



DOUBLE SCISSOR LIFT 3T





ATTENTION

Before returning this product for any reason (installation problem, instructions for use, breakdown, manufacturing problem...), please contact us.

Contact :

You can reach us by mail sav@clas.com or by phone +33(0)4 79 72 69 18 or go directly to our website clas.com

If you have changed your mind regarding your purchase, please return this product before you attempt to install it.



THIS USER'S MANUAL IS WRITTEN IN THE MANUFACTURER'S LANGUAGE, AND IN OTHER COMMUNITY LANGUAGES. IN CASE OF COMPLAINT, FOR LEGAL PURPOSES, THE VERSION IN ITALIAN LANGUAGE ONLY WILL APPLY. THE MANUFACTURER.

DISCLAIMS ANY LIABILITY FOR DIRECT AND/OR INDIRECT DAMAGES CAUSED BY POOR TRANSLATION OR WRONG TEXT INTERPRETATION.

CAREFULLY READ THE INSTRUCTIONS GIVEN IN THIS MANUAL BEFORE USING THE LIFT.

MANUAL INTRODUCTIONS

The manufacturer warrants lifts and the relevant accessories for 12 months after purchase date. This warranty consists in the repair or replacement - free of charge - of those parts that, after a careful analysis by the Manufacturer's Technical Service, turn out to be faulty from origin. Warranty is limited to material defects, and becomes null and void if the returned parts are tampered with or disassembled by unauthorised staff. Any liability for direct and indirect injuries to people, animals or property due to machine failure or malfunction are excluded from warranty. The expenses deriving from lubricants replacement, transport charges, and any customs duty, VAT and any other expense not specified in the supply contract are at the purchaser's charge. The replacement and repair of parts under warranty, anyway, do not extend warranty terms. The purchaser will nevertheless be entitled to assert its rights on warranty, specified in the supply contract. Should the parties not be willing to submit any dispute arising from the supply contract to arbitration, or in any other case where the judgement of a body of the ordinary competent court is required, the Court of Vicenza will be the only competent court on the territory.

DISCLAIMER

Upon delivery, please check that the product has not been damaged during transportation, and that the accessories coming with it are intact and complete.

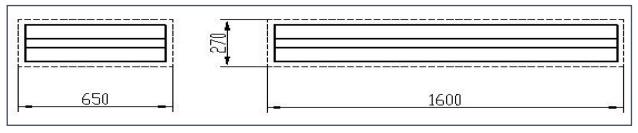
Any complaint shall be filed within 8 days after lift delivery date. Besides the cases envisaged by the supply contract, the warranty becomes null and void:

- In case of a manoeuvre error caused by the operator.
- If the damage is caused by poor maintenance.
- If the envisaged capacity is exceeded.
- If the machine has been somehow modified, and the damage has been caused by such a modification, due to repair operations by the user without the authorisation of the manufacturer or after fitting non-original spare parts.
- If the instructions described in the user's manual are not complied with.



PACKING, TRANSPORT & STORAGE

Packing (Picture 1)





Transport (Picture 2)



Packaging can be lifted or moved by lift trucks, cranes or overhead cranes. In case of slinging, a second person must always take care of the load, in order to avoid dangerous oscillations. During loading and unloading operations, goods must be moved by appropriate vehicles such as trucks, ships or fork lift.

At the moment the goods are delivered, verify immediately that all of the items specified in the delivery notes are included.

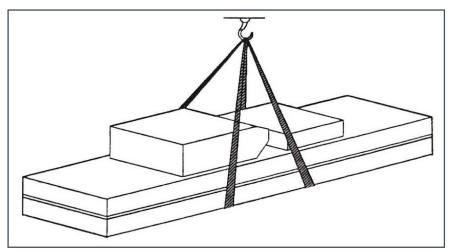
If finding missing parts, possible defects or damages to the goods caused during the transport you should immediately inform the person in charge, or the carrier.

The lifter is really heavy! Don't move it manually, the safety on work place is very important. Furthermore, during loading and unloading operations, goods must be handled as shown in the picture. (Picture 2)

Storage:



- The equipment should be stocked inside the warehouse, if stocked outside one has to make it sure that the equipment stay off the water.
- Use box tracks for ground transportation , use container when shipping.
- The control box should be placed perpendicularly during the transport.
- Temperature range for machine storage: min -25°C max + 55°C



Picture 2



MANUAL INTRODUCTIONS

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This manual has been prepared for those who are expert in the use of the lifters, operators and technicians responsible for the routine maintenance.

Workers should read carefully the 'Maintenance & User Manual' before carrying out any operation on the lift. This manual contains important information regarding:

Personal safety of the operator and the maintenance workers.

Lift safety

The safety of the lifted vehicles

CONSERVING THE MANUAL

This manual is an integral part of the lift.

The manual must be kept in the vicinity of the lift, so that the operator and maintenance staff can easily locate and consult the manual at any time.

We particularly recommended reading Chapter 3 which contains important information and safety warnings.

The lift is designed and manufactured according to the European Standard



Lifting, transport, unpacking, assembly, installation, starting up, initial adjustment and testing, extraordinary maintenance, repair, overhauls, transport and dismantling of the lift are all operations that must be performed only by specialized personnel or by licensed dealer authorized by the manufacturer.

The manufacturer declines all responsibility for injury to persons and damages to vehicles and objects when any of the above mentioned operations has been performed by unauthorized personnel or when the lift has been subject to improper use.



This manual indicates: the operative and safety aspects that may be useful to the operator and maintenance workers. For a better understanding of the structure and its functioning, workers must carefully read the 'Maintenance & Use Manual'.

In order to understand the terminology used in this manual, maintenance and repair personnel must have the ability to interpret correctly the drawings and the descriptions contained in the manual and be able to read and understand correctly the language of the country in which the lift has been installed and the manual has been written. They must have the ability to read technical drawings and have a specialized knowledge both in mechanical and engineering field.

