VEICHLE LIFT

TYRON 30

USE AND MAINTNANCE MANUAL

ENGLISH

TRASLATION FROM THE ORIGINAL TEXT

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

DICHIARAZIONE CE DI CONFORMITA'

AI SENSI DELLA DIRETTIVA 2006 / 42 / CE

NOI:

ALLEGRI PIERINO

VIA TRASSEGNO, 22 – 36045 LONIGO – VICENZA – ITALY

DICHIARIAMO SOTTO LA NOSTRA ESCLUSIVA RESPONSABILITA' CHE LA MACCHINA DENOMINATA:

SOLLEVATORE PER VEICOLI

TIPO	*MODELLO*	*NUMERO DI SERIE*
TYRON 30		A170[illegible]0

AL QUALE QUESTA DICHIARAZIONE SI RIFERISCE E' CONFORME AI REQUISITI ESSENZIALI DI SICUREZZA E SALUTE PREVISTI DELL'ALLEGATO I DELLA DIRETTIVA 2006/42/CE ED AI SEGUENTI DISPOSIZIONI LEGISLATIVE E NORME ARMONIZZATE DI PRODOTTO:

- **DIRECTIVE 2006/42/CE (SAFETY OF MACHINERY)**
- **DIRECTIVE 2014/30/UE (ELECTROMAGNETIC COMPATIBILITY)**
- **EN 2014/35/UE (LOW VOLTAGE DIRECTIVE)**
- **EN 1493: 2010 (VEHICLE LIFT)**

DICHIARA INOLTRE CHE LA MACCHINA É STATA OGGETTO DI CERTIFICAZIONE DI TIPO (ALLEGATO IX DIRETTIVA MACCHINE 2006/42/CE) DA PARTE DELL'ORGANISMO NOTIFICATO:

ENTE CERTIFICAZIONE MACCHINE S.R.L
VIA CA' BELLA, N°243
40053 VALSAMOGGIA, CASTELLO DI SERRAVALLE
BOLOGNA (ITALIA)

ORGANISMO NOTIFICATO N° 1282

FASCICOLO: **ECM-2017-734**

ALLEGRI PIERINO
Sig. Allegri Pierino
Presidente

Lonigo, (Vicenza) , lì la data:

(Il legale rappresentante)

L' apparecchiatura rientra nell'elenco delle macchine dell'allegato IV della direttiva 2006 / 42 / CE. La macchina è costruita conformemente alla norma armonizzata EN 1493: 2010, di cui all'art. 7, paragrafo 2. Per la verifica della conformità il fabbricante ha utilizzato la procedura indicata all'articolo 12, paragrafo 3, lettera a, con controllo interno sulla fabbricazione di cui all'allegato VII – Parte A, viene conservato per dieci anni dalla data di emissione della presente dichiarazione e sarà reso disponibile dal Sig. Pierino Allegri eletto domicilio c/o Pierino Allegri. a Lonigo (Vicenza) in via Trassegno, 22 a seguito di una domanda motivata dell'organo di vigilanza nazionale

APPLICARE COPIA DELL' ADESIVA CE CON I DATI DEL SOLLEVATORE

APPLY COPY OF 'CE ADHESIVE WITH LIFT DATA

ALLEGRI

CE

SOLLEVATORE PER VEICOLI

N° DI SERIE: **00000000**	
MODELLO:	TENSIONE V:
CAPACITY Kg:	FREQUENZA Hz:
ANNO:	PRESSIONE bar:
POTENZA kW:	ASSORBIMENTO A:

THE MACHINE DESCRIBED IN THIS MANUAL REFERS TO THE FOLLOWING SERIES:
TYRON 30

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.

WARRANTY

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. All electrical parts are excluded. 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.
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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 this user's manual are not complied with.

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

INDICE / CONTENT

1.0 DATI TECNICI / THECNICAL DATA

		UNIVERSAL 35
Max capacity	Kg	3000
Raising time	sec.	22
Lowering time	sec.	28
Min.useful height	mm	105
Max. useful height	mm	1000
Runway dimensions	mm	1420x 555
Runway dimensions with extensions	mm	1950 x 555
Lift length on the ground.	mm	1850
Lift total width	mm	1950
Three-phase motor power	Volt-Hz-Amp Volt- Hz-Amp	230 / 400 - 50 - 12.8 / 7.4 230 / 400 - 60 - 10.5 / 7.1
Three-phase motor power	kW / HP	2,2 / 3
4-pole, single-phase electric motor	Volt- Hz-Amp	230 - 50 - 15.9
Single-phase motor power	KW / HP	2.6/3.2
Max. operating hydraulic pressure	bar (MPa)	340 / 34
Controls circuit voltage	Volt	24
Weight of a complete platform - runway	Kg	180
Packed lift total weight	Kg	400
Weight of one control unit	Kg	40
Recommended hydraulic oil		ESSO NUTO H32 o equivalente (ISO VG32)
Hydraulic system oil quantity	l	8
Floor-mounting	TIPO	HILTI HLC-H 10x80 o equivalenti (N° 8 PEZZI)
Sound level (EN ISO 3746)		
Average weighed sound level LpAm	dB(A)	63,6
Average sound level at the operator's workstation LpA	dB(A)	64,6
Acoustic power LwA	dB(A)	81,6

1.1 DESCRIZIONE DEL PONTE / DESCRIPTION OF THE LIFT

1-base
2- Runway
3- Parallelogram
4- Extension
5- Rubber pad
6- Hydraulic cylinder
7- control box
8- Switch / emergency
9- Up button
10- Down button
11- Voltage warning light
12- Buzzer
13- Identification plate
14- Use instructions plate
15-Pipe covers
16- logo

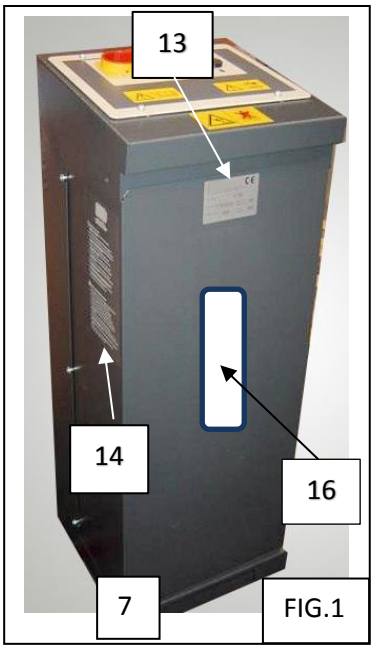


FIG.1

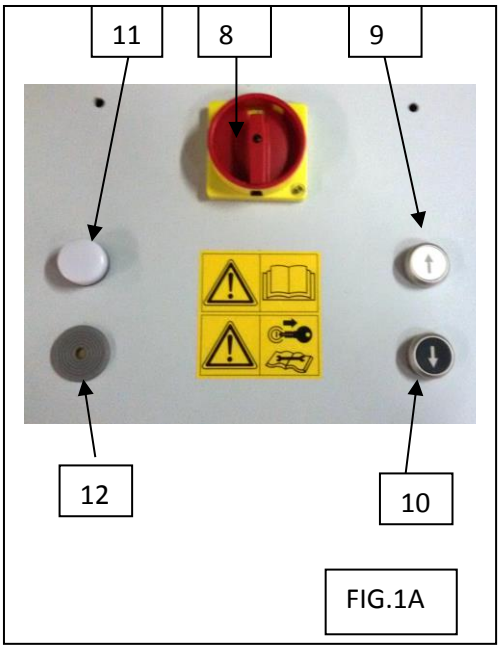


FIG.1A

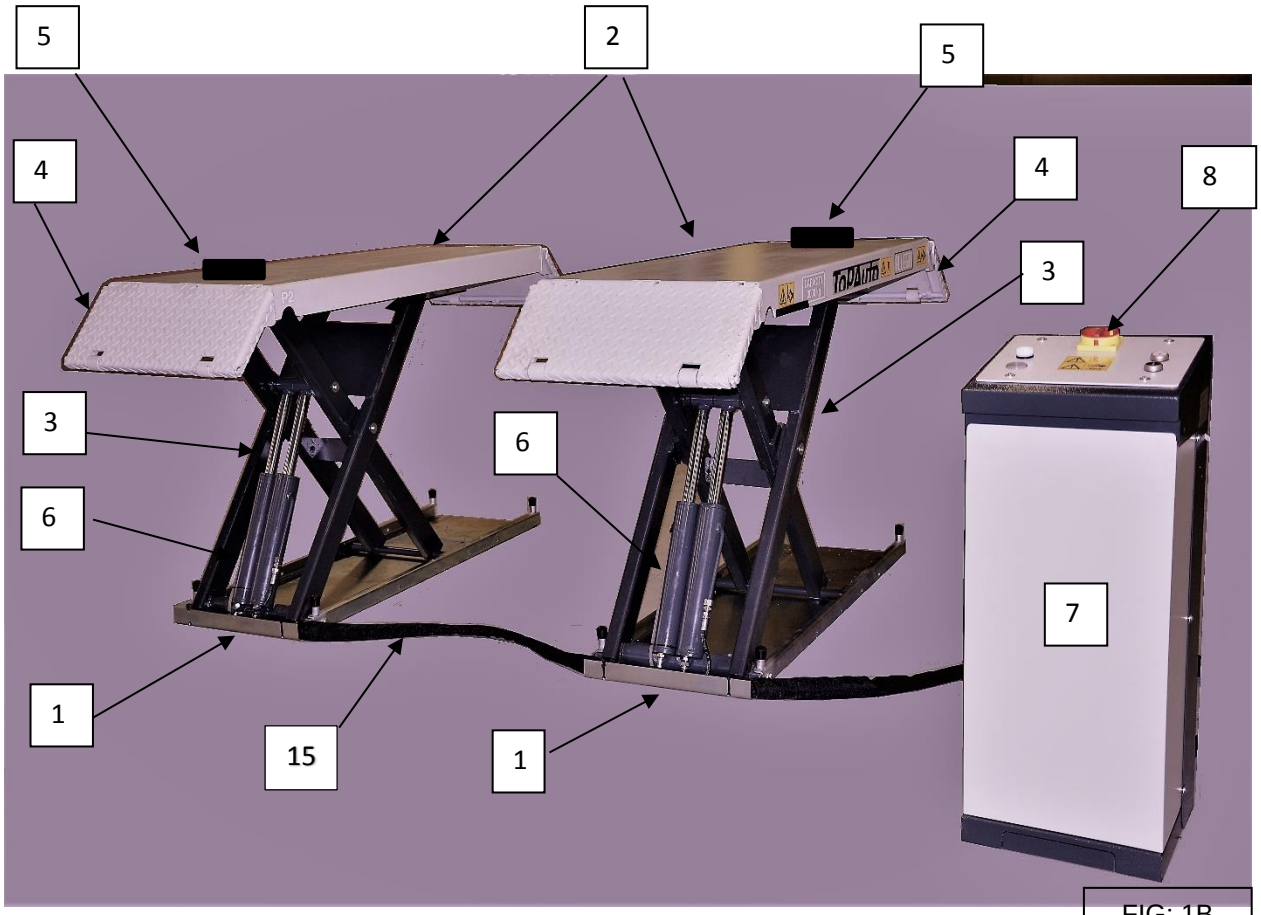


FIG: 1B

1.2 DIMENSIONI DI INGOMBRO / OVERALL DIMENSIONS

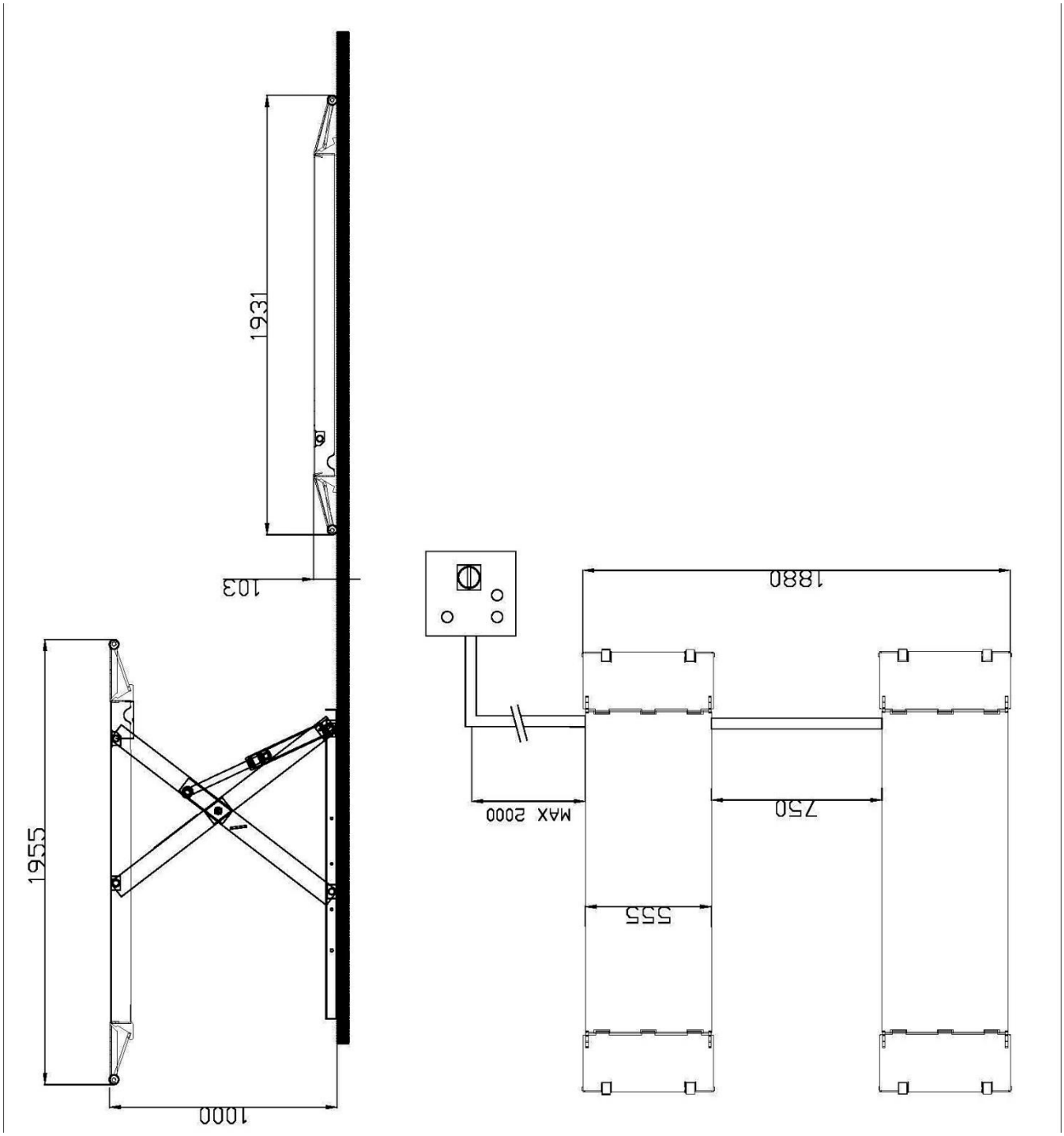


FIG. 2

LOAD CONDITION CORRISPONDIG TO LOAD TEST PERFORMED DURING TYPE TEST OMOLOGATION

1.3 DISPOSIZIONE DEI CARICHI / PROVISION OF LOADS

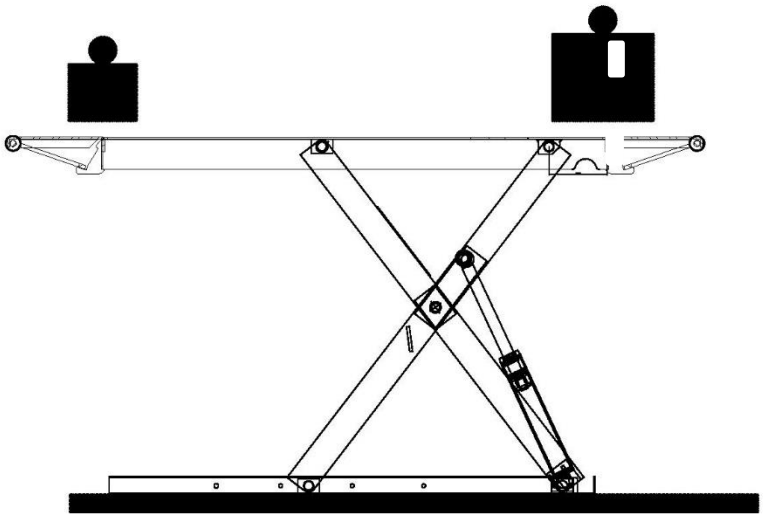
Requed loads recommended

DISPOSIZIONE DEI CARICHI CONSIGLIATI

Q = CAPACITY 3000 KG

Q2 = 2/5 di Q = 1200 Kg

Q1 = 3/5 d Q = 1800 Kg



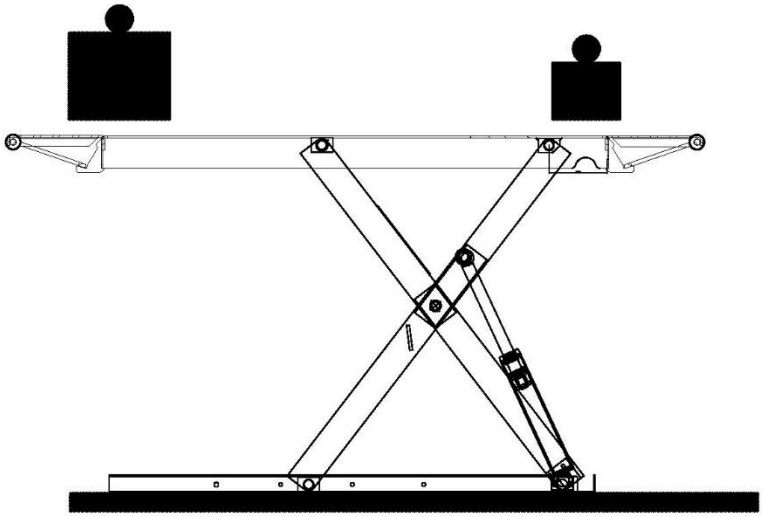
Provision of loads possible

DISPOSIZIONE DEI CARICHI POSSIBILI

CAPACITY 3000 KG

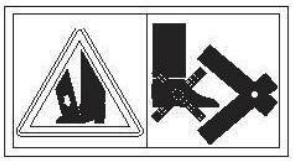
Q1 = 3/5 di Q = 1800 Kg

Q2 = 2/5 di Q = 1200 Kg

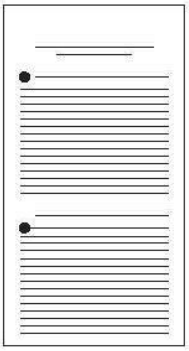


1.4 PITTOGRAMMI / *PICTOGRAMS*

1 - 2



4



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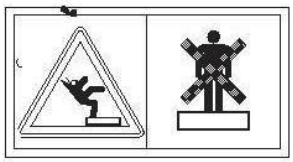
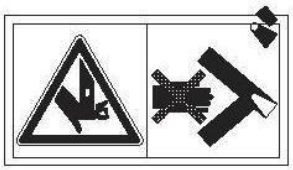


