Taal: engels

MSH equipment

Handleiding

Effemme
EF WizUP30I - Schaarbrug dorpelopname Wiz UP30 Inbouw
EZ WizUP30FL- Schaarhefbrug dorpelopname Wizard UP30F

MSH equipment
Appelmarkt 7
1681 PE Zwaagdijk-Oost
Tel: 0228-561100
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EFFEMME

ponti sollevatori - lifts

SINGLE SCISSOR VEHICLE LIFT

WIZARD

UP 30

OPERATING INSTRUCTIONS

HTC Srl Unipersonale *– Web site www.effemme.biz - E-mail info@effemme.biz - P.Iva: 01607910674*
Via degli Elettricisti – Zona Ind.le - 64020 Scerne di Pineto (TE)Tel. 085.9463008 – Fax 085.9462461

CONTENTS

- **SYMBOLS**

 **HAZARD / DANGER**

 **PROHIBITED**

 **WARNING**

Follow the instruction given by the messages preceded by a safety alert symbol

Refer exclusively to the ITALIAN version of this Manual for a safe use of the machine. Any translations of this manual may not comply to the original version integrating additions and contents that are not present in the original text and which are not necessarily authorized by the manufacturer.

1. INTRODUCTION

This manual was written for shop technicians (car lift operators) and maintenance technicians. Before operating these car lifts, please read these instructions completely. The lift should be operated only by purposely trained technicians over 18 years of age, in full observance of the regulations in force in the country where the lift is installed.

This manual covers important information for:

- **Safety of people**
- **Safety of the car lift**
- **Safety of lifted car**

This manual is considered to be a permanent part of the lift and must be kept in an easily accessible place so that the operator can find it and refer to it any time.

PARTICULARLY CAREFUL READING OF CHAPTER "3"ON SAFETY AND MAINTENANCE IS RECOMMENDED.
All versions of "UP 30" have been designed and built as required by: EUROPEAN DIRECTIVES: 98/37/CE-73/23/CEE e 89/336/CEE and EUROPEAN STANDARDS: EN 292.1, EN 292.2, EN 1050, EN 60204-1, EN 1493.

Only skilled and previously authorized technicians should be allowed to carry out transport, assembling, setting, maintenance, overhaul, moving, dismantling operations, etc. concerning the lift. The manufacturer is not responsible for possible damage to people, vehicles and objects, caused by improper use of the lift.

 Read these instruction completely before operating the lift.
 The lift must be only used for vehicles up to the specified capacity.
 Any improper use of this lift is strictly forbidden Disconnect the lift from the main electric supply before any extraordinary maintenance operation.
 Lift installation must be carried out as specified by these instructions.
 Service test; proceed as described on page 32.

THE MANUFACTURER IS NOT LIABLE FOR POSSIBLE DAMAGE RESULTING FROM FAILURE TO FOLLOW THE INSTRUCTION SUPPLIED WITH THIS CAR LIFT.

2. PACKING

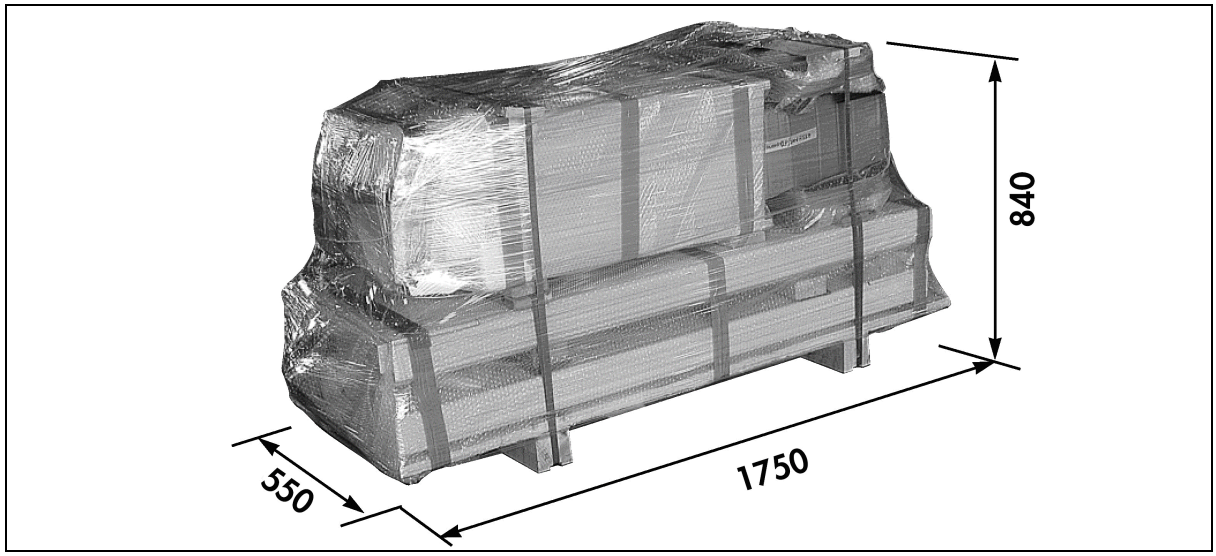
Standard versions of the car lift are pre-assembled and equipped as follows **(pic. 1)**:

N.2 bases and platforms (P1-P2) placed on top of each other, with pallet and wooden shims, and sealed with "pluriball" and metal clamps.

N.1 control box sealed with "pluriball" and metal clamps and wooden shims (packed on the lift).

N.1 cardboard box equipped with electric and hydraulic connections, rubber pads (packed on the lift).

N.1 set of short or long lifting/lowering ramps or set of spacecovering (packed on the lift).



Pic. 1

3. TRANSPORT

Packing can be lifted or moved by fork lift trucks, cranes or bridge cranes. In case of slinging, a second person must always take care of the load to avoid dangerous oscillations. At the arrival of goods, check for possible damage due to transport operations. Also verify that all items specified in the delivery notes are included. In case of damage or possible defects in transit, the person in charge or the carrier must be immediately informed. Furthermore, during loading and unloading operations goods must be handled as shown in **(pic. 2)** (when slinging, use wooden spacers to prevent carton box from damaging).

PACKING REMOVAL:

Wooden packing and pluriball packing can be recycled , in case of total packing removal, comply with the rules in force in the lift installation country.

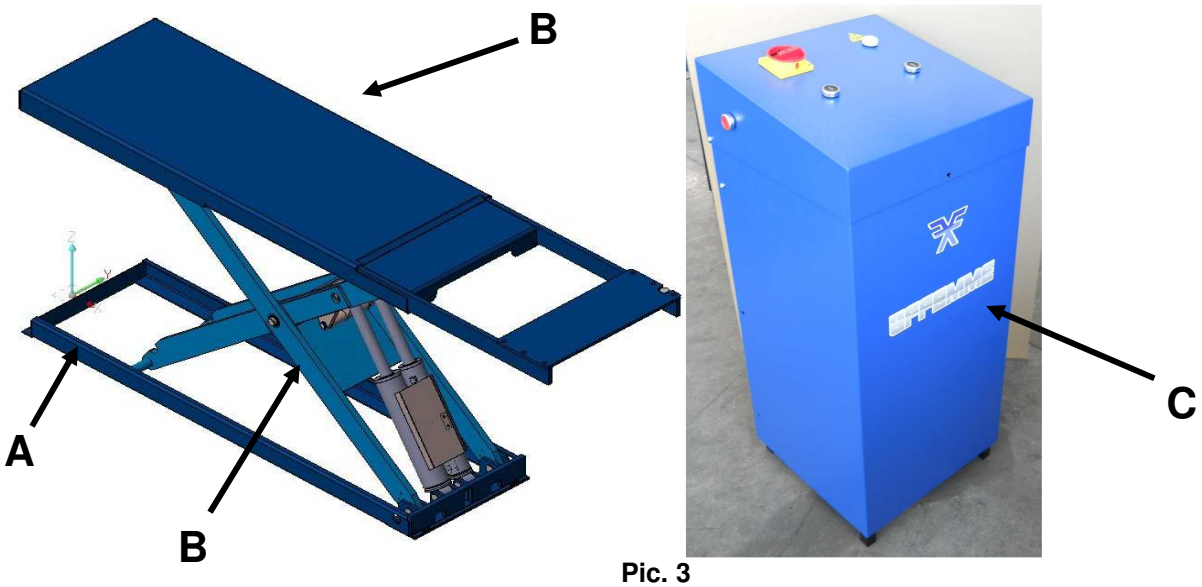
Pic. 2

4. MACHINE DESCRIPTION

MODELS - SPECIFICATIONS

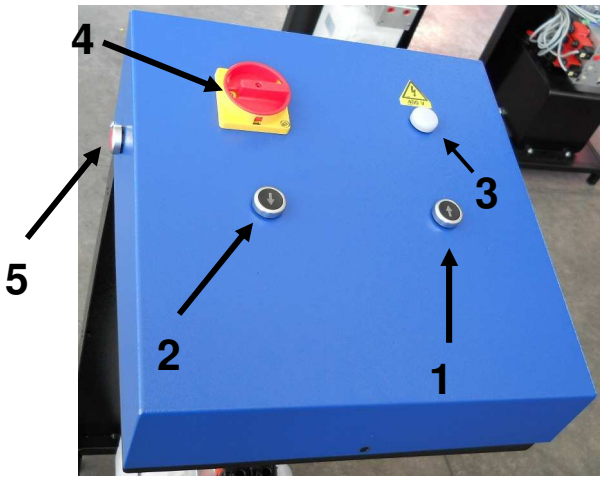
"UP 30" models are single scissor and fixed (that is anchored to the ground) car lifts. They have been designed and built for vehicle lifting and placing operations. Our car lifts are equipped as follows **(pic. 3)**:

A. **BASE** (Fixed structure)
B. **ARMS, PLATFORM** (Lifting and travelling structure).
C. **CONTROL BOX**



Pic. 3

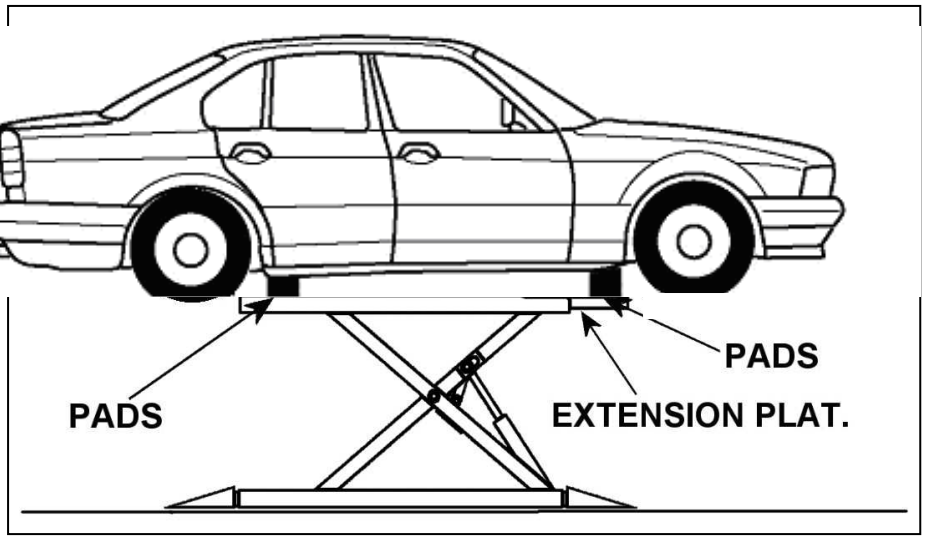
FIXED STRUCTURE UNIT: This is the car lift base, made of a structural steel sheet with floor fixing holes.
LIFTING AND TRAVELLING STRUCTURE UNIT: This is composed of steel booms and a platform. The platform is made of structural steel sheet with supporting uprights anchored to the booms by steel pins at the fixed points, and by sliders at the movable ones. Lifting system links are equipped with maintenance-free self-lubricating bushings.
CONTROL BOX: The unit is made of a metallic box containing oil tank, pump motor assembly, electro-valve assembly and electrical and hydraulic supply connections. Low-voltage controls (24V) are placed on the power unit. they are the following **(pic. 4)**



Pic. 4

1. **Lifting push button:** When pressed, motor and lifting mechanism are operated.
2. **Lowering push button:** When pressed, lowering electrovalves are operated.
3. **Led:** Indicates that the control board is powered.
4. **Master switch:** The switch can be padlocked to prevent the use of the lift during the maintenance.
5. **EF:** End-Stroke High Micro Exclusion.

“UP 30” single scissor lifts are able to lift vehicles and vans whose weight is no more than 3000 kg. All version are equipped with extension platforms so vehicles with a longer “wheel base” can be lifted. Our range of single scissor lifts can meet any demand coming from car repairmen, tyre dealers, body repairmen etc.
The vehicle is supported by mean of 4 rubber pads (included), setting its wheels free.