OPERATOR: person authorized to use the lift

MAINTENANCE FITTER: person authorized for routine maintenance on the lift.



Manufacturer reserves the right to make changes to the user manual if there are technological improvements.



DESCRIPTION OF THE LIFT

Using the Lift:

This lifter can lift each kind of vehicle whose weight is less than 3000/3500kg. It is suitable to be use in vehicle tests, maintenance and automobiles care, it is also suitable to be installed on floor or in floor without the need of particular structures.

Structure Features:

- Thanks to the narrow structure of the scissors, it is not required too much space for the in floor installation .
- Independent control box, low-voltage controlling, excellent security.
- Hydraulic compensation.
- Equipped with hydraulic (H) or mechanic (M) safety lock, depending on the version requested.
- Equipped with safety valve to protect from hydraulic failure and/or over loading. So if the oil pipe breaks, the machine will not fall quickly when in UP position.
- Equipped with manual pump for lowering operation when there is no electricity.
- Equipment:
- Complete Lifter
- Control box

Foundation

The lift has to be installed in a floor made of cement and concrete, like the manual explains with technical information shown at page 9.

Structure of the Lifter

A main lifting platform activated by a double scissor platform, a control box.

Control box

Under the control box it is located the electrical system. The oil tank, the hydraulic pump, the valve and other control systems are located in the underlying area, easily accessible through the two inspection doors.



Scissor lift is designed and built to lift all kinds of vehicles, all other use are unauthorized. In particular, the lift is not suitable for washing spray work. And do not lift vehicles whose weight exceed the maximum weight.

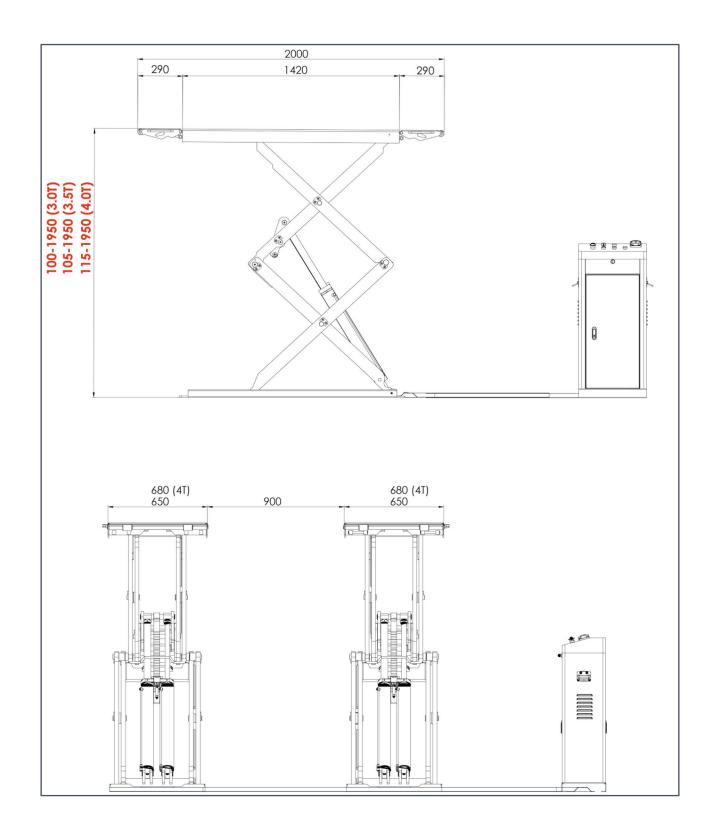


SPECIFICATIONS

Machine Type	PE 6001
Drive	Electrical hydraulic
Safety Lock	Hydraulic
Lifting weight	3500kg
Lifting height	1950mm
Platform initial height	105mm
Platform length	1420mm
Platform width	650mm
Lifting time	≤50s
Descent time	≤60s
Whole machine length	2270mm
Whole machine width	2130mm
Weight	50kg
Pressione esercizio (M)	
Voltage	230V ± 5% 50Hz(or 60HZspecial ordered) Please check the nameplate on the control box for details!
Engine power	2kw
Hydraulic oil	18L – H46 (not supply by the manufacturer)
Working temperature	From + 5°C to +40°C
Working humidity	30-95%
Noise level	< 76db
Installation height	Height above the sea level ≤1000M
Storage temperature	-25°C ~ 55°C
Installation place	Indoor



Lift dimension picture (Picture 3):

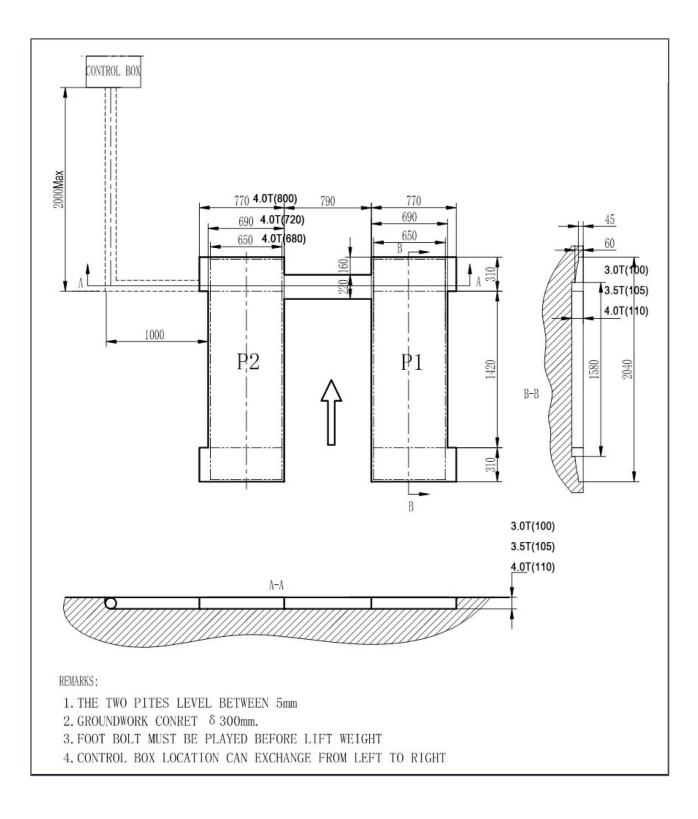








Lift groundwork drawing-for in ground installation (Picture 4):





