



EFFEMME

ponti sollevatori - lifts

SINGLE SCISSOR MOBILE LIFT

WIZARD

UP 30 M

OPERATING INSTRUCTIONS ORIGINAL INSTRUCTIONS



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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.



CAUTION

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CAUTION

A copy of the manual needs to be given to the operator, and it must be ascertained that he has seen it and therefore knows how to safely drive the machine. The safety of the use of the machine is guaranteed only by scrupulously following the functions listed in this manual.



The owner and/or the production manager is obliged to provide the user of the machine with all the information and assistance necessary to safeguard his physical health.

1 – INTRODUCTION

This manual contains instructions for handling, installation, use and maintenance of the device manufactured by **HTC s.r.l.** and named **Wizard UP30M**.



CAUTION

The observance of the instructions contained in this manual, allows to operate during the phases of handling, installation, use and maintenance in safety conditions ensuring, moreover, the regular operation of the machine. HTC s.r.l. declines all responsibility due to negligence and failure to comply with these instructions.

2 – GENERAL SAFETY AND ACCIDENT PREVENTION STANDARDS

Pay max attention to the warning signs described in this manual. There are three levels of danger:



This signal warns that if the operations described are not correctly performed, the operator is exposed to serious risks of possible injury, long-term damage or death.



This signal warns that if the operations described are not correctly performed, the operator is exposed to risks of possible injury, long-term damage or death.



This signal warns that if the operations described are not correctly performed, the machine may be damaged.

This manual is intended for the user and for those responsible for the correct and safe use of the machine. Read carefully the warnings contained in it that provide indications for optimal and risk-free use. Familiarize with the controls and operations prescribed for a safe use. Keep this manual always with the machine in order to make any future consultation possible. The manual must follow the machine in case of transfer.

In case of damage or loss, you can ask for a duplicate the manufacturer that will send a copy. The content of this is in compliance with the directive 2006/42/CE.



DANGER

In order to prevent third-party risks, the user, before starting the work cycle, must make sure that there are no people or things near the machine.



DANGER

Carry out any type of operation on the machine only after wearing appropriate personal protective equipment (protective gloves and goggles / protective shield).



DANGER

Report immediately to the owner of the machine and / or to the safety manager any faults or anomalies detected, including those found on the pneumatic pump or on the connecting pipes.

The operator in charge of using the machine must be suitable for carrying out the work, must have a perfect knowledge of how it works and how it should be used.



The operator must scrupulously follow the instructions contained in the manual to ensure his own safety and of others.

Using a padlock, to be applied to the main supply valve, it is possible to prevent the use of the machine by unauthorized personnel.

This machine has been designed, built and CE approved in accordance with the Directive 2006/42/CE (Machinery Directive) and to the EN 1493:2010. The owner of the machine (or the employer) and the user must observe the following basic safety precautions:

The owner of the machine (or the employer) must allow its use only to qualified operators, trained using manufacturer's instructions for safe use of the machine and correctly informed of its operation.

The owner of the machine (or the employer) must establish procedures to periodically inspect the machine according to the manufacturer's instructions. The owner of the machine (or the employer) must make sure that the machine inspectors are qualified and that they are adequately trained in the control of the machine.

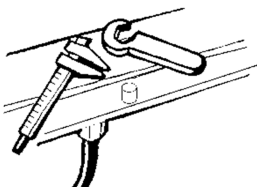
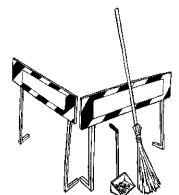
The owner of the machine (or the employer) must establish procedures for the maintenance of the machine according to the methods and the periodicity provided by the manufacturer. The owner of the machine (or the employer) must ensure that the technicians in charge are qualified and that they are adequately trained in machine maintenance.

The owner of the machine (or the employer) must keep the inspection and periodic maintenance records required by the machine manufacturer.

The owner of the machine (or the employer) must keep this manual in a well-visible place near the machine and easily reachable by the operator

2.1 – WORKING PLACE

The working place must be kept clean and in orderly conditions. In particular, hazardous areas must be duly demarcated. The working area around the machine and of any load devices must be free of obstacles.



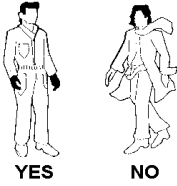
Working tools and materials must not be left on the machine (or in places where they can interfere with mechanical movements) and must not be left in places where they can fall and cause damage to people and / or things..

The used tools must be in good condition because any deteriorated tool, or in any case under not optimal conditions, is a potential cause of danger.





Do not clean or touch any moving mechanical parts.



The use of non-adherent clothing (eg scarves, ties, etc.) can be dangerous. Always use tight clothing.

Immediately remove oil / grease from the working area to prevent the risk of slipping / tripping.



3 – WIZARD UP30M LIFT DESCRIPTION

This machine is a mid-raise lift for vehicles, double platform and single scissor, designed to lift light vehicles in order to allow repair. 'M' version points out the possibility to move the lift in any part of the workshop.

The lift has been designed for exclusive use indoors and it has not been foreseen that it can be used to lift people.