3



5

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Fig. 5

1.5 SCHEMA APPLICAZIONE PITTOGRAMMI / *PICTOGRAMS APPLICATION DIAGRAM*

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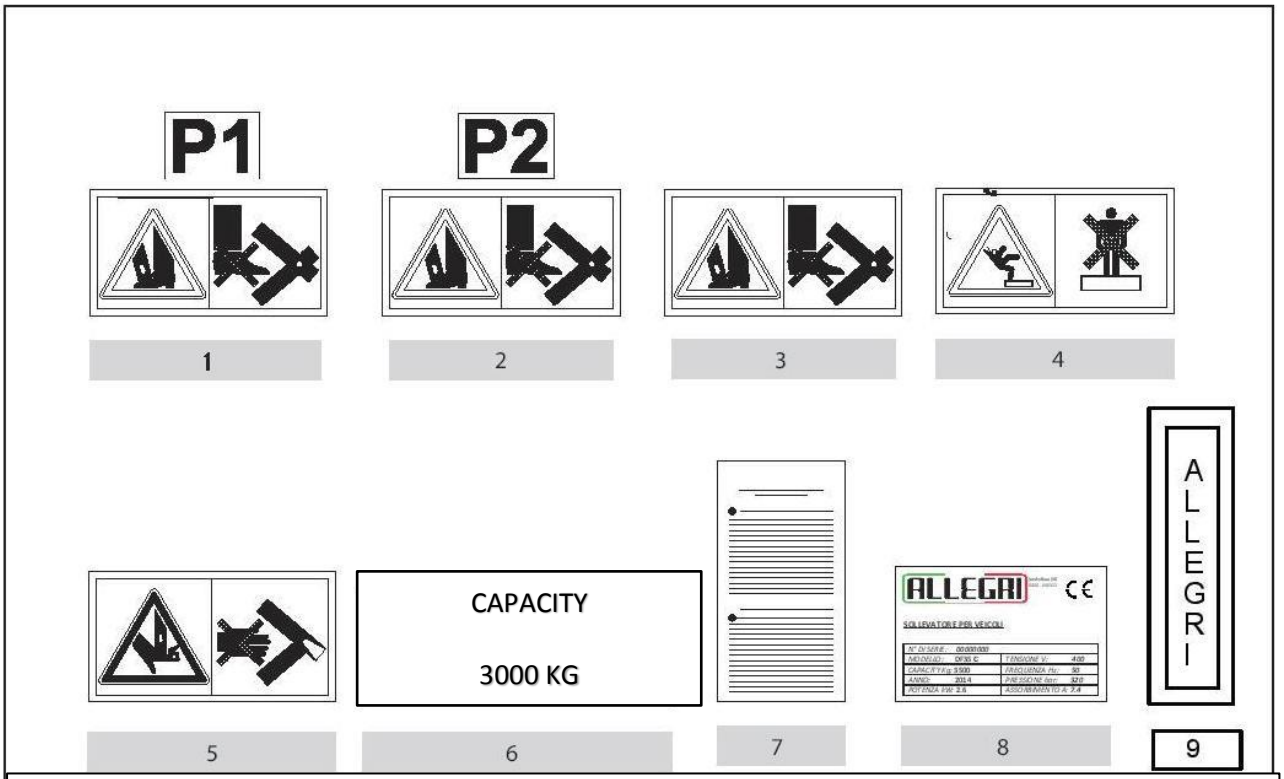


PITTOGRAMMI RIFERIMENTO: 7; 8 e 9 VEDI POSIZIONE IN FIGURA 1

REFERENCE PICTOGRAMS: 7; 8 and 9 SEE POSITION IN FIGURE 1

1.6 ZONE A RISCHIO / *HAZARDOUS AREAS*

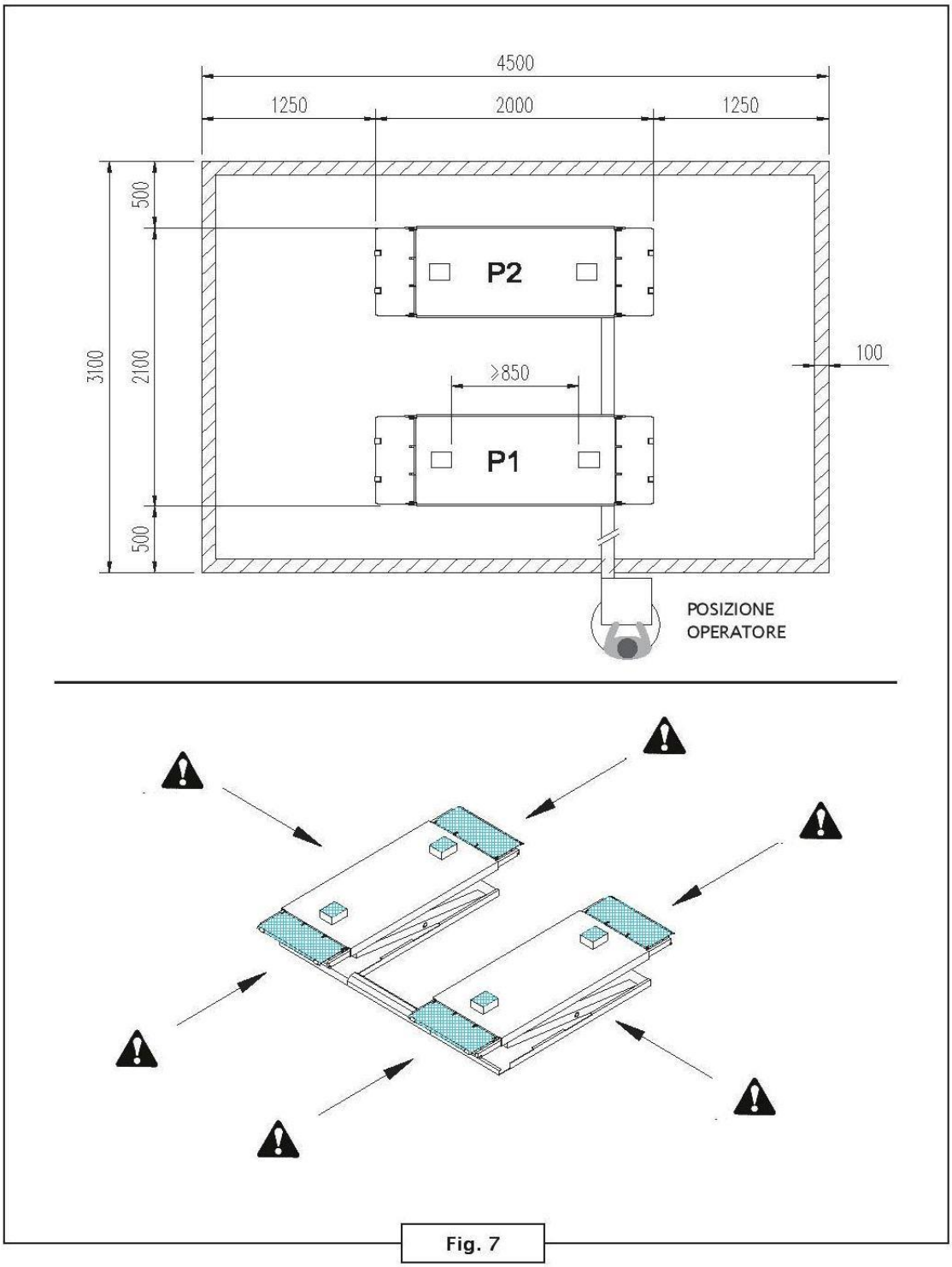


Fig. 7

WARNING: 'STRICTLY FORBIDDEN ACCESS INSIDE THE HAZARD ZONE, MARKED BY YELLOW LINE DURING THE MOVEMENT OF THE LIFT UP AND DOWN.

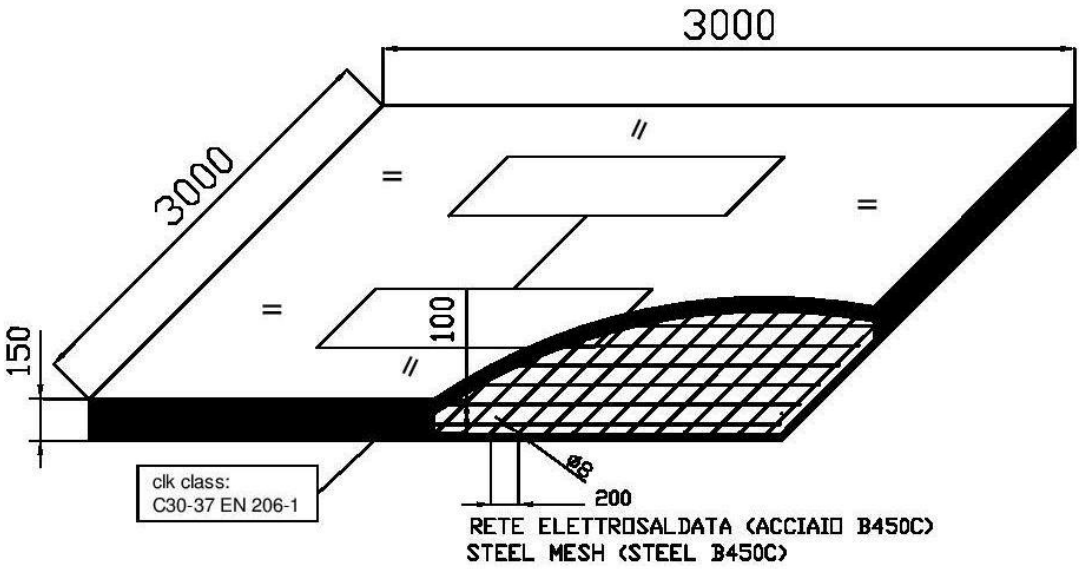
1.7 SCHEMA FONDAZIONI PER VERSIONE A PAVIMENTO

FOUNDATIONS SCHEME FOR ON FLOOR VERSION

ATTENZIONE: PRIMA DI PROCEDERE ALL'INSTALLAZIONE ASSICURARSI DI AVERE I REQUISITI COMNE IN FIGURA "FONDAZIONI"

CAUTION: BEFORE PROCEEDING WITH INSTALLATION, MAKE SURE YOU HAVE THE REQUIREMENTS AS IN THE FIGURE "FOUNDATIONS"

LIFT MODEL: TYRON 30
FONDAZIONI / FOUNDATIONS



MODEL	ANCHOR FOR FIXING	Q.TY
TYRON30	HILTI TSA 12-17 (M10X70)	8

FIG. 8

ATTENTION: WITHOUT THE REQUIREMENTS IN FIG. 8 or 9, DO NOT START INSTALLATION OF THE LIFT

1.8 SCHEMA FONDAZIONI PER VERSIONE AD INCASSO

SCHEME FOUNDATIONS FOR RECESSED VERSION

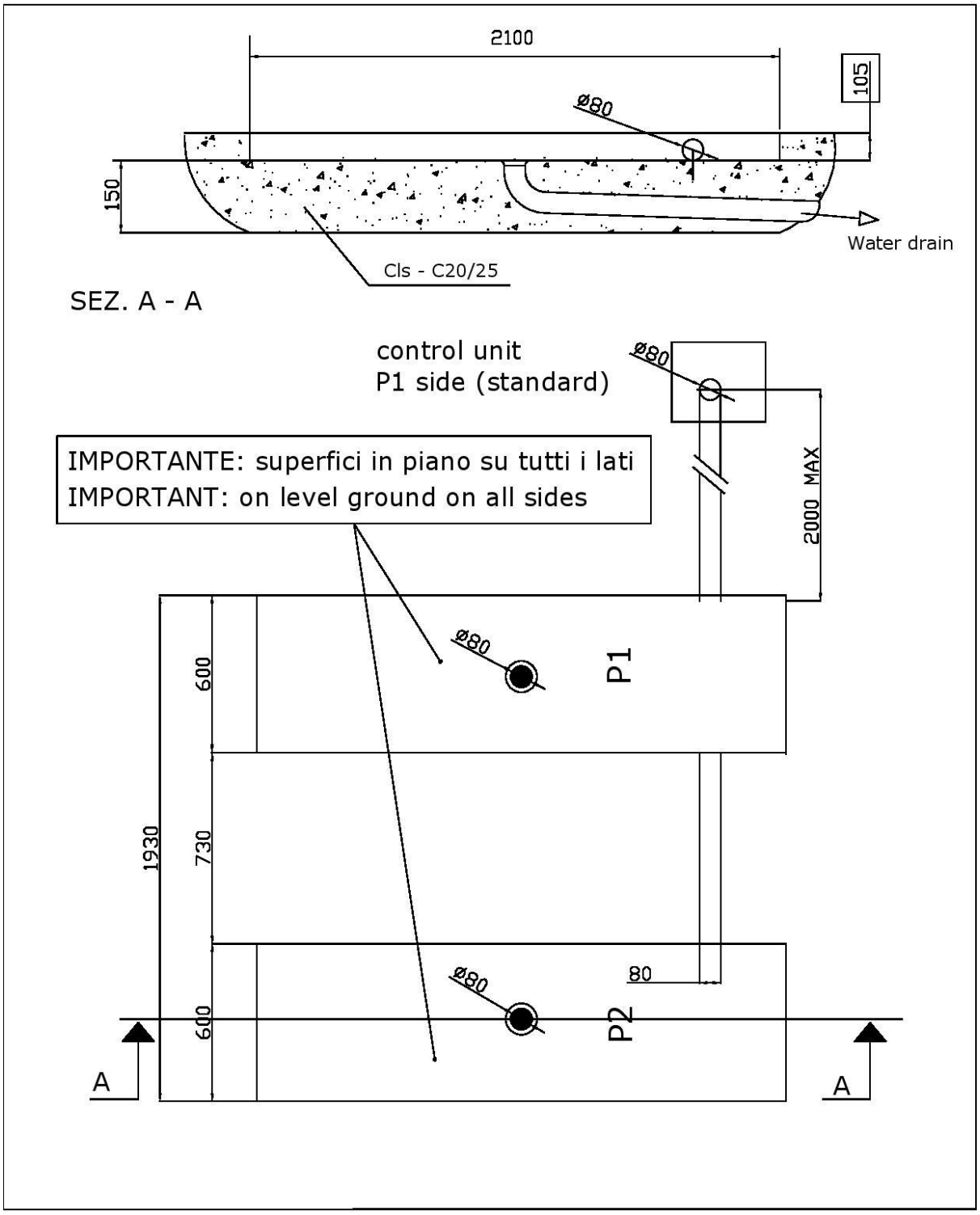


FIG. 9

2. PREMESSA / INTRODUCTION

This manual includes the instructions relating to the installation, use and maintenance of the lift system called “Vehicle Lift". The vehicle lifts described in this manual are designed and built solely to lift vehicles for repair, maintenance and inspection purposes. Lift operation, economy and duration depend on the compliance with the instructions given in this manual. The parts that can be supplied also as spare parts are listed in the last section of the manual. To make instructions reading easier, this vehicle lift will be hereinafter simply called "the lift".