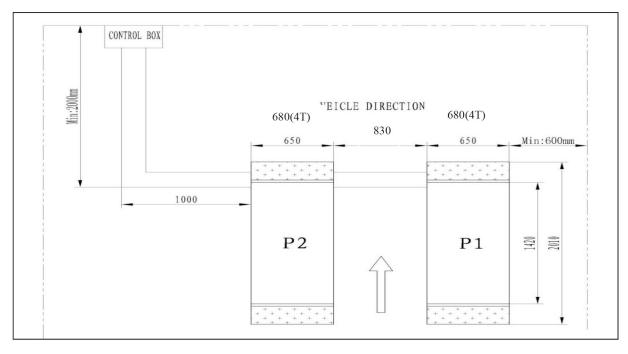
Motor	
Туре	ML90L
Power	2.2kw
Voltage	AC 400 or 230V ±5%
Current	400V: 5A 230V: 10A
Frequency	50Hz /60 Hz (optional)
Poles	3+N+PE
Speed	1400 r/min
Building shape	B14
Energy efficienc	y Class F

Pump	
Туре	hydraulic pump
Model	P4.3
Flux	4.3cc/3.7cc (60Hz)
Joint type	direct connection
Safety valve	
Setting pressure	280 bar
Adjustable working pre	ssure 150~300 bar
Suggested pneumatic p	oressure(M) 6 bar

INSTALLATION SCHEME FOR SCISSOR LIFT

Requirements:

- Concrete type 425#, drying time 15 days
- Clean the basic layer before installing the lift. -Thickness of concrete ≥ 150mm, leveling of whole length ≤ 5mm.



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Note: The ending part of the lift platform nr. P1 and nr. P2 represents the concrete structure. When the thickness of the inside level ground is less than 150mm, the end of P1 and P2 should be taken to 2500×2500mm length and the thickness of the concrete should be taken to ≥150mm.

The minimum thickness of the concrete, and its right leveling, are main keys to complete the alignment operation successfully.

TYPES OF VEHICLES THIS LIFT IS SUITABLE FOR:

THE LOWER PARTS OF THE VEHICLES, LIKE SPORTIVE CAR UNDERBODY, COULD INTERFERE WITH SOME STRUCTURAL PARTS OF THE LIFT.



The lift will also handle customized or non-standard vehicles assuming they are within the maximum specified carrying capacity.

Also the personnel safety zone must be redefined in relation to vehicle with unusual dimensions.



Read carefully and completely this chapter since important information is included about the operator safety in the case of improper use of the lift.



In the following text there are some clear explanations regarding certain situations of risk or danger that may arise during the operation or maintenance on the lift, the safety devices installed and the correct use of such systems, residual risks and operative procedures to use (general precautions used to eliminate potential hazards).



Lifts are designed and built to lift vehicles and hold them in the elevated position in an enclosed workshop. All other uses of the lifts are unauthorized. In particular, the lifts are not suitable for:

- Washing spray work;
- Creating raised platforms for personnel or lifting personnel;
- Use as a press for crushing purposes;
- Use as elevator;
- Use as elevator for single parts of vehicles.



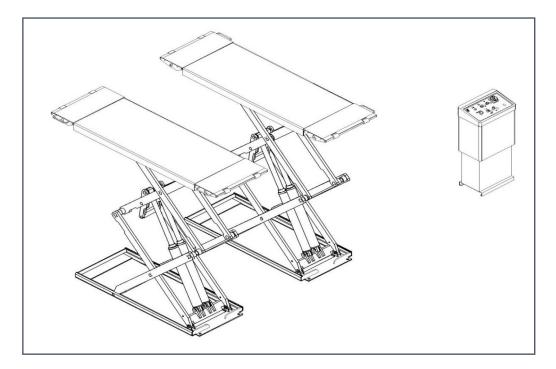
The manufacturer is not liable for any injury to persons or damages to vehicles and to other property caused by the incorrect and unauthorized use of the lifts.

During lifting and descendant phases, the operator must remain in the control station, like the diagrams illustrates.

As the diagrams illustrate, the presence of persons inside the indicated danger zone is strictly prohibited. Persons are admitted to the area beneath the vehicle only when the vehicle is already in the elevated position, when the platforms are stationary, and when the mechanical safety devices are firmly engaged.

DO NOT USE THE LIFT WITHOUT THE PROTECTION DEVICES OR WITH THE PROTECTION DEVICES INHIBITED. FAILURE IN FOLLOWING THESE RULES CAN CAUSE SERIOUS INJURY TO PERSONS, AND IRREPARABLE

DAMAGE TO THE LIFT AND/OR TO THE VEHICLE BEING LIFTE





SAFETY

GENERAL PRECAUTIONS



The operator, the installer and the maintenance fitter are required to observe the prescriptions of the safety regulation in force in the country of installation of the lift. Furthermore, the operator and maintenance fitter must:

- Always work in the stations specified and illustrated in this manual;
- Never remove or deactivate the guards and the mechanical, electrical or other types of safety devices;
- Read the safety notices placed on the lift and the safety information in this manual.

In the manual all safety notices are shown as follows:



WARNING: indicates operations that are unsafe and can cause minor injury to persons and/or damage to the lift, the vehicle or other property.

CAUTION: indicates possible danger that can result in serious injury to people and/or damage to properties.