The lift consists of 2 platforms mechanically independent operated by a pair of hydraulic cylinders. The synchronization of the platforms is guaranteed by the presence of two torsion bars that rigidly connects scissors.

The lift has a capacity of 3000 kg.



CAUTION

The use of oil at a higher pressure than the maximum recommended could compromise the safe use of the machine. Always check that the oil supply pressure does not exceed the recommended value.



CAUTION

The use of the machine it is not intended in places where the temperature is lower than -10°C , as it may cause the reduction of lowering/lifting speed.



CAUTION

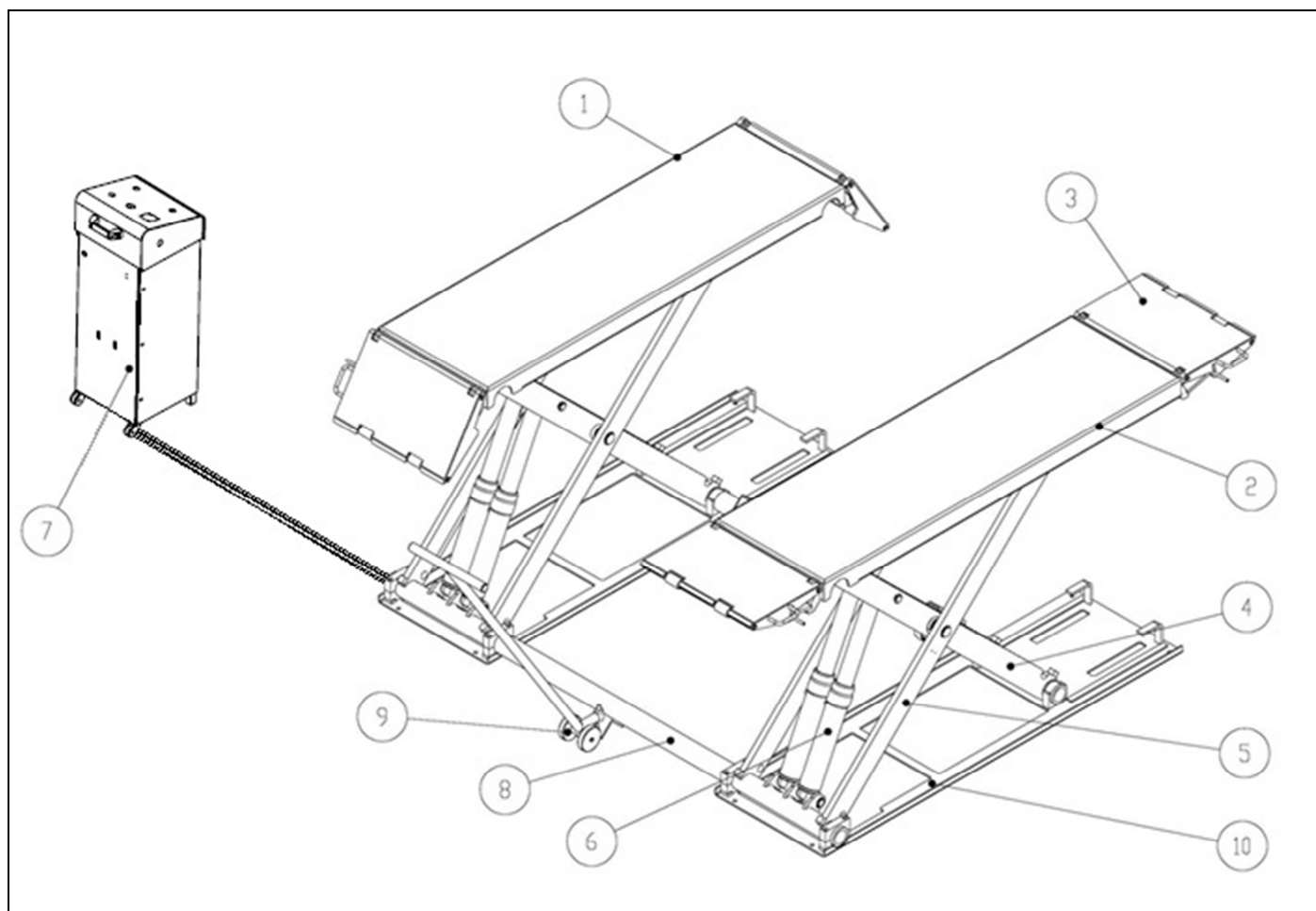
Do not exceed the maximum capacity of the lift.



It is not allowed any use other than that for which the machine was designed.

The execution of work not foreseen in the design phase could jeopardize the correct functioning of the machine, generating unforeseeable risk.