2.1 LA CERTIFICAZIONE CE / *EC CERTIFICATION*

2006/42/EC Directive, commonly known as the "Machines Directive" specifies the conditions to be respected before a machine can be put into the market. This Directive provides that all machines can be marketed and commissioned only if they do not jeopardise people, pets or property safety and health. To certify lift compliance with Directive provisions, before marketing, the manufacturer subjected a machine specimen to the audit of a notified body.

Lift, manufactured in compliance with 2006/42/EC Directive provisions, and can thus be marketed without jeopardising user's safety.

Lift is thus delivered to the customer with:

- EC Declaration of Conformity
- CE Marking
- Instructions for use
- Inspection records

2.1.1 COLLAUDO / *TESTING*

The lift has undergone static and dynamic tests based on the procedures included in the EN 1493:2010. Concerning lift testing, please refer to the relevant section in the Inspection records

The instructions given in this manual shall be compulsorily respected: the Manufacturer will not be held responsible under any circumstances arising from negligence, from noncompliance with the instructions and from an improper or inconsiderate use of the lift.
Failure to comply with the instructions given in the manual makes the warranty directly become null and void.
The Company also disclaims any liability for damages caused by lift improper use and/or due to changes made without the manufacturer’s authorisation.

3. NORME GENERALI DI SICUREZZA E DI PREVENZIONE INFORTUNI

GENERAL SAFETY AND ACCIDENT-PREVENTION RULES

OR A SAFE USE OF THE VEHICLE LIFT DESCRIBED IN THIS MANUAL

THE FOLLOWING IS ALLOWED:

• Using the lift only to lift vehicles for inspection, maintenance and/or repair operations.

• Using the lift only to lift vehicles respecting capacity limits and loads distribution indicated in this manual.

• Only authorised personnel, in good health conditions, responsible and duly trained on the allowed uses and risks originated by lift use may operate the lift.

• The operator is allowed to use the vehicle lift only after he has thoroughly read, understood and assimilated the contents of this manual.

• Using the lift only inside closed premises, protected against atmospheric agents such as: rain, snow, wind, etc.
.

IT IS COMPULSORY:

• Lift installation and maintenance operations shall be compulsorily carried out by qualified personnel only, and in full compliance with the instructions given in this manual.

• Before installing the lift, you shall compulsorily check that the premises where you wish to position it are well aerated and correctly lighted. (Avoid blinding light sources).

• You shall compulsorily check that the floor where you wish to install lift is solid, flat, and perfectly levelled in all directions.

• You shall compulsorily check that the floor has been constructed to withstand the max. allowed loads, including the lift, on lift resting areas.

• The lift shall be compulsorily positioned far from heat sources or devices that could generate electromagnetic radiation.

• The lift shall be compulsorily positioned so that, during standard operation, with the vehicle loaded on it, it does not interfere with or bump into any nearby fixed or moving part. Take special care to power supply, water and gas systems.

• The lifting or handling operations of the lift or of any lift parts shall be compulsorily carried out under full safety conditions with suitable lifting equipment, as envisaged by the National prevailing regulations.

• Lift shall be compulsorily secured to the floor only using anchors and screws of the type recommended by the manufacturer (for lifts, where envisaged).

• Before using the lift, the wholeness of lifting elements shall be compulsorily checked.

• Before using the lift, you shall compulsorily check that safety devices are perfectly installed and in good operating conditions.
• Vehicles shall be compulsorily positioned as shown in the table of the manual and/or the table attached to the lift.

• The vehicle shall be compulsorily lifted from the resting points specified by the vehicle manufacturer.

• When moving vehicle up, after the first 200 mm and before continuing the raising, load stability shall be compulsorily checked in all directions.

• During the whole raising movement, load stability and lift correct and linear movement shall be compulsorily checked.

• Before accessing the working area, the lift shall be compulsorily put in mechanical safety position with the special command (where applicable).

• Before accessing the working area, the lift shall be compulsorily disconnected from power sources by turning to 0 (zero) the lockable rotating disconnector positioned onto the control panel.

• You shall compulsorily check that the disassembling of some of the parts of the vehicle positioned onto the lift does not originate any load unbalance.

• Before starting lift lowering, you shall compulsorily check that no people, animals or things that could interfere with the moving parts are under and around the working area.

• During lowering, you shall compulsorily and constantly check the lift and the lift load movement. In case of failure, immediately turn the emergency disconnector.

• In case of irregular noise or operating failures, you shall compulsorily stop all lift operations, and check the cause of such irregularity. In case of doubt, contact the manufacturer's service department.

• Power supply shall be compulsorily interrupted whenever adjustment, repair or maintenance operations have to be carried out on the equipment.

• All danger signalling stickers present onto the lift shall be compulsorily cleaned regularly or changed.

• The lift shall be compulsorily cleaned and all oil spots on the floor cleaned out, as they are very dangerous.

• All ordinary and extraordinary maintenance operations shall be compulsorily and thoroughly carried out, as indicated in this manual; also periodical checks to be recorded on the special "inspection records" coming with the lift shall be compulsorily carried out.

• You shall always compulsorily use only the manufacture's original spare parts.

IT IS FORBIDDEN:
• It is forbidden to misuse the lift as well as to use it in any other manner not specified in the "INTENDED USE" section of this manual

• It is forbidden to lift loads with just some of the lift parts (one runway only, or two arms only).

• It is forbidden to install the lift in hazardous premises containing inflammable and/or explosive substances, or where inflammable gases or vapours can be created.

• It is forbidden to install the lift inside premises exposed to atmospheric agents.

• It is forbidden to install the lift in premises where washing or sandblasting operations are carried out, or in very dusty premises
.
• It is forbidden to install the lift on vehicles or watercrafts.

• It is forbidden to use the lift in presence of strong magnetic fields.

• It is forbidden to use the lift to lift objects other than the specified ones (cases, containers or pallets) or to use it as a hoist.

• It is forbidden to use the lift to lift people or animals.

• It is forbidden to lift vehicles with people or animals onboard.

• It is forbidden to use the lift if the room temperature is below 5°C or above 40°C.

• It is forbidden to voluntarily cause load oscillations during raising or lowering manoeuvres, or while load is lifted.

• It is forbidden to access work area around the lift without having enabled safety mechanical devices, and turned disconnector to 0.

• It is forbidden to leave the lift unattended without having positioned it at the min. height or in mechanical safety position. So you should interrupt power supply, and lock the disconnector using a padlock.

• It is forbidden to remove or change lift protections or safety devices.

• It is forbidden to change the lift or lift parts: any tampering or change will immediately invalidate warranty, and will relieve manufacturer of any direct or indirect liability for damages due to such tampering or changing operations.

• It is forbidden to use parts or accessories not supplied by the manufacturer.

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3.1 ABILITAZIONE E ABBIGLIAMENTO / SET-UP AND CLOTHING

Set up a space suitable for the machine, and the working environment, by carefully evaluating the following aspects:

• The position shall be safe, free from any hinder, and protected against atmospheric agents. From the control position, the operator shall be able to see the whole system and the working area, and to immediately detect the presence of unauthorised people and objects that could originate any danger.

• The min. distance of the hazardous area from the walls of the premise where the vehicle lift is installed shall be at least 70 cm. Lighting shall be good, but without blinding or intense lights, and there shall be no sources or processes that could develop gases or flammable vapours.

• Avoid wearing unsuitable clothing. They could get entangled in lift moving parts. As disposed by the National prevailing rule, besides wearing clothes suitable to the work site, the operator will have to compulsorily wear complementary protective accessories to prevent any injury, such as: helmet, goggles, gloves, suitable shoes, etc.
etc.

3.2 ECOLOGIA E INQUINAMENTO / *ENVIRONMENT AND POLLUTION*

• The lift shall not be used for vehicle washing, degreasing, sandblasting and grinding.

• Comply with the National prevailing standards relating to the use and disposal of the products used for lift cleaning and maintenance, respecting the manufacturer's recommendations.

• Manhole and drainage ditches shall discharge fluids, where and as indicated by the National prevailing standards.

3.3 DEMOLIZIONE DEL PONTE / LIFT SCRAPPING

As for products disposal upon lift desmantling, DO NOT disperse parts in the environment, but contact a company specialised in waste storage. To avoid any environmental pollution risks, take the following precautions:

• The oil contained inside hydraulic control unit, relative circuit and cylinders shall be fully collected (if present).

• Disassemble lift parts by dividing them into groups of the same material in order to proceed to their separate disposal.

• Exhausted hydraulic oil, rubber parts, and iron scraps are special waste. Dispose of or temporarily store them in compliance with the National prevailing anti-pollution standards.

3.4 LIVELLI DI PERICOLI / DANGER LEVELS

Pay attention to this warning sign, where indicated in this manual and follow the safety rules. **The warning signs are of three levels:**

DANGER: this signal warns that, if the described operations are not carried out correctly, they cause severe injury, death or health long-term risks..

WARNING: this signal warns that, if the described operations are not carried out correctly, they may cause severe injury, death or health long-term risks..

CAUTION: this signal warns that, if the described operations are not carried out correctly, they may cause machine damage and/or personal injuries..

WARNING: carefully read the following rules; whoever does not put into practice the recommendations described hereinafter may be subject to irreparable damages or cause them to people, animals or property. The Company disclaims any and whatever liability arising from the failure to comply with the safety and accident-prevention rules described hereinafter.
The Company also disclaims any liability for damages caused by lift improper use and/or due to changes made without the manufacturer's authorisation.

3.5 ZONE A RISCHIO / HAZARDOUS AREAS

• Before using the lift, make sure that no unauthorised people nor animals are present within the hazardous area delimited by the yellow stripe (Fig. 7).

• People or animals shall by no means stop or pass within the hazardous area delimited by the yellow stripe (Fig.7), when using the lift even for small movements, and whenever the Emergency Switch/OFF (10, Fig. 1A) is not active.
• Figure 7 indicates the lift hazard areas for persons or animals. It is strictly forbidden to approach this area if the lift is moving due to the hazard of all machine mobile parts.

3.6 IDENTIFICAZIONE DEL SOLLEVATORE E DESCRIZIONE PITTOGRAMMI / *LIFT IDENTIFICATION AND PICTOGRAMS DESCRIPTION*

1 The safety signals (fig. 5) described in this manual are applied onto the lift (Fig. 6), and warn about unsafe and hazardous situations. Stickers shall be kept clean and, if detached or damaged, they shall be immediately changed.
2 Carefully read the meaning of the safety signals, and memorise it:
3 Runway P1
4 Runway P2
5 Warning. Possibility of a fall. Do not climb on the platforms
6 Warning risk of feet shearing
7 Warning risk of hands shearing
8 Instruction plate
9 Max load

10 CE plate: Each lift is provided with identification tags (8 Fig. 6) relating to the different versions

11 Voltage presence

12 Logo manufacturer

Each lift is provided with identification tags (8 Fig. 6) relating to the various versions

3.7 DESTINAZIONE D'USO / *INTENDED USE*

13 This manual includes the instructions relating to the installation, use and maintenance of the lift system called "Vehicle Lift". One of lift main features is its very compact size in rest position. It consists of two same structures called runways. They can be hydraulically lifted and installed on the floor or in pit.

14 The described lifts are mainly characterised by their type of installation and are available in the following models:

15 • for installation above the floor (Fig.2)

16 • for installation into the floor (Fig. 3)

Vehicles run on the lift moving parts positioned at lifting runways ends, i.e. ramps (4, Fig.1B). Besides allowing vehicle raising movement, these moving parts are also used to extend runways length if necessary.

Four rubber shims, coming with the lift, shall be inserted between vehicle loaded onto lift (preferably with the engine on the side of cylinders fitting) and runways or lift extensions at the points specified by car manufacturer. Lifting is carried out thanks to an electro-hydraulic pump delivering oil to lifting jacks assembled onto parallelogram connecting rods, each one equipped with safety valve. Runways alignment during operation is ensured by a hydraulic system by transfer with 2 hydraulic jacks, each one equipped with alignment valve at maximum height. These vehicle lifts are designed and constructed solely to lift vehicles for repair, maintenance and inspection purposes.

4.0 ISTRUZIONI PER L'USO / *INSTRUCTIONS FOR USE*

CAUTION: For lifting of vehicles always use the rubber shims (5 Fig.1B) supplied, placing them at the points specified by the vehicle manufacturer and in any case with a minimum distance between them as imposed by catches on the footrests

WARNING: Read the instructions in chapter "GENERAL SAFETY AND ACCIDENT PREVENTION".

WARNING: Before carrying out any operation on the control box to ensure that no person is in the vicinity of the bridge and then in a dangerous position.

4.1 PULSANTIERA / *PUSH-BUTTON PANEL*

The operations to be carried out using the push-button panel are:

4.1.1 UP LIFT • Check that the switch / disconnecting switch Emergency (10 Fig. 1A) is in pos. I (ON), possibly rotate it. • Press the "UP" button (11, Fig. 1A), fno to the desired height is reached.

4.1.2 LOWERING THE LIFT • Press the "DOWN" button (12Fig. 1A); the platforms will start to fall and at the same time will activate the buzzer "BUZZER" (14 Fig. 1A.): at this stage no person, animal or thing must be present inside the 'danger zone (Fig. 7)

DANGER: Make sure, before performing the lowering operation, and within the danger area bounded by the yellow band (Fig. 7) there are no strangers or animals

The above verification is always performed before proceeding to the descent of the bridge, since the latter phase is believed to be particularly dangerous for any people who were in the vicinity of risk areas (Fig.7).

4.2 PROCEDURA DI SOLLEVAMENTO / *VEHICLE LIFTING PROCEDURE*

- To proceed to the lifting operate in the following way:
- • Position the vehicle on the platforms (the platforms must be fully lowered and extension in the rest position).
- • Place the four rubber shims (5 Fig.1B) at the points provided for lifting as indicated by the vehicle manufacturer.
- Check that the switch disconnect (10 Fig.1A) is ON (1); if it is not, turn it on.
- Raise the vehicle by 10 centimeters.
- Check the stability of the vehicle.
- • Proceed to lifting the vehicle.
- • Turn the key-switch (10 Fig. 1A) in the OFF position (0) before access to the platforms of the lift.

4.3 VEHICLE LOWERING AND UNLOADING PROCEDURE

To proceed to the descent and unloading, operate in the following way:

• Check that the switch / disconnecting switch Emergency / OFF (10 Fig.1A) is in position "ON" (possibly rotate).

• Press the down button (12 Fig. 1A) and bring down the platforms, an intermittent acoustic signal will be activated to indicate the risk during all this step. The operator must ensure that:

DANGER! Check that inside the danger area bounded by the yellow band (Fig. 7) there are no people or animals. The above verifcation must always be made before proceeding with the lowering of the lift, because this phase is considered to be particularly hazardous for any people who are nearby the risk areas (Fig. 7).

• Turn the key-switch (10 Fig. 1A) to the OFF position (0).

• Remove the four rubber buffers (5 Fig.1B). and put them back in their place.

• Pull down the vehicle by the platforms.

4.4 DISPOSITIVI DI SICUREZZA / SAFETY DEVICES

WARNING: The following safety devices must never be tampered with or excluded, are also always kept in good state of efficiency::

• Hydraulic system by transfer with jacks to keep runways aligned during the up/down movements.

• System for runway alignment at maximum height with alignment valve and air bleeding.

• Switch/Disconnector (10, Fig. 1A): if turned to OFF (0), it stops lift operation.

• Voltage warning light (13, Fig. 1A): when it is on, panel is powered and it is not allowed to reach under the runways.

• Low-voltage additional electric circuit: this circuit cannot originate any electric shock.

• Rubber pads (5, Fig. 1B): they ensure lifted vehicle grip onto runways.

4.5 DISCESA DI EMERGENZA / EMERGENCY LOWERING

The following operations shall thus be carried out only:

• When lift does not move down due to a power failure or in case of power cut-off;

• In case of absolute need;

• By a single qualified operator;

• If the lift area is delimited and made accessible to a single operator;

. Procedure emergency descent:

Turn Emergency Switch/Disconnector (10, Fig. 1A) to 0 (OFF).
Remove the cap 18 (1 FIG.18) from the YVD solenoid valve
Slowly loosen the screw 2 FIG. 18 always checking any movements of the lift.
• Press the pin at the same time (3 Fig.18) of the YVC1 and YVC2 solenoid to lower the platforms.