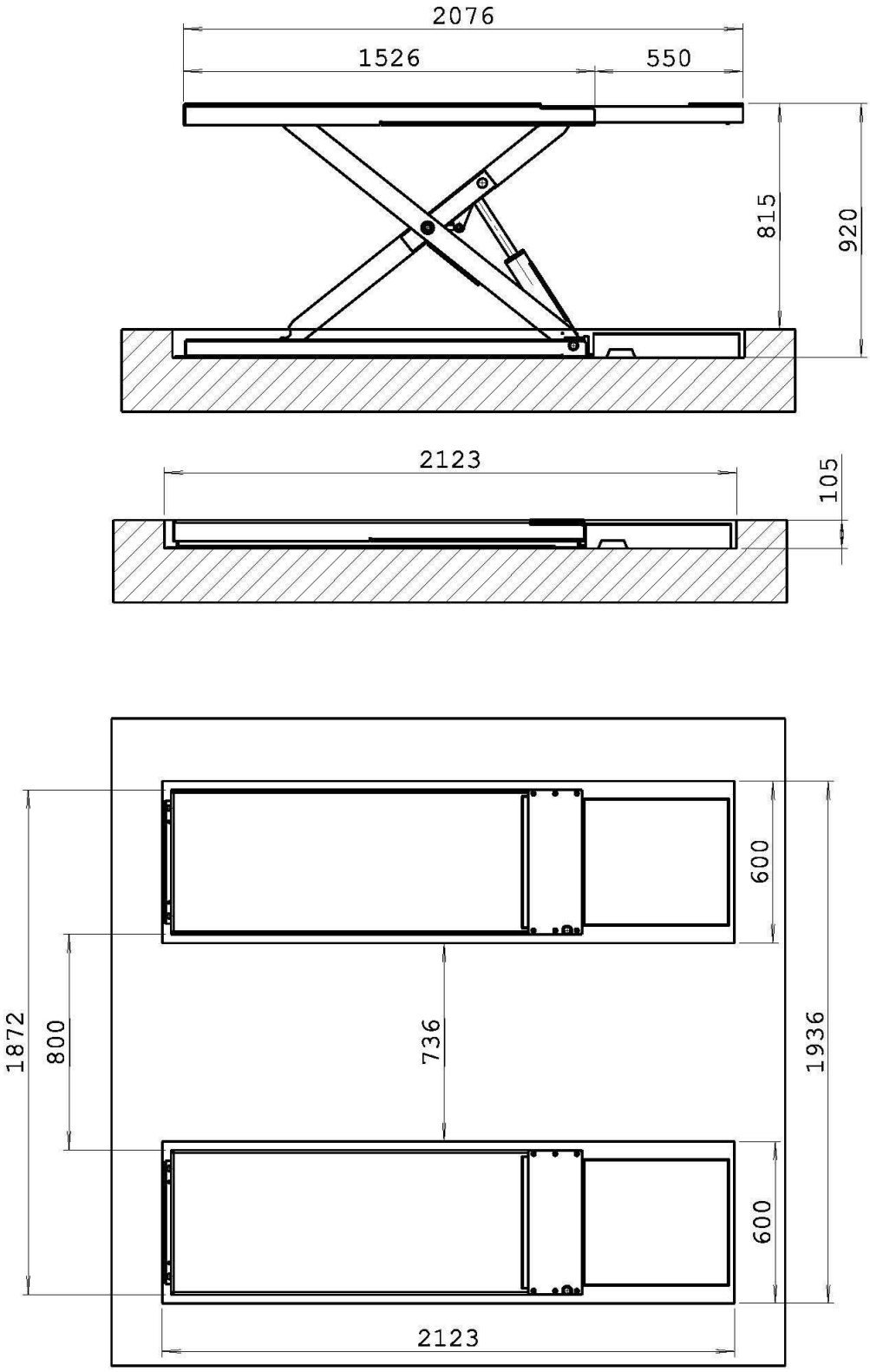


Pic. 5

⚠ THE LIFT IS DESIGNED TO RAISE THE LOAD FROM A VERTICALSTROKE OF AT LEAST 75MM, THAT MEANS HEIGHT FROM THE GROUND OF THE PLATFORM OF AT LEAST 180 MM. LOWER THE LIFT UNDER THIS LIMIT WHEN THERE IS A VEHICLE ON IT, IT COULD DAMAGE THE STRUCTURE AND CREATE LOSS OF STABILITY OF THE LOAD.

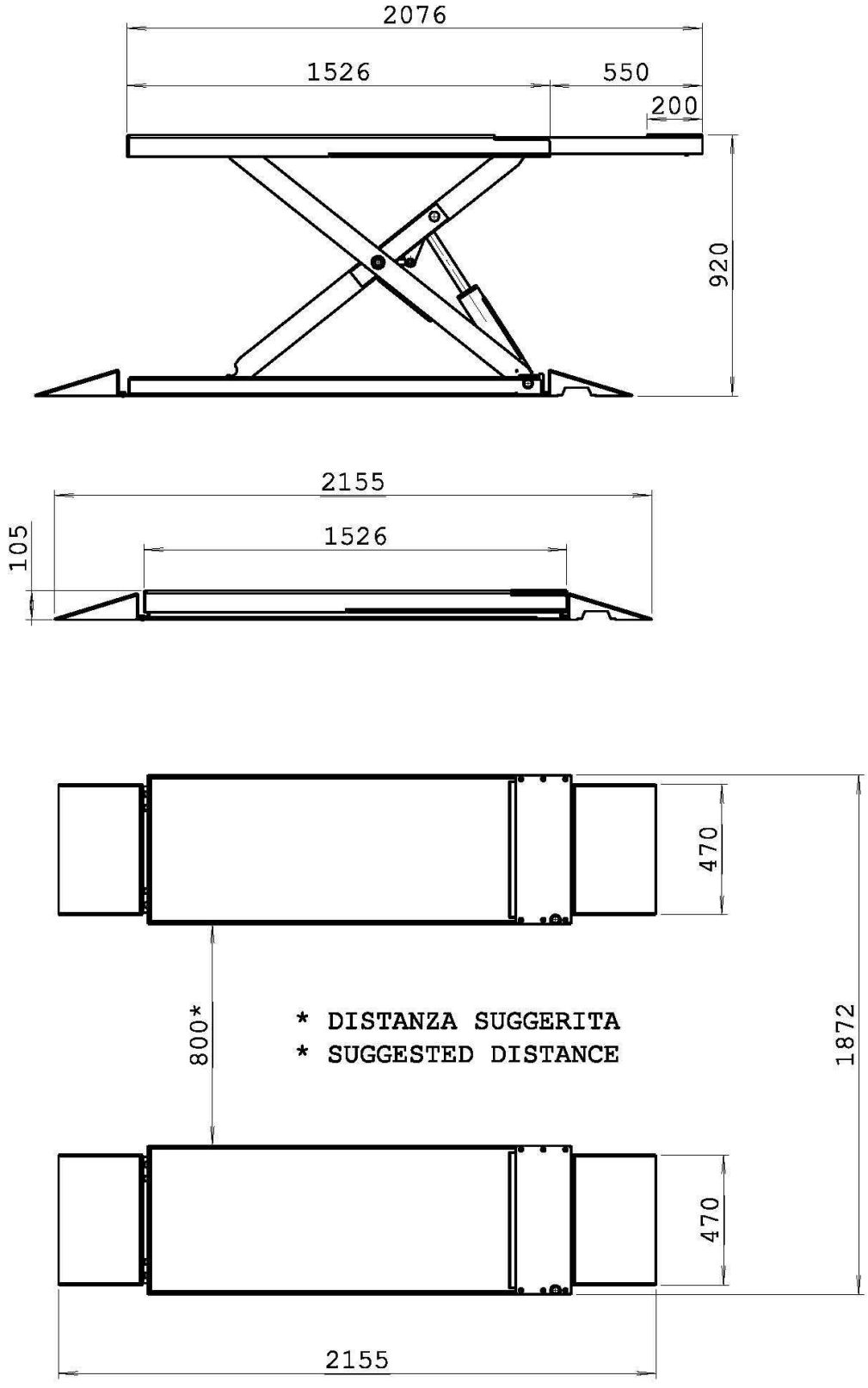
OVERALL DIMENSIONS:

LAYOUT UP30 WIZARD INCASSATO
LAYOUT UP30 WIZARD INGROUND

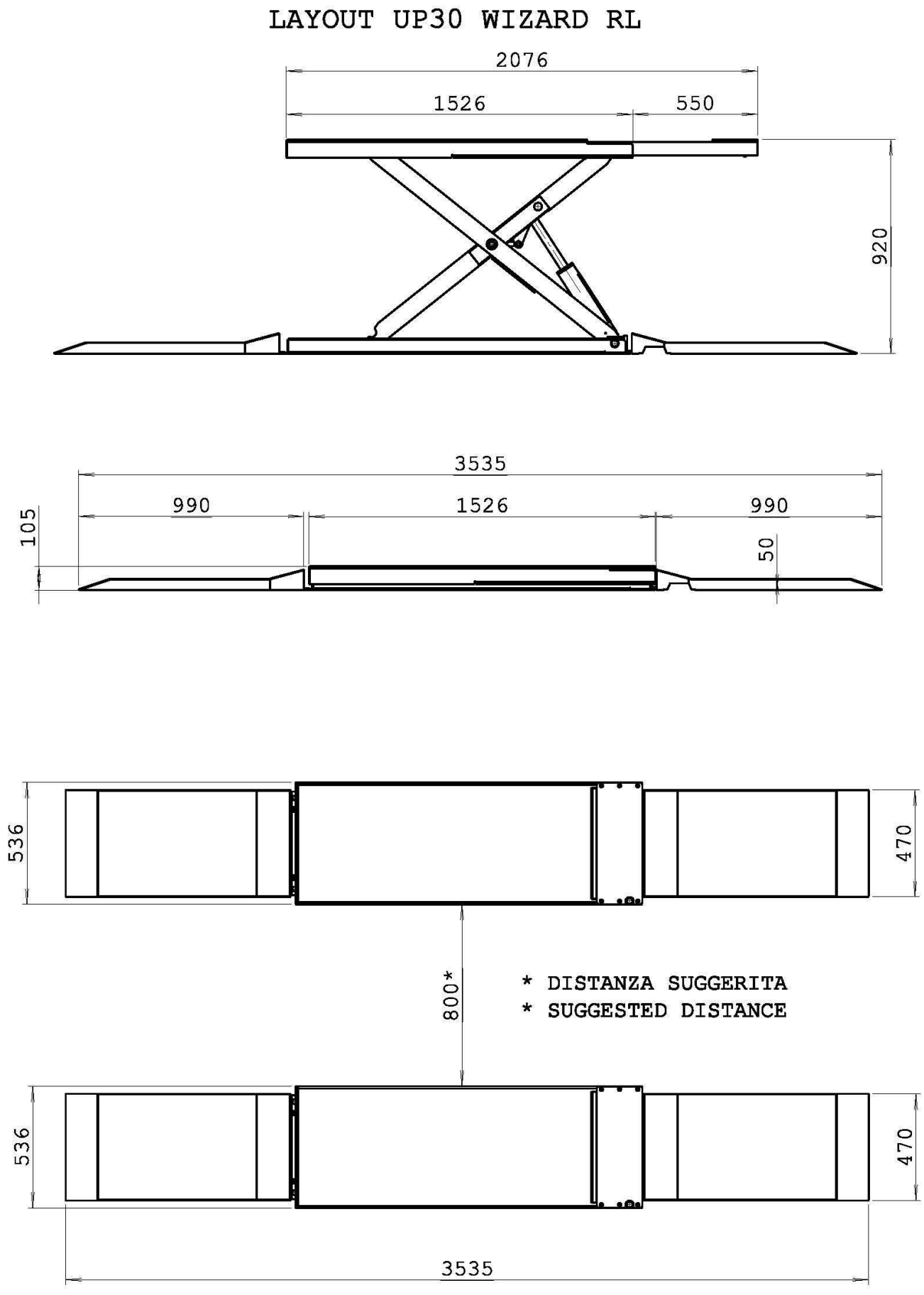


Pic. 6

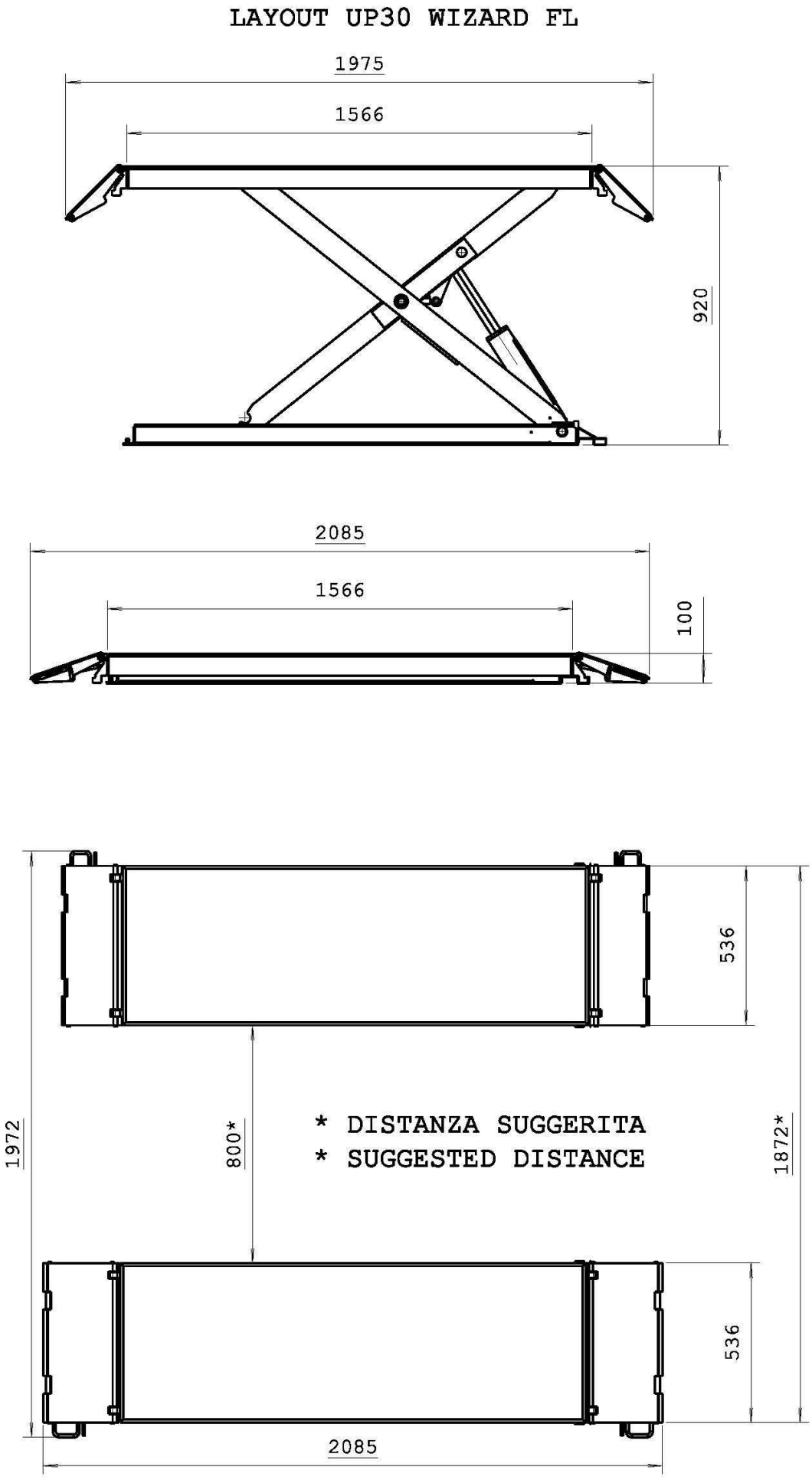
LAYOUT UP30 WIZARD RC



Pic. 6


LAYOUT UP30 WIZARD RL
2076
1526
550
920
3535
990
1526
990
105
50
536
470
800*
* DISTANZA SUGGERITA
* SUGGESTED DISTANCE
536
470
3535

