, do not proceed with installation and contact the authorized dealer immediately.



## **INTRODUCTION WARNING**

This manual is intended for workshop personnel expert in the use of the lift (operator) and technicians responsible for routine maintenance (maintenance engineer): read the manual before carrying out any operation with the lift and/or its packaging. This manual contains important information regarding:  
**THE PERSONAL SAFETY OF** servers and maintenance staff

## **THE SAFETY OF LIFTED VEHICLES**

### **Save the manual**

The manual is an integral part of the lift and must always be included, even if the device is sold. The manual should be kept near the lift in an easily accessible place so that the operator and maintenance personnel can quickly find and refer to the manual at all times.

### **CAREFULLY AND REPEATED READING OF CHAPTER 3, WHICH CONTAINS IMPORTANT INFORMATION AND SAFETY WARNINGS, IS HIGHLY RECOMMENDED.**

Lift rack is designed and constructed in accordance with the following:

### **Laws**

**Machine guidelines: EN 1493:2010 Lift bridge**

**EN 60204-1:2006/AC:2010 Safety of machinery - Electrical equipment of machines - Part 1: General requirements**

The hoisting, transporting, unpacking, assembly, installation, start-up, initial adjustment and testing, the work relating to EXTRAORDINARY maintenance, repair, overhaul, transport and dismantling of the lift must be carried out by specialized personnel of the EXPERIENCED DEALER or an authorized the manufacturer authorized SEVICE CENTER (see authorized dealer on frontispiece).

The manufacturer declines all responsibility for personal injury or damage to vehicles or property if any of the above actions are performed by unauthorized personnel or if the rack is misused.

This manual only indicates the operational and safety aspects that may be useful for the operator and maintenance work to better understand the structure and operation of the lift and for optimal use of the lift.

To understand the terminology used in this manual, the operator must have specific experience with workshop, service, maintenance and repair work, be able to correctly interpret the drawings and descriptions in the manual and be familiar with the general and specific safety rules relevant for the country in which the machine is installed.

The same applies to the maintenance technician, who must also have specific and

specialized knowledge (mechanics, engineering) required to carry out the actions described in the manual in complete safety.

The words "operator" and "service technician" used in this manual shall be interpreted as follows:

**OPERATOR:** person authorized to use the lift.

**MAINTENANCE:** person responsible for routine maintenance of the lift.

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

Loose clothing should not be used. Protective cap is also used for long-haired people, etc.

Lubricate the machine regularly according to the manual.

## 1. Product description

The lift is designed for maintenance, tire change or repair of light vehicles and trucks. Its special features include a lifting capacity of **5000 kg**; a hydraulic pulling system with a hydraulic control activator that provides force; power supplied by oil cylinders installed in the columns; a chain system connected to a sliding unit via the columns, allowing the sliding unit to move freely and the lift to reach relatively high; synchronized pulling force of steel cable and movement of sliding unit; an electric safety interlock system that retracts the lift when activated; one-way and two 2-pass changeover valves in the hydraulic system; and a hydraulic cylinder that positions and locks itself freely. The tray goes as low as **105 mm** for convenience in lifting and repairing luxury vehicles.

Any other use of the lift is not permitted, was not considered during the design phase and may compromise the safety of the machine.

All structurally important components such as columns, extensions, base frames and arms are built in steel plate to make the frame rigid and strong while keeping weight low.

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

## 2. Use

Lift is not designed to lift persons and it is not designed to allow persons to stand under the vehicle during lifting and lowering.

Do not overload the elevator. The maximum permitted lift weight is agreed as the maximum total weight that can be loaded onto the lift, so it does not just refer to the simple empty mass of the vehicle.

## 3. Working conditions:

The machine should be used in below condition.

- A. The air temperature limit must be between 0°C-40°C lie.
- B. Humidity: ≤80% at 30°C
- c. Transport and storage temperature: -25°C ~ +55°C
- d. Altitude above sea level: ≤1000m.

5000kg

Express that the rated load is 5000kg, do not let the lifting load exceed 5000kg



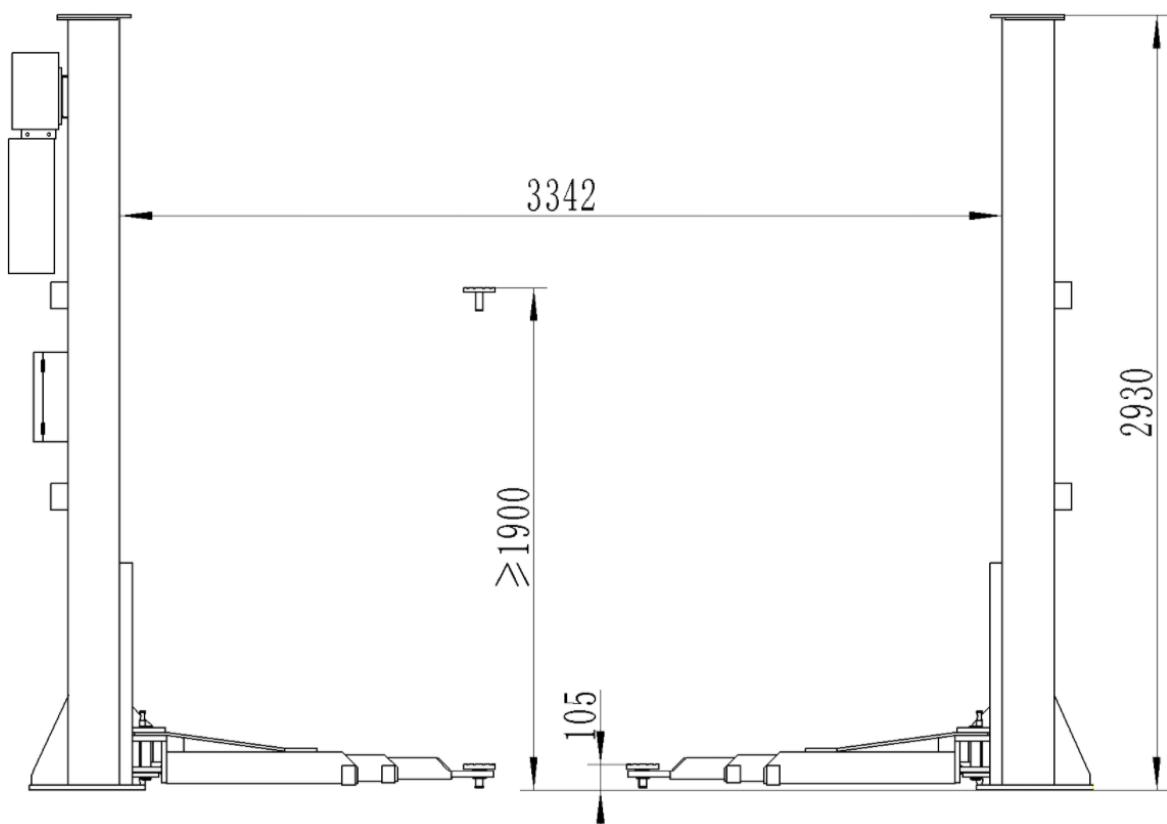
This symbol indicates that attention should be paid to electrical hazards.