. .• When finished, tighten up the screw 2 Fig. 18 and reassemble the cap 1 fig. 18

TO DO SOME OPERATIONS UP - DOWN WITHOUT CHARGE

5. HANDLING AND INSTALLATION

5.1 TRANSPORT AND UNLOADING

WARNING:: If not carried out with the utmost care, lift unloading, transport and lifting operations can be dangerous: so keep all the unauthorised people away from the lift; clean, clear and delimit the installation area; check that the available tools are suitable for use and in good operating conditions; do not touch any suspended loads, and stay at safety distance; during transport, suspended loads shall not be more than 20 cm from the floor; thoroughly respect the following instructions; do not proceed in case of doubts or uncertainty. The lift is shipped packed onto a pallet to make transportation and handling easier. The packed lift shall be transported with a fork lift having a suitable capacity. During handling, avoid that the packed lift, the single structures and, above all, the control unit are subject to impacts or dashes. Packed lift overall dimensions and mass are shown in Figure 13

.

WARNING: All the following installation, adjustment and testing operations should be carried out only by qualified and responsible staff operating according to the applicable electric, hydraulic, pneumatic, mechanic and building safety standards.

DANGER:The installation, the adjustment and the testing of the lift imply potentially dangerous operations. Therefore, all the instructions given here below should be carefully read. In case of doubt, please contact the Manufacturer. The manufacturer disclaims any responsibility in case of non-compliance with the safety standards and with the accident prevention rules given in this manual.

DANGER: If the lift is installed on a floor slab it is necessary to consider the lift weight plus the maximum liftable load resting on the lift bearing surfaces using adequate safety coefficients. It is responsibility of the purchaser to carry out this check at his/her charge.

.

5.2 FONDAZIONI / FOUNDATION

In all lift versions, runways shall be laid onto a reinforced concrete layer class "RcK 30" (30N/mm²) with a min.thickness of 15 centimetres. The concrete platform shall be smooth and perfectly levelled in all directions, and cast on a compact ground. Cover the cables and the piping with the metal ducts coming as lift outfit. (SEE DRAWINGS FIG. 8 – 9)

5.3 POSIZIONAMENTO DEL SOLLEVATORE / LIFT POSITIONING

OPERATIONS TO BE CARRIED OUT FOR LIFT INSTALLATION: SEE ALSO IN PARAGRAPH 5.9

• Set runways as shown in Figure 2 OR 3, in the immediate vicinity of their installation position, complying with thedistances specified in Fig. 2 OR 3

• Lift one platform at a time and place them on the floor in the intended position, engaging with suitable al lifting systems. **Follow the procedure as described in PARAGRAPH 5.9**

• Place the control unit (9 Fig. 1A) in the vicinity of the platform P1 as shown in Fig. 2 and 3, bearing in mind that the control unit is either positioned on the left side with respect to the platform P1. To place the unit on the right side of the platform P1, refer to figs. 15 and 15A.

• The lift is supplied tested with the pipes arranged to the control unit positioned on the left side of the platform P1 with respect to the input side of the vehicle as shown in Fig. 15

If the installation of the lif takes place in the pit instead of on the floor, complete the installation in a similar way as just described, making sure to place the entire structure of the lift in a centered position with respect was the same.

. After placing the platforms in the connections:.

- HYDRAULIC
- ELECTRICAL
-

5.4 COLLEGAMENTO TUBAZIONI (VEDI SCHEMA IN FIGG. 15 e 15A)

CONNECTING HYDRAULIC PIPES (SEE SCHEME IN FIG. 15 and 15A)

CAUTION: It is very important to properly perform the hydraulic system and its connections. Therefore, follow all instructions below carefully. After placing the control unit (9 Fig.1A) as shown in the diagram in Figure 3 is necessary:

• Open the cover of the unit by unscrewing the screws on the sides. • Remove the caps, used to prevent oil spills or impurities entrance, placed on hoses and proceed to their connection to the respective connections in the control unit.

WARNING: When removing the caps of the pipes it is possible to have small oil spills; therefore, place on the floor an appropriate container to collect the oil

5.5 COLLEGAMENTI ELETTRICI / ELECTRICAL CONNECTION

CAUTION: • The electric voltage for connection to the framework of the lift must correspond to the voltage indicated on the electrical panel.

• The control cabinet must be connected to a main switch constructed and installed in accordance with prevailing regulations in the country of use.

• The system that supplies electricity to the electrical panel of the lift must be done according to the regulations of the country of use. • The minimum required power is 3 kW.

• The minimum section of the power circuit electric cables must be 4 mm2. • In this phase, the electric engine can be turned on only for a few seconds, to avoid damage to the hydraulic pump.

PROCEDURE:

• Connect the power supply cable to the power supply network.

CAUTION: - Once completed the installation, connect the ground wire workshop the lift structure to eliminate the possibility of accumulation of electrostatic discharge

WARNING: Before you proceed with the next steps, read the instructions in section 4.0 and 4.1 about the control panel functions and get comfortable at performing the various operations with the lifter discharged.

5.6 RIEMPIMENTO IMPIANTO OLEODINAMICO / HYDRAULIC SYSTEM FILLING

• Pour 6 litres of oil inside tank (T Fig. 9)

. • Power the line by turning the Switch/Disconnector (10, Fig.1A) to ON (1): the voltage warning light (13, Fig.1A) will turn on

• Push the lifting button "UP" (10, Fig. 1A) and check that the motor turns in the correct direction. Should this not be the case, CUT OFF POWER FROM THE ELECTRIC NETWORK, and reverse two phases on socket coming out of control unit (During this phase, electric motor can be operated just for a few seconds, in order to avoid any damage to the hydraulic pump).

DANGER:
Make sure that there are neither persons nor animals close to lift hazardous areas (Fig. 7) Always carry out this check before attempting to raise or lower the lift.

• Proceed to lifting the platforms, press UP button (10 fig. 1A), bring them to the maximum height. Check that the oil level inside the tank is higher than the filter. Otherwise, add more oil.

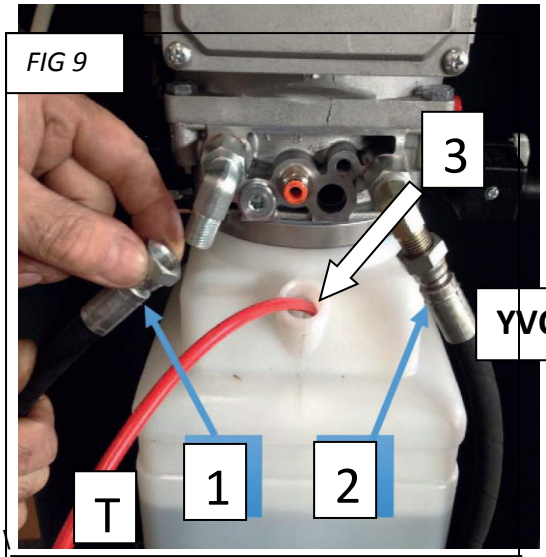
CAUTION: Constantly check that there are no oil leaks, if there are, disconnect the power supply and tighten loose connections.

• Cover and fix the pipes between the two platforms with ducts (17 Fig. 1B) being careful not to crush tubes and cables.

5.6.1 PRIMA INSTALLAZIONE / FIRST INSTALLATION

CAUTION: CARRY OUT IN THE ORDER DESCRIBED BELOW

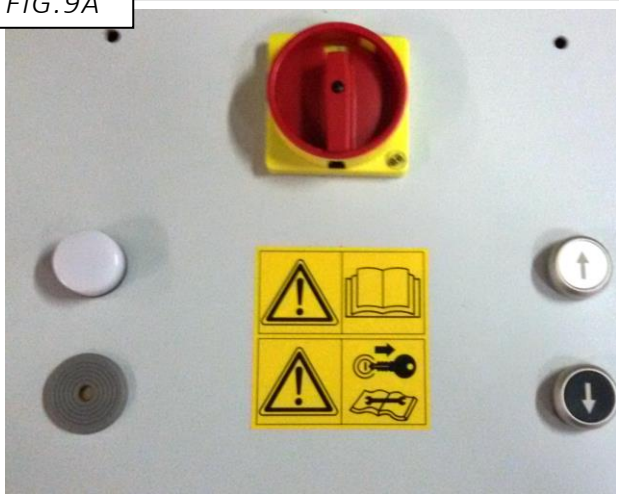
FIG 9



1 - COLLEGARE I TUBI OLEODINAMICI 1,2 e 3 COME IN FIGURA 9.

1 - CONNECT THE PIPES HYDRAULIC 1, 2 and 3 AS FROM PICTURE 9

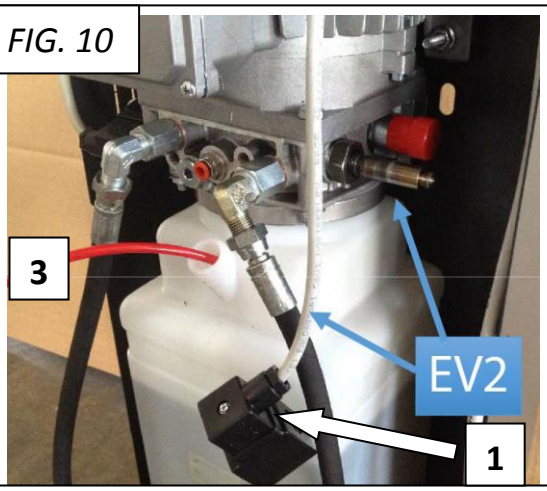
FIG.9A



2 - PREMERE IL PULSANTE SALITA (PS) E PORTARE LE PEDANE ALLA MASSIMA ALTEZZA.

2 - PRESS THE UP BUTTON (PS) AND BRING THE PLATFORMS TO THE MAXIMUM HEIGHT

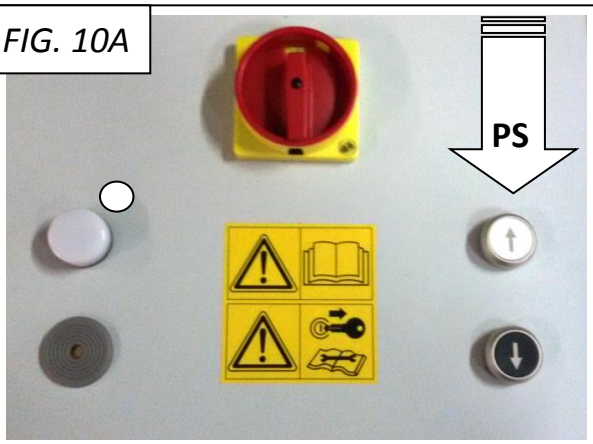
FIG. 10



3 - TOGLIERE IL SOLENOIDE (1) DALLA ELETTROVALVOLA **YVC1** .
4 – INSERIRE IL TUBO DI SCARICO (3) DIRETTAMENTE NEL FORO DEL SERBATOIO.

*3 - REMOVE THE SOLENOID (1) BY ELECTROVALVE YV**C1.***
4 - INSERT THE EXHAUST PIPE (3) DIRECTLY INTO THE HOLE THE TANK.

FIG. 10A

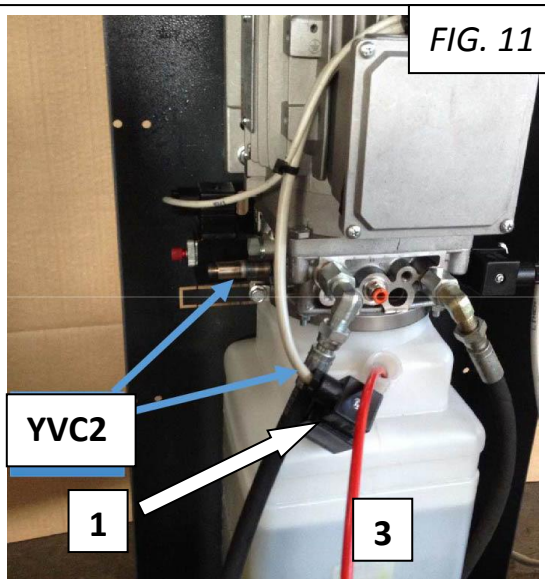


5 -PREMERE IL PULSANTE (PS) E CONTROLLARE CHE DAL TUBO DI SCARICO (3 FIG 10) ESCA OLIO .

6 - RIMONTARE IL SOLENOIDE (1) ALLA ELETTROVALVOLA **YVC1** (FIG. 10).

5 –PRESS UP BUTTON (PS) AND CHECK THAT THE EXHAUST PIPE (3 FIG 10) OIL COMES OUT.
*6 - REFIT THE SOLENOID (1) TO THE ELECTROVALVE **YVC1**(FIG. 10)*

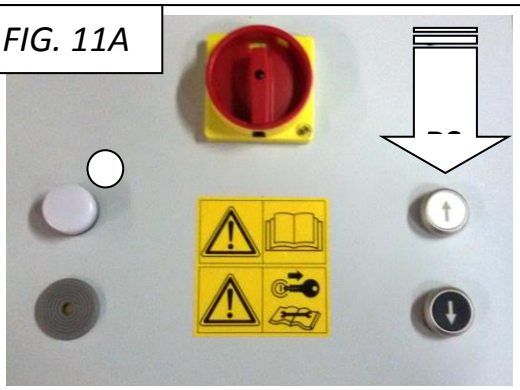
FIG. 11



7 - TOGLIERE IL SOLENOIDE (1) DALLA ELETTROVALVOLA YV**C2**

7 - REMOVE THE SOLENOID (1) BY ELECTROVALVE ***YVC2.***

FIG. 11A



8 -PREMERE IL PULSANTE SALITA (PS) E CONTROLLARE CHE DAL TUBO DI SCARICO (3 FIG. 11) ESCA OLIO

9 - RIMONTARE IL SOLENOIDE (1) ALLA ELETTROVALVOLA **YVC2** (FIG. 11)

8 -PRESS UP BUTTON (PS) AND CHECK THAT THE HOSE (3 FIG. 11) DISCHARGE OIL.
9 - REFIT THE SOLENOID (1) TO THE ELECTROVALVE ***EYC2 (FIG.11)***

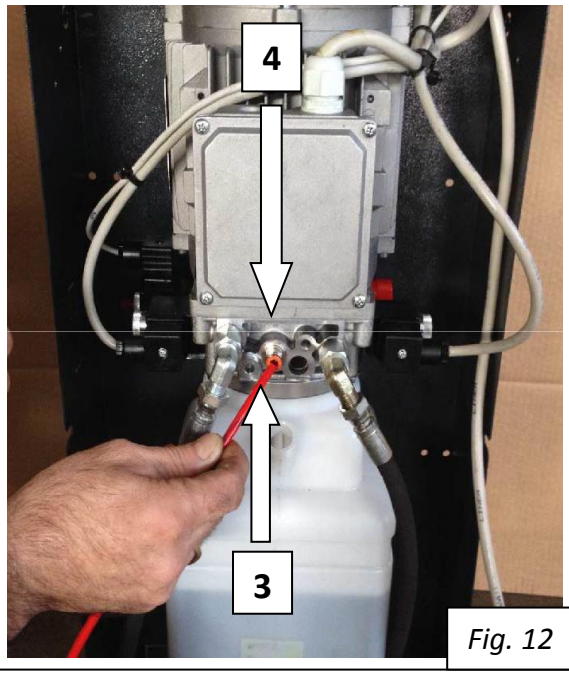


Fig. 12

10 – RIMONTARE IL TUBO DI SCARICO (3) AL SUO RACCORDO (4) COME IN FIG. 12

11 - CONTROLLARE IL CORRETTO FUNZIONAMENTO DEL SOLLEVATORE, IN CASO DI DUBBI, CONTATTARE SEMPRE IL SERVIZIO ASSISTENZA.

10 - RE-ASSEMBLE THE DRAIN PIPE (3) IN ITS FITTING (4) AS SHOWN 12

11 - CHECK THE PROPER OPERATION OF THE LIFT, IF IN DOUBT, ALWAYS CONTACT THE SERVICE

5.7 COMPLETAMENTO INSTALLAZIONE / COMPLETING THE INSTALLATION

• Raise the lift at an appropriate height
• Secure the lift to the floor, after checking that the location is that that you want
• Perform the holes in correspondence of the 8 holes of the bases of the platforms (Fig. 16) with 10 mm drill, to a depth of about 95 mm. (Figure 16) • Clean the holes and insert the screw anchors of the type indicated

in the "Technical data", with light hammer blows.
• Secure the lift to the floor

\5.7.1 DELIMITAZIONE AREA DI PERICOLO / DEFINITION OF DANGER AREA

• Delimiting the perimeter of the danger of the machine by painting a band of width equal to 10 cm. with indelible paint yellow complying with the measurements shown in Figure 7

5.7.2 ZONE A RISCHIO / AREAS AT RISK

Check before operating the lift that inside the danger area bounded by the yellow stripe (Fig. 7), there are no people or animals.