Pic. 6


LAYOUT UP30 WIZARD FL
1975
1566
920
2085
1566
100
536
1972
800*
* DISTANZA SUGGERITA
* SUGGESTED DISTANCE
1872*
536
2085

Pic. 6

TECHNICAL DATA

- Operation : Electro-hydraulic.
- Capacity : 3000 Kg
- Weight : from 500 to 550 Kg
- Lifting time (±) : 20 s
- Lowering time (±) : 25 s
- Motor : 3ph 2,2 kW 220/380V 50Hz
- Motor (**optional**) : 1 ph 2,2 kW 220V 50 Hz
- Noise level : < 70dB(A)
- Working temperature : 0° / +40°
- Working max pressure : 250 bar
- Current : 5,3 A
- Current (**optional 1ph**) : 11 A

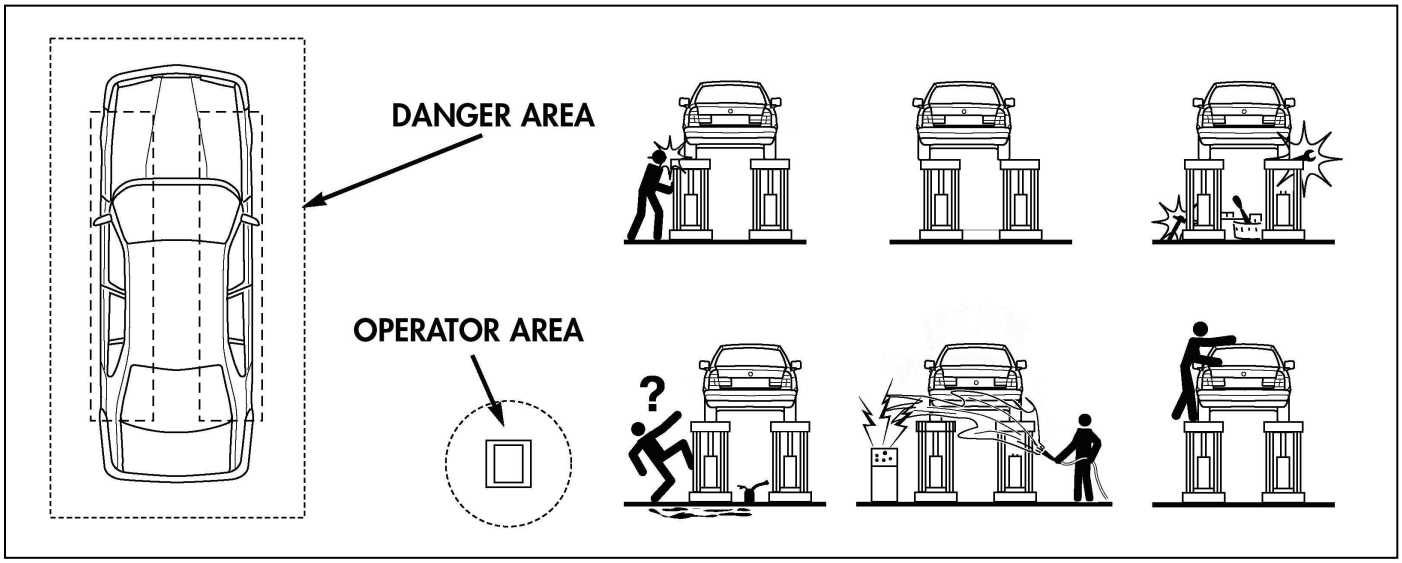
CHARACTERISTICS

- Low-voltage controls (24V).
- Hydraulic-volumetric synchronism.
- Hydraulic system equipped with safety mechanism in case of failure due to broken or cut tubes.
- Hand lowering device in case of power failure.
- Acoustic signal on descent.
- Platforms levelling control.

5. SAFETY

GENERAL RULES

Read this chapter carefully it contains important information concerning the safety of the operator. The operator and the maintenance personnel are required to observe the accident prevention legislation in force in the country of installation of the lift



Pic. 7

1. Operating the lift only by authorized person
2. During lifting or lowering operations, the lift must be operated only from the operator area as shown in the diagram **(pic. 7)**.
3. Standing or passing within the danger area when the lift is working or the vehicle is raised is strictly forbidden.
4. The operator must make sure the hazard area is clear when lifting or lowering the lift.
5. Never use the lift without protection or when safety devices are off-line.
6. Always use the rubber pads when lifting a vehicle, observing the proper points of support specified by the vehicle's manufacturer.
7. Switch off the engine and engage the parking brake after placing the vehicle on the car lift; Furthermore, disengage the gear lever and move it to the "neutral" position.
8. To prevent the vehicle from falling make sure it is properly placed on the lift.
9. Getting in or on the vehicle and-or starting the engine when the car lift is raised is strictly forbidden.
10. Never leave objects and-or obstructions under the vehicle or scattered on it during the lowering phase.
11. Keep the area under/next to the lift clear and remove possible oil spots to avoid the risk of slipping.
12. Never use water-steam-varnish-solvent jets in the lift area, and particularly, close to the control box.
13. Proper lighting is extremely important. Make sure all areas next to the car lift are well and uniformly lie, according to that specified by the applicable laws of the place of installation.
14. Climbing on the platforms or under the platforms when lifting the vehicle or when the same has been already raised is strictly forbidden.
15. Any use of the lift other than what herein specified can cause serious accidents to the operator as well as to the people in close proximity.
16. The tampering of safety devices is strictly forbidden.
17. Never exceed the maximum lifting capacity. Make sure the vehicles to be raised are without loads.
18. In case of anomaly, stop the car lift and block the on/off selector by using a padlock. Only skilled technicians should be allowed to restart the lift. Be sure the power supply is off before repairing and servicing the lift. The operator, the lift or the vehicles raised can be seriously damaged if these instruction are not followed.
19. Respect the complete operating instruction, in particular in case of anomalies.

SAFETY DEVICES:

ANTI-SHEARING SAFETY: The lift is equipped with a device that stops its lowering phase at 400 mm from the floor. To restart and close the lift release the lowering button (2) (**Pic.4)** and press it again. During the lowering phase, under 400 mm, the device will produce a warning acoustic signal (beep).

SAFETY VALVE FOR AUTOMATIC LOWERING CUT OUT: Parachute valves able to automatically lock a single or double-acting cylinder in case a sudden increase in velocity occurs. The valves are located inside the cylinders and prevent the load from falling down in case of sudden pipe bursting or cutting.

"HOLD TO RUN" CONTROL: The car lift is equipped with a "hold-to-run" control. Lowering and lifting operations are stopped immediately by releasing button controls.

DOUBLE-CIRCUIT HYDRAULIC SAFETY: The lift is equipped with a double hydraulic system working independently. Each separate circuit is able to hold but not to lift the whole rated load. This is to guarantee that the load can be held in position and lowered even in case of a faulty line, whereas lifting operations are not possible.

MASTER SWITCH: The master switch (4) (**Pic.4)** deactivates all functions; Padlock the switch to prevent unauthorized personnel from using the lift.

PLATFORMS LEVELLING CONTROL SYSTEM: Two intercepting micros check the position of the top hinge of cylinders; in case one of the cylinders is not intercepted, because some objects prevent one platform to lower, the lift automatically stops with max 20mm level variation between the two platforms. To reset the lift to normal working, raise the lift again, take the obstacles away and press the button again.

6. INSTALLATION

⚠ THE LIFT IS FOR INDOOR USAGE ONLY.

UNPACK THE GOODS AND CHECK FOR POSSIBLE DAMAGE BEFORE INSTALLING THE LIFT.

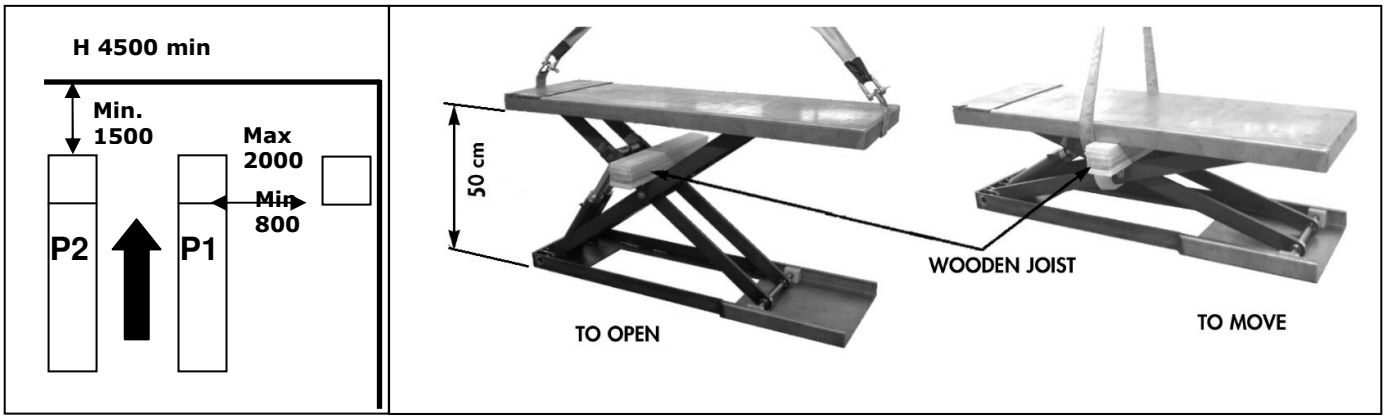
⚠ ONLY SKILLED TECHNICIANS, APPOINTED BY THE MANUFACTURER, OR BY AUTHORIZED DEALERS SHOULD BE ALLOWED TO INSTALL THE CAR LIFT. SERIOUS DAMAGE TO PEOPLE OR EQUIPMENT CAN BE CAUSED IF THIS RULE IS NOT FOLLOWED AND IN ANY CASE THE MANUFACTURER IS EXEMPT FROM RESPONSIBILITY.

The lift must be installed according to the specified safe distance from walls, columns, other equipments etc. The room must be a minimum 4500 mm. in height. The minimum distance from walls must be 1500 mm. take into consideration the necessary space to work easily. Further space for the control site and for possible runways in case of emergency is also necessary. (**pic. 8**).

INSTALLATION PROCEDURE

1. Lift location.
2. Check for power supply availability.
3. Hydraulic connections.
4. Electric network connection.
5. Concrete base and lift fixing.
6. Initial running.

LIFT LOCATION



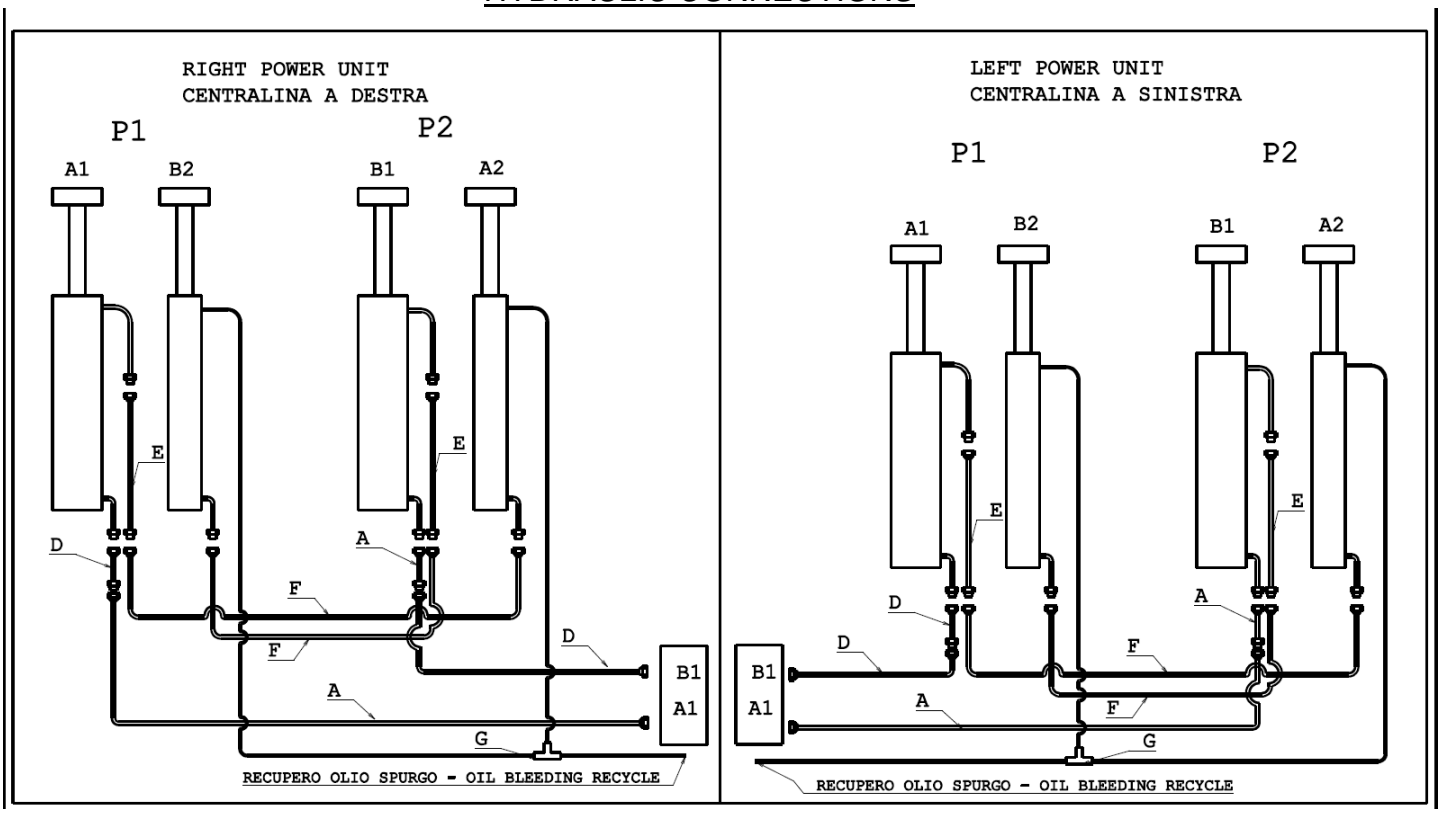
Pic. 8

Place the automotive lift using a crane truck or any other lifting equipment in the desired position. Raise (to open the lift) the two platforms using a crane, following the instructions in the **pic.8**, and place them at a height of about 50 cm. Insert a wooden shim to prevent the lift from closing during the slinging phase. To move the car lift, sling it as described in pic.8 and place it into the right position. Use metal shims to level the ground where necessary.