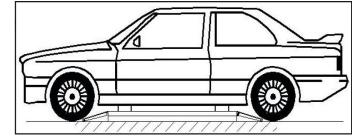
RISK OF ELECTRIC SHOCK: a specific safety notice placed on the lift in areas where the risk of electric shock is particularly high.

RISK AND PROTECTION DEVICES

We shall now examine the risks that operators or maintenance fitters may be exposed to when the vehicle is standing on the platforms in its raised position, together with the various safety and protection devices adopted by the manufacturer to reduce all such hazards to the minimum: For an optimal personal and vehicles safety, observe the following regulations:

- Do not enter the danger areas when vehicles are being lifted. (Picture 5)
- Make sure the vehicle is positioned correctly. (Picture 6)
- Be sure to lift only approved vehicles, never exceeding the specified carrying capacity, maximum height, and projection (vehicle length and width);
- Make sure that there is no person on the platforms during up and down movements and during the standing position.

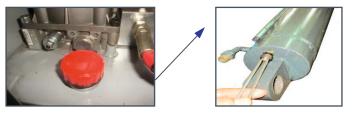
Picture 6



GENERAL RISKS FOR LIFTING OR DESCENDANT PHASES:

The following safety equipment is used to protect from over loading or from the possibility of engine failure. In the condition of over loading, the overflow valve will open and it will directly return the oil to its tank. (Picture 7)Each bottom of the oil cylinders are equipped with antiknock valve. If the oil pipe bursts, the specific valve will be activated and it will limit the lowering speed of the platforms.(Picture 8)

Picture 7



Picture 8







RISKS FOR PERSONNEL

This manual illustrates potential risks for operators, maintenance fitters or any other person standing in the area around the lift when an incorrect use of it is carried out.

RISKS IN USING THE LIFT

During the up and down operations the personnel must stand within the safety area, following the rules and the instruction given by the manufacturer.

During the up and down operations no one is allowed to work beneath the movable parts of the lift, but he has stand in the safety zone.

RISK OF IMPACT (Picture 9)

Before the operator begins up and down movements, make sure that there are no personnel inside the danger zone. When,

due to operational reasons, the lift is stopped at relatively low elevations (lower than 1.75m above the ground) personnel

must be careful to avoid impact with parts of the machine that are not marked with special colors.

RISK OF FALLING OFF (PERSONNEL)

During up and down operations personnel are prohibited from entering the platforms and the vehicle lifted to avoid falling off.

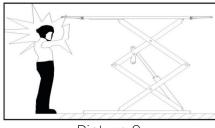
RISK OF FALLING (VEHICLE) (Picture 10)

This hazard may arise in the case of incorrect positioning of the vehicle on the platforms, overweight of the lifted vehicle, or in the case the vehicle dimensions are not compatible with the capacity of the lift. When the platform is being tested, the vehicle engine cannot be turned on.

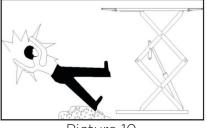
There is nothing that should be placed on the lift-lowering area and the movable parts of the lift.

RISK OF SLIPPING (Picture 10)

The area beneath and immediately surrounding the lift, or its platforms, must be kept clean. Remove any oil spills immediately. Keep Clean the working area.



Picture 9



Picture 10

RISK OF ELECTRIC SHOCK

The risk of electric shock in the insulated areas is shattered.

Do not use jets of water, steam solvents or paint next to the lift and take special care to keep such substances away from the electrical control panel.



RISKS RELATED TO INAPPROPRIATE LIGHTING

The operator and the maintenance fitter must be able to assure that all of the lift areas are properly and uniformly illuminated, in the respect of the laws in force in the place of installation.

During up and down operations the operator should constantly observe the lift movements and he can only operate it through the operator safety zone. The handling of safety devices is strictly forbidden.

Never exceed the maximum carrying capacity and make sure that the lifted vehicle has no loads on board. It is also essential to adhere scrupulously to all of the regulations, maintenance and safety contained in this manual.



ONLY SKILLED AND AUTHORISED PERSONNEL ARE ALLOWED TO PERFORM THESE OPERATIONS. FOLLOW ALL THE INSTRUCTIONS SHOWN BELOW IN ORDER TO PREVENT POSSIBLE DAMAGE TO THE LIFT OR RISK OF INJURY TO PEOPLE.

Only Skilled technicians, named by the manufacturer or by an authorized dealer, are allowed to install the lift.

INSTALLATION REQUIREMENTS

The lift must be installed respecting the specified safety distance from walls and any other equipment. (Picture 11)

The specified safety distance from the walls is at least 1000 mm. Take into consideration the necessary space to work easily, the space needed for the control site and also for a possible runway in case of emergency.

The room must be previously arranged with all the electrical and pneumatic devices needed by the lift functioning.

The room must be 4000 mm in height, at least.

The lift can be placed on any floor, as long as it is perfectly leveled and sufficiently resistant. (\geq 250 kg/ cm², the thickness of concrete \geq 150 mm)

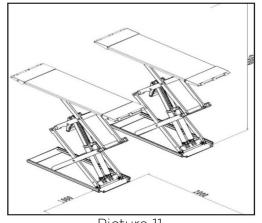
All parts of the lift must be uniformly illuminated with enough light to make sure that the adjustment and maintenance operations can be performed safely, and without reflective or dazzling light that may cause eye problems.

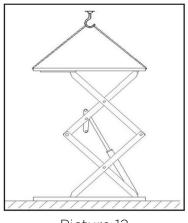
The integrity of the incoming product must be verified before the process of installing the machine is started. Moving and installing operations must follow the process illustrated at picture 12.

For the transportation and the storage of the lift, please refer to "TRANSPORT AND STORAGE" page 4.

Platform Installation:

- Place the two bases on their final position.
- The bottom of the oil cylinder is located on the front of the lift where there's the access for the vehicle.
- Use a forklift or other lifting equipments to move the platform (Picture 12).