• It is absolutely forbidden the standing or the passage of people or animals inside the dangerous area bounded by the yellow stripe (Fig. 7), when functioning, even for short trips, and when the emergency switch / OFF (10 Fig. 1A) is in the "off" position (0)

• In Photo 7 highlights the risk of deck areas for people or animals. It is absolutely forbidden to approach this zone if the lift is moving to the danger of the moving parts of the machine

5.8 DIMENSIONI DI INGOMBRO E PESI / OVERALL DIMENSIONS

PESI CON IMBALLO / WEIGHT WITH PACKING

1- KG 180
2- KG 180
3- KG 40

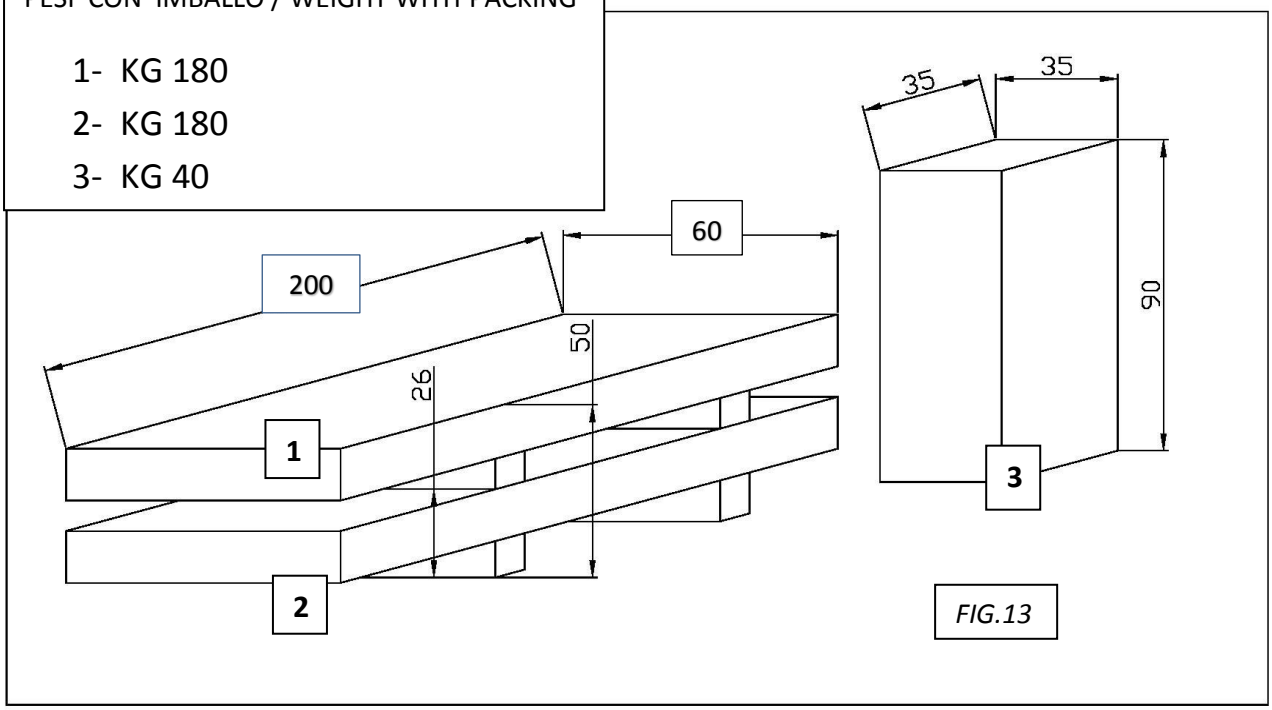


FIG.13

CAUTION: HANDLE THE PRESSURE WITH APPROPRIATE MEANS CONSIDERING THE WEIGHT AND DIMENSIONS. (FIG. 13)

DURING LIFTING AND HANDLING MAKE SURE THAT THERE ARE PEOPLE, ANIMALS OR THINGS IN THE OPERATING AREA.

BE MOVED THE SINGLE PLATFORM CORRECTLY AS SHOWN IN FIGS. 14; 14A; 14B; 14C

5.9 - INSTALLAZIONE “FACILE” (IMPIANTO OLEODINAMICO COLLEGATO FINO ALLA CENTRALINA E OLIO PRESENTE IN SERBATOIO) –

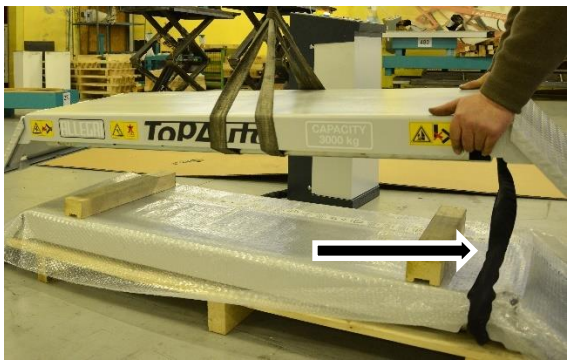
"EASY" INSTALLATION (HYDRAULIC INSTALLATION CONNECTED TO THE CENTRALINE AND OIL ON THE TANK)

ITA: POSIZIONARE IL SOLLEVATORE VICINO ALLA ZONA DI INSTALLAZIONE USANDO IDONEI MEZZI DI SOLLEVAMENTO. PER DIMENSIONBI E PESI FATRE RIFERIMENTO ALLA FIG. 13

GB: POSITION THE LIFTING UNIT NEAR THE INSTALLATION AREA USING THE LIFTING LIFTS. FOR DIMENSIONS AND WEIGHTS REFERENCES TO FIG. 13

ITA: LIBERARE IL SOLLEVATORE DALL’IMBALLO PER IL POSIZIONAMENTO. ATTENZIONE: NEL MOVIMENTARE LE PARTI FARE ATTENZIONE AI COLLEGAMENTI ESSENDO GIA’ MONTATI ALLE PARTI.

GB: REMOVE THE PACKAGE.
WARNING: IN MOVING THE PARTS WARNING TO THE CONNECTIONS BEING MOUNTED TO PARTS

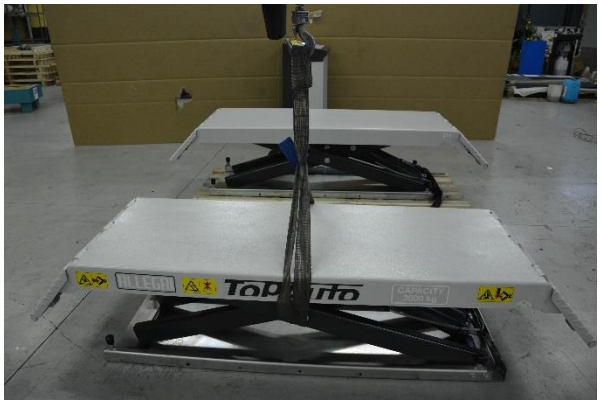


ITA: SOLLEVARE LA PEDANA P2 COME IN FIGURA E POSIZIONARLA SUL PAVIMENTO

GB: PULL THE FOOTWEAR P2 AS IN THE FIGURE AND POSITION ON THE FLOOR

ITA: SOLLEVARE ANCHE LA PEDANA P1 E TOGLIERE IL PALLET DI TRASPORTO.

GB: ALWAYS PEDANE P1 AND REMOVE THE SHIPPING PALLET.



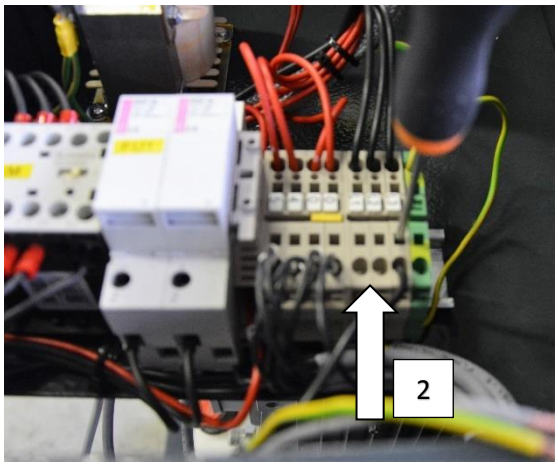
ITA: POSIZIONARE LE PEDANE COME IN FIGURA SEGUENDO LE DISTANZE VISTE IN FIGURA 2

GB: POSITION THE PEDANES AS THE FIGURE AFTER THE DISTANCES LISTED IN FIG. 2

3

ITA: POSIZIONARE LA CENTRALINA NELLA CORRETTA POSIZIONE (LATO P1) FARE RIFERIMENTO ALLA FIG. 7 . APRIRE IL QUADRO DI COMANDO (1) E COLLEGARE IL CAVO DI ALIMENTAZIONE ALLA MORSETTIERA (2) OSSERVANDO LE NORME DI SICUREZZA VIGENTI NEL PAESE DOVE SI OPERA.

GB: POSITION THE CONTROL BOX IN THE CORRECT POSITION (SIDE P1) REFER TO FIG. 7. OPEN THE CONTROL PANEL (1) AND CONNECT THE POWER SUPPLY TO THE TERMINAL (2) OBSERVING THE SAFETY REGULATIONS IN THE COUNTRY WHERE IT WORKS.



ITA: FISSARE IL PONTE A TERRA CON APPOSITI TASSELLI (DATI TECNICI)

GB: FIXING THE EARTH BRIDGE WITH HANDSETS (TECHNICAL DATA).

SWITCH THE GENERAL SWITCH (3) IN POS. "ON", KEEP THEREFORE ANY HANDLING MANUFACTORY - DISK ONLY TO CHECK THAT ALL IS CORRECT. IF ALL OK. THE LIFT IS READY FOR USE.

5.9.1 MONTAGGIO RAMPE DI SALITA / ESTENSIONI / MOUNTING ROOFING / EXTENSIONS

ATTENTION!

Mount the climb climb ramps (3 fig. 14) as follows:
Mount the ramps through the platform holes and then lock them with the supplied screws.
At the end of assembly, check the free movement of the ramps and their correct insertion as shown in Figure 14

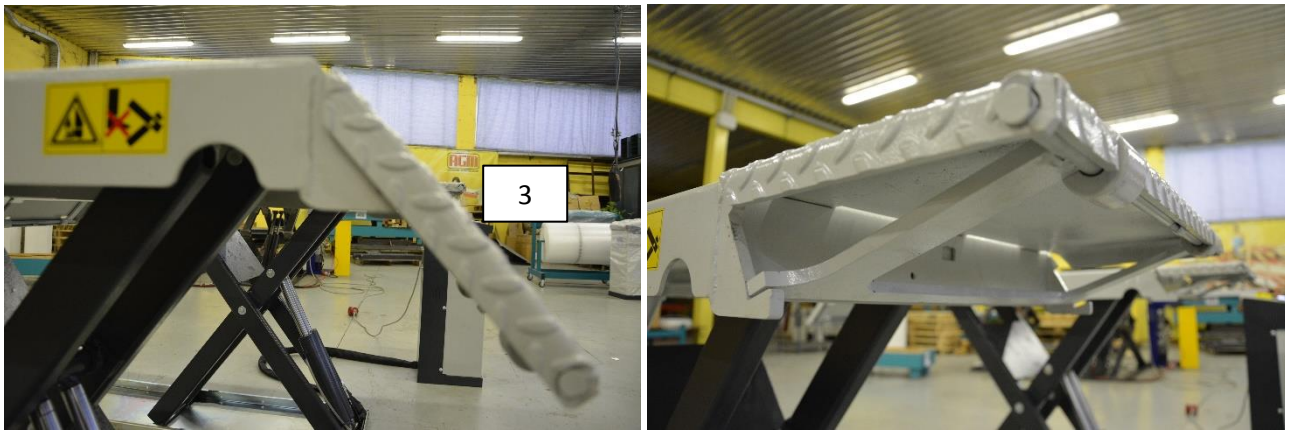


FIG.14

ISTRUZIONI PER LA MANUTENZIONE IN SICUREZZA

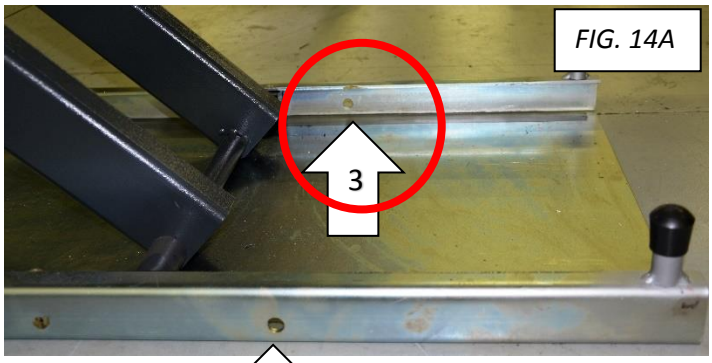


FIG. 14A

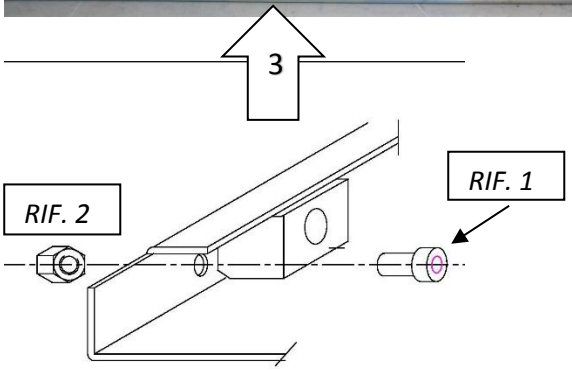


FIG. 14B

In the event of access to potentially dangerous parts of the lift, secure the work area as follows:
Raise the bridge to access those zones
1: Bring the bridge to the highest height
Insert the two screws ref. 1 fig. 14A (M12 x 30 screws) into the holes in the base (Fig. 14) and fit the relative nut. (Ref.2)
4) Lower the scissors until they stop on the RIF screws. 1 fig. 14B