CHECK FOR POWER SUPPLY AVAILABILITY

The room must be previously arranged for the power supply of the lift. Make sure that supplies are not far from the power unit.

HYDRAULIC CONNECTIONS



Pic. 9a

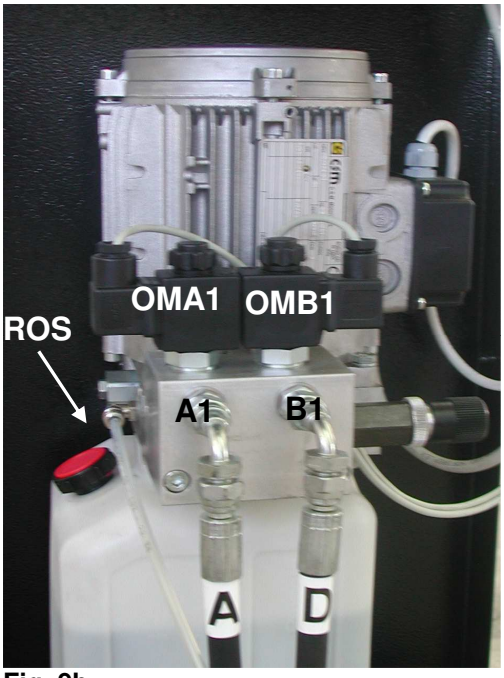


Fig. 9b

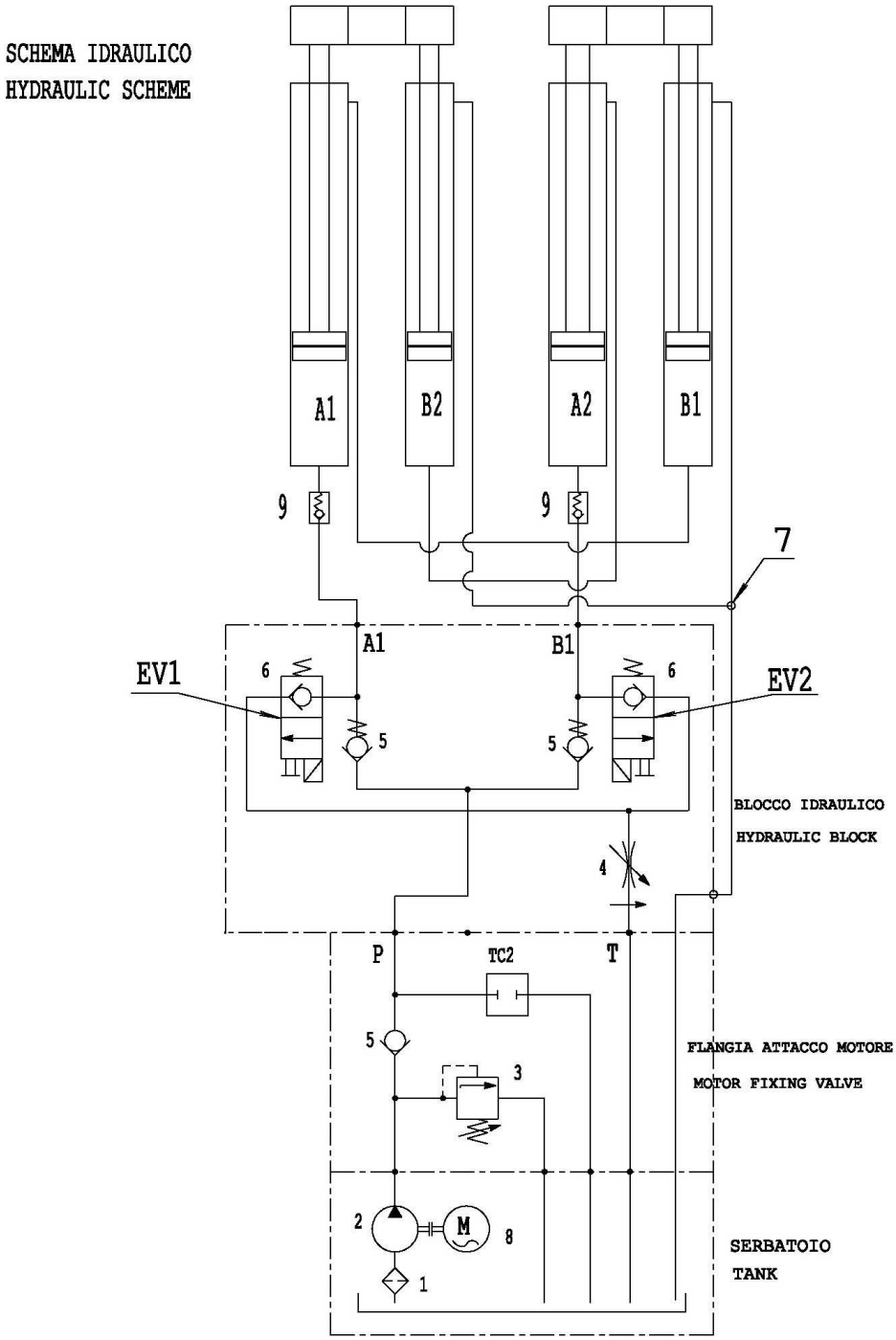
The hydraulic block is composed in that way (fig 9b):
A1 – Cylinder Input;
B1 – Cylinder Input;
OMA1 – Electrovalve EV1;
OMB1 – Electrovalve EV2;
ROS – Oil bleeding recycle

Power unit installation on the right:
You must be interlink hydraulic hose **A** (fig.9a) in the Input **A1** of the hydraulic block (fig.9b); hose **D** in the input **B1** of the hydraulic block.

POS.	CODICE	DESCRIZIONE
A	30UPW-4201 30UPW-4207	HoseR16T1/4L=4200 + HoseR16T1/4L=270
D	30UPW-4204 30UPW-4208	HoseR16T1/4L=2800 + HoseR16T1/4L=270
E	30UPW-4205	Hose (E)R16T1/4L=370
F	30UPW-4206	Hose (F)R16T1/4L=1600
G	04-2000	” T” air connection

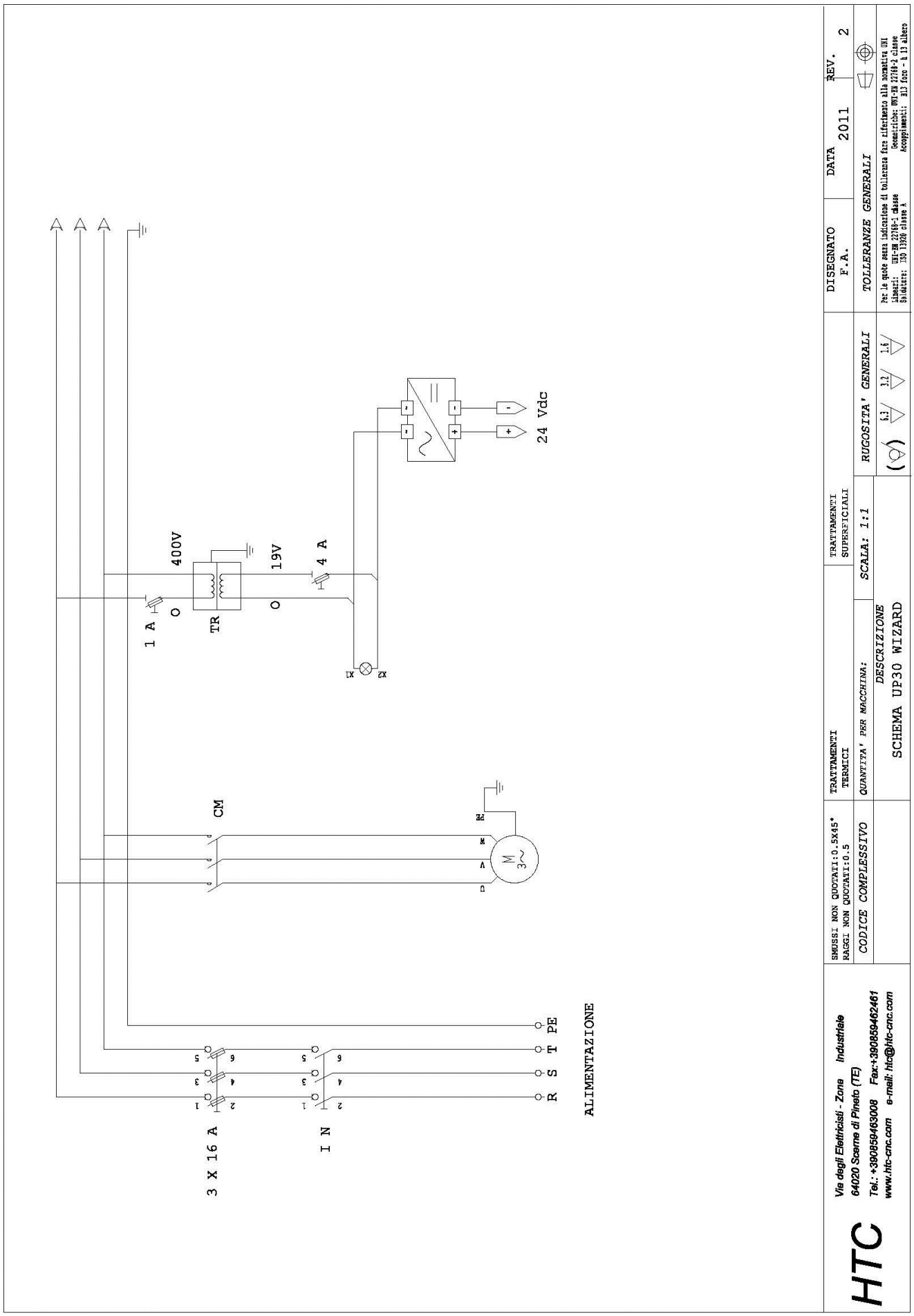
The hydraulic connections goes in the same way for the installation of the power unit mounted on the left, respecting the connection described on the picture above fig.9a .

HYDRAULIC SCHEME



Pic. 10

Pos.	Description
1	Suction filter
2	4,2 cc pump
3	250 bar full force valve
4	STF14 4 liter
5	Unidirectional valve
6	CE1-NC-EM electrovalve
7	Oil bleeding recycle
8	2,2 Kw 3-ph motor
9	Parachute valve ¼”


400V
1 A
TR
19V
4 A
24 Vdc
CM
ALIMENTAZIONE
R S T PE
I N
3 X 16 A
SCHEMA UP30 WIZARD
DISEGNATO F.A.
DATA 2011
REV. 2
TOLLERANZE GENERALI
RUGOSITA' GENERALI
SCALA: 1:1
TRATTAMENTI SUPERFICIALI
TRATTAMENTI TERMICI
SMUSSI NON QUOTATI:0.5X45°
RAGGI NON QUOTATI:0.5
CODICE COMPLESSIVO
QUANTITA' PER MACCHINA:
DESCRIZIONE
HTC
Via degli Elettricisti - Zona Industriale
64020 Scerne di Pineto (TE)
Tel.: +390859463008 Fax:+390859462461
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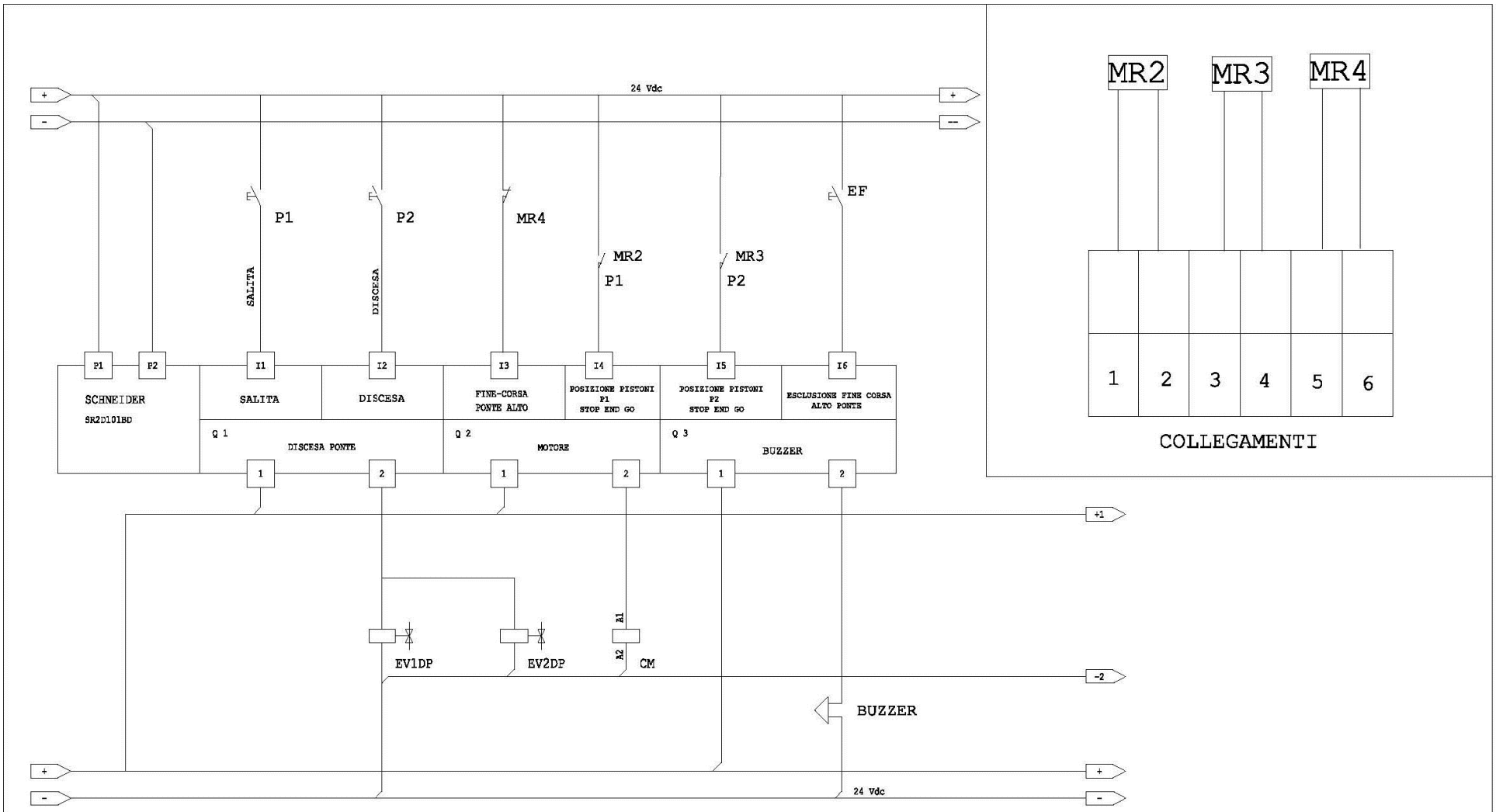
Pic. 11