Picture 12



Avoid working under the moving lift when the hydraulic system is not fully equipped with oil. When a platform is being moved, adjust the space between the two bases and make it sure that they are fixed and parallel.

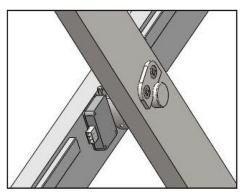




ELECTRIC CIRCUIT CONNECTION:

Follow the line path stated in the 'electrical diagram' to connect electric circuit. Only skilled persons are allowed to perform the operations.

- Open the front cover on the control box.
- Connection of power supply:
- The three-phase connection cables with 5 poles 400V (5 x 2.5 mm- cable dimension) are connected to the control box . The PE ground cable must be connected under the marked clamp and then connected to the plugs of the two bases.
- If the lift is operated at 230V three-phase, a different electrical diagram must be used. Request it to the lift manufacturer.
- If the lift is operated at 230V single-phase, a different electrical diagram must be used. Request it to the lift manufacturer.
- Connection of upper limit switch(SQ1): see the connection on the circuit diagram.
- Connection of lower limit switch(SQ2): see the connection on the circuit diagram.

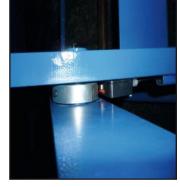


Picture 13 up limit switch

Connection of the photocell sensor (PH):

see the connection on the circuit diagram.





Picture 14 lower limit switch Picture 15 Limit switch positioning



Picture 16 (photocell sensor)

OIL PIPE CONNECTION:

Follow the "oil pipe connection diagram " to connect the oil pipes. Only skilled and authorized personnel is allowed to pe rform the operations.

Pay particularly attention to the oil pipe fitting protection. Refer to the "oil pipe diagram" while:

connecting pipes, pay attention to the oil pipe joint protections to prevent impurities from entering t he hydraulic cir cuit.

connecting the oil pipes, be careful not to mistake the oil pipe



Picture 17



reference numbers.

- In the case of a standard installation, the control unit is close to the vehicle's entry direction. If it is positioned to the right, it is necessary to adjust also the oil pipe.

CALIBRATION



Add hydraulic oil as instructed.

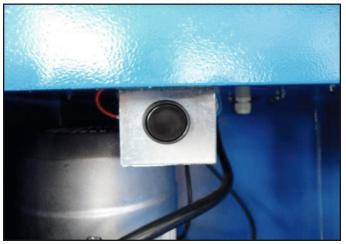
After installing the lift, as required in Picture 4, and after connecting the hydraulic /electrical circuits and any other pneumatic circuits, proceed as follows:

- open the hydraulic oil tank and add 18L of hydraulic oil type H46 into it. The hydraulic oil is not supplied by the manufacturer.
- Make sure the hydraulic oil does not have impurities to avoid the malfunction of the solenoid valve.
- activate the «MAIN SWITCH» button to turn on the power, by clicking the 'UP' button proceed checking that the engine rotates clockwise (by looking down), if it's not turn off the «MAIN SWITCH» and then change the motor phase.

When power is switched on, the high voltage in the control box is activated. Only authorized person can do such operation.

Oil pressure adjustment:

- 1) Pressing the 'UP' button the engine starts to bring the platforms to the maximum height that can be reached.
- 2) Open the control box door, and press the "UP" and "SB4» button, as shown in picture 20, for a few minutes until the all the air outflow from the hydraulic circuit.
- 3) Press the 'DOWN' button until the platforms stop at the minimum permissible height and then press the « SECOND DOWN» button, in this way the platforms will reach the closing position.
- 4) The oil pressure adjustment is now completed.



Picture 20 The level setting button (SB4)

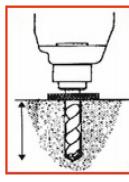


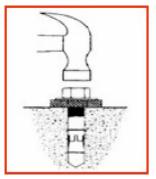
ANCHOR PLUG INSTALLATION:



The anchor plugs installation must be carried out simultaneously whit the installation of the lift, this is to ensure the stability of the structure and a perfect seal:

- Adjust the base parallelism and the distance between the two platforms.
- Fasten the anchor plugs with a percussion electric drill, poke a 120 mm hole and clean it before inserting the dowels. (Picture21)
- Use a rubber hammer to insert the dowels into the floor.



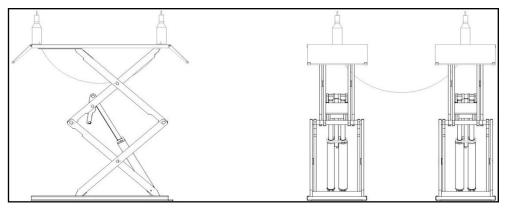




Picture 21

Leveling:

- Use a level to adjust the leveling of the bases.
- If the irregularity of the platforms is due to the irregularity of the bases, use an iron thickness to level it.
- After adjusting the level, insert the anchor and use a hammer to secure it.



Picture 22

The gap between the base plate and the ground after the adjustment has to be filled with an iron or concrete plate.

Lift loading test:

- Switch one the machine with the «MAIN SWITCH» power button.
- Press the "UP" button, and pay attention to the synchronization and to the lifting fluidity.
- Check that there is no leakage of oil.3

During the test of the lift, no person, object and or material must be located near the two sides and below the lift. If an anomaly occurs, press the "EMERGENCY STOP" button to stop the lift immediately. After removing the obstacles repeat the test.



Test of load:

- Drive a vehicle, with a weight that does not exceed the maximum allowed lifting weight, on the platform. At this point the driver must leave the car.
- Put the rubber buffer on the platforms.
- Press the 'UP' button, lift the platforms and pay attention to the synchronization the fluidity of the lift.
- Check that there is no leakage in the hydraulic oil line.



When starting the load test no person or other things are allowed to stand below or close to any of the moving parts of the lift.