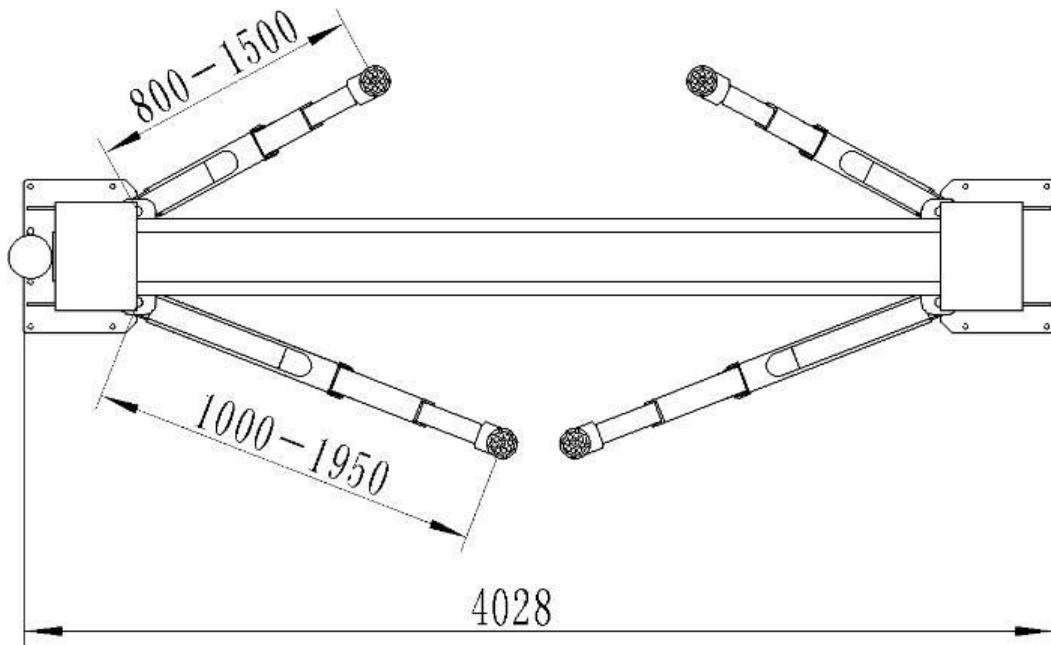
This symbol indicates the earth connection point.



#### 4. Technical specification

|                               |  |
|-------------------------------|--|
| Model                         | VL50F400   |
| Capacity                      | 5000kg   |
| Machine weight                | 1000kg   |
| Max. lifting height           | 1900mm   |
| Min. lifting height           | 105mm  |
| Total height                  | 2930mm   |
| Total width                   | 4028mm   |
| Lifting time                  | 45-50s   |
| Conventional power connection | 3 / N / PE ~ 400V, Hz<br>50/1/ N / PE ~ 230 V, 50 Hz |
| whole machine power           | 2.2kw  |
| guys                          | <70dB  |





## 5. Basic Construction of the product

The elevator is composed of two columns: each is anchored to the ground by means of column base plates. This model is equipped with a top hose cover, which is used to protect routed pipes between columns.

## Installation of the safety devices

### 6.1 Safety stop mechanism

There is an electrical safety stop function in each of the main and support columns. It consists of electromagnetic steel, a locking plate, a lubricated safety plate for the lifting collar and support blocks on each column. (See Figure 7)

### 6.2 Basics of motion stop

The locking plate depends on the weight and angle of each of the end faces, with the entire top face attaching to the mounting plate. When the collar rises, the angled mounting plate pushes the locking plate open to establish a specific height. If the collar becomes stuck during use, or if the rate of descent creates unsafe conditions, the locking plate block fits into the opening in the mounting plate, preventing the lift from further descent and activating the safety mechanism (see Figure 7).

### 6.3 Adjustment of the safety mechanism

**6.3.1** Adjustment of the magnetized screw cap of the axle core moves the locking plate from its natural position to insert into the mounting plate groove (when the load is empty, ensure that the block is in the base of the mounting plate groove). When the lubricated stand rises, you can clearly hear a clicking sound in the two columns.

**6.3.2** When the magnetized steel is pulled, check that the two mounting plates are completely separated. Make sure that the main and support columns separate at the same time, otherwise this can be very unsafe.

## **7. Installation and adjustment of the equipment**

**7.1** Only trained technicians, appointed by authorized dealers, are authorized to carry out the installation. Serious damage to people and to the elevator can be caused if installations are carried out by untrained personnel.

**7.2** The installation site must have a three-phase power supply of 380 V and 50 Hz and reliable ground wires. T

**7.3** The incoming line must be equipped with a 20A safety installation and a power switch. The minimum wire cross-section is 2.5 square millimeters.

**7.4** The foundation of the elevator has the following requirements: the concrete must not be lower than 250 degrees; the area of the foundation must be 3645 mm long x 800 mm wide x > 250 mm thick. (see Figure 8) Lighting must be carried out in accordance with the applicable regulations of the installation location.

All areas next to the elevator must be well and evenly lit.

### **TOOLS NEEDED :**

In addition to the usual workshop equipment, the following tools are required:

#### **7.5- Installation area**

The floor on which the machine is to be installed must be made of non-split concrete, leveled, with a thickness of at least 200 mm, constructed with a resistance class of at least C25/30, allowing the lift to be secured to the ground with using the anchors M16 or higher supplied with the machine.