EV1 EV2= ELETTROVALVOLA DISCESA PONTE
CM=CONTATTORE MOTORE

Pic. 11a

HTC Via degli Elettricisti - Zona Industriale 64020 Scerne di Pineto (TE) Tel.: +390859463008 Fax:+390859462461 www.htc-cnc.com e-mail: htc@htc-cnc.com	SMUSSI NON QUOTATI:0.5X45° RAGGI NON QUOTATI:0.5	TRATTAMENTI TERMICI	TRATTAMENTI SUPERFICIALI	DISEGNATO F.A.	DATA 2011 REV. 2
	CODICE COMPLESSIVO	QUANTITA' PER MACCHINA:	SCALA: 1:1	RUGOSITA' GENERALI	TOLLERANZE GENERALI
		DESCRIZIONE SCHEMA UP30 WIZARD		6.3 3.2 1.6	Per le quote senza indicazione di tolleranza fare riferimento alla normativa UNI Lineari: UNI-EN 22768-1 classe Geometriche: UNI-EN 22768-2 classe Saldature: ISO 13920 classe A Accoppiamenti: H13 foro - h 13 albero

IN	Main switch	**SALITA**	Lifting push button (UP)
CM	4Kw 24V DC Contactor	**DISCESA**	Lowering push button (DOWN)
TR	50VA 24V AC Transformer	**MR2**	P1 cylinder control micro
SR	Buzzer	**MR3**	P2 cylinder control micro
EV1	Electrovalve Line (A1)	**MR4**	End-stroke high micro
EV2	Electrovalve Line (B1)	**EF**	End-Stroke High Micro Exclusion

⚠ **Warning ! Only skilled personnel should be allowed to perform the operation shown below.**

Connect as follow: Open the control box front cover and using the terminals 18-20 (**pic.20**), connect the electric cable to the general switch cable (be sure that the cable passes trough the proper space located behind the control box). Before connecting the electric system, make sure that the power supply plant to the lift is equipped with the protection devices required by current standards in the country where the lift is installed.

⚠ Before accessing inside the control box, for connection to the power or for the repair of electric equipments breakdown, make sure that the main power supply is disconnected, to avoid the possibility of electrocution.

After setting up hydraulic and electric connections (**Pic. 9-10-11**), make sure that they are correctly made and that the two bases of the lift are perfectly parallel.

CONCRETE BASE AND LIFT FIXING

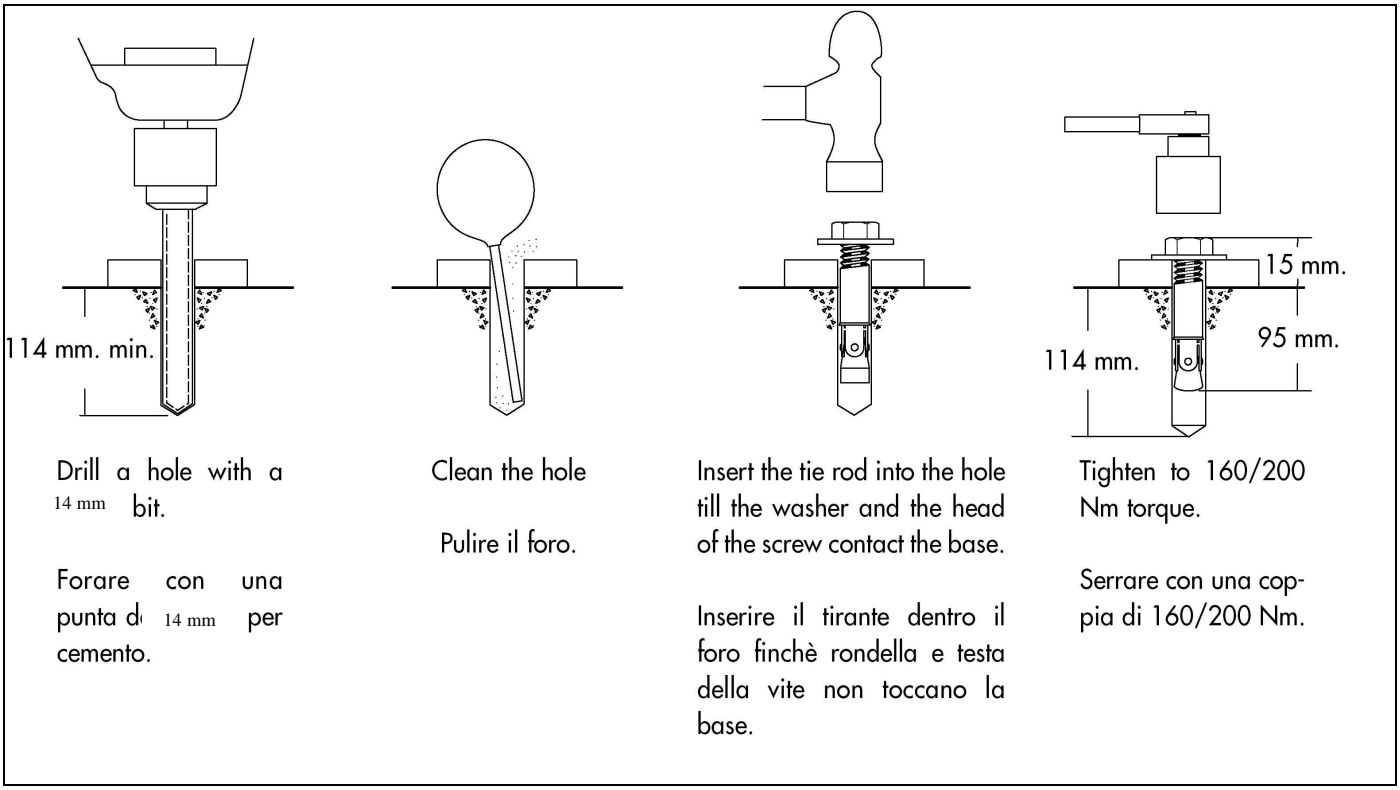
After checking that electric and hydraulic connections are properly made (**pic. 9-10-11**), make sure the two bases of the lift are levelled. The concrete floor must have a compression strength 20N/mm2 min. and a thickness 200mm min., to have 95mm min. anchorage depth. When using the standard M10x80 mm rods provided, the floor must be perfectly levelled. Drill four 14mm dia. holes per base in the concrete floor using the base holes as a guide.

- Concrete thickness required : 200mm
- Hole depth : 115mm
- Distance between holes and concrete base : 150mm.

Insert the tie rod into the hole till the washer and the head of the screw contact the base. Tighten the rods to a 40Nm torque. If the rods cannot bear the specified 40Nm torque, replace the concrete under the base with a reinforced concrete block having the following specifications:

- dimension: 2500mm x 2500mm 200mm (thickness).
- Strength : 25 N/mm^2
- lower reinforcing net : dia. 10mm / 20cm / 20cm.
- upper reinforcing net : dia. 10mm /20cm / 20cm. Steel
- improved adhesion steel : Fe B44K type

Level the surface. Let it harden before installing the lift.



Drill a hole with a 14 mm bit.

Forare con una punta d 14 mm per cemento.

Clean the hole

Pulire il foro.

Insert the tie rod into the hole till the washer and the head of the screw contact the base.

Inserire il tirante dentro il foro finchè rondella e testa della vite non toccano la base.

Tighten to 160/200 Nm torque.

Serrare con una coppia di 160/200 Nm.

Pic. 12

FIRST STARTING

At the starting of the lift, the installer and/or dealer must fill the 'Initial test' included in the manual and the user must be verify that such form is sent by fax to HTC Srl Unipersonale at the number +39 085 94624621.

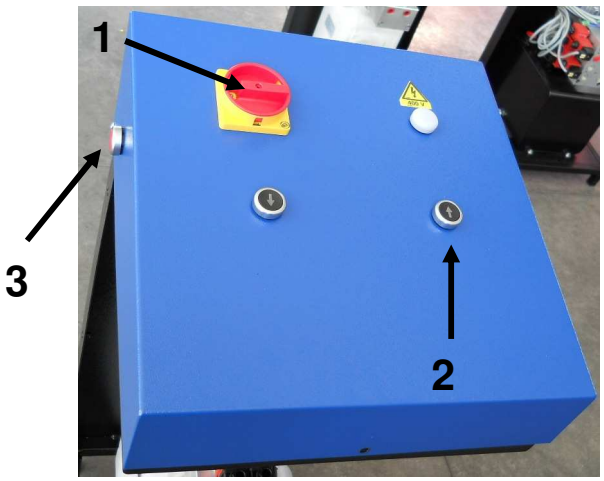
- **Warning! Only skilled and authorized personnel should be allowed to perform these operations only after they have followed a course at least of one day in our company for the assembly of the equipment.**
- **Carefully follow all instructions shown below to prevent possible damage to the car lift or risk of injury to people.**
- **Be sure that the operating area is cleared of people.**
- **Be sure that hydraulic pipes and electric wires, connecting control box with lift, are protected by mean of metallic carters. The carters must be supplied as o.e. with the lift.**

After positioning the lift as specified and performing electric and hydraulic connections, the lift can be operated by following the specific procedure. Open the front door of the control box and unscrew the oil tank cap add hydraulic oil with a grade of viscosity **32/46 CST** or equivalent **(Tank capacity: 9 litres – Requirement circuit: 12 litres)**.

NOTE: THESE OPERATIONS MUST BE PERFORMED WITHOUT LOADING

1. Put the main switch to position 1. (nr. 1)
2. Fill the tank with oil.
3. Verify that all the manual operators **(OMA1-OMB1)** are perfectly closed.
4. Push the lifting button until you reach the max height. If the lift doesn't move, check the motor: if it works, verify that it works in the right way – otherwise, invert the phases on the electric line.
5. Put enough oil in the tank to execute the bleeding procedure.
6. Push the ***EF*** button (end-stroke high micron excluxion nr. 3) that is located on the right side of the power unit (pic. 13) and keep pushed, contemporaneously push the raising button (nr. 2) as pulses of 2-3 seconds until the hydraulic circuit is full. When the oil levell in the tank is steady (that means that it not fall anymore), the procedure is completed. This operation let the self-bleeding of the cylinders and the self-levelling of the platforms.
7. After that operation, do some session of raising/lowering without load…if the lift is levelled the bleeding operation is completed. Otherwise repeat the operation at the point 6.
8. When you are sure that the lift is well aligned (maximal difference must be 1-2cm at the beginning/ending), you may proceed with the loading of the vehicles.