Process the test with vehicle that does not exceed the maximum permissible lifting weight. Check and make it sure that there is no leakages on the hydraulic circuit. If an anomaly occurs, press the "EMERGENCY STOP» button to stop the process immediately. Resolve the problem and repeat the test again.

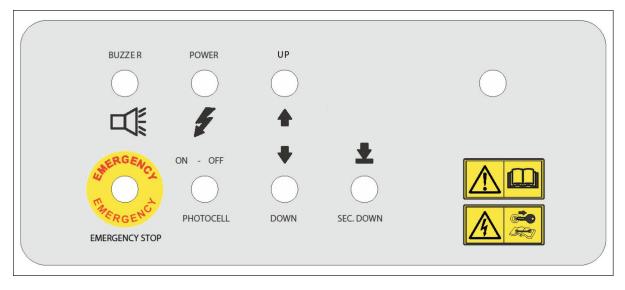
MODE OF OPERATION

Check the procedure as follows.

Operating alerts:

- Before any operation, remove possible obstacles from the lifting area of the lift.
- When lifting or lowering the platforms, no operator is allowed to stand in the lateral side of the machine, underneath it or on both platforms.
- Avoid lifting those vehicles whose weight is above the maximum permissible lifting weight.
- When placing the vehicles on the platforms, make it sure that the body is resting on the rubber pads supplied.
- Pay attention to the synchronization of the lift. If there are anomalies, stop the lift immediately, check and resolve the problem.
- When the equipment is not going to be used for a long period of time or during the night hours lower the platforms to their full stop, remove the vehicle from the lift and stop the power supply.

Instructions for the electronic drive: (see picture 23)







LIFTING:

- By Pressing the 'UP' button the platforms will rise. Platforms will stop climbing when they reach the upper limit.
- By Releasing the 'UP' button, the oil pump stops working and the platforms stop lifting.

LOCK:

• Press the 'SEC. DOWN' button to lock the platform when the lift is in the required position.

DESCENT:

- By pressing the 'DOWN' button, the platforms will begin to descend.
- By releasing the 'DOWN' button, the platforms will stop descending.
- When the "DOWN" button is kept pressed, the platforms continue to descend automatically, stopping at a high of about 330mm reaching the lower limit switch. By releasing the "DOWN" button and pressing the "SEC. DOWN» button the platforms will go down to their closing position.

EMERGENCY STOP:

If the lift has a malfunction while a vehicle is on the platform, press the «EMERGENCY STOP» button to stop the entire operating circuit and to interrupt any other operations.

STOP FOR PLATFORM DISALIGMENT:



When the platforms are not leveled, follow the process described in the next paragraph to adjust the alignment. The lift can only be put into use after the two platforms have been placed back at the same level.

HYDRAULIC OIL ADJUSTMENT (normal conditions of use):

After completing the installation process, the platform P1 is lower than the P2 one, this is due to the air still present in the oil cylinder. When performing the "oil circuit setting operation", the lift must not be placed in operation and no weight have to be placed on the platform. The adjustment process is shown at page 16.

EMERGENCY PROCEDURE FOR PLATFORM MANUAL LOWERING (POWER FAILURE):

During the manual lowering of the platforms observe the vehicle on the deck until the operation is ended.

If anomalies occur during the process, immediately close the hydraulic circuit safety valve.

The manual lowering process take place as follow:

- Place the «MAIN SWITCH» button on the "OFF" position (do not cut off the power from the power supply).
- Open the rear door of the control box and look for the valve figure 24.
- Loosen slowly the RED final part of the oil valve.

You will notice that the platform will start to descend.

- Always check the correct floor leveling during lowering process.
- After lowering the platforms immediately tighten the lower valve screw.
- The manual lowering process is now completed.





MAINTENANCE & CARE

Using the Lift:

Maintenance operations are only allowed to personnel with adequate training.

All pins and upper/lower sliding blocks of the lift must be lubricated regularly.

Hydraulic oil should be replaced once a year.

The oil level should always reach at least the upper limit indicated.

When replacing the oil, the lifting platforms of the lift must always be in the closed position, then proceed with the extraction of the used oil.

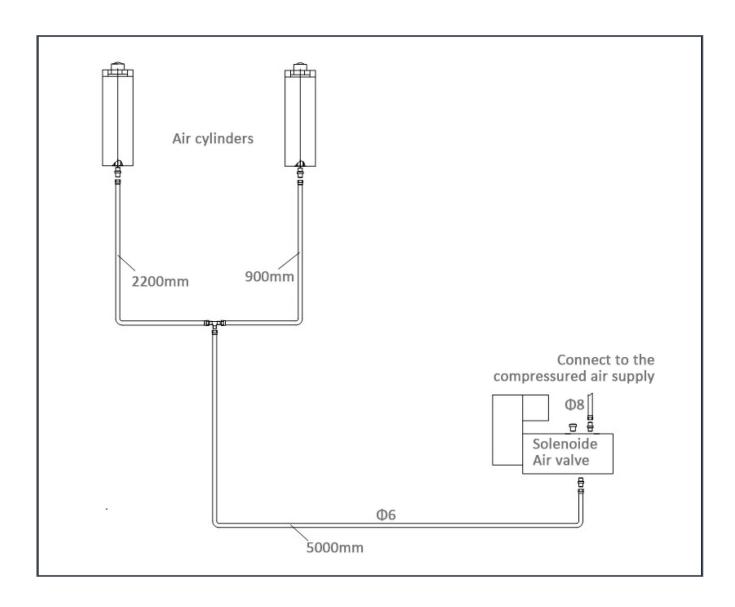
The lift maintenance technicians must check that the pneumatic safety valve is reliable and in operation.