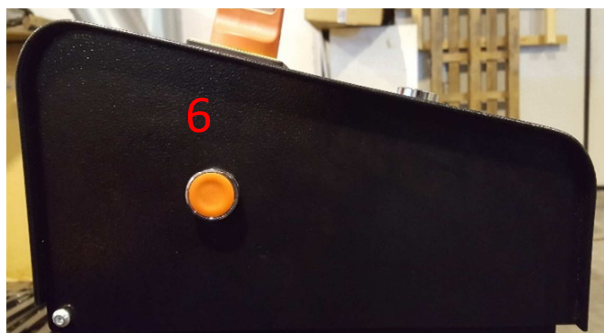
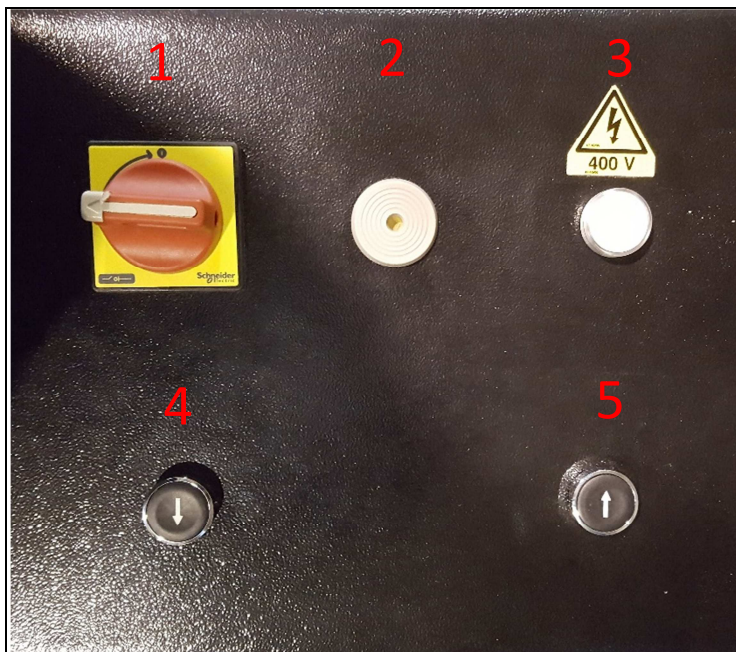
Wizard UP30M lifts are composed as below:



1	P1 PLATFORM
2	P2 PLATFORM
3	RISING RAMPS
4	INTERNAL SCISSOR
5	EXTERNAL SCISSOR
6	HYDRAULIC CYLINDERS
7	CONTROL UNIT
8	TORSION BAR
9	WHEELS
10	BASE

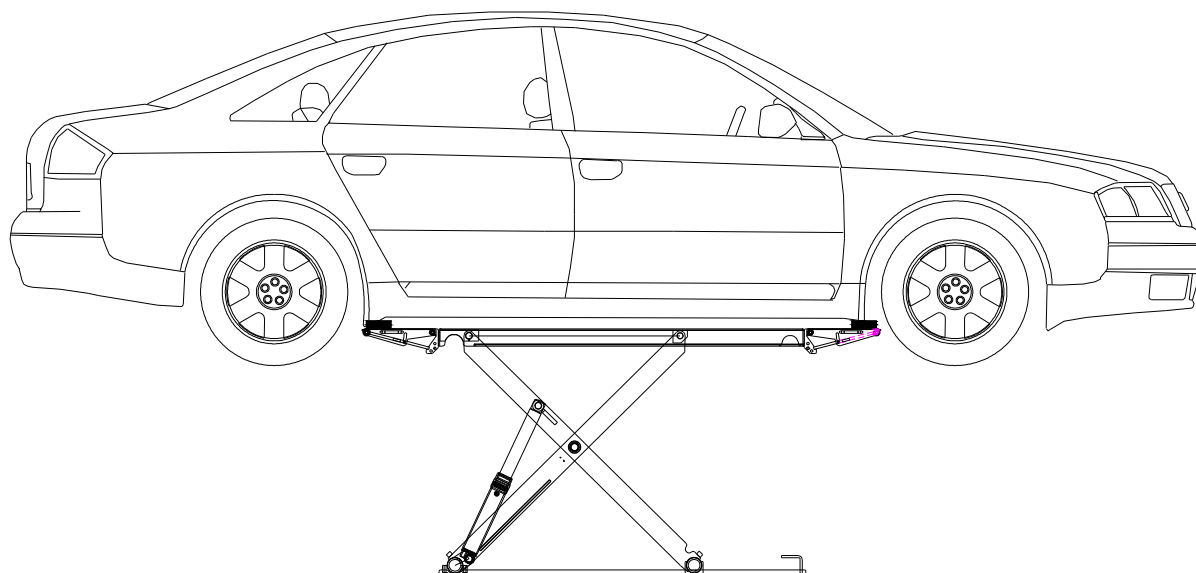
SCISSORS - PLATFORMS: The lift arms are made from 80x20 steel profiles, while the platform is formed by a shaped steel sheet with reinforcement uprights and connected to the arms with steel pins in fixed points and with sliding blocks in moving points. All the articulations of the lifting system have maintenance-free self-lubricating bushings.