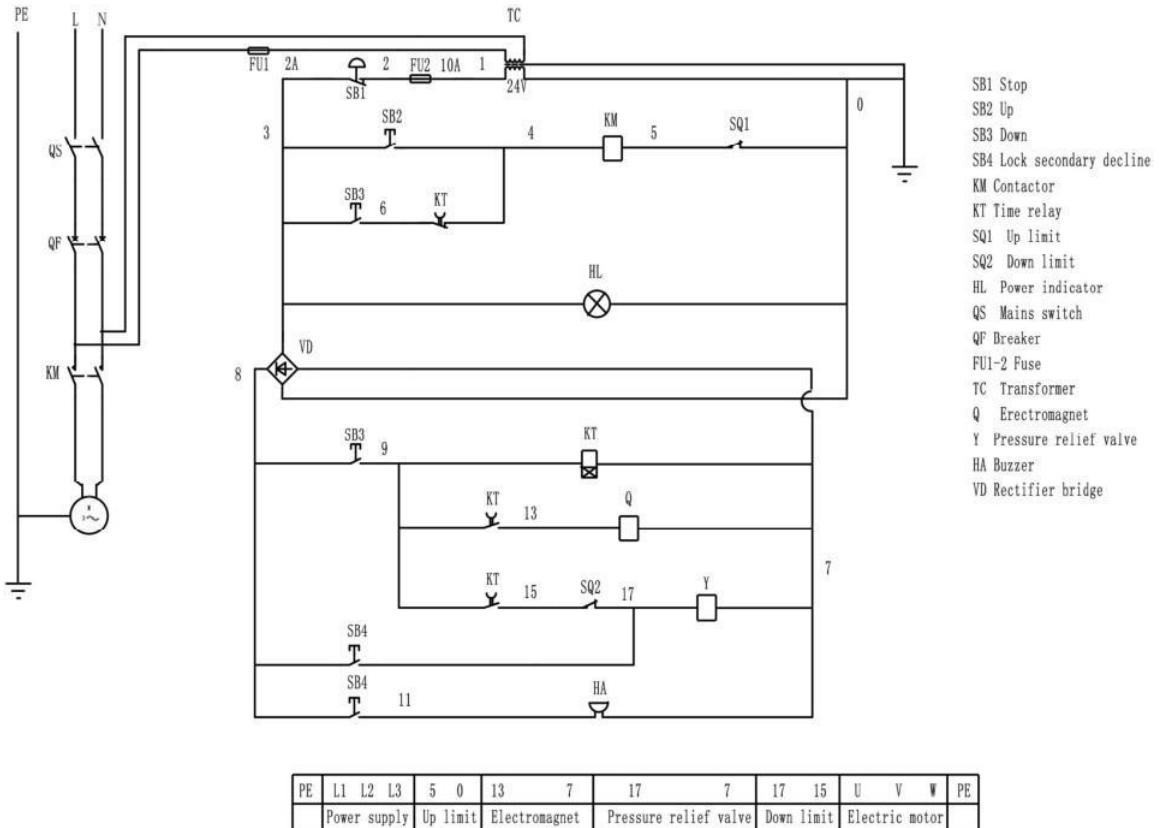
If these conditions are not met, a good foundation will have to be prepared with a gravel floor with a minimum thickness of 50 millimeters; On the gravel floor, the user places a steel electrowelded mesh with a quadrant of 10 cm and a wire diameter equal to or greater than 8 millimeters. A concrete layer with a thickness of at least 160 millimeters is applied on top of the mesh.

The surface where the lift is to be installed must be flat and level in all directions. A slope of no more than 2 cm in the direction of travel and 1 cm transversely can be balanced with leveling wedges.

For installation on an elevated surface it is recommended to comply with the maximum load capacity of the surface.

The new concrete must be sufficiently hardened for at least 21 days.

## Thinking chart



### 7.5.1-Anchoring the post

When the concrete has solidified to the correct thickness, install the two columns into the floor of the installation site. Check and measure the dimensions and move to the right place if required by the user. After making sure the columns and floor are plumb, use steel plates and concrete to fill any gaps between the base plate and the floor. Use M20\*180 anchor bolts to secure the base plate.

Using the base plate on the column as a guide, drill each hole in the concrete approximately 160mm deep using the D.16 hammer drill. To ensure full holding power, do not ream the hole or wobble the drill;

After drilling, thoroughly remove dust from each hole using compressed air and/or a wire brush.

Make sure the column remains aligned with the chalk line during this process;

Install the washers and nuts on the anchors, then tap each hole with a hammer until the washer rests against the base plate. If shimming is required, ensure that sufficient thread is left exposed; If shims are required, place the shims under the base plate as necessary so that when the anchor bolts are tightened, the columns are plumb;

With the shims and anchor bolts in place, secure by attaching the nut to the base. DO NOT use an impact wrench for this procedure;

Anchor another column as described in the steps above;

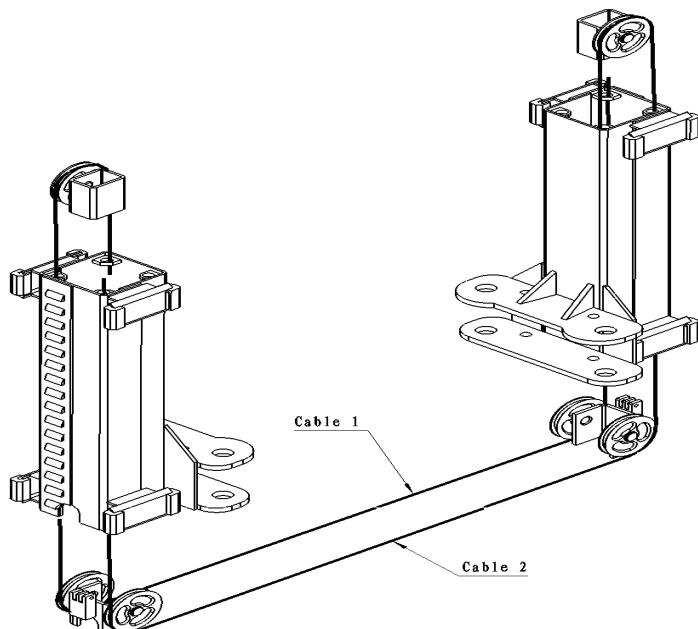
### 7.5.2 –Route the equalizer cables

Raise and lock each carriage approximately 1000mm above the ground;

Ensure that the mechanical protection on each column is fully engaged before attempting to route the equalizer cables. Carriages should be level with the floor before proceeding;

With the carriages level, route the equalizer cables as shown in the following images. Make sure the cables are in place on the pulleys. Make sure the cables are routed properly;

Once the equalizer cables are routed, adjust the nut to get each cable to equal tension using the adjustment wrench provided with the lift.