TROUBLESHOOTING

Symptom	Cause	Troubleshooting
The engine does not	The power cable is not plugged in by the power outlet.	Connect the power cable to the power socket.
work	The AC contactor does not work.	If the engine works by forcing the contactor with an isolation rod, replace the contactor.
	The limit switch is not closed.	Check the limit switch, its cable and adjust or replace the limit switch.
	The motor turns reverse.	Modify the phases of the power cables
In lifting operation, the motor runs, but there is no lifting movement	Lifting with light load works normally but not with heavy load.	The safety pressure set on the overflow valve can be increased by slightly rotating the right knob. The valve is defective and should be replaced.
	The amount of hydraulic oil is not enough.	Add hydraulic oil.
	The descent valve is activated but does not work.	Check the plug and the descent valve, check that the nut is properly sealed.
	The "antiknock valve" is blocked.	Remove the "antiknock valve" from the oil supply hole placed at the bottom of the oil cylinder, and clean the "antiknock valve".
The lift lowers very slowly when subjected	The hydraulic oil has a high viscosity, is deteriorated or frozen (in Winter).	Replace the oil with an oil conforming to the operating manual.
to standard weight loads.	The "antiknock valve" is blocked.	Remove the "antiknock valve" from the oil supply hole placed at the bottom of the oil cylinder, clean the "antiknock valve" or replace it.
Platform P1 and P2 are	The air in the hydraulic circuit has not been completely removed.	Refer to page 16 "Oil pressure adjustment Operation".
misaligned	Oil leakages along the oil pipe or one of its joints.	Check the hydraulic circuit and seals, then adjust the pressure and the level of the oil.
Noisy lifting and lowering	The lubricant is not enough.	Lubricate all pins and slider parts (including piston rod) with mechanical oil.

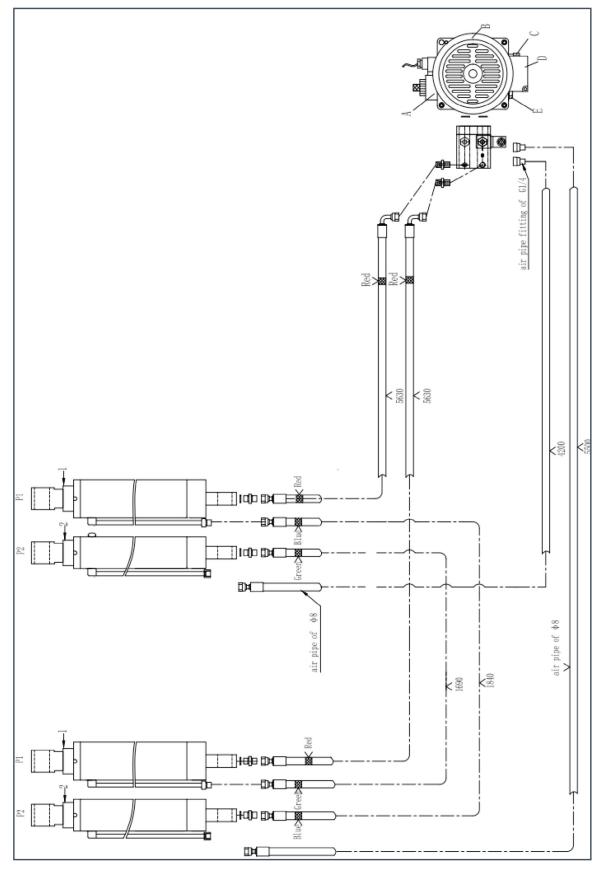


Air circuit diagram (only for mechanical lock version)



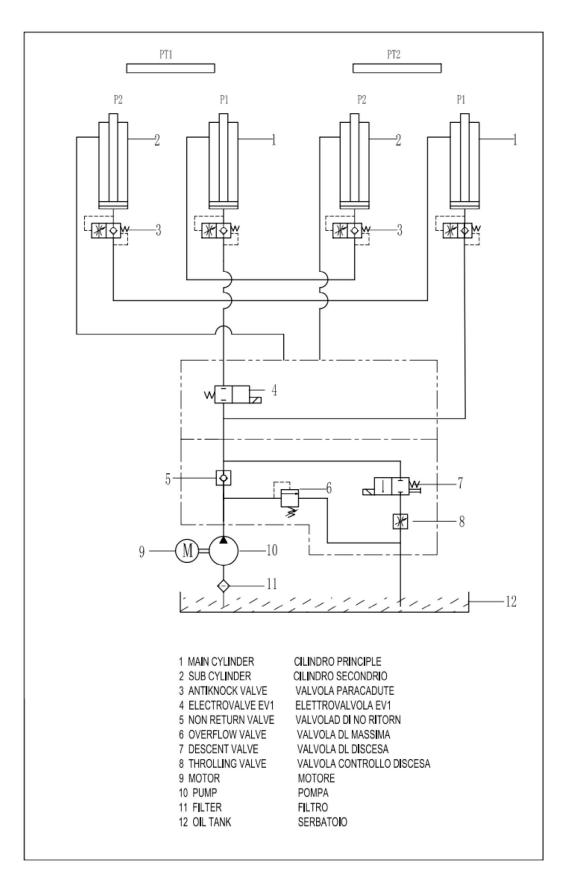


Hydraulic hose connection diagram



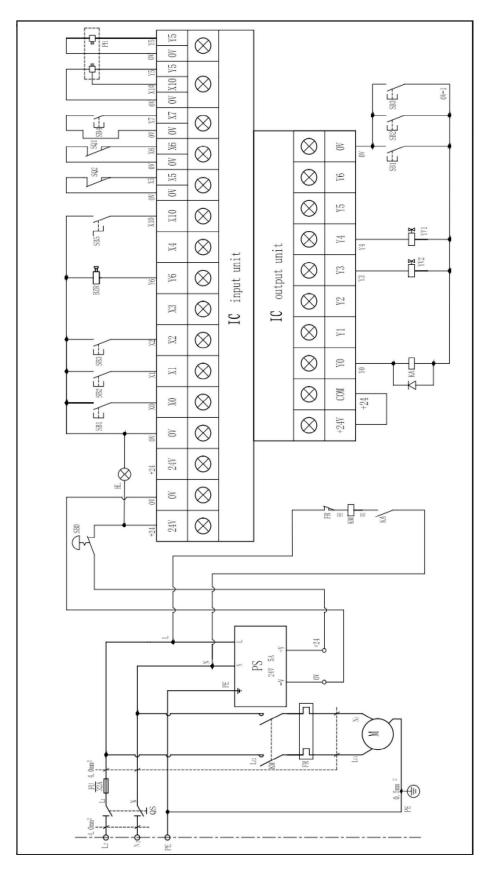


Hydraulic diagram (for the hydraulic lock version):