CONTROL UNIT: It consists of a metal box containing the oil tank and the pump-motor unit, the solenoid valve group and the connections for the electric and hydraulic power supplies. The controls are housed on the console, all operate under 24 V voltage and are of the "man present" type. The commands are shown in the following pictures:

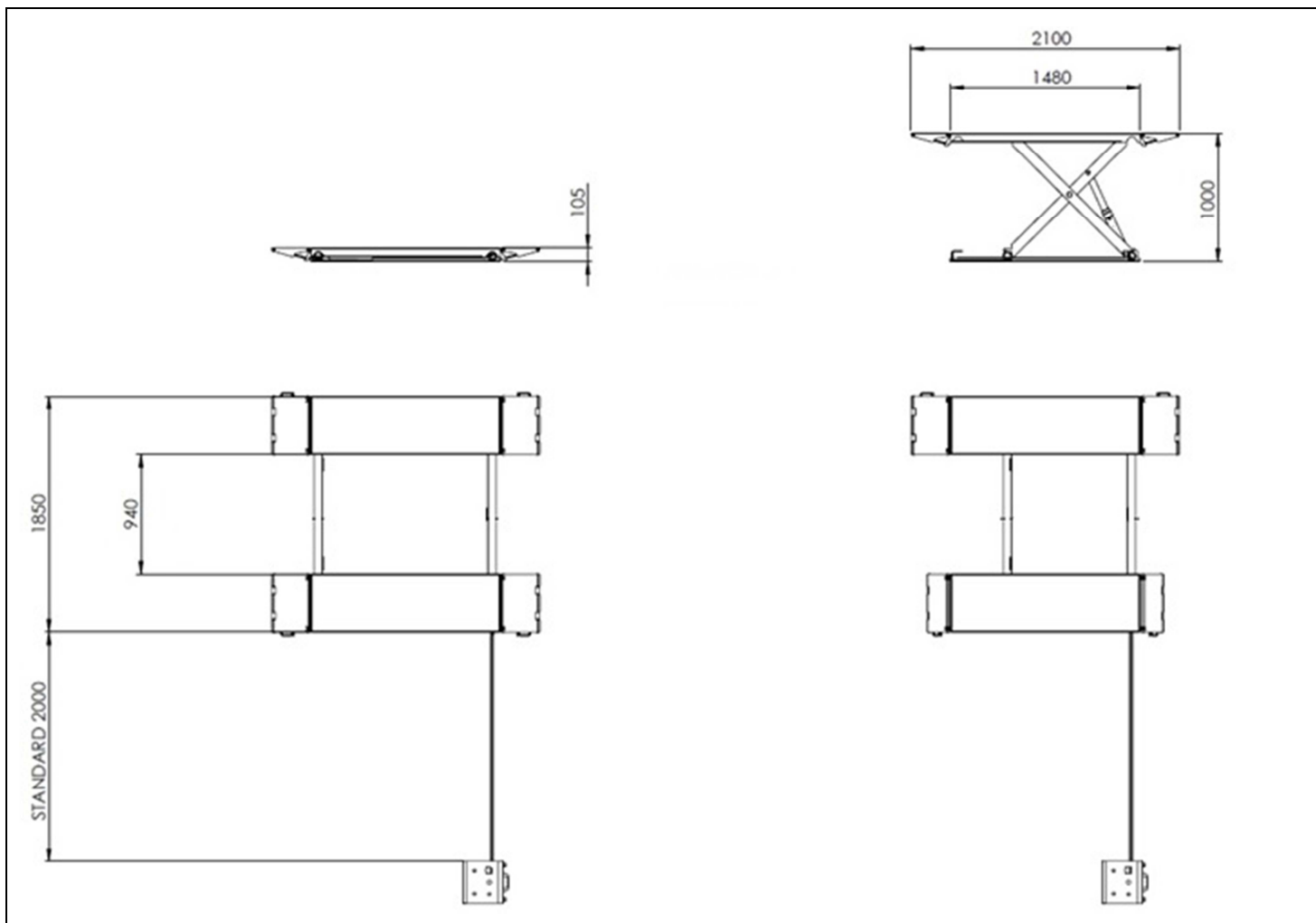


1. **Master switch:** The switch can be padlocked to prevent the use of the lift during the maintenance.
2. **Beeper:** signals with a high pitch the descent of the lift above the safety height.
3. **Led:** indicates the operation of the lift.
4. **Lowering button:** pushing it, the solenoid valves that actuate the lowering of the lift gets activated.
5. **Lifting button:** pushing it, the mechanisms actuating the lifting are activated.
6. **Limit switch exclusion button:** pressing it excludes the electric limit switch.

Wizard UP30M are suitable for lifting all types of cars and vans with a weight not exceeding 3000 kg.
The vehicle is gripped on the chassis by 4 rubber pads (supplied), leaving the wheels of the vehicle free.



OVERALL DIMENSIONS:



TECHNICAL DATA

- Operation : Electro-hydraulic.
- Capacity : 3000 Kg
- Weight : 450 Kg
- Lifting time : 20 sec.
- Lowering time : 25 sec.
- Motor : 3ph 230 - 400V 2.2 kW 50/60Hz
- Noise level : < 70dB(A)
- Working temperature : -10° / +50°
- Working Max. pressure : 260 bar
- Power : 5,3 A

CHARACTERISTICS

- Low voltage controls (24V).
- Mechanical synchronism with two torsion bars.
- Hydraulic system equipped with safety mechanism in case of failure due to broken or cut tubes.
- Hand lowering device in case of power failure.
- Acousting signal in lowering phase.