## Cable connection diagrams

### 7.5.3 Connect the hydraulic system line. (Diagram 9)

### 7.5.4 Add the oil: 10 liters of hydraulic oil #46 in summer, #32 in winter.

**7.5.5** Attach the flat chain in the most logical place. Bring the sliding blocks as low as they will go so that the cradle can swing freely but not slide on the ground. If the product comes from the factory, this first step should already be set. (Diagram 5)

### 7.5.6 Lubricate the sliding blocks and grooves. (Use Formula 2 grease)

## 7.6 - Preliminary checks

Make sure all pins and bolts are properly installed

Make sure that the supply voltage of the electrical system is equal to the voltage specified on the rating plate on the motor

Make sure electrical connections are in accordance with wiring diagrams

Make sure there is no leakage or inflation in the hydraulic line and pneumatic line Make sure the lift is fixed on the ground

#### **-Start checking:**

Make sure the work area is clear of people and objects. Check that the control unit is switched on

Pour oil into the tank (about 10 liters are needed)

Power the lift with the on/off switch

Check that the direction of rotation of the motor corresponds to that on the label by pressing the lift button.

**If the engine becomes hot or sounds strange, stop immediately and recheck the electrical connections.**

#### **7.6.1 Preparing the vehicle.**

Before attempting a vehicle on the lift, check the equipment thoroughly. Check that all connections are firm and reliable. Make sure the levers operate smoothly and the ends of the hydraulic lines are secure. Check whether the power source is sufficient and whether the ground wire is reliable. The generator must rotate in a direction corresponding to that of the gear pump. When the 'lock' button on the control lever is pressed, the two magnets in the columns should move together.

#### **7.6.2 Operation with an empty load**

Check whether the two sliding blocks move towards each other and meet the requirements. Adjust the tension in the steel cables so that they meet the requirements. The core axis line in the hydraulic cylinders should be equal to the core axis line in the columns (if not, adjust). The movement of the sliding blocks should be normal. The hydraulic line must be leak-free. The interlock system should be controlled normally, without any hindrance. Up and down twice.

#### **7.6.3 load handling :**

If everything works with an empty load, put a car on the lift. Raise and raise the vehicle repeatedly, first raising it to approximately 1000mm, checking each working part of the lift and adjusting as necessary. If everything is fine, raise the lift to a fixed height and lower it and repeat.

## **8. Use and operation**

### **Preparation**

After the cradle has swung back against the slides of the columns, drive the car onto the lift and into a suitable position. Rotate the crib and move the adjustable arms and height of the chassis. Make sure the vehicle's weight is evenly distributed when supporting it.

### **8.2 Lift**

With the power source connected, turn the '0' position to the '1' position, press the button  in

raise the vehicle. When the vehicle has risen 100-150mm from the ground, release the button to stop the lift. Shake the car back and forth to make sure it rests firmly and stably on the holder. Then press the start button again and bring the car to the desired position.



### 8.3 Fuses

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

### 8.4 Lock

Press the 'Lock' button. When the sliding blocks are locked, you do not need to hold the button for a long time. To prevent the sprockets from falling too much, allow the chain to spin away empty.

The valley

Press the "Down" button, the elevator goes up first (time relay KT works), two-position three-way solenoid valve works to open the air cylinders and then the safety device unlocks, for 1 or 2 seconds delay, the solenoid valve works to descend at the same time, motor stops.

Descending from limited height to the lowest:

when carriages descend to the limit switch, the lift stops. Users check around the elevator and make sure everything is normal and in safe condition, then press the "Lock" button to continue descending.

## Please note during use:

Before lifting the vehicle, adjust the height of the chassis and ensure that the contact points are resting on the area.

You will need to support the car on its skirt or bridge by placing the center of the rubber chassis so that the support area is perfectly centered. When the vehicle leaves the ground (100-150mm), shake the car slightly to check whether the lift is safe to operate.

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

When the lift has reached the desired height, it must be placed in the safety position. Employees can then get to work.

Before lowering the car, make sure everything under the car, the collar and on the floor under the crib is cleared. The entire work area must be cleared.

Check all moving parts weekly, lubricate the sliding blocks and ensure that the working parts

are lubricated and properly positioned.

Move the lifting collar to the lowest position and check the oil in the oil tank. Make sure the tank is 80% full.

If there are any unresolved problems, please contact our company's after-sales service department or our local agency.



**Warning label !**

## **Maintenance and care**

Only trained personnel who know how the elevator works are allowed to maintain the elevator.

### **9.1 Keep it clean**

The elevator should be wiped down regularly to maintain cleanliness. Before wiping, switch off the power supply.

The work area around the elevator should be swept. If large amounts of dirt accumulate, this will accelerate the wear and tear of the machine and shorten its natural lifespan.

### **9.2 Regular checks**

**9.2.1** Check the elevator safety features every day before work. The magnets should work normally, the locking plate should be in place, the lift collar mounting plate should be free from damage, etc. If you discover anything abnormal, make immediate adjustments, repairs or changes.

**9.2.2** Check daily that the clearance between the collar chain and the hydraulic cylinders is correct. Check to see if the flat chain and the nut that connects it to the collar are loose or loose.

**9.2.3** Connections to the steel cable must be normal and the cable must have the correct tension.

### **9.3 Maintenance of the hydraulic system**

#### **9.3.1 Cleaning, oil change**

Three months after the first full use of the lift, clean the oil tank and change the oil. Then clean the hydraulic system and change the oil once every six months.

#### **9.3.2 Replacing the seals**

Perform a thorough inspection after the lift has been in use for a period of time and if you notice any oil leaks. If the leakage is due to wear of the seals, replace the parts immediately as directed.

## 10. Troubleshooting

| Problem   | Cause   | Solution   |
|---|---|--|
| Generator not working power equipment not working                             | The power source or well  | Check the power source and other electrical components, check fuses                      |
| In working mode, the collar lowers automatically                              | Pistons have their effectiveness lost   | Repair the pistons   |
|   | Pipes leak oil  | Replace the seals and tighten the nuts on the connection                                 |
|   | Seals on the hydraulic cylinders have lost their effectiveness.               | Replace the seals  |
| The hydraulic system makes abnormal noises                                    | The oil filter is clogged   | Clean the oil filter   |
|   | Air has entered the hydraulic system  | Lift the collar to maximum height, hold it there for 2-3 seconds                         |
|   | The space between the sliding blocks and columns are not lubricated Lubricant | add  |
| The collar creeps when raised and lowered                                     | The space between the sliding blocks and the columns is too narrow            | Select sliding blocks that between 1.5 and 2.5mm space between the blocks and the column |
| the basic and additional ones<br>Support mechanisms lift do not move together | the equilibrium cables are used after use stretched and lose their tension.   | Fit the nut on the steel cables, adding tension  |

## 11. Important information for the user

### 11.1 Important information about purchasing the machine

Before purchasing this elevator, please make sure you fully understand the use of the product, function, safety conditions, operation adjustments, etc. If there are any quality problems during shipment, installation or maintenance, please immediately contact the production company or a specialized agency .