5.9.2 CONNESSIONI OLEODINAMICHE CON CENTRALINA POSIZIONATA A DESTRA

HYDRAULIC CONNECTION RIGHT SIDE

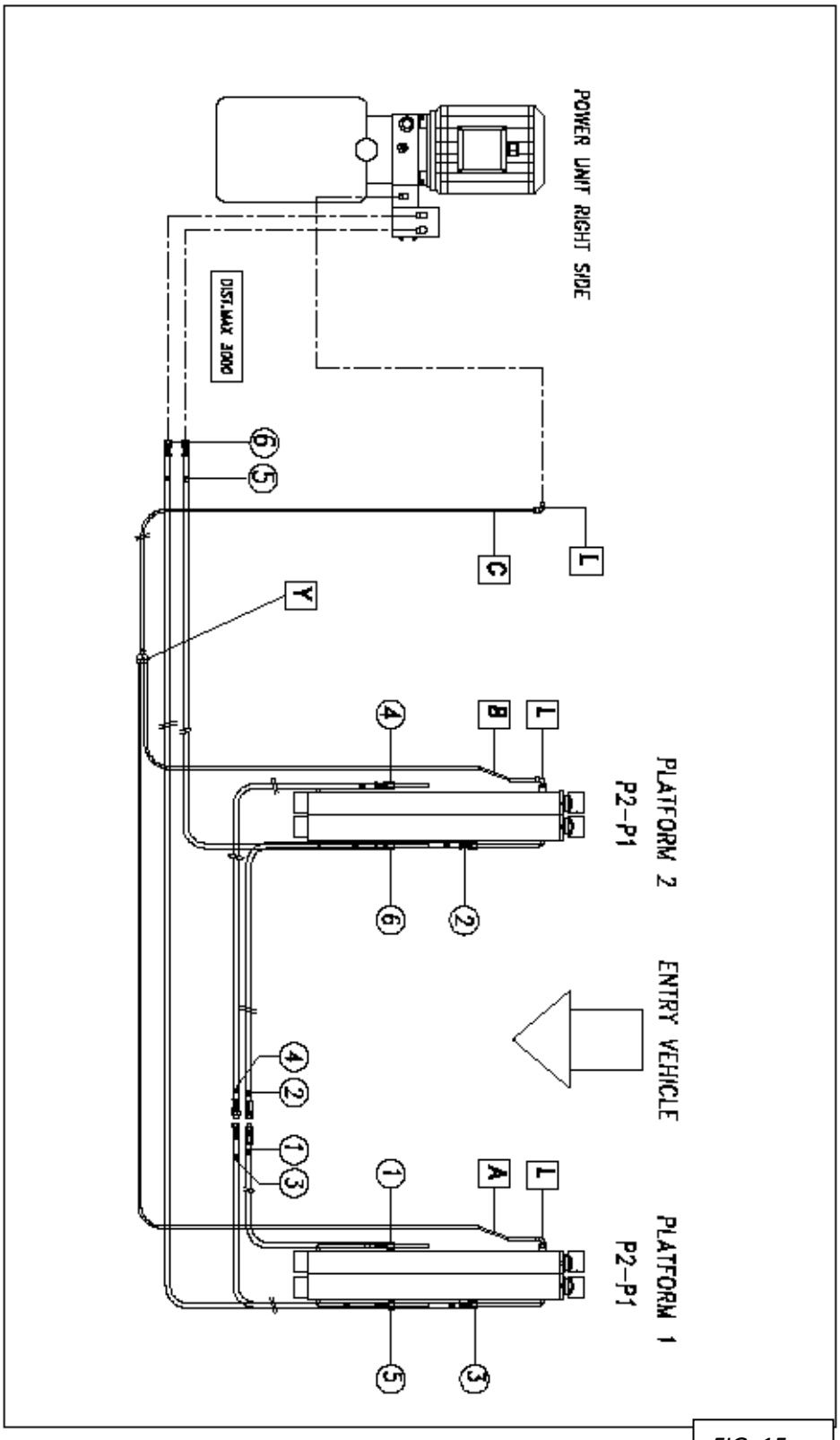


FIG. 15

5.9.3 CONNESSIONI OLEODINAMICHE CON CENTRALINA POSIZIONATA A SINISTRA

HYDRAULIC CONNECTION LEFT SIDE

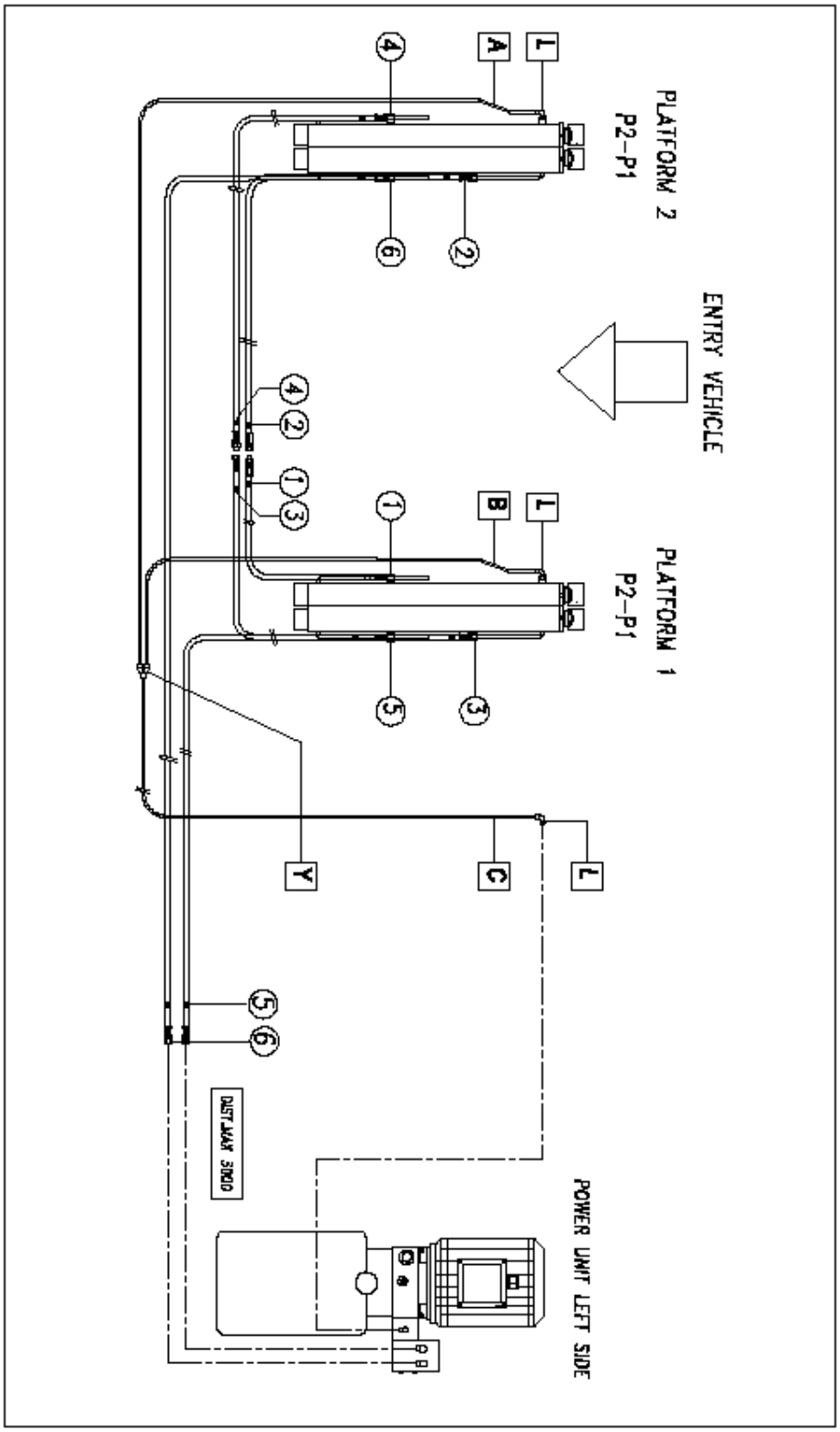


FIG. 15A

5.9.4 FISSAGGIO SOLLEVATORE AL PAVIMENTO / FIXING ELEVATOR AT THE FLOOR

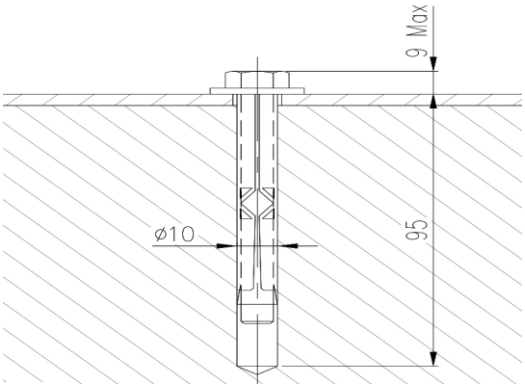
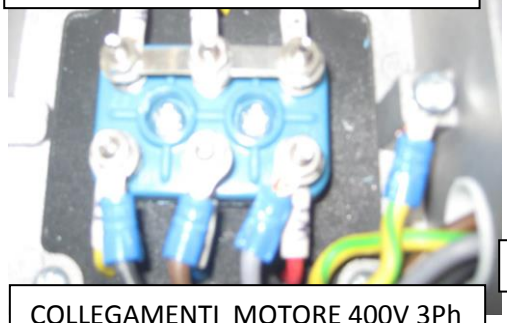


FIG. 16

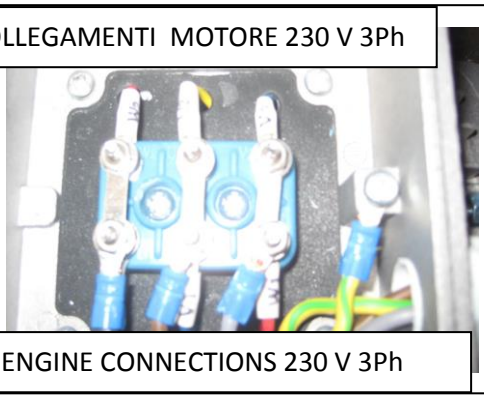
ENGINE CONNECTIONS 400V 3Ph



COLLEGAMENTI MOTORE 400V 3Ph

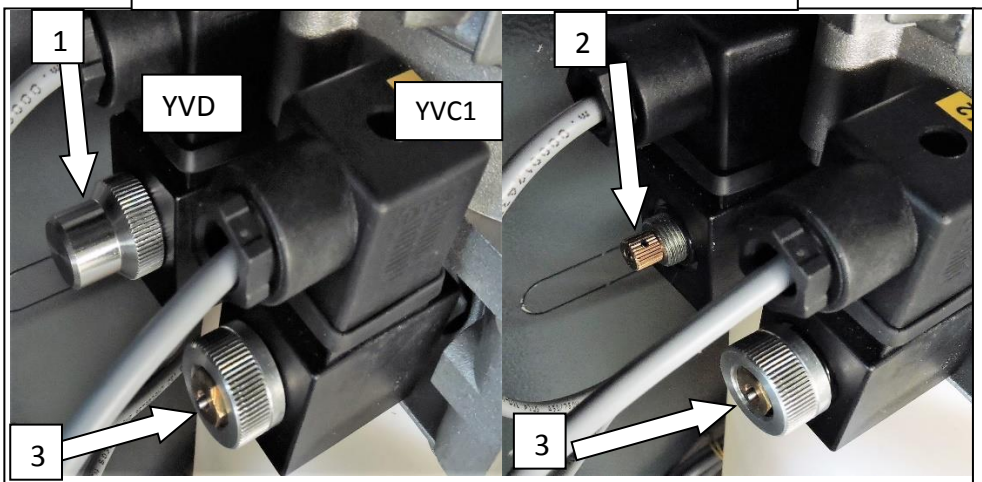
FIG. 17

COLLEGAMENTI MOTORE 230 V 3Ph



ENGINE CONNECTIONS 230 V 3Ph

DISCESA DI EMERGENZA / EMERGENCY DESCENT



IMPORTANTE:

SEGUIRE LE ISTRUZIONI AL PUNTO - 4.5

IMPORTANT:

FOLLOW THE INSTRUCTIONS TO THE POINT - 4.5

FIG. 18

6. MANUTENZIONE / MAINTENANCE

CAUTION: Routine maintenance: performed only by authorized operator Extraordinary maintenance: performed only by authorized and trained operator

Maintenance operations are listed hereinafter. A lower running cost and a longer machine life depend, among other things, on the constant execution of these operations.

CAUTION:
The listed time schedule is given for information, and relates to standard operating conditions.
It is susceptible of changes based on the type of service, level of environmental dusts, frequency
f usage, etc. In case of heavier conditions, maintenance operations shall be carried out more frequently.
When topping-up or changing oil, always use the same type of oil used before..

6.1 VERIFICA DEI DISPOSITIVI DI SICUREZZA / SAFETY DEVICES CHECK

6.1.1 SEZIONATORE D'EMERGENZA/OFF - EMERGENCY DISCONNECTOR/OFF

1 Turn Emergency Switch/Disconnector (10, Fig. 1A) to 1 (ON).
2 Carry out any operation required for LOWERING or RAISING.
3 Meanwhile, turn Emergency Switch/Disconnector (10, Fig. 1A) to 0 (OFF): lift will completely stop working; runways shall stop

6.1.2 SPIA PRESENZA TENSIONE / VOLTAGE WARNING LIGHT

1 Check that the circuit breaker (10 Fig.1A) is in the OFF position (0), if necessary turn it.
2 Turn the switch-disconnector to the ON position (1)
3 Verify that the voltage warning light (13 Fig.1A) is on.

6.1.3 ALLINEAMENTO AUTOMATICO E SPURGO ARIA / AUTOMATIC ALIGNMENT AND AIR BLEEDING

1 Move lift up to the max. height.
2 Hold up push-button for 5-10 seconds.
3 Lower the lift.
This operation is also possible with lift under load, if the difference in height of the two runways ranges between 4-5 centimetres

6.1.4 SPESSORI IN GOMMA / RUBBER PADS

Check their conditions. If worn-out or broken, change them..

.6.2 MANUTENZIONE PERIODICA / PERIODICAL MAINTENANCE

6.2.1 OGNI SETTIMANA / EVERY WEEK

• Check safety devices every week, as specified in this manual.
• Check hydraulic oil level as follows:
• Move runways all the way down;
• Turn Emergency Switch/Disconnector (10, Fig. 1A) to 0 (OFF);
• Check hydraulic oil level that shall be 2 cm below the oil filling plug. If necessary, top up with hydraulic oil "ESSO NUTO H32" or equivalent;
• Grease linkages (1, Fig.16A), by means of grease nipple (2, Fig.16A).

6.2.2 OGNI MESE / *EVERY MONTH*

• Check lift screws correct tightening;
• Check hydraulic system correct sealing; tighten loose unions, if necessary;
• Check hoses for wear; if worn out, change them with new equivalent ones;
• Check runways structure conditions; change any damaged part with original spare parts.

6.2.3 OGNI 200 ORE DI FUNZIONAMENTO O MASSIMO OGNI 5 ANNI / EVERY 200 OPERATING HOURS OR EVERY 5 YEARS, AT THE LATEST

Replace hydraulic system oil, discharging the exhausted oil from tank. Clean oil filter. For this operation, please refer to "Hydraulic control unit" table in the attached spare parts section.
If these operations are carried out with the utmost care, the user will find the equipment in perfect working conditions upon lift restart.
It has to be remembered that the Manufacturer and its distributors are always at your disposal for any service and spare part needs.

7. RICERCA GUASTI ED INCONVENIENTI / TROUBLESHOOTING

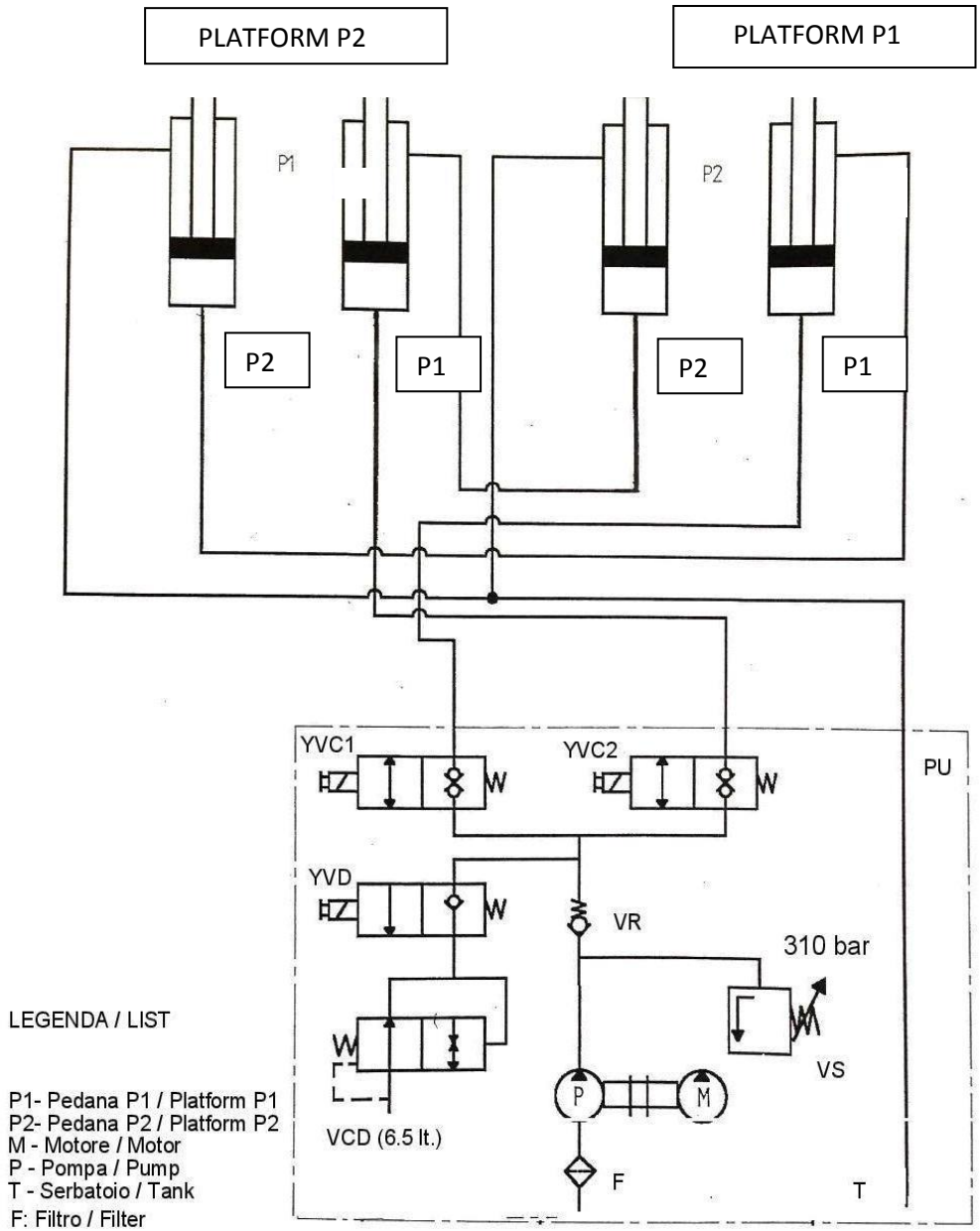
	PROBLEMI / PROBLEMS
A	Il ponte non funziona. Nessuna reazione. / The lift does not work. No reaction.
B	Posizione P2 più bassa in relazione a P1./ P2 position lower than P1.
C	Premendo il pulsante di discesa, il ponte non scende,/ Push the down button, the lift stopped
D	Il sollevatore non mantiene l'allineamento. / The lift does not stay aligned

	POSSIBILI CAUSE/ POSSIBLE CAUSES	INTERVENTI / ACTIONS
A	- Switch/Disconnector (11, Fig. 1) to OFF (0). - No power supply. - Cable connections. Burnt-out fuses...	- - - - Reset Emergency Switch/Disconnector to ON (1). - Check cause. - Check connections. Replace..
B	- Presence of air in the system. Inside blow-by through gaskets	- Bleed and realign at maximum height. Replace the gaskets.
C	tripped or faulty. Solenoid valve (YVD +YVC1+YVC2 Fig. 16) faulty..	Check the solenoid valve and replace, if required
D	- Oil blow-by inside the cylinder.	- Check oil level and bleed with lift at maximum height. - lift at maximum height. - replace gaskets.