CAUTION

Dimensions and characteristics of the Wizard UP30M may change without notice.

3.2 – CE PLATE

Following information are marked on the plate attached to the machine:

- Name and address of the manufacturer
- Machine model
- Max capacity of the lift
- Serial number
- CE and manufacturing date

MANUFACTURER:			HTC S.r.l. Via degli Eletttricisti 64020 Scerno di Pineto, Teramo, Italia	
CONSTRUCTEUR:				
HERSTELLER:				
TYPE:	Vehicle Lift	CAPACITY:	3000 kg	
MODELE:	Wizard UP30M	CAPACITÉ:		
MODELL:		KAPAZITÄT:		
SERIAL Nr.:				
N° DE SERIE:				
SERIEN. Nr.:				
		DATE:		
		ANNEE:		
		BAUJAHR:		
MADE in ITALY				



Data shown on the identification plate must always be mentioned for assistance and spare parts.

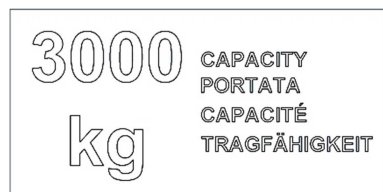
3.3 – SAFETY PICTOGRAMS

It is very important to read this chapter carefully as it contains essential information on the risks that the operator and maintenance technician could take in case of incorrect or improper use of the lifter. They are required to comply with the provisions contained in the laws and accident prevention regulations in force in the country in which the lift is installed.

Lift capacity

CAUTION!

In first cm of vertical stroke the lift is manufactured to support a reduced capacity as from the following scheme:



Platform height from ground [mm]	Stroke [mm]	Max. capacity [kg]
105	0	1000
115	10	1150
160	55	1800
205	100	2450
250	145	3000

The lift is designed to be loaded with full load only when the platform height from ground is min. 250mm. Do not overload the structure for any reason by exceeding the maximum recommended load.

The maximum capacity is to be understood as the maximum overall weight that can be lifted and does not refer to the vehicle's empty weight only.



Danger crushing feet

DANGER!

Always check that there is sufficient space around the raised vehicle to ensure correct use of the lift, paying particular attention to the dimensions of the vehicle and referring to any applicable regulations regarding safety at work.



Danger crushing hands

DANGER!

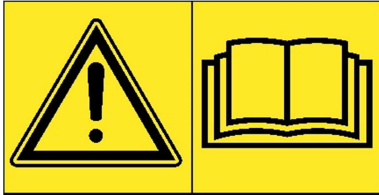
In order to prevent risks to third parties and / or damage to property, before performing any operation the user must make sure that there are no things or people close to the lift.



Prohibition to lift people

DANGER!

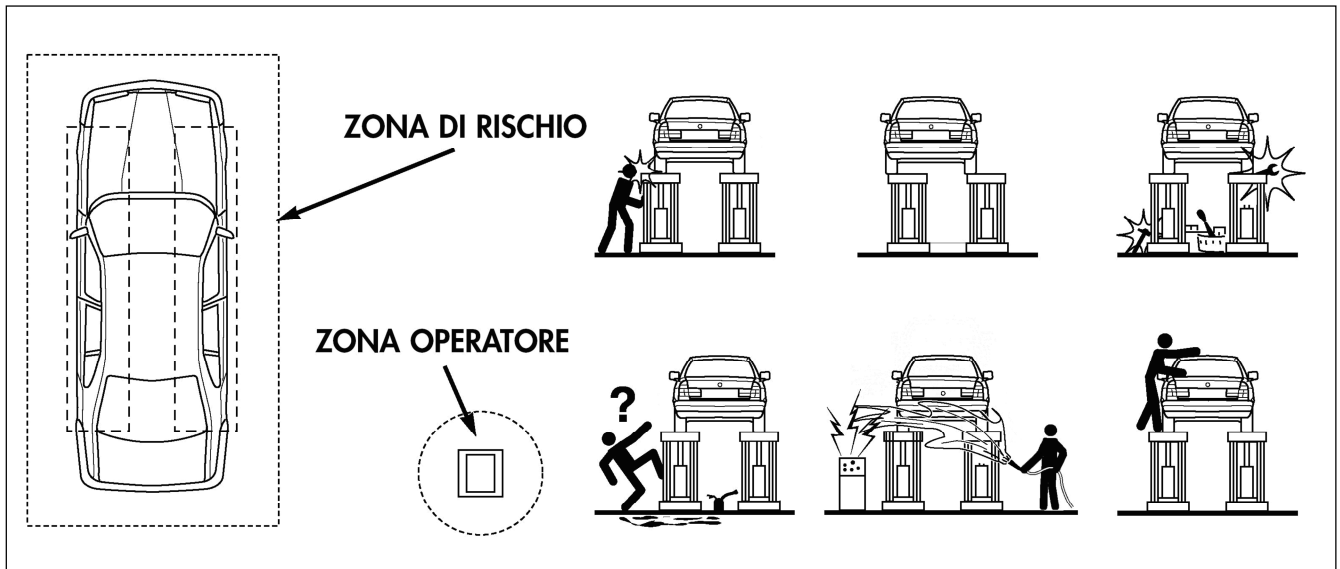
It is absolutely forbidden to lift people with this machine. Do not climb on the car or on platforms when the load is lifted.