### 11.2 Quality assurance after opening the product

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

### 11.3 Foundation

The floor on which the machine is to be installed must be made of non-split concrete, leveled, with a thickness of at least 200 mm, constructed with a resistance class of at least C25/30, allowing the lift to be secured to the ground with using the anchors M20 or higher supplied with the machine.

If these conditions are not met, a good foundation will have to be prepared with a gravel floor with a minimum thickness of 50 millimeters; On the gravel floor, the user places a steel electrowelded mesh with a quadrant of 10 cm and a wire diameter equal to or greater than 8 millimeters. A concrete layer with a thickness of at least 160 millimeters is applied on top of the mesh.

The surface where the lift is to be installed must be flat and level in all directions.

A slope of no more than 2 cm in the direction of travel and 1 cm transversely can be balanced with leveling wedges.

For installation on an elevated surface it is recommended to comply with the maximum load capacity of the surface.

The new concrete must be sufficiently hardened for at least 21 days.

#### **11.4 Documents**

returns Once the customer has purchased the equipment, he/she must immediately complete the warranty card, if necessary, and return it to the manufacturing company. The company enters information into the computer for quick service.

### **12. Important points**

- 12.1 Before using this product, carefully read the operating instructions in this manual.
- 12.2 Turn on the power switch. The power light will come on and you can start the machine to use.
- 12.3 To protect electrical components, we choose DC 24V to operate open locks.

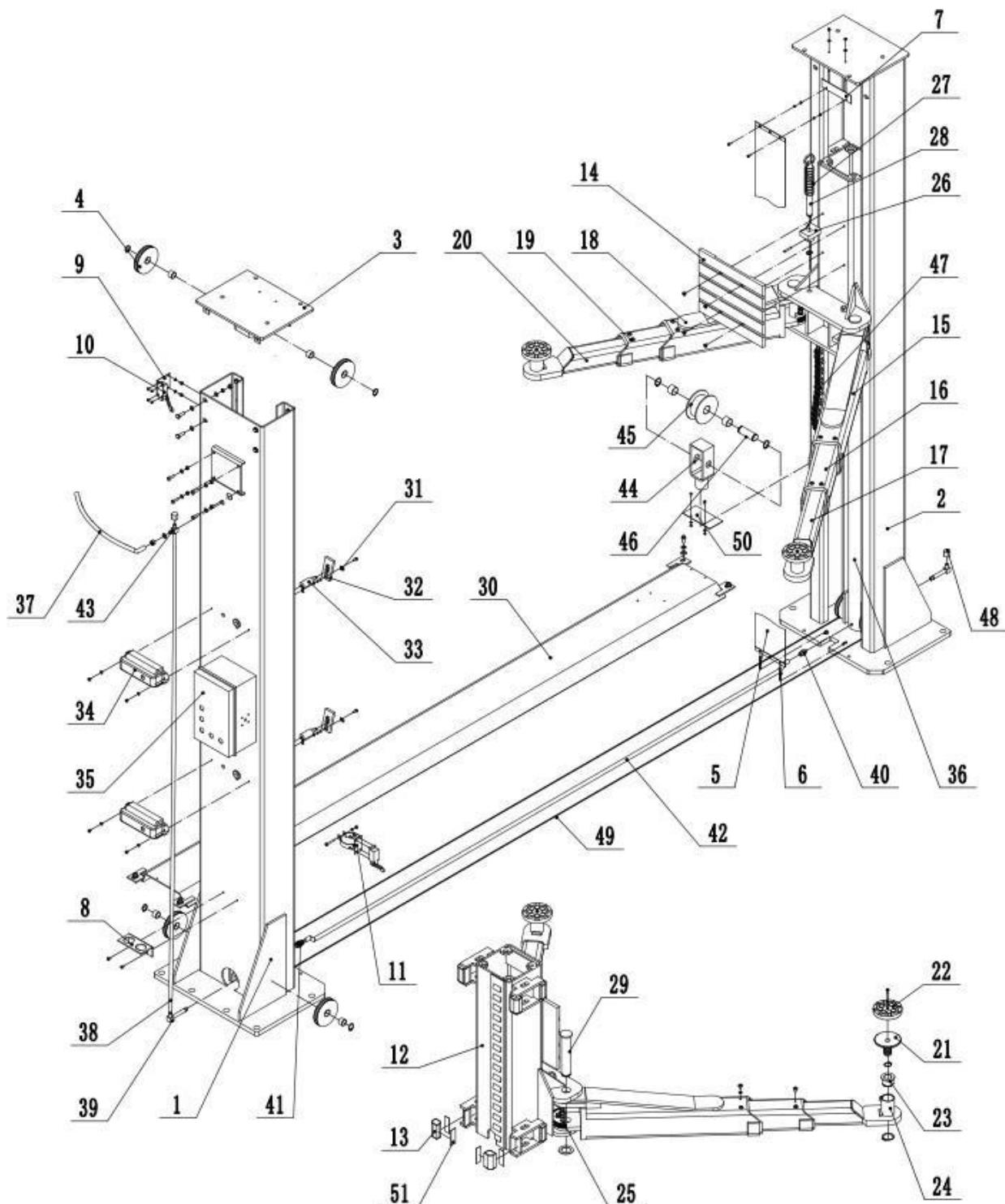
### **13.**

Noise declaration: We hereby declare that the noise of the lifts we produce during loading may not exceed 70 dB.