N.B.: IN TIME COULD HAPPEN AN UN-LEVELLING OF THE PLATFORMS DUE TO LITTLE OIL LEAK IN THE HYDRAULIC CIRCUIT. IN THIS CASE YOU HAVE TO REPEAT THE PROCEDURE AT THE POINT 6 **WITHOUT LOAD.**



Pic. 13

7. FIRST OPERATION

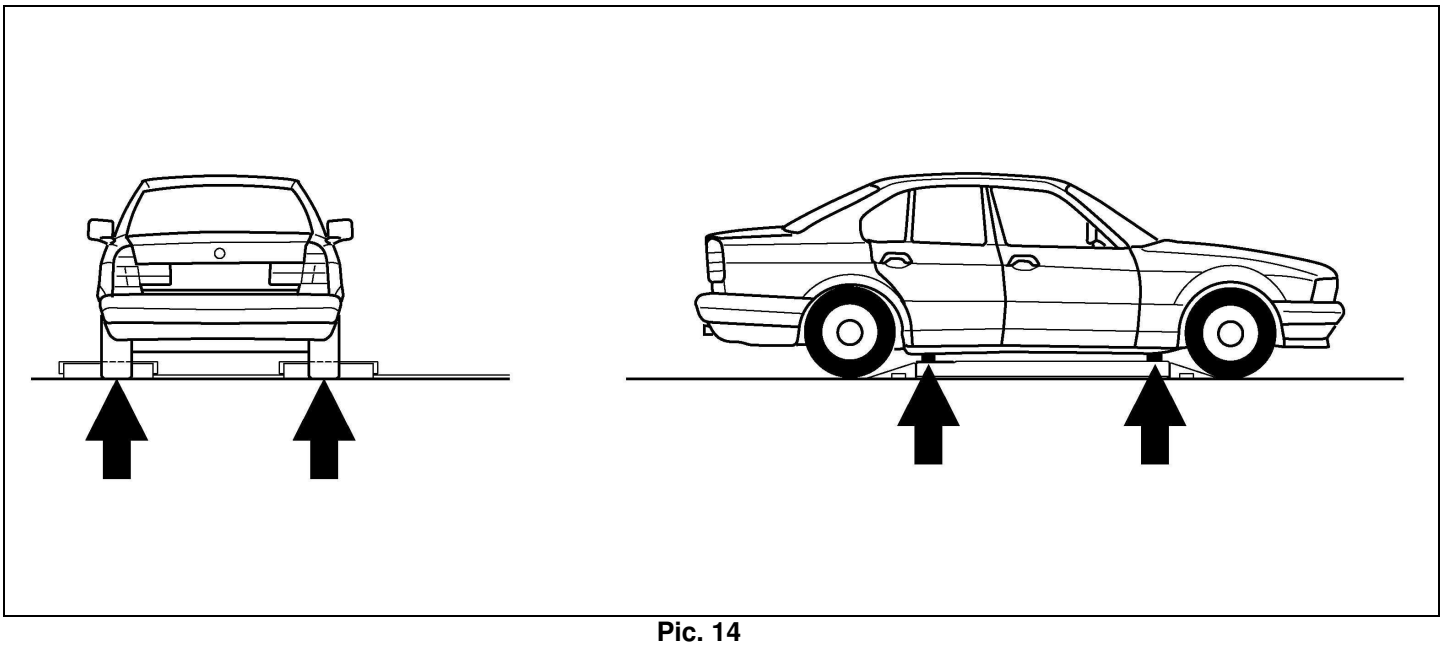
Be sure the platforms are fully closed before getting on/off the lift. Get in the vehicle and drive on the lift; be sure the vehicle is centred and both rear and front wheels are properly positioned, place the proper rubber pads on the platform **(pic. 14)** so that they are in line with the lifting points specified by the manufacturer.
Press the “lifting” button, keep it pressed until the required height is reached. To lower the lift, press the “lowering” button **(pic.4 - pos.2)**.
During the lowering phase, the lift will stop at about 400 mm height; start it again, release the lowering button and then press it again; from this position as far as complete closing, the lift will produce a safety acoustic signal.

During the first hours of operation cracking noises could occur. This is due to the natural settlement of mechanical parts and will disappear during the following hours of operation.

CHECKS

Perform the following checks when operating the car lift:

- **Carefully check the car lift and its load during lifting/lowering operation.**
- **Check the warning acoustic signal operation of the car lift during lowering phase.**
- **ATTENTION: When the lift is operating, the max pressure in the hydraulic pipes is 300 bar.**



Pic. 14

8. MAINTENANCE

WARNING! Only skilled and previously authorized personnel should be allowed to service the lift. When servicing the lift, all safety precautions must be followed to avoid accidental starting of the machine. The master switch must be padlocked in "**0**" position. The key should be kept by the maintenance technician throughout the service. During service operations, all safety instructions reported in chapter, "**SAFETY**", must always be followed.

P.N. Whenever a maintenance is made, all actions and settings must be reported on the proper modules and sent by fax at the number +39 085 9462461. If this procedure is not fulfilled the warranty will be invalidated.

PERIODIC MAINTENANCE:

Maintenance operations must be performed at each specified maintenance period in order to keep the car lift in perfect working condition. **The manufacturer is not liable for possible damage resulting from failure to follow the above instructions.**

- Car lift must be cleaned once a month, at least, without using chemical agents and high pressure washing guns.
- It is important to dauly verify that the chrome pistons shaft is clean and free from impurities that may damage it.

ATTENTION! Brake oil accidentally poured may damage lift paint. Carefully check that cylinders rods are not damaged since inside gaskets and seals could be seriously damaged and leakage of oil could occur.

- Check every 2 months safety devices for proper working condition, specially the operators **OMA1** – Electrovalve EV1, **OMB1** – Electrovalve EV2.

- Grease skates slide ways periodically.

- Check every 3 months flexible tubes for proper conditions.

- Change oil in the hydraulic system at least 3 year and anyway check if the oil has suffered alterations, check the level and if needed add some oil type OSO32/46; check that there aren't leaks where tubes are jointed and on the piston, check the efficiency of the seals and replace them if needed.

- Check that during operations there aren't abnormal noises. If happens check the origin anf that they cannot damage persons and the car lift.

Used oil drained from the system during oil change operations should be treated as a highly pollutant product. Always dispose of used oil as specified by the law in force in the country where the car lift is installed.

⚠ **ATTENTION!** Don't carry out any maintenance work on the hydraulic system under pressure! Before carrying controls, repairs and or maintenance, turn off the power and safety lock the main power switch in order to avoid any accidental ignitions of the car lift.

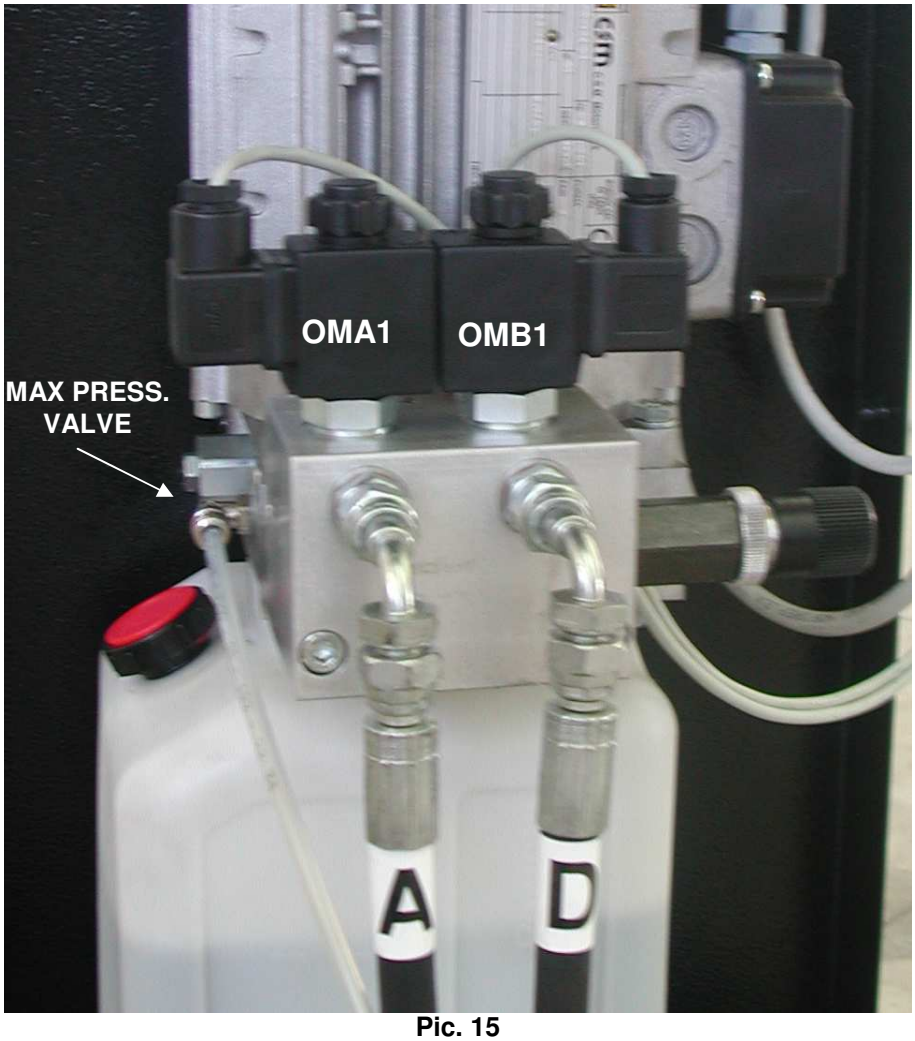
MACHINE DISPOSAL

When the machine must be disposal, all safety precautions specified in chapters "3" and "4" must be followed. Only authorized technicians should be allowed to perform this operation. Metallic parts can be scrapped as "scrap iron". In any case, demolished material must be eliminated according to the effective laws of the country where the car lift is installed. It must be remembered that, for fiscal purposes, any demolition operation must be properly documented as specified by the effective laws of the country where the lift is installed at the time of demolition.

9. TRUBLESHOOTING

TROUBLESHOOTING AND POSSIBLE REPAIRS REQUIRE ABSOLUTE COMPLIANCE WITH ALL SAFETY PRECAUTIONS INDICATED IN THIS “OPERATING INSTRUCTIONS” MANUAL.

EMERGENCY LOWERING



Pic. 15

If the car lift cannot perform lowering operations because of power supply interruption, faulty hydraulic valves or electric trouble in the system, the lift can be lowered manually. For manual lowering operation (emergency), perform the following:

- Make sure there are no obstacles blocking the lowering phase;

Remember that the car lift may not be lifted again to remove possible obstacles.

- Disconnect main power supply.
- Loosen the manual operators **OM A1 – OM B1 (pic.15)** half turn.
- Emergency lowering has started; speed can be increased or decreased according to the opening of screws.
- Constantly check the area around the car lift, and tighten the **OM A1 – OM B1** screws in case of danger or in case the lowering phase should be interrupted.
- During the manual lowering phase, the presence of the operator is required in close contact with the manual operators in order to ensure immediate closing of screws and blocking of the lowering in case of danger (if the operator were not close to the key, his reaction would not be immediate and this might cause damage to persons and equipment).

manual lowering (emergency) operations should be performed by authorized personnel, specially trained for operating the car lift, only.

TRUBLESHOOTING

SYMPTOM 1: The lifting button is pressed, the car lift does not move and the motor does not run.

POSSIBLE CAUSE	REMEDY
a) The main switch is off.	Check and activate.
b) Power supply is interrupted.	Check and activate.
c) The motor contactor is faulty.	Check the contactor coil operation and make sure it is activated when supplied with 24V.
d) Blown fuse on 24 volt power supply.	Check the fuse on the transformer and replace it if necessary.
e) Faulty transformer.	Check the input and output voltage of the transformer
f) The motor thermal switch is activated for overheating.	Wait for 10 minutes and try starting again; then, using a tester, make sure the contact is closed

SYMPTOM 2: The lifting button is pressed, the motor runs but the car lift does not move.

POSSIBLE CAUSE	REMEDY
a) Wrong rotation direction.	Switch the phase and that the motor turns in the direction indicated by the arrow..
b) The load to lift is too heavy, the **MAX PRESSURE** valve is discharged. **Pic. 15**	The lift is being used with an exceeding load, beyond the specified loading capacity.
c) The oil level in the tank is too low.	Check the oil level by using the specific cap/dipstick and refill.
d) One or both manual operators **(OM A1 – OM B1) (pic. 15)** on the hydraulic block are open.	Check and tighten the screws.
e) The lowering valve gaskets (OR) on the block are damaged or loose.	Check the gaskets and replace if necessary.
g) Oil filter is clogged.	Check and clean.
h) Faulty hydraulic pump.	Check that oil comes out from one of the A1-A2 outlets on the hydraulic block after disconnecting the corresponding pipe. Replace the pump if oil does not come out from the A1-A2 outlets.
i) Blocked cylinders .	Contact technical assistance.

SYMPTOM 3: The lowering button is pressed, the lift does not lower, instead produces a continuous warning signal

POSSIBLE CAUSE	REMEDY
a) Stop and go micro **MR1 (pic. 11)** damaged or improperly installed; wire cut or disconnected	Check connections and eventually replace micro if supposed damaged

SYMPTOM 4: The lowering button is pressed but the lift does not lower

POSSIBLE CAUSE	REMEDY
a) Make sure there are no obstacles blocking the lowering phase.	Remove the obstacle and carefully check the area before operating the lift.
b) Make sure the main switch is on and power supply is not interrupted.	Check and supply power to the car lift.
c) Blown fuses.	Check and replace the fuses on the electric card, on the transformer or on the electric supply after eliminating the cause of the short-circuit.
d) Faulty transformer.	Check the input and output voltage of the transformer.
e) Valve coils are faulty or not supplied.	Check whether valves are activated with 24V directed to the coils.
f) MR2/**MR3** micro **(pic. 11)** improperly installed, intercepted (activated) or damaged; wire cut or disconnected.	Check connections, check if there are elements intercepting the micro or replace it if supposed damaged.
g) Damaged or faulty valves.	Unscrew the valves on the hydraulic block one by one and make sure they move freely when supplied with 24 volt solenoids.
h) Damaged electric card	Check if relays of electro valves work; replace the electric card if supposed damaged.

SYMPTOM 5: The lift is closed but one of the two platforms is higher.

POSSIBLE CAUSE	REMEDY
a) Make sure there are no obstacles blocking the closing phase.	Remove the obstacle and carefully check the area before operating the lift.
b) Platforms are not levelled.	• Should this problem occur, check the car lift first, and check for oil leaks from cylinders or pipes. To level the platforms, do the operation at the point 6 page 18

10. ACCESSORIES

AVAILABLE ACCESSORIES: Set of tube extensions (2m). Rubber supports. T4B rubber pads. Special colours and cold galvanizing are available upon request.