CAUTION!

The machine must not be put into service until the user has read and understood all the contents of this manual.

The safety pictograms are shown in the following figures.



DANGER

The machine must not be put into service until the user has read and understood all the contents of this manual.

Using a padlock, to be applied to the main supply valve, it is possible to prevent the use of the machine by unauthorized personnel.



DANGER

It is important that during the lifting or lowering of the lift, the operator only acts in the control area reserved to him as shown in the figure above.



DANGER

It is forbidden for anyone to stop or transit within the risk area while the lift is operated and in any case when the vehicle is already lifted.



DANGER

Do not use the machine without the protections or while they are deactivated or tampered.



DANGER

To lift the vehicle, use the rubber pads available respecting the correct support points recommended by the vehicle manufacturer.



DANGER

After positioning the vehicle on the lift, stop the engine and insert the parking brake, remember to disengage the gear lever and place it in the neutral gear.



DANGER

To avoid the risk of falling of the vehicle, ensure its correct positioning.



DANGER

It is forbidden to get on the vehicle and / or start it with the lifter lifted.



DANGER

It is forbidden to leave objects under the vehicle when lowering the lift.



DANGER

Keep the area near the lift clean by cleaning the oil stains to avoid dangerous slipping.



DANGER

It is forbidden to use jets of water, steam, paints and solvents in the areas near the lift and the control unit.



DANGER

Presence and "climbing" of people on platforms or under platforms both during lifting and when the vehicle is lifted is strictly forbidden.



DANGER

It is forbidden any different use of the lift other than that for which it was designed, non-compliance with this rule can cause serious accidents to people and things



DANGER

In case of abnormal action of the lift, stop it and switch off the on / off selector by locking it with a padlock. Restoring operation must be done by expert personnel. Before repair and maintenance of the lift make sure that the power supply is disconnected from the main power supply.



DANGER

Each operator must take vision and be able to recognize the meanings of the symbols shown. The adhesive signals must not be detached, tampered or destroyed. The owner of the machine is obliged to provide for their replacement, if they are damaged or illegible.



DANGER

Load and unload the machine with the utmost care, making sure that there are no persons or objects in the range of the lifting device during handling.



3.4 – CONDITIONS OF THE WORKING AREA

The machine has been designed exclusively for indoor area use. Therefore it is not allowed to use it outdoors.

Room temperature: 10÷35 °C

Humidity of the air, %, max: 80



CAUTION

Check that there is enough space around the machine to guarantee correct use according to the size of the vehicle to be repaired and in compliance with the safety regulations in force.



DANGER

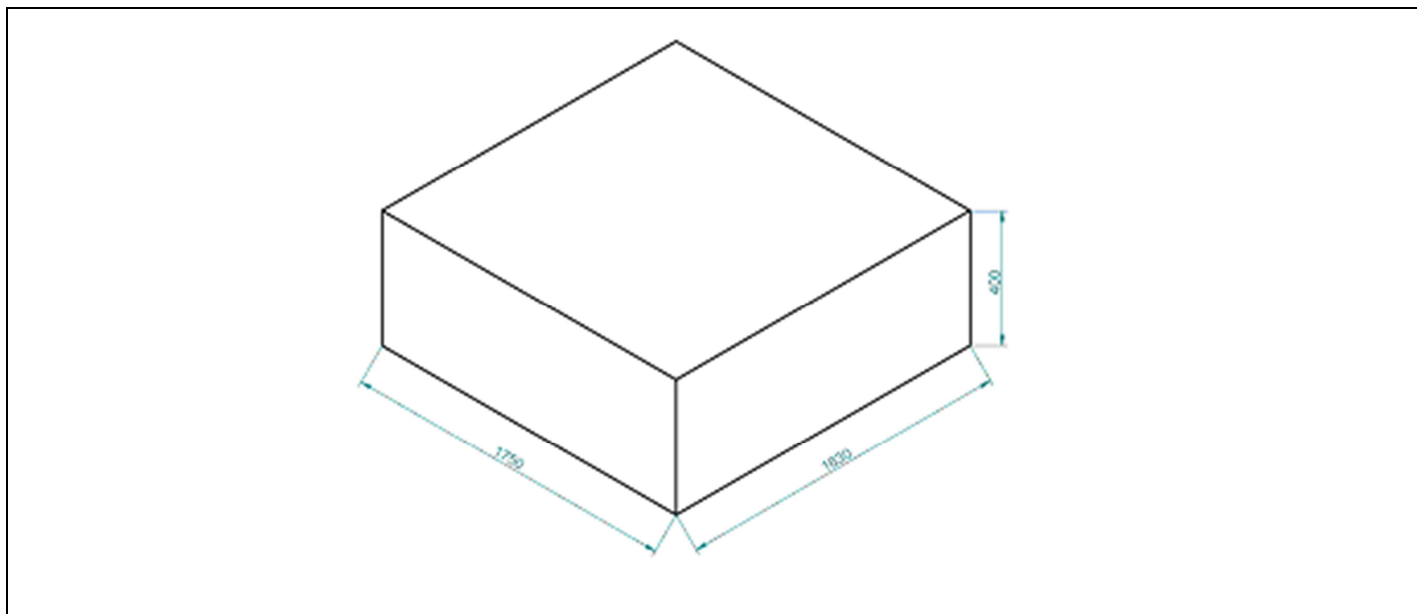
Avoid working in low light conditions.