Enterprise quality testing department

## 14. Exploded plan

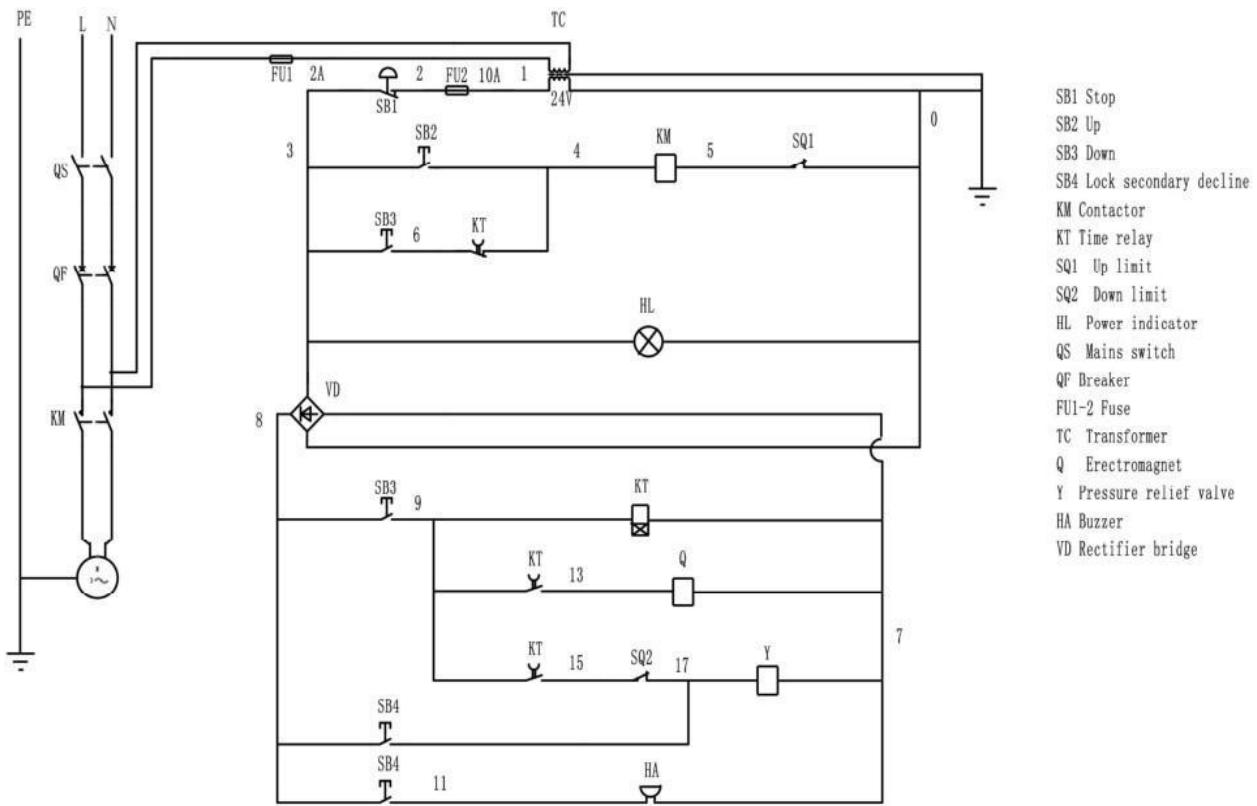
The card is only used for maintenance and after-sales service, other uses are not permitted



| No. | Name                                     | NUMBER |
|-----|--|--------|
| 1   | Main pole (side with power pack)         | 1      |
| 2   | Additional stand                         | 1      |
| 3   | Top plate                                | 2      |
| 4   | Top pulley                               | 2      |
| 5   | Dust cover for stand                     | 2      |
| 6   | Hooks for dust cover                     | 4      |
| 7   | Attachment for dust cover                | 2      |
| 8   | Holder for height extensions             | 2      |
| 9   | Mounting limit switch                    | 1      |
| 10  | Limit switch height                      | 2      |
| 11  | Mounting CE-Stop switch                  | 1      |
| 12  | Herring                                  | 2      |
| 13  | Sliding blocks                           | 16     |
| 14  | Door protectors                          | 2      |
| 15  | 3-stage long lift arms - fixed part      | 2      |
| 16  | 3-stage long lift arms - center section  | 2      |
| 17  | 3-stage long lift arms end section       | 2      |
| 18  | 3-stage short lift arms - fixed part     | 2      |
| 19  | 3-stage short link arms - center section | 2      |
| 20  | 3-stage short lift arms end section      | 2      |
| 21  | Hefadapter                               | 4      |
| 22  | Hefkussens                               | 4      |
| 23  | Screws for lifting adapters              | 4      |
| 24  | Height extensions                        | 4      |
| 25  | Armtanden                                | 4      |
| 26  | Arm locks                                | 4      |
| 27  | Spring for arm locks                     | 4      |
| 28  | Arm release lever                        | 4      |
| 29  | The arm pen                              | 4      |
| 30  | Floor plate                              | 1      |
| 31  | Attachment of lock plates                | 2      |
| 32  | Safety lock plates                       | 4      |
| 33  | Electromagneten                          | 4      |
| 34  | Covering electromagnets                  | 4      |

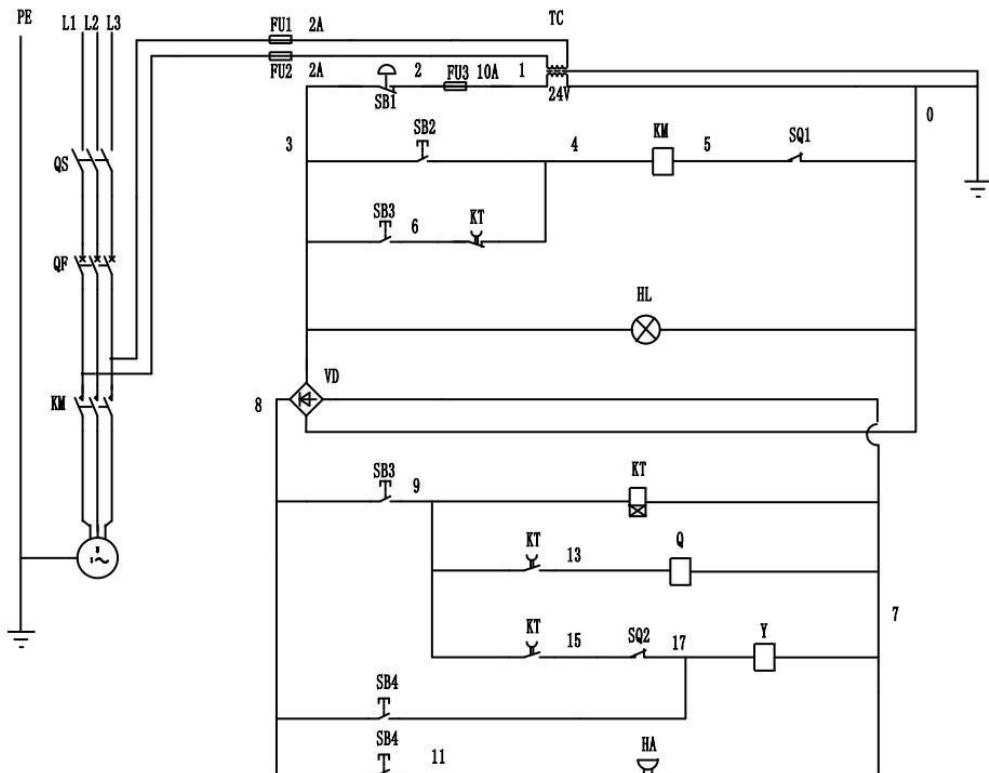
## Layout of elevator with base plate type