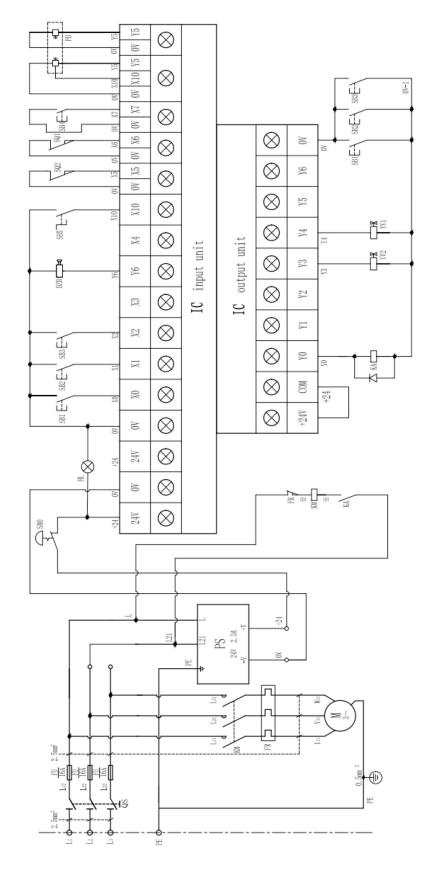


Electrical diagram (230V, for the hydraulic lock version):





Electrical diagram (400V, for the hydraulic lock version):



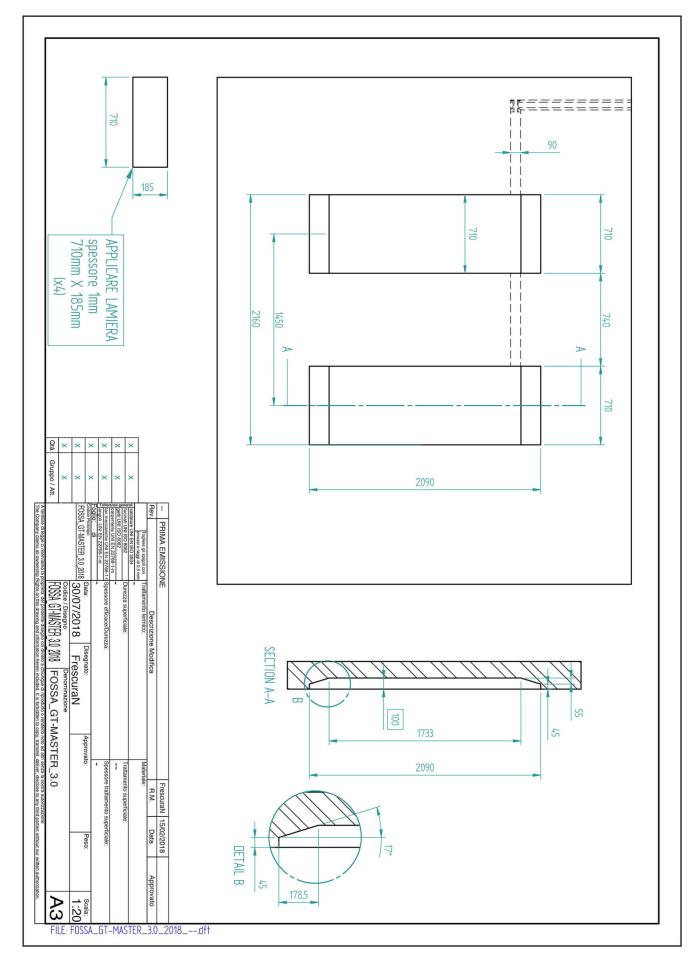


USER MANUAL - USE AND MAINTENANCE INSTRUCTIONS

QS	Main Switch	AC-23A	1	
KM	AC contactor	SC-03/220V	1	
FR	thermal relay	TR-ON/3	1	
М	motor	ML90L 380V	1	220V optional
FU	fuse	16A	2~3	different voltage
PS	power supply	220VAC/24VDC/2A	1	
IC	computer board	02-V14.3-20	1	
HL	power lamp	24V	1	
SBO	emergency	XB2 BS542	1	
SB1	UP button	IDEC	1	
SB2	DOWN button	IDEC	1	
SB3	SEC.DOWN button	IDEC	1	
SB4	synchronization button	IDEC	1	
SB5	photoelectric shield key switch	XB2 BG21buzzer	1	
BZR	buzzer	AD16-22SM	1	
YV1	descent valve	18W-24VDC	1	
YV2	working valve	22W-24VDC	1	hydraulic lock version
DQ1	Solenoide air valve	22W-24VDC	1	mechanical lock version
SQ1	up limit switch of main lift	RV-166S-1C25	1	
SQ2	lower limit switch	RV-166S-1C25	1	
PH	photocell	POWER DC 12-24V (8m)	1	







PE 6001M DOUBLE SCISSOR LIFT 3T

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CLAS Equipements

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PE 6001M

DOUBLE SCISSOR LIFT 3T

If you need components or parts, please contact the reseller. In case of problems, please contact your authorized technician.