4 – INSTALLATION AND OPERATION OF THE LIFT

The following chapter will list the criteria and conditions necessary for the Wizard UP30 M to be assembled correctly and then put into service in safe conditions.

4.1 – RECEIPT AND PACKAGING HANDLING

The lift in standard version is shipped already assembled. The packaging configuration is shown in the following figure:



- **N°2** basis and platforms (P1-P2), including wooden pallet, wood spacers, packed with bubble wrap and metal strips.
- **N°1** power unit packed with bubble wrap and metal strips.
- **N°1** cardboard box with electric and hydraulic kit connections, rubber pads and user manual.
- **N°1** set of rising/lowering ramps.

During handling of the package, use a lifting device with a capacity suitable for the weight to be moved and / or lifted.

The package can be lifted or moved with forklifts or cranes. The movement must be assisted by an operator in order to avoid dangerous fluctuations in the load.

At the arrival, check that the goods have no damages and that all the parts written on the packing list are there.

Inform immediately the person in charge or the forwarder in case any part is missing or of any damages incurred during transport; in the moment of loading/unloading respect the gripping point of the package as shown on the below picture (use wooden spacers when using bands to avoid crushing cardboard boxes).



DANGER

Load, unload and handle the machine with the maximum care, making sure that there are no people or obstacles in the range of the lifting device during handling.

4.2 – STORAGE

If the machine needs temporary storage, keep it in a dry place away from bad weather before it is unpacked..



Do not stack the packages.

DANGER

4.3 – UNPACKING

The machine must be mounted on a horizontal plane free of any obstacle, having verified that there is sufficient space around it to guarantee its correct use. After positioning the machine near the place chosen for installation, lift the packaging using the forklift and remove the bubble wrap. The wooden packaging and the bubble wrap can be recycled.



All residual material must be disposed according to the regulations in force concerning waste disposal.

DANGER

4.4 – MACHINE INSTALLATION

To guarantee correct assembly and safe use of the machine, the machine is delivered pre-assembled.

The machine must be installed respecting the safety distances from walls, columns, other machines and other devices present in the working area in particular, the height of the local must be at least 4500 mm and the distance from walls must be at least 1500mm.

Ground specifics:

Concrete resistance class	$\geq 250 \text{ kgf/cm}^2$
concrete thickness	$\geq 140 \text{ mm}$
Planarity	$\pm 1\text{mm}$



Proceed with the installation and assembly of the machine only after wearing protective equipment (gloves / goggles / protective shield).



DANGER



Before proceeding with the assembly and installation of the machine, check that the flooring is of a suitable type to support the loads deriving from the use of the machine.

DANGER



The lift must be installed exclusively indoor.

DANGER



It is forbidden to use the lift in an explosive or flammable atmosphere.

DANGER



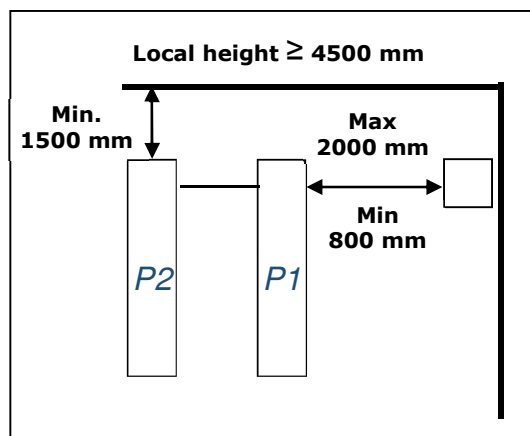
The installation of the lift is responsibility of specialized technicians, appointed by the manufacturer or by authorized dealers. Lack of compliance with this rule could cause serious damage to people and things and in any case relieves the manufacturer from any responsibility.

DANGER

The personnel assigned to assemble the machine must be qualified, competent and be aware of all the regulations in force concerning prevention of accidents.

INSTALLATION PROCEDURE

1. Positioning of the lift
2. Check availability of power supply
3. Hydraulic connection
4. Electrical connection
5. Concrete base and/or lift fixing
6. First start-up



Position the lift with a crane or any other suitable lifting device at the desired point. To open the lift, lift with a crane the platforms at a height of approx. 50 cm, put a wooden spacer between the scissors in the way to avoid closure. Proceed with the elimination of small unevenness of the ground using metal shims. Proceed to the harness to move the lift again.

4.5 – HYDRAULIC PLANT CONNECTION

Cylinders of the **Wizard UP30 M** are feeded by an hydraulic pump. Before starting the machine, it is necessary to connect the pipe coming from the pump to the pipes of the cylinders using the supplied hydraulic fittings.