7.1 PARTI DI RICAMBIO / SPARE PARTS

Spare parts purchase orders shall be carried out by the manufacturer, and shall include the following information:
• Lift type, version, and serial number. These data are stamped on the plate fixed to all the equipment (8 Fig. 1).
• Spare parts table number, and part number.
• Part description and required quantity.
• Shipping means. If this item is not specified, the manufacturer, even devoting special care to this service, is notliable for any shipping delay due to force majeure.
Shipping charges always have to be borne by the consignee. Goods travel at consignee's risk, even if sold free at destination.
In case of request, please refer only to the code number of each single item..

8.0 SCHEMA IMPIANTO OLEODINAMICO

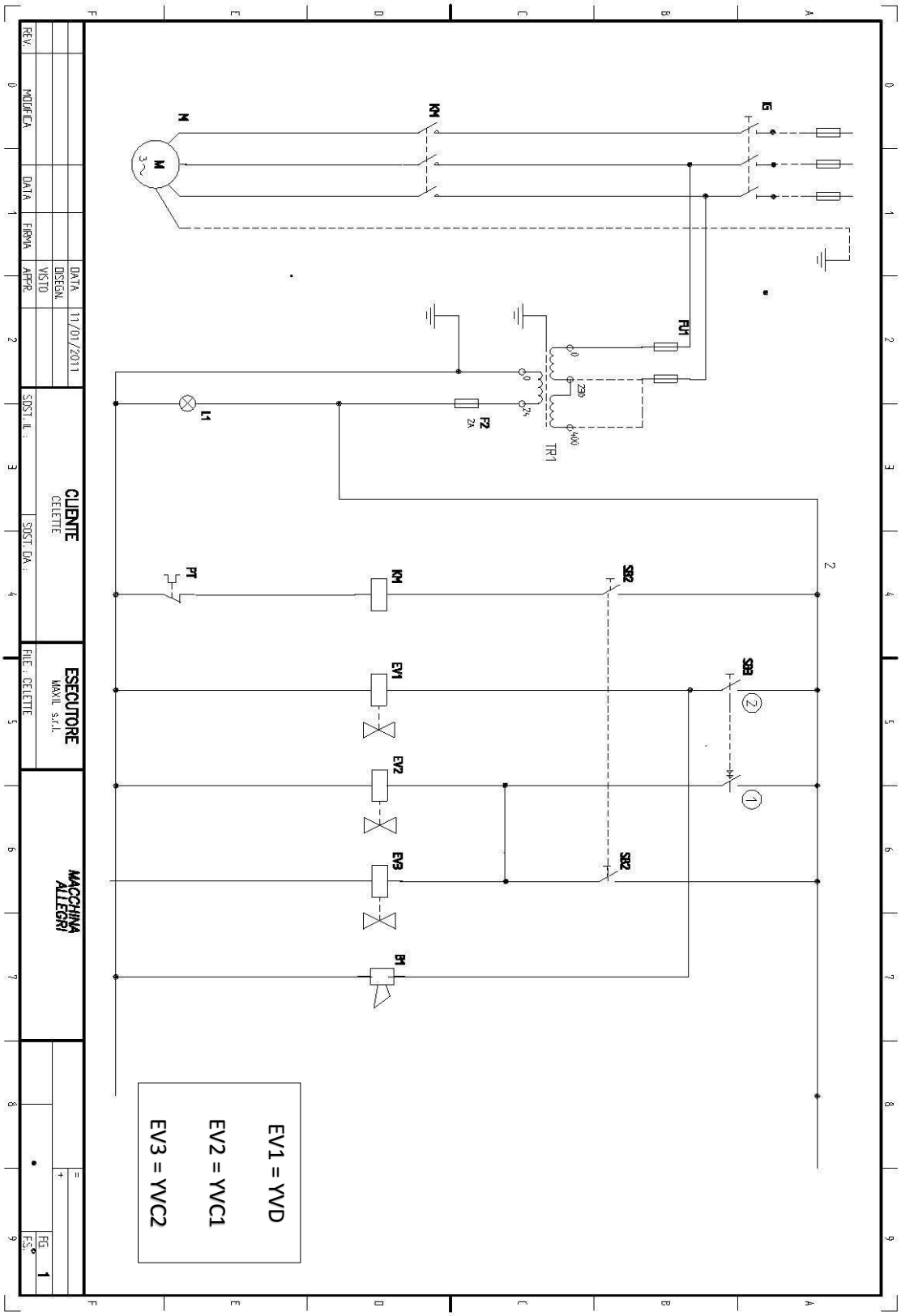


LEGENDA / LIST

P1- Pedana P1 / Platform P1
P2- Pedana P2 / Platform P2
M - Motore / Motor
P - Pompa / Pump
T - Serbatoio / Tank
F: Filtro / Filter
VR: Valvola di ritegno / valve
VS: Valvola di sicurezza / valve
VCD: Valvola controllo discesa / valve
PU: Centralina / power unit

YVD - Elettrovalvola discesa / Descent electr.
YVC1- Elettrovalvola circuito 1 / Circuit 1 electr.
YVC2- Elettrovalvola circuito 2 / Circuit 2 electr.

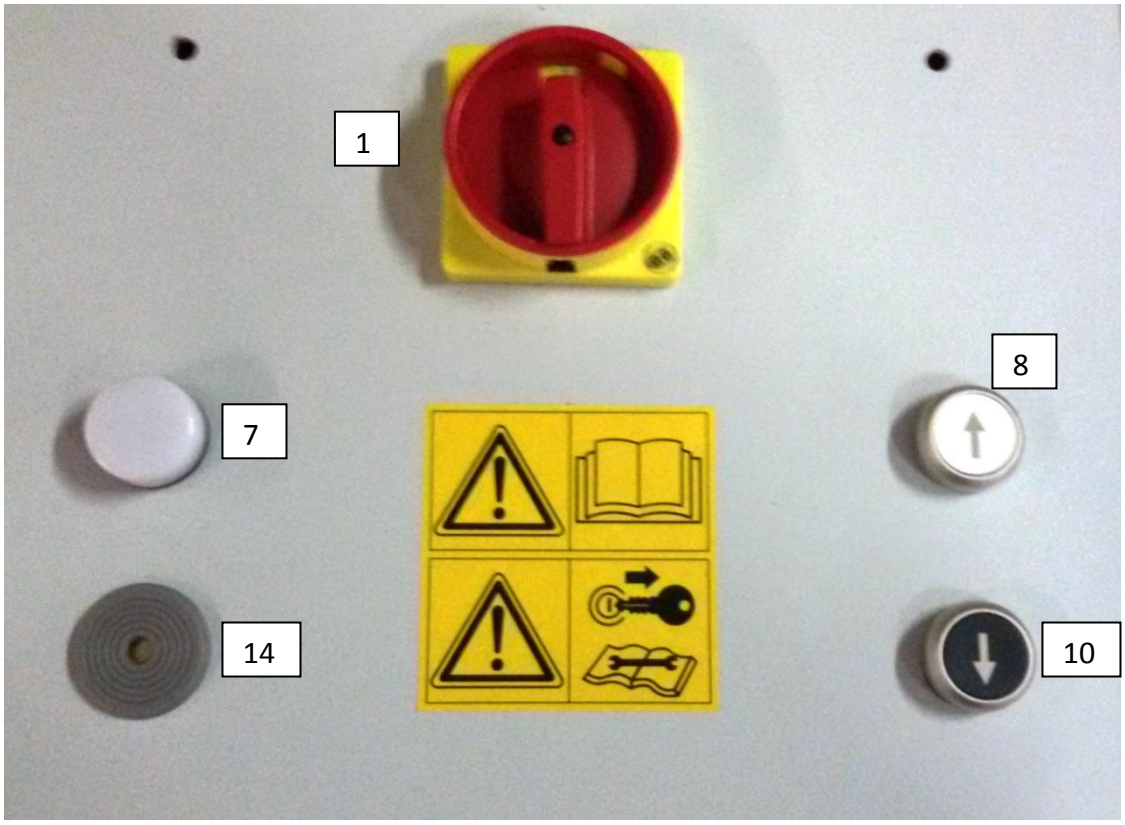
8.1 SCHEMA IMPIANTO ELETTRICO 230/400V 3PH / WIRING DIAGRAM 230 / 400V 3PH

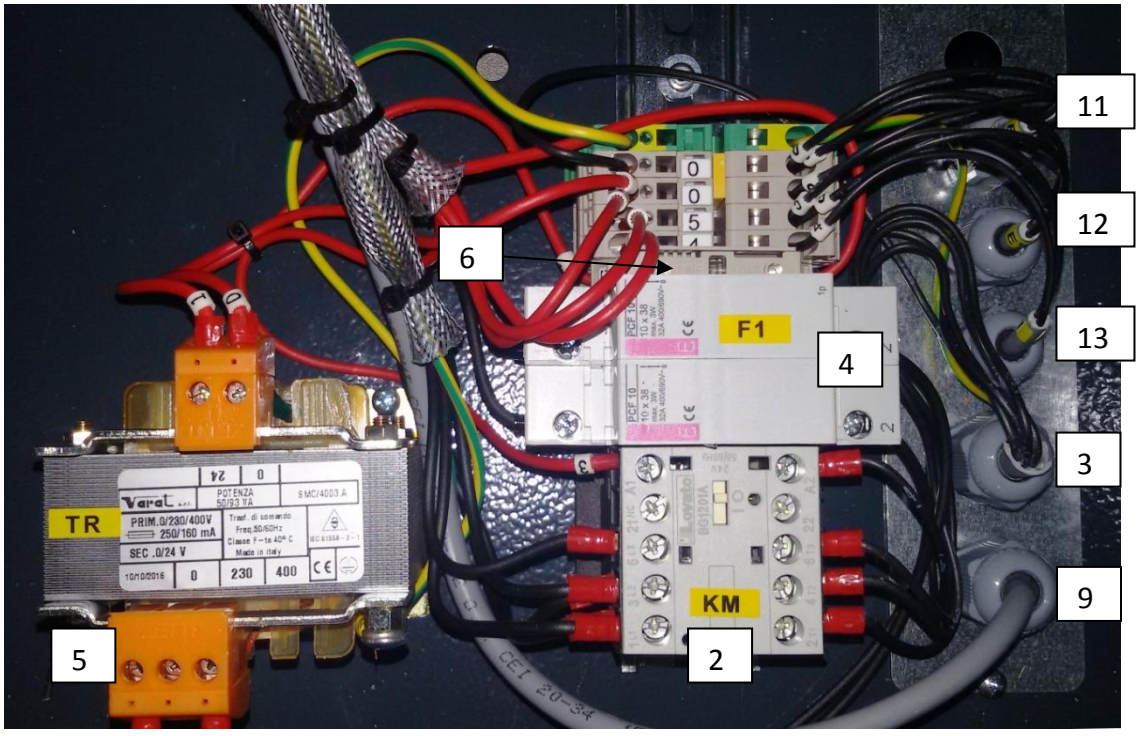


8.1.1 DESCRIZIONE SCHEMA / DESCRIPTION SCHEME

RIF,	SIGLA	DESCRIZIONE / DESCRIPTION	MODEL	CODE
1	G	INTERRUTTORI 3P 16A FINITURA 67X67 LUC.	P0160003R062	MXAA1
2	KM	CONT. 9A 024V 50-60HZ 4KW APERTO	BG0910A024	MXAA2
3	M	MOTORE 2,6 KW + PASTIGLIA TERMICA		MXAA3
4	FU1	FUSIBILI 4 A 10 X 38		MXAA4
5	TR	TRASF. 50VA 0/230/400 0/24	SMC/4003.A	MXAA5
6	F2	FUS VETRO 5X20 RAPIDO 2A 250V		MXAA6
7	L1	LAMPADA PRESENZA TENSIONE	PLS05+PCWL24	MXAA7
8	SB2	PULSANTE SALITA	PPRN5NL/F1 + PCW10	MXAA8
9	PT	PROTEZIONE TERMICA	INTERNA MOTORE	MXAA9
10	SB3	PULSANTE DISCESA	PPRN8NL/F1 + PCW10	MXAA10
11	YVD	ELETTROVALVOLA DI SCARICO	VEDI TABELLA	MXAA11
12	YVC1	ELETTROVALVOLA CONTROLLO CIRCUITO 1	VEDI TABELLA	MXAA12
13	YVC2	ELETTROVALVOLA CONTROLLO CIRCUITO 2	VEDI TABELLA	MXAA13
14	B1	CICALINA INTERMITTENTE (BUZZER)	PL27N35EPQ	MXAA14
15	FA	INT. PREC. AD ASTA	NA B110HB DN2	MXAA15

8.3 PIANTA QUADRO COMANDO / PLANT CONTROL PANEL





9- RISERVATO AL TECNICO INSTALLATORE / RESERVED TO THE INSTALLER TECHNICIAN

VERIFICA DA COMPIERSI AL TERMINE DELL'INSTALLAZIONE CHECKS TO BE CARRIED OUT AT THE END OF THE INSTALLATION

	CONTROLLI	SI	NO	NOTE
1	Check of screw securing lift to floor correct installation and sealing capacity			
2	Check of correct electric hook-up (according to standards)			
3	Check of correct operation (according to manual)			
4	Check for correct operation of the (accidental misalignment) hydraulic safety devices			
5	Check for electric safety devices correct operation			
6	Check for correct automatic alignment at maximum height			
7	Check of oil level			
8	Check for sliding members and friction parts correct lubrication			
9	Check for emergency switch operation			
10	Check of emergency lowering operation			
11	Check of label application according to diagram			
12	Full-load lift testing			
13	Check for user's correct understanding of lift operation			
14	Check for user's correct understanding of lift operation			
15	Inspection records filling out			

NOTE

STAMP / SIGNATURE INSTALLER	STAMP / SIGNATURE USER

10- RISERVATO ALL'UTILIZZATORE / RESERVED TO THE USER

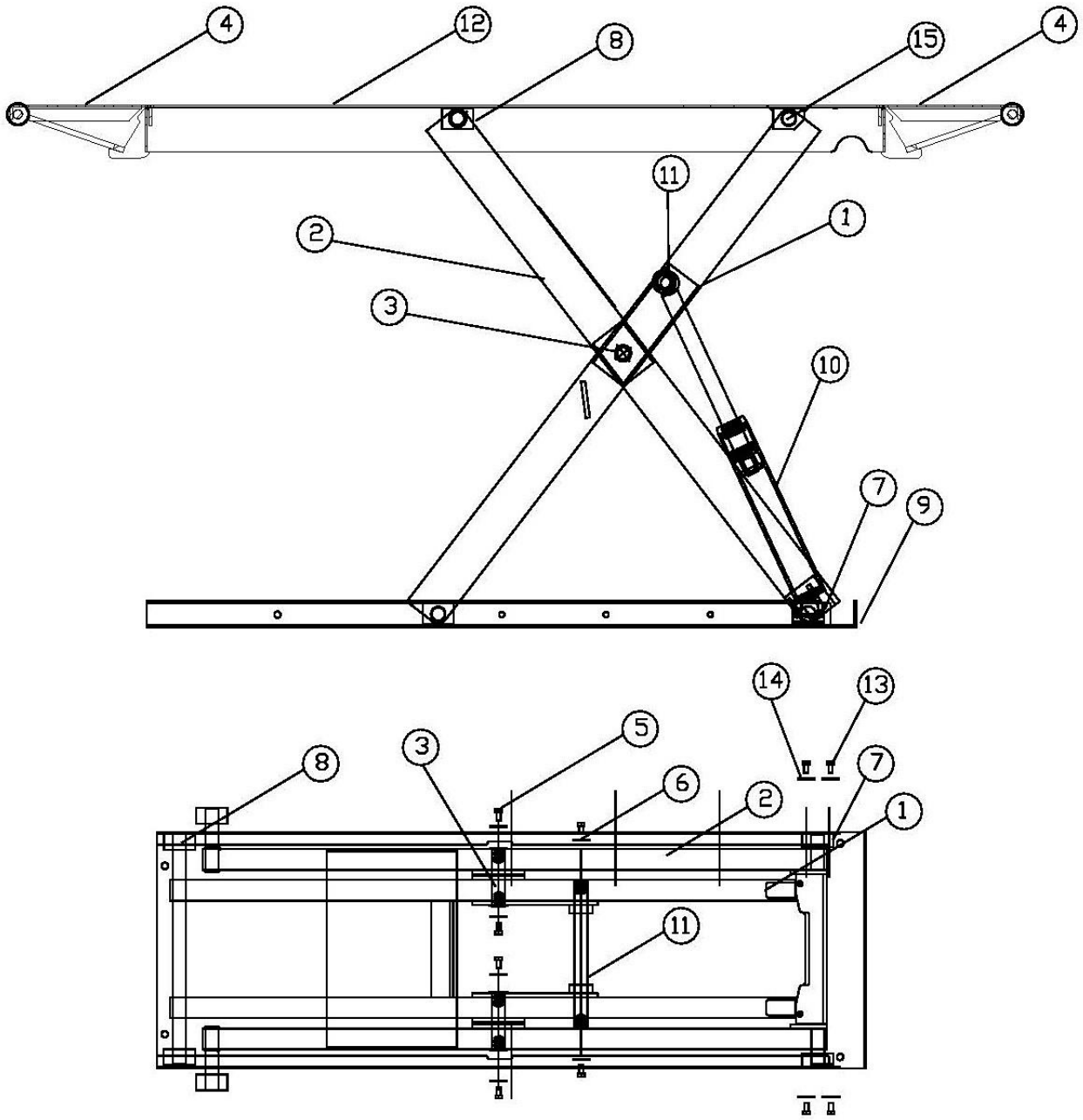
VERIFICA DA COMPIERSI AL TERMINE DELL'INSTALLAZIONE / CHECK TO BE CARRIED OUT WHEN THE INSTALLATION IS COMPLETE