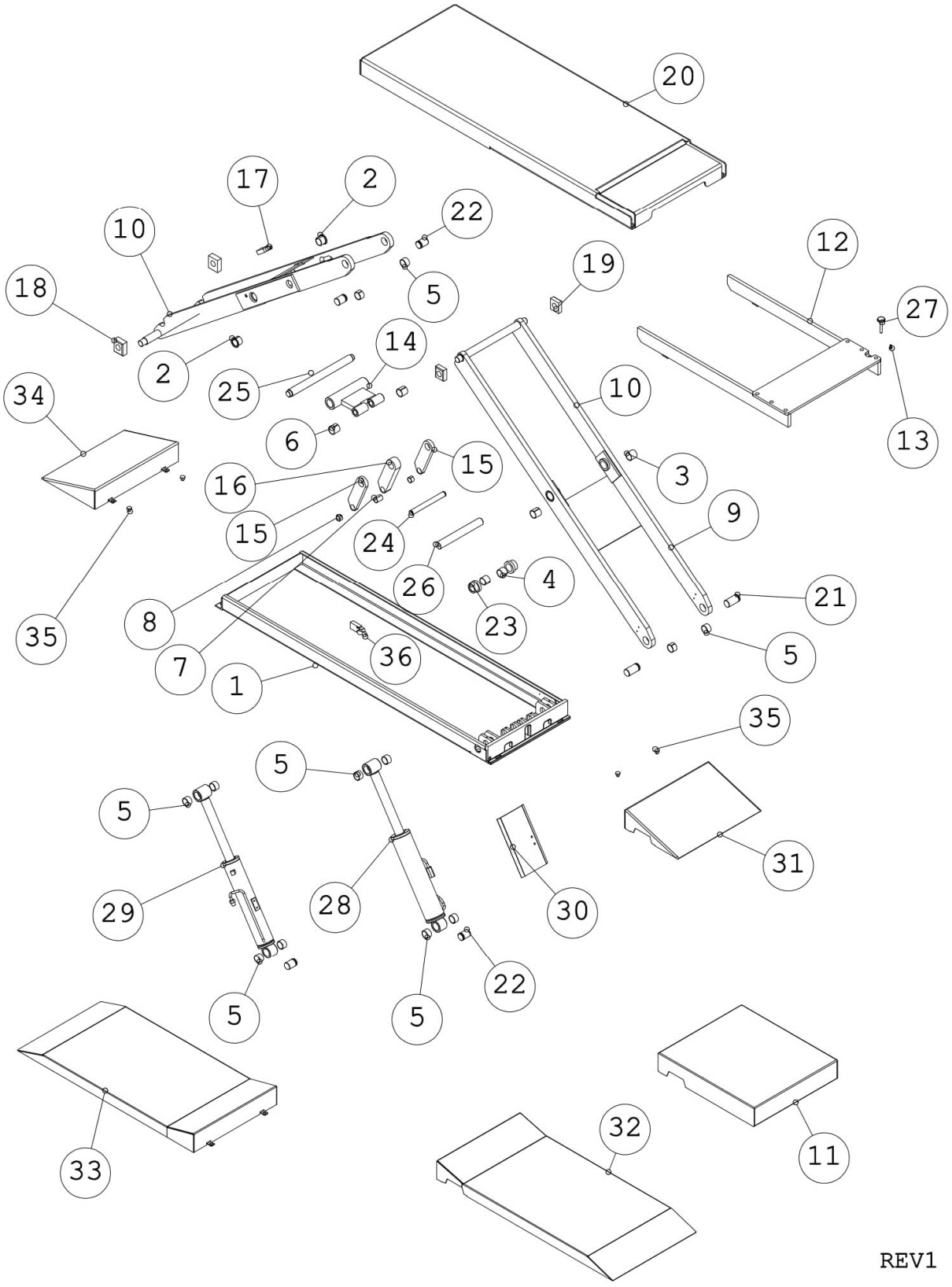
11. SPARE PARTS

SPARE PARTS REPLACEMENT AND REPAIR WORKS REQUIRE ABSOLUTE COMPLIANCE WITH ALL SAFETY PRECAUTIONS INDICATED IN THIS “OPERATING INSTRUCTIONS” MANUAL.

WHEN ORDERING SPARE PARTS THE FOLLOWING MUST BE CLEARLY SPECIFIED:

1. Car lift serial number and year of manufacturing .
2. Code of the part requested (Refer to the codes in the table).
3. Quantity needed.

SPARE PARTS MUST BE ORDERED DIRECTLY TO THE MANUFACTURER


30UP WIZARD
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REV1

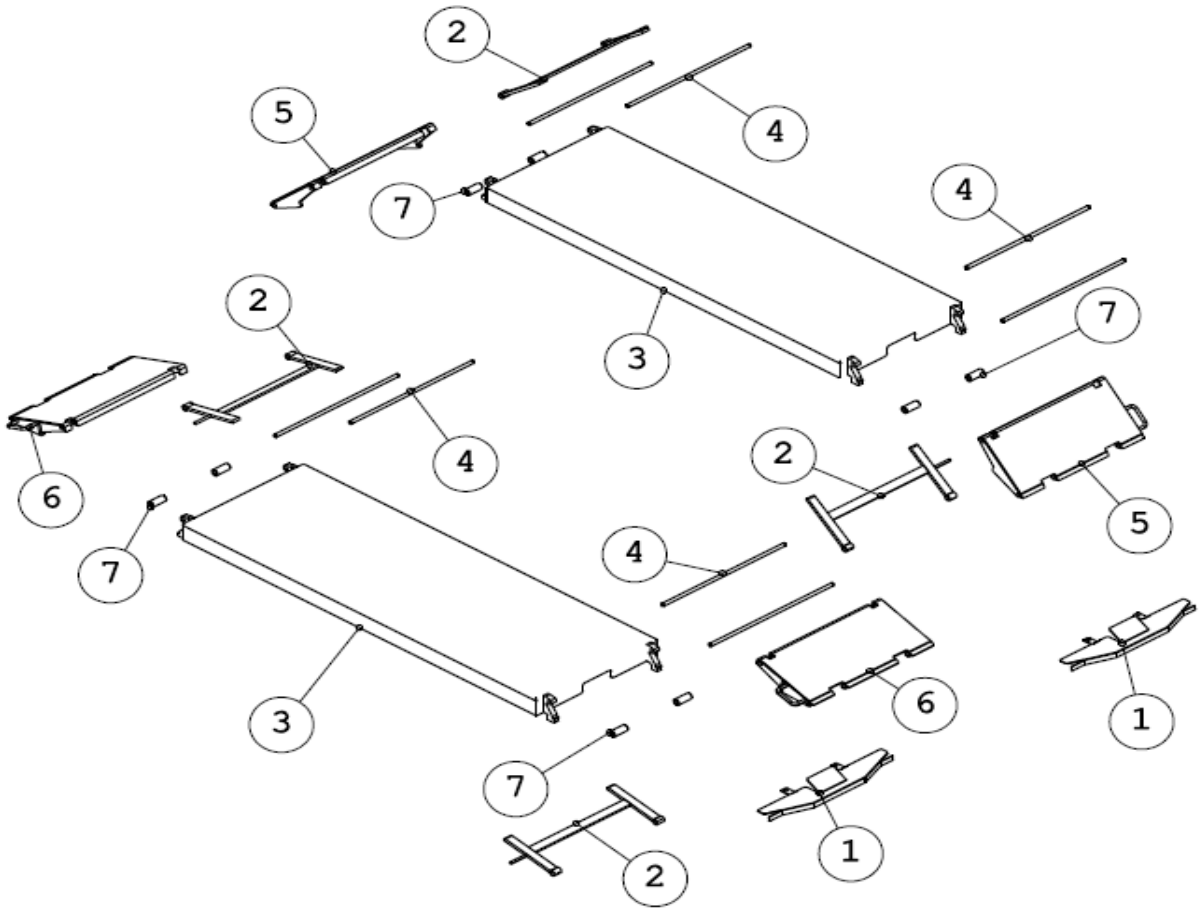
Pic. 16

30UP WIZARD

Posizione	Codice	Quantità	Descrizione
1	30UPW1000 BASE	2	BASE
2	BK1-30-26-F	4	BOCCOLE
3	BK1-30-30	4	BOCCOLE
4	BK1-30-25	4	BOCCOLE
5	BK1-30-20	24	BOCCOLE
6	BK1-30-30	4	BOCCOLE LEVA CENTRALE
7	BK1-20-30	2	BOCCOLE LEVE CENTRALI
8	BK1-20-15	4	BOCCOLE LEVE LATERALI
9	30UPW1200	2	BRACCIO ESTERNO
10	30UPW1100 REV1	2	BRACCIO INTERNO
11	30UPW1920	5	COPRISPAZIO
12	30UPW1510	2	ESTENSIONE
13	TCEI M-6X10 ZINCATO	2	ESTENSIONE
14	30UPW1600	8	LEVE
15	30UPW1610	4	LEVE
16	30UPW1620	2	LEVE
17	FF4512-2DN / NF B110FB-DC10	2	MICRO PISTONI + STOP ENDGO
18	30UPW1701	4	PATTINO BASE
19	30UPW1715	4	PATTINO PEDANA
20	30UPW1520	2	PEDANA
21	30UPW2006	4	PERNI
22	30UPW2004	8	PERNI
23	30UPW2000 REV1	4	PERNI
24	30UPW2002	2	PERNI
25	30UPW2003	2	PERNI
26	30UPW2001	2	PERNI
27	30UPW2005	2	PERNI
28	30UPW4000	2	PISTONE P1
29	30UPW4100	2	PISTONE P2
30	30UPW1800	2	PISTONI
31	30UPW1900	2	RAMPA ANTERIORE
32	30UPW1910	2	RAMPA LUNGA ANTERIORE
33	30UPW1911	2	RAMPA LUNGA POSTERIORE
34	30UPW1901	2	RAMPA POSTERIORE
35	TE M-10X10 ZINCATO	8	RAMPE
36	FF4552-2DN / NF B112KF-DC10	1	MICRO FINECORSA ALTO

REV1

30UP WIZARD FL



Posizione	Codice	Quantità	Descrizione
1	30UPW1000-10	2	COPRITUBO BASE
2	30UPW5001	4	FERMO PER RAMPETTA
3	30UPW1500	2	PEDANA CON FLAPS
4	30UPW5000-02	8	PERNO RAMPETTE
5	30UPW5000 DS	2	RAMPETTE
6	30UPW5000 SX	2	RAMPETTE
7	30UPW5000-09	8	RULLO RAMPETTA

Pos.	Code	Description	Q.ty
1	30UPW1000-10	BASE HOSE COVER	2
2	30UPW5001	RAMP STOP	4
3	30UPW1500	PLATFORM WITH FLAPS	2
4	30UPW5000-02	RAMPS PIN	8
5	30UPW5000 DS	RAMPS	2
6	30UPW5000 SX	RAMPS	2
7	30UPW5000-09	RAMPS ROLLER	8