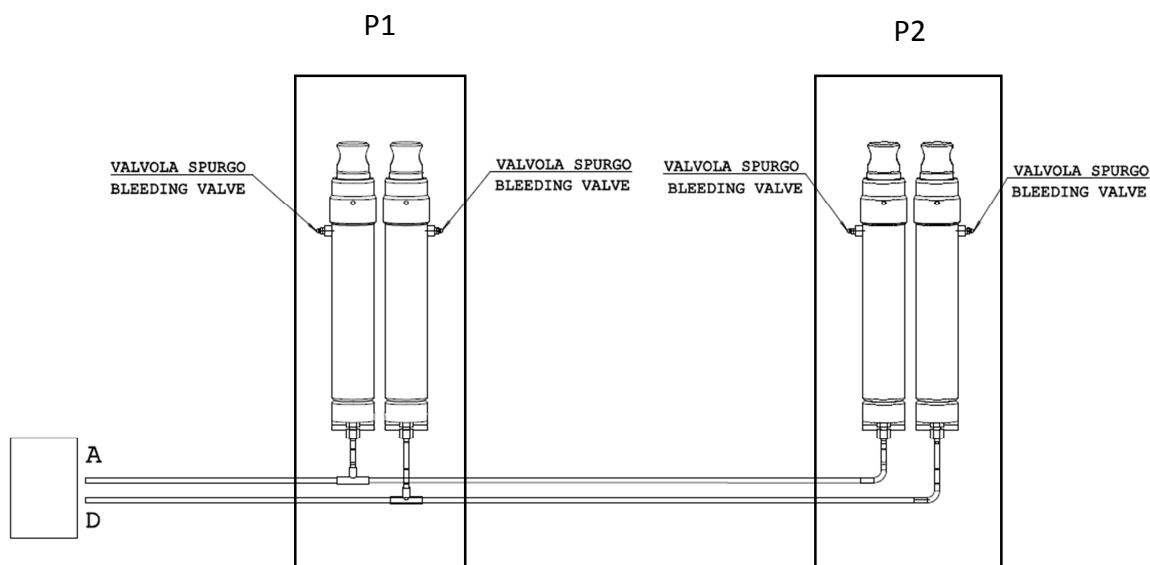


Do not change for any reason the adjustment of the max pressure valve.

The mechanical components have not been sized to work at a higher pressure than the one set in the factory.

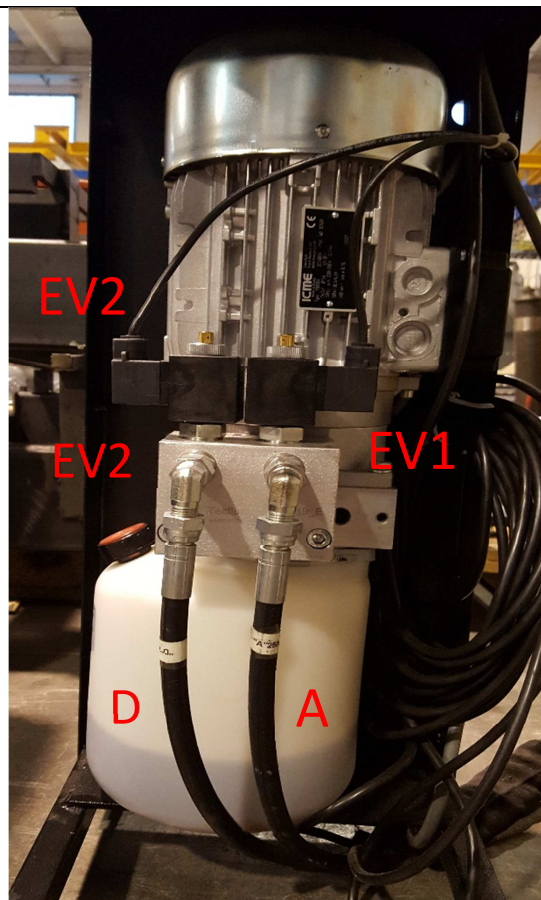
Alteration of the maximum working pressure of the control unit invalidates immediately the guarantee of the lift.

DANGER



HTC Via degli Elettroisti - Zona Industriale 64020 Sceme di Pineto (TE) Tel.: +390859463008 Fax: +390859462461 www.htc-cnc.com e-mail: htc@htc-cnc.com	SMUSSI NON QUOTATI: 0.5X45°	TRATTAMENTI TERMICI	TRATTAMENTI SUPERFICIALI	DISEGNATO F.A.	DATA	REV.
	RAGGI NON QUOTATI: 0.5	QUANTITA' PER MACCHINA:	SCALA: 1:1	RUGOSITA' GENERALI	TOLLERANZE GENERALI	
	CODICE COMPLESSIVO	DESCRIZIONE				
	WIZARD UP30M	COLLEGAMENTO TUBI				

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The hydraulic block is constituted as below:

A – Flow / return cylinder A1 of hydraulic scheme;

D – Flow / return cylinder B1 of hydraulic scheme;