	CONTROLLI / CONTROLS	SI	NO	NOTE
1	Check of screw securing lift to floor correct installation and sealing capacity			
2	Check of correct electric hook-up (according to standards)			
3	Check of correct operation (according to manual)			
4	Check for correct operation of the (accidental misalignment) hydraulic safety devices			
5	Check for electric safety devices correct operation			
6	Check for correct automatic alignment at maximum height			
7	Check of oil level			
8	Check for sliding members and friction parts correct lubrication			
9	Check for emergency switch operation			
10	Check of emergency lowering operation			
11	Check of label application according to diagram			
12	Full-load lift testing			
13	Check for user's correct understanding of lift operation			
14	Check for user's correct understanding of lift operation			
15	Inspection records filling out			

NOTE

STAMP / SIGNATURE INSTALLER	STAMP / SIGNATURE USER

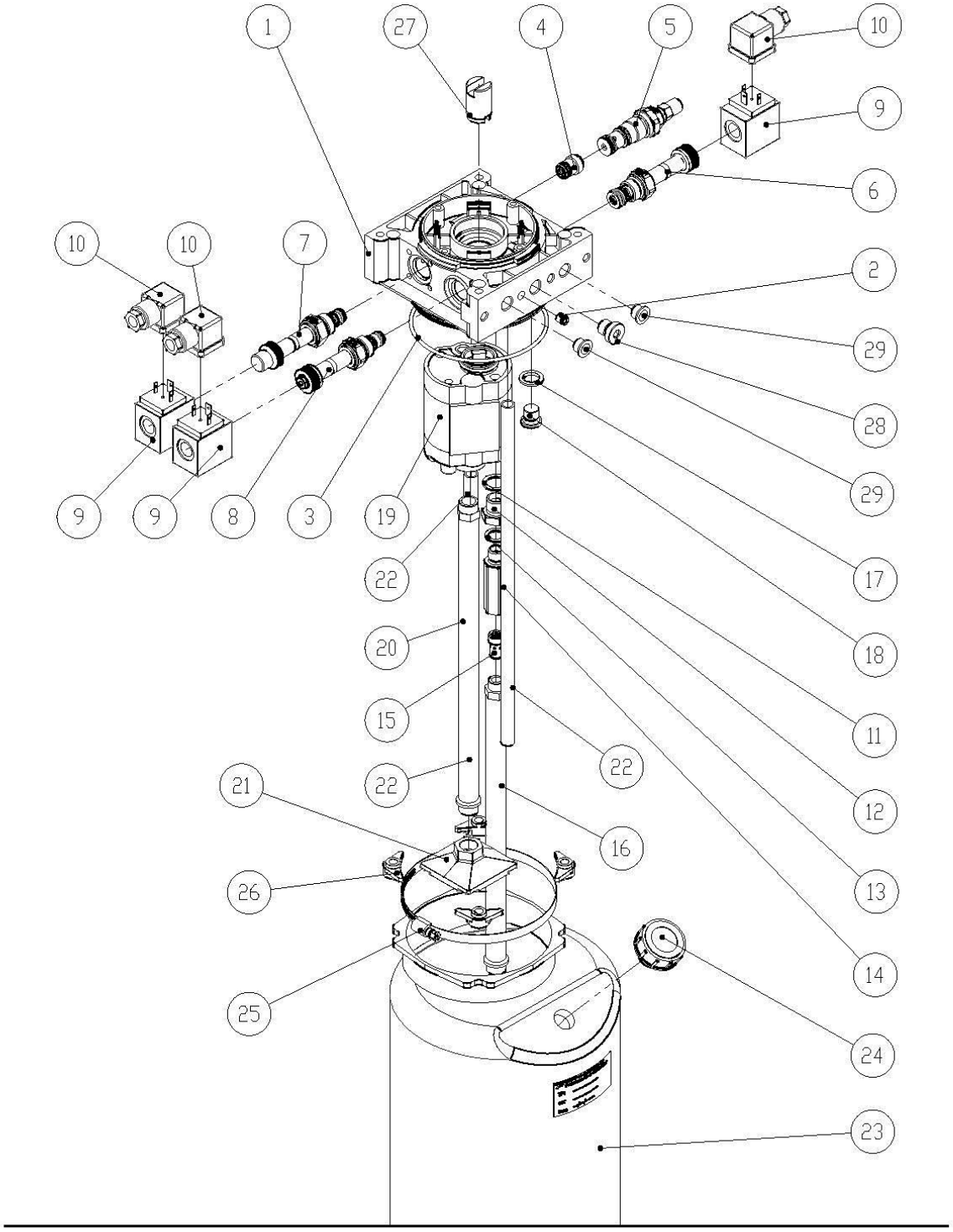
TAV.1: FORBICI E COMPONENTI / *SCISSORS AND COMPONENTS*



TAV.1 FORBICI E COMPONENTI / *SCISSORS AND COMPONENTS*

1	1059912	BIELLA INTERNA	
2	1059917	BIELLA ESTERNA	
3	1059924	PERNO CENTRALE	
4	1059919	RAMPA SALITA- PROLUNGA	
5	GWL50816	VITE	
6	GAX10108	RONDELLA	
7	1059922	SUPPORTO	
8	1059925	PATTINO	
9	1059903	BASE	
10	1059951	CILINDRI SALDATI	
11	1059954	PERNO PISTONI	
12	1059930	PEDANA	
13	GWL51016	VITE M10x20	
14	GAX06110	RONDELLA D.10x30	
15	1059932	PERNO PEDANA	

TAV. 2: CENTRALINA IDRAULICA / *HYDRAULIC UNIT*

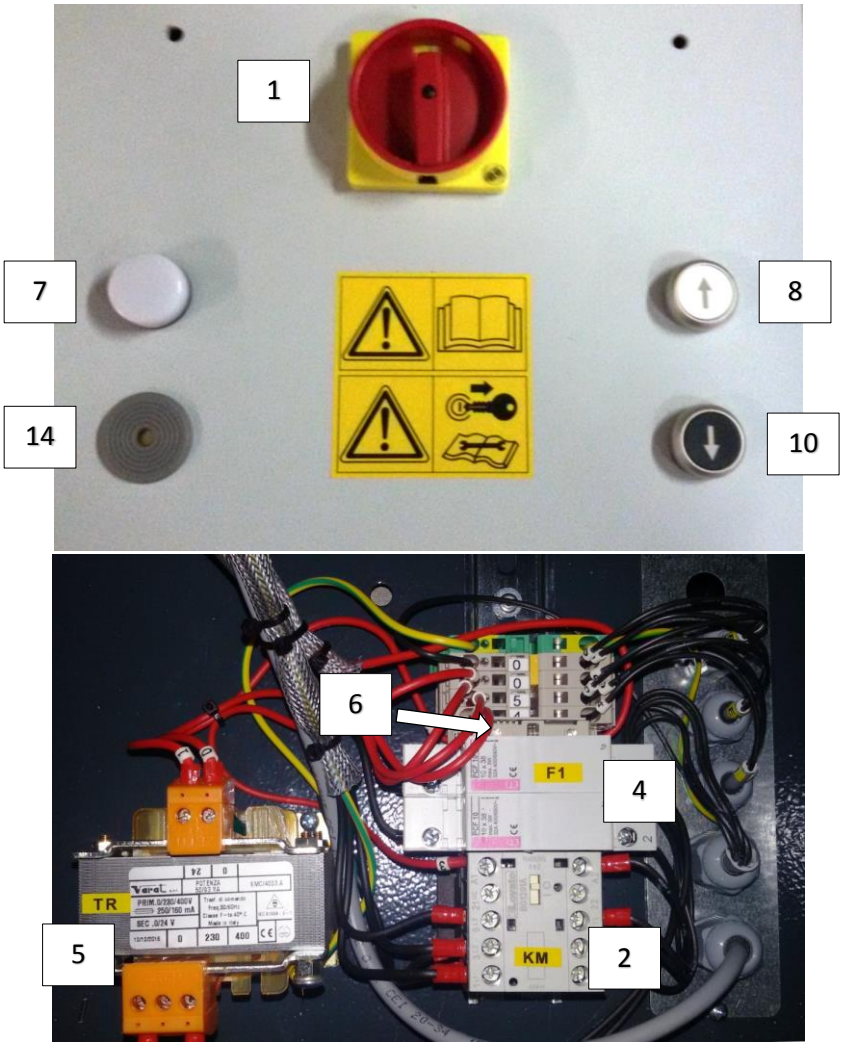


TAV. 2: CENTRALINA IDRAULICA / *HYDRAULIC UNIT*

Tabella Distinta materiali

Num. articolo	Num. parte	DENOMINAZIONE	Quantità
1	S515G02KEL22	Collettore lav KEL22; B2C	1
2	EC035M08	Tappo expander Ø8	1
3	EC114611	O-Ring NBR 70Sh. 112.00x3.00	1
4	F732006	Valvola ritegno VU3	1
5	F733007360L	Valvola max VML1 360 bar piombatura in acc.	1
6	F720005B2	Valv. el. VE2-NC-DT-EM 15,87 DC gA	1
7	F720001B1	Valvola el. VE6-NC-EM 12,7 DC gC	1
8	F720005B1	Valvola el.VE2-NC-DT-EM 12,7 DC gA	1
9	C150001DV	Bobina sovr. 24Vrac N-H13	3
10	EC167007	Connettore DIN43650 2P+T RAC (1A)	3
11	EC012003	Rondella rame ricotto 3/8"	1
12	EC062001	Riduzione mezzo nipples M3/8- F1/4	1
13	EC012002	Rondella rame ricotto 1/4"	1
14	ES422004	Colonnetta spec. M-F(G1/4")	1
15	F7370614	VRF14-6 -Stroz. comp fisso 6lt 1/4	1
16	ES524BA300	4D300-Tubo aspir. pl. 1/4" L=300	1
17	EC014002	Rondella bonded da 1/4"	1
18	EC030002	Tappo 1/4" BSPP - DIN 908	1
19	EC10914.20008	Pompa gr1 - 4,20cc - S - 302 SX	1
20	ES524AA320	Tubo di aspirazione pl. 3/8" L=320	1
21	ES5063500001	Filtro aspirazione polipropilene 3/8" BSPP	1
22	ES52301101	Tubo di scarico fe. M12x1 L350	2
23	ES512AC11BV	Serbatoio pl. 123, 11,0lt. B Vert.	1
24	EC1270112	Tappo di carico+ filtro TMDF-1/2"	1
25	C05609110130	Fascetta H9 Ø110-130	1
26	ES419002	Dado angolare speciale M6	4
27	ES5085320009	Giunto att. dietto FA02; FC03-FC04 (PU10)	1
28	EC031001	Tappo TCEI con OR, 1/4"	1
29	EC12601ST12	Tappo in plastica 1/4"	2

TAV. 3 : QUADRO COMANDO / *CONTROL PANEL*



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6	F2	FUS VETRO 5X20 RAPIDO 2A 250V		MXAA6
7	L1	LAMPADA PRESENZA TENSIONE	PLS05+PCWL24	MXAA7
8	SB2	PULSANTE SALITA	PPRN5NL/F1 + PCW10	MXAA8
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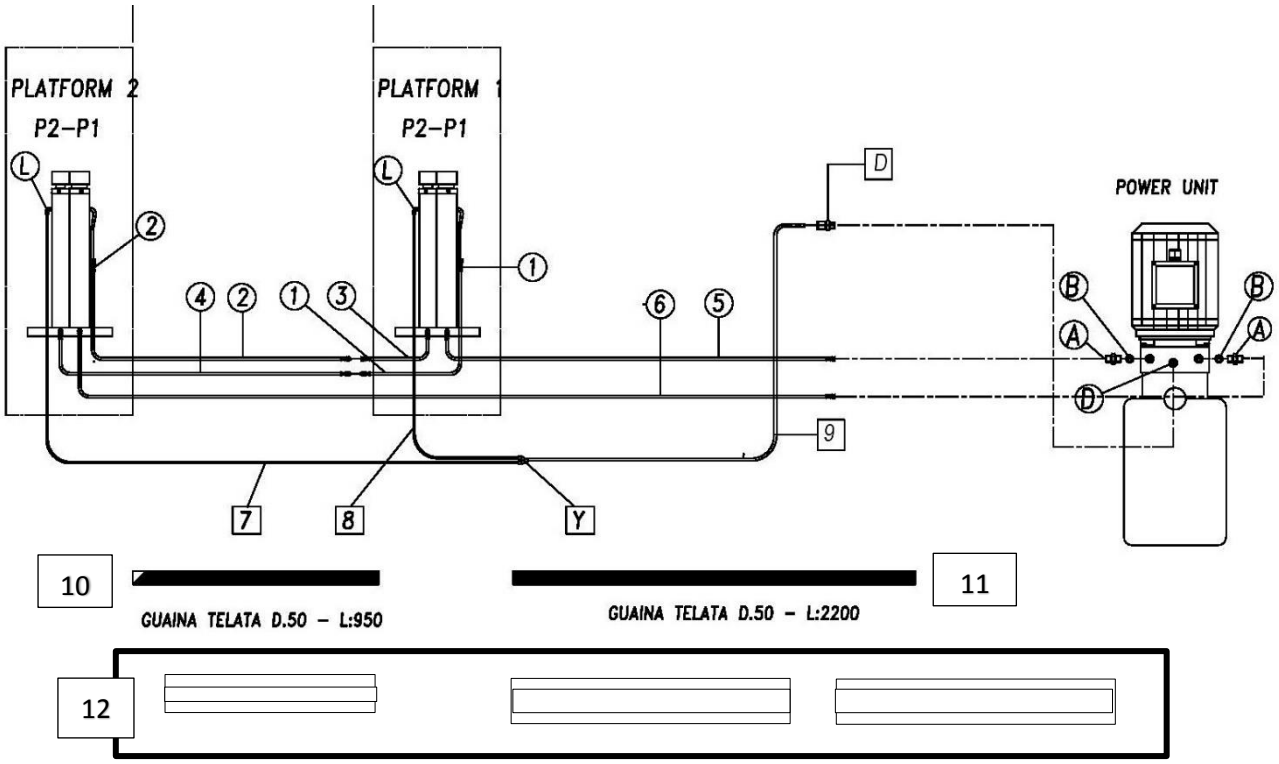
14	B1	CICALINA INTERMITTENTE (BUZZER)	PL27N35EPQ	MXAA14
15	FA	INT. PREC. AD ASTA	NA B110HB DN2	MXAA15

TAV. 4 IMPIANTO OLEODINAMICO / HYDRAULIC PLANT



REF.	*DESCRIZIONE*	*DESCRIPTION*	
1	TUBO OLEODINAMICO	HYDRAULIC PIPE	
2	TUBO OLEODINAMICO	HYDRAULIC PIPE	
3	TUBO OLEODINAMICO	HYDRAULIC PIPE	
4	TUBO OLEODINAMICO	HYDRAULIC PIPE	
5	TUBO OLEODINAMICO	HYDRAULIC PIPE	
6	TUBO OLEODINAMICO	HYDRAULIC PIPE	
7	TUBO OLEODINAMICO	HYDRAULIC PIPE	
8	TUBO OLEODINAMICO	HYDRAULIC PIPE	
9	TUBO OLEODINAMICO	HYDRAULIC PIPE	
A	RACCORDO	FITTING	
B	RONDELLA BONDED	WASCHER	
D	RACCORDO	FITTING	
Y	RACCORDO	FITTING	
L	RACCORDO	FITTING	
10	GUAINA DI PROTEZIONE CORTA	SHORT PROTECTION SHEATH	
11	GUAINA DI PROTEZIONE LUNGA	LONG PROTECTION SHEATH	

12	*KIT COPERTURE TUBI IN METALLO*	*KIT METAL COVER*	
	COPERTURA CENTRALE	CENTRAL COVER	L. 750
	COPERTURA LATO CENTRALINA	COVER	L. 1250
	COPERTURA LATO CENTRALINA	COVER	L. 1250

TAV 5 : CENTRALINA CONTROL UNIT

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