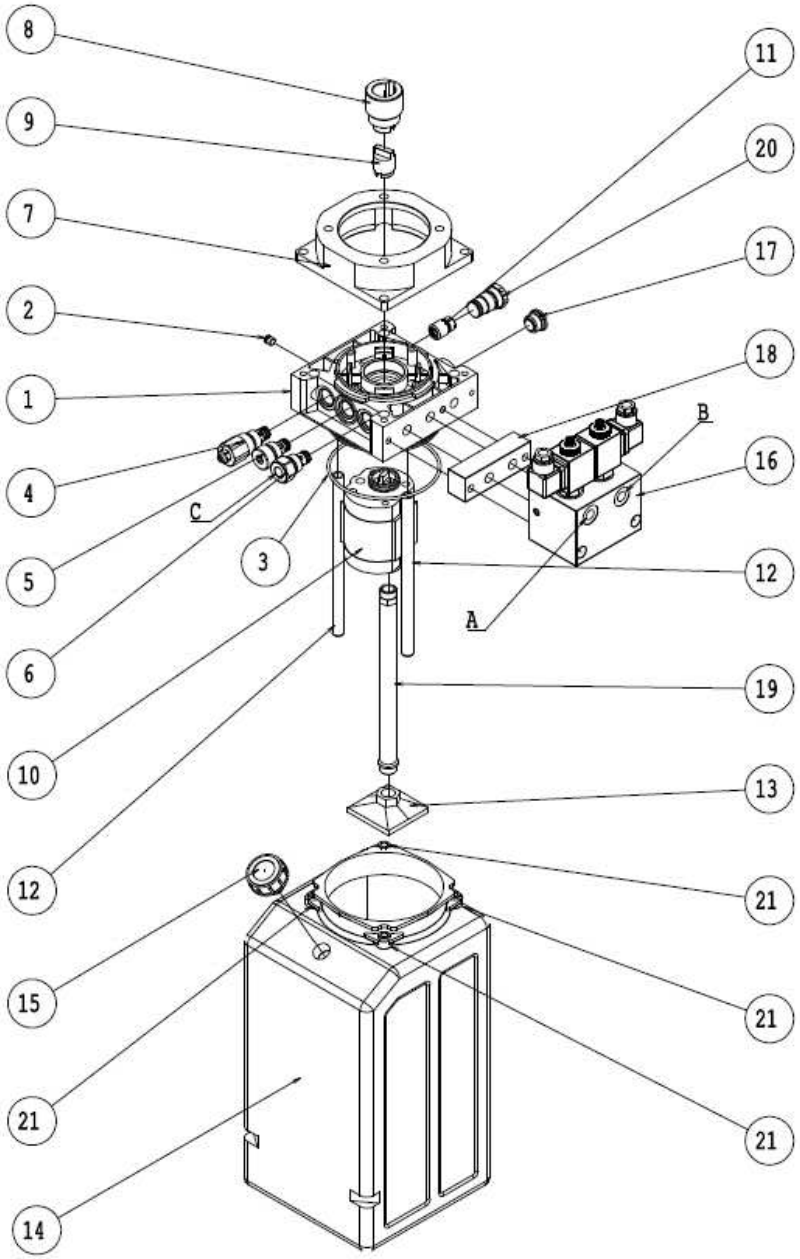


Tabella Distinta materiali

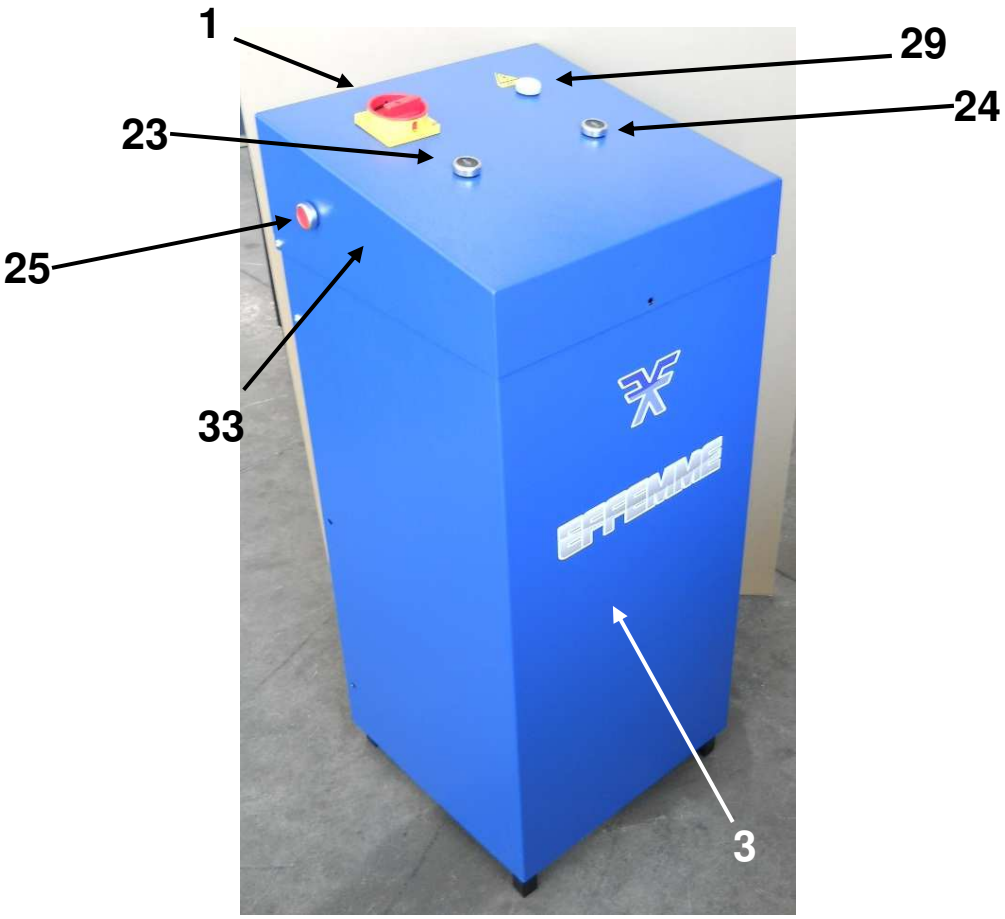
Num. articolo	Num. parte	DENOMINAZIONE	Quantità
1	S515G05KEL10	Collettore KEL10 (SU+VSC reg)	1
2	EC035M08	Tappo ad espansione a sfera Ø8	1
3	EC114611	Anello O-Ring NBR 70Sh. 112.00x3.00	1
4	F733006360	Valvola max VMC1 360 bar	1
5	F732005	Valvola unidirezionale VU1	1
6	F749002	TS1-Tappo 3/4-16UNF, Ø12.7 - att 1/4", Assiale	1
7	ES5072000008	Flangia x TR04 (KE-AC), MEC90	1
8	ES5085320014	Giunto x TR04 (KE-AC) MEC90	1
9	ES5085320013	Semigiunto x TR03-04-05 (KE-AC)	1
10	EC10914.20008	Pompa gr1 - 4,20cc - S - 302 SX	1
11	F746003	STP-Valvola start-up 3T	1
12	ES52301104	Tubo di scarico fe. M12x1 L200	2
13	ES5063500001	Filtro aspirazione polipropilene 3/8" BSPP	1
14	ES512036	Serbatoio pl. Lt 9 vert S315	1
15	EC12735001	Tappo sfiato carico olio 1/2"	1
16	F751019	Blocco con 2 rit, 2 VE, VRF 12 4LT	1
17	F749003	TC2-Tappo 3/4 - 16UNF, H=12,5	1
18	F451B92	Blocco Mod. B92 - Distanziale H=25	1
19	ES524AA230	8D230-Tubo di aspirazione pl. 3/8" L=230	1
20	F749005	TC4-Tappo x cavità STP, fiss. M10	1
21	ES4192000002	Dado speciale triang. M6	4

				MATERIALE		PESO (Gr.)
				COLORE		N° STAMPO
				TRATTAMENTO TERMICO E/O SUPERFICIALE		
				SOSTITUISCE IL	DATA	NOME
IND.	MODIFICA	DATA	NOME	SOSTITUITO DA	DATA	NOME
	DISEGNATO / CONTROLLATO / APPROVATO / VERIF. NORME			QUOTE SENZA INDIC. DI TOLLERANZA	SCALA	
DATA	13/09/2010 / 22/09/2010 / 21/09/2010				1:5	
FIRMA	F.Venzoni / F.Venzoni					

HTC

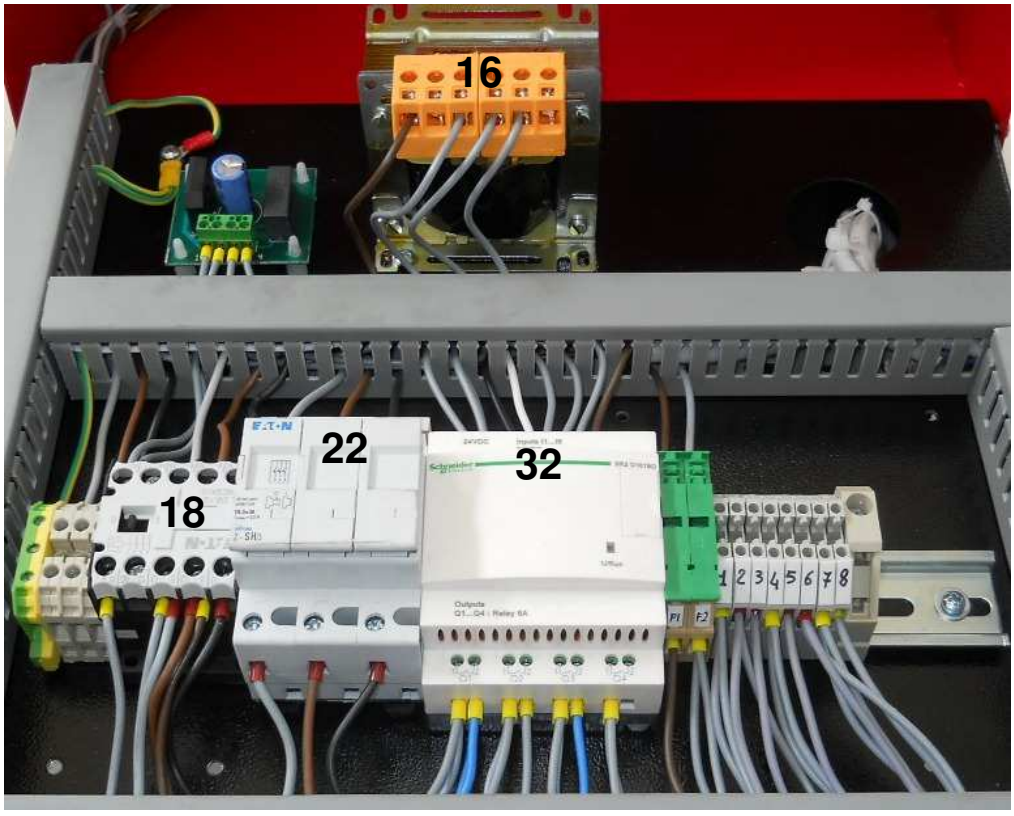
DENOMINAZIONE
Centralina idraulica x 411.80

GRUPPO | N° CODICE EF76268004 | REV. | FOGLIO Foglio1



Pic. 20 a

Pic. 20 b



Pos.	Code	Description	Q.ty
1	06-6000	MAIN SWITCH	1
3	30UP3000	CABINET	1
16	06-6002	TRANSFORMER 50VA 24 V	1
18	06-6004	CONTACTOR	1
22	06-6009	DIN GUIDE 3x32A FUSE HOLDER	1
23	06-6010	LIFTING PUSH BUTTON	1
24	06-6011	LOWERING PUSH BUTTON	1
29	06-6016	LIGHT	1
25	EF	EXCLUSION END STROKE MAX HEIGHT MICRO	1
32	PLC	PLC	1
33	30UP3002	TOP COVER	1

Pic.22
MR4 End stroke height micro

Pic. 23
P1 cylinder position sensing micro

Pic. 24
P2 cylinder position sensing micro

Connector	Pict.	Indic.	Part N.	Type	Description
JP 3	Pic. 22	MR4	06-5012	FF4552	End stroke height micro
JP 17	Pic. 23	MR2	06-5011	FF4512	P1 cylinder position sensing micro
JP 18	Pic.24	MR3	06-5011	FF4512	P2 cylinder position sensing micro

12. MAINTENANCE BOOK

INITIAL TEST

FILLING AND SENDING THIS FORM IS FONDAMENTAL FOR THE STARTING OF THE WARRANTY PROGRAM.

N.	Test description	YES	NO	Notes
1	Floor consistency check	☐	☐	☐
2	Safety distances check (from walls, columns, ceiling, other machines etc.)	☐	☐	☐
3	Power supply line check	☐	☐	☐
4	Lift levelling check	☐	☐	☐
5	Lift working check	☐	☐	☐
6	Loaded lift check	☐	☐	☐
7	Lift fixing check	☐	☐	☐
8	Oil level check	☐	☐	☐
9	Hydraulic failure check	☐	☐	☐
10	Operating and maintenance instructions	☐	☐	☐

Notes:

Stamp and signature for visioning the manual

Customer: **Stamp and signature:**

Installer:

Stamp and signature:

Date:	**Next test on:**

PERIODICAL OR OCCASIONAL INSPECTION

The tests results of inspections must be reported on the proper form 'Periodical or Occasional Inspection' included in the manual and sent by fax at the number +39 085 9462461.

N.	Test description	YES	NO	Notes
1	Lift maintenance and cleaning check	☐	☐	☐
2	Oil level check	☐	☐	☐
3	Skates slideways greasing	☐	☐	☐
4	Moveable parts greasing	☐	☐	☐
5	High pressure flexible pipes check	☐	☐	☐
6	Accidental oil leaks from hydraulic circuit check	☐	☐	☐
7	Lift levelling check	☐	☐	☐
8	Loaded lift check	☐	☐	☐

Notes:

MODEL OF THE LIFT:

SERIAL NUMBER:

Result of visit: **Positive** ☐ **Negative** ☐

Customer:

Stamp and signature:

Performer:

Stamp and signature:

Date:	**Next test on:**

PERIODICAL OR OCCASIONAL INSPECTION

The tests results of inspections must be reported on the proper form 'Periodical or Occasional Inspection' included in the manual and sent by fax at the number +39 085 9462461.

N.	Test description	YES	NO	Notes
1	Lift maintenance and cleaning check	☐	☐	☐
2	Oil level check	☐	☐	☐
3	Skates slideways greasing	☐	☐	☐
4	Moveable parts greasing	☐	☐	☐
5	High pressure flexible pipes check	☐	☐	☐
6	Accidental oil leaks from hydraulic circuit check	☐	☐	☐
7	Lift levelling check	☐	☐	☐
8	Loaded lift check	☐	☐	☐

Notes:

MODEL OF THE LIFT:

SERIAL NUMBER:

Result of visit: **Positive** ☐

Negative ☐

Customer:

Stamp and signature:

Performer:

Stamp and signature:

Date:	**Next test on:**

TEST TO BE MADE BY USER

The tests results of inspections must be reported on the proper form 'Periodical or Occasional Inspection' included in the manual and sent by fax at the number +39 085 9462461.

TESTS DURING USE

N.	Test description
1	Lift levelling check
2	Accidental oil leaks from hydraulic circuit check
3	Safety devices working check

MONTHLY TESTS

N.	Test description
1	Lift through cleaning
2	Skates slideways greasing
3	Cylinders air bleeding (if necessary)
4	Hydraulic circuit balancing (if necessary)

HALF-YEARLY TESTS

N.	Test description
1	Oil level check
1	High pressure flexible pipes check

IN CASE OF ANOMALOUS BEHAVIOUR, STOP THE LIFT AND CONTACT IMMEDIATELY OUR SERVICE DEPARTMENT.

MODEL OF THE LIFT: **SERIAL NUMBER:**	
Failure:	
Action:	
Date:	**Stamp and signature:**

13. GUARANTEE

HTC lifts has a 60 months warranty on mechanical parts, starting from HTC s.r.l. Unipersonale invoice date. During the warranty period, in case of manufacturing detects on materials, HTC s.r.l. Unipersonale will replace them at its own expense. (shipping costs are not included). Hydraulic parts has 1 year warranty that will be recognized after our authorization and after a complete documentation on the defect.
Labor costs and traveling costs for technicians are not included.
If required, all laboratory and technical costs for any analysis to determine the cause of the defect will be charged to the customer.
Electric and electronic parts are not included in the warranty program due to impossibility to determine the cause of the defect (power surge, strike, ect….)
The Dealer/customer must verify during the unloading of the material the integrity and correct quantity of the products and verify that it is compliant with the shipping documents. Damaged and/or missing parts must be noticed to HTS s.r.l within 7 days from the arrival date.
The installer and/or dealer must verify the installation and the customer must verify that the report "initial test" found in the manual is sent to HTC within 3 days from the installation in order to activate the warranty.
The warranty is void if one of the mentioned procedure listed on the manual are not complied.
The warranty does not include the periodical and/or occasional inspection of the lift, the damages caused by external events, malfunctioning due to a wrong installation and/or use of the lift.
Warranty is void for sales and/or improper use from those indicated by the manufacturer.
HTC s.r.l. is not responsible for damages and consequences deriving from an improper use of the lift, including damages occurred during the malfunctioning of the product.
The following "warranty terms" are accepted integrally starting from the return of the "initial test".

In case of dispute, the jurisdiction is TERAMO (Italy).