AC 230V 50HZ 1PH



| PE | L1           | L2 | L3 | 5        | 0 | 13            | 7 | 17                    | 7 | 17         | 15 | U              | V | W | PE |
|----|--------------|----|----|----------|---|---------------|---|-----------------------|---|------------|----|----------------|---|---|----|
|    | Power supply |    |    | Up limit |   | Electromagnet |   | Pressure relief valve |   | Down limit |    | Electric motor |   |   |    |

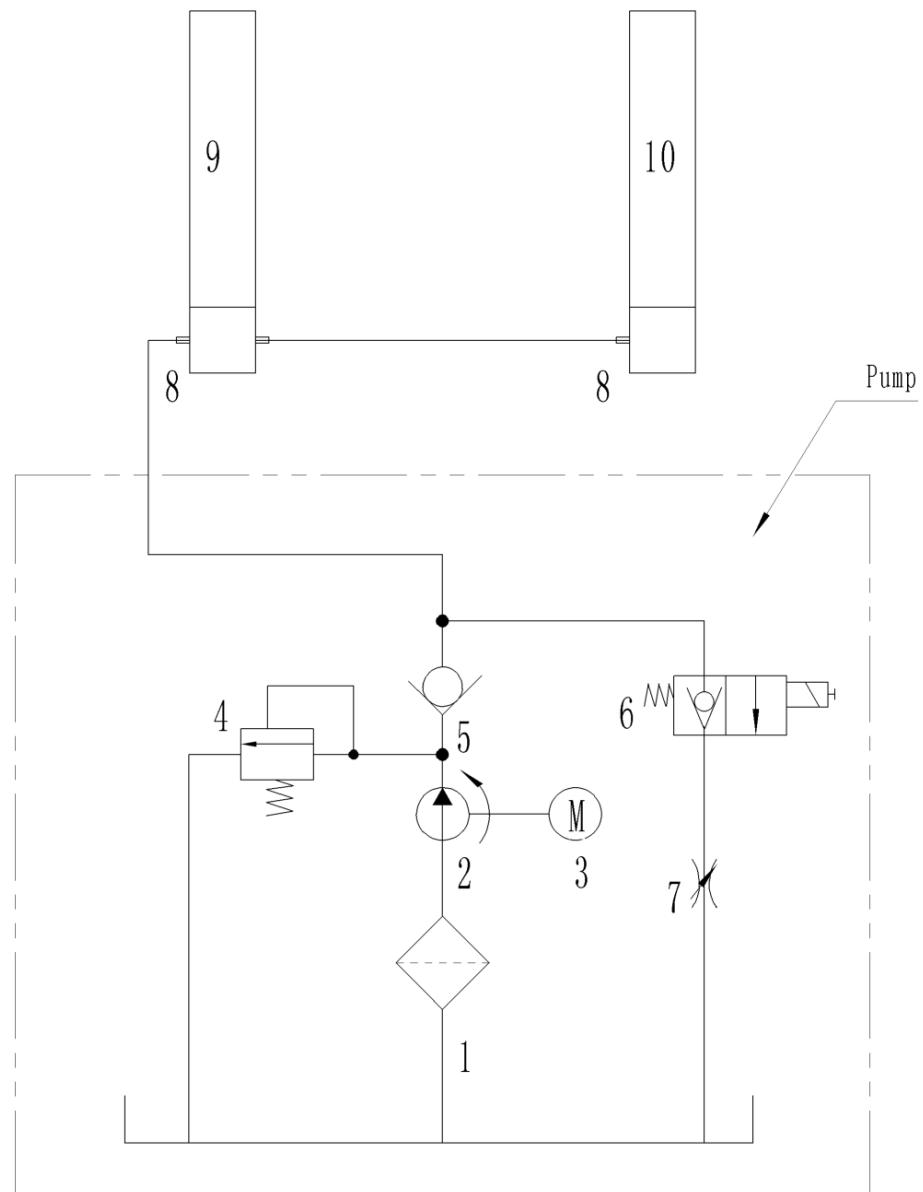
## AC 400V 50HZ 3PH



SB1 Stop  
 SB2 Up  
 SB3 Down  
 SB4 Lock secondary decline  
 KM Contactor  
 KT Time relay  
 SQ1 Up limit  
 SQ2 Down limit  
 HL Power indicator  
 QS Mains switch  
 QF Breaker  
 FU1-3 Fuse  
 TC Transformer  
 Q Electromagnet  
 Y Pressure relief valve  
 HA Buzzer  
 VD Rectifier bridge

| PE | L1           | L2 | L3 | 5   | 0 | 13       | 7             | 17 | 7                     | 17  | 15 | U          | V              | W | PE |
|----|--------------|----|----|-----|---|----------|---------------|----|-----------------------|-----|----|------------|----------------|---|----|
|    | Power supply |    |    | SB4 | T | Up limit | Electromagnet | KT | Pressure relief valve | SB4 | T  | Down limit | Electric motor |   |    |

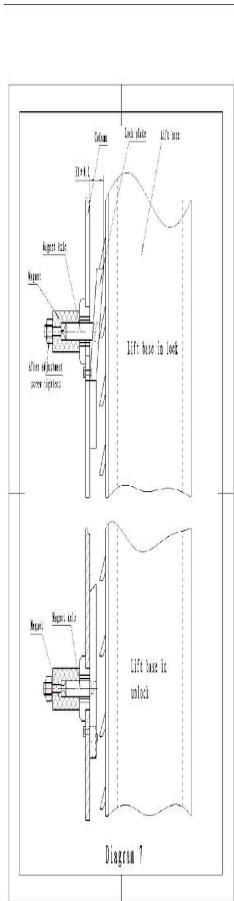
## Electrical system of elevator with base plate type



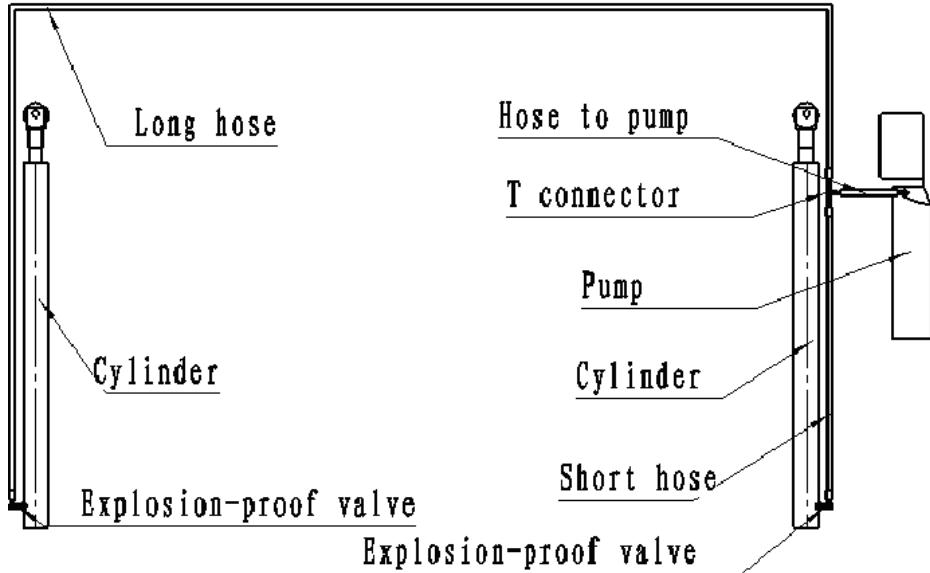
|          |                               |          |                         |          |                   |
|----------|-------------------------------|----------|-------------------------|----------|-------------------|
| <b>1</b> | <b>Filter</b>                 | <b>2</b> | <b>Gear pump</b>        | <b>3</b> | <b>Motor</b>      |
| <b>4</b> | <b>Pressure control valve</b> | <b>5</b> | <b>Non-return valve</b> | <b>6</b> | <b>Drop valve</b> |

|          |                                    |          |                       |             |                           |
|----------|------------------------------------|----------|-----------------------|-------------|---------------------------|
| <b>7</b> | <b>Descent speed control valve</b> | <b>8</b> | <b>Throttle valve</b> | <b>9/10</b> | <b>Hydraulic cylinder</b> |
|----------|------------------------------------|----------|-----------------------|-------------|---------------------------|

## Hydraulic system of lift with foot plate type



## Security lock diagrams



## Hose connection diagram

### 15 Sloop

When your machine's lifespan is over and it can no longer be used, it should be taken out of service by removing any connection to power sources.

Regardless of any considerations regarding the ease of reuse of the machine, either partially or as a whole, it must be emphasized that the scattering of potentially toxic components is extremely dangerous.

The elevator is mainly constructed with metal, plastic materials, electrical cables, oils and lubricants. If the demolition is carried out by your staff, the various parts must be classified by sorting them by type. These must be handed over to specialized and (recognized) companies for the disposal of the various materials.

## 16. Guarantee

1. The warranty comes into effect on the date stated on the purchase invoice and is valid for 12 months.
2. The warranty is not transferable without a written statement of consent from your supplier.
3. Without a purchase invoice, no warranty claim can be made.
4. The warranty only applies if the product is used in accordance with the supplied instructions and exclusively for the purpose for which it was designed.
5. No changes may be made to the product.
6. The warranty does not apply to improper use.
7. Any shipping costs are not covered by the warranty provision.
8. Repairs must be carried out exclusively by your supplier. Any repair(s) carried out by third parties will void the warranty claim.
9. Repairs during the warranty period will not extend the validity. However, a three-month warranty on the repair is provided if the regular warranty period expires.
10. Any maintenance work to be carried out, described in the instructions for use, must be carried out in a timely manner.
11. For warranty you can only contact the sales point where you purchased the item.

# EG-verklaring van overeenstemming - Declaration of conformity - EG- Konformitätserklärung - Declaration de conformité - Dichiarazion di conformita- Declaracion de conformidad

Wij, Valkenpower BV, Industrieweg 4, 6051 AE Maasbracht, Nederland, verklaren geheel onder eigen verantwoordelijkheid dat het product

We, Valkenpower BV, Industrieweg 4, 6051 AE Maasbracht, The Netherlands, declare under our sole responsibility that the product

Wir, Valkenpower BV Industrieweg 4, 6051 AE Maasbracht, Niederlande, erklären in alleiniger Verantwortung, dass das Produkt

Nous, Valkenpower BV, Industrieweg 4, 6051 AE Maasbracht, Pays-Bas, déclarons sous notre seule responsabilité que le produit

Noi, Valkenpower BV, Industrieweg 4, 6051 AE Maasbracht, Olanda, dichiariamo sotto la nostra responsabilità che il prodotto

La empresa, Valkenpower BV, Industrieweg 4, 6051 AE Maasbracht, Holanda, declaramos bajo nuestra exclusiva responsabilidad que el producto

| Type             | Beschrijving                        | Merk                     |
|------------------|-------------------------------------|--------------------------|
| Model            | Description                         | Brand                    |
| Type             | Beschreibung                        | Marke                    |
| Type             | Description                         | Marque                   |
| Tipo             | Descrizione                         | Marca                    |
| VL50F400         | 2-koloms hefbrug/2-post lift Falco  |                          |
| <b>VL35F230B</b> | <b>2-Koloms hefbrug/2-Post lift</b> | <b>Falco Sollevatori</b> |

Waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen:

To which this declaration relates, is in conformity with the following document:

Auf welches sich diese Erklärung bezieht, den folgenden Normen entspricht:

Auquel se réfère cette déclaration est conforme à le document suivant:

A cui si riferisce dichiarazione, corrisponde ai seguenti documenti:

Al que se refiere la presente declaración, corresponde a los siguientes documentos:

De machinerichtlijn 2006/42/EG, Laagspanningsrichtlijn 2006/95/EG en de NEN-EN 1493 norm

The Machinery Directive 2006/42/EC, Low Voltage Directive 2006/95/EC and the NEN-EN 1493 norm

Die Maschinenrichtlinie 2006/42/EG, Niederspanningsrichtlinie 2006/95/EG und die NEN-EN 1493 norm

La Directiva 2006/42/EG, la Directiva Basse Tension 2006/95/EG et le NEN-EN 1493 norm

La direttiva sulle machine 2006/42/EG, la direttiva bassa tensione 2006/95/EG e NEN-EN 1493 standard

La Directiva sobre máquinas 2006/42/EG, la norma Baja tensión: 2006/95/EG y NEN-EN 1493 estándar

Nederland, Maasbracht, 12-06-2015

De Falco VL35F230B is voorzien van een typegoedkeuring van de volgende

Notified Body (NoBo): CCQS UK Ltd., Level 7, Westgate House, Westgate Rd.,  
London W51YY UK.

Directeur Valkenpower:

Certificaatnummer: CE-C-0412-13-21-03-5A

Rapportnummer: TF-C-0412-13-21-03-5A



Valkenpower BV, Industrieweg 4, 6051 AE Maasbracht,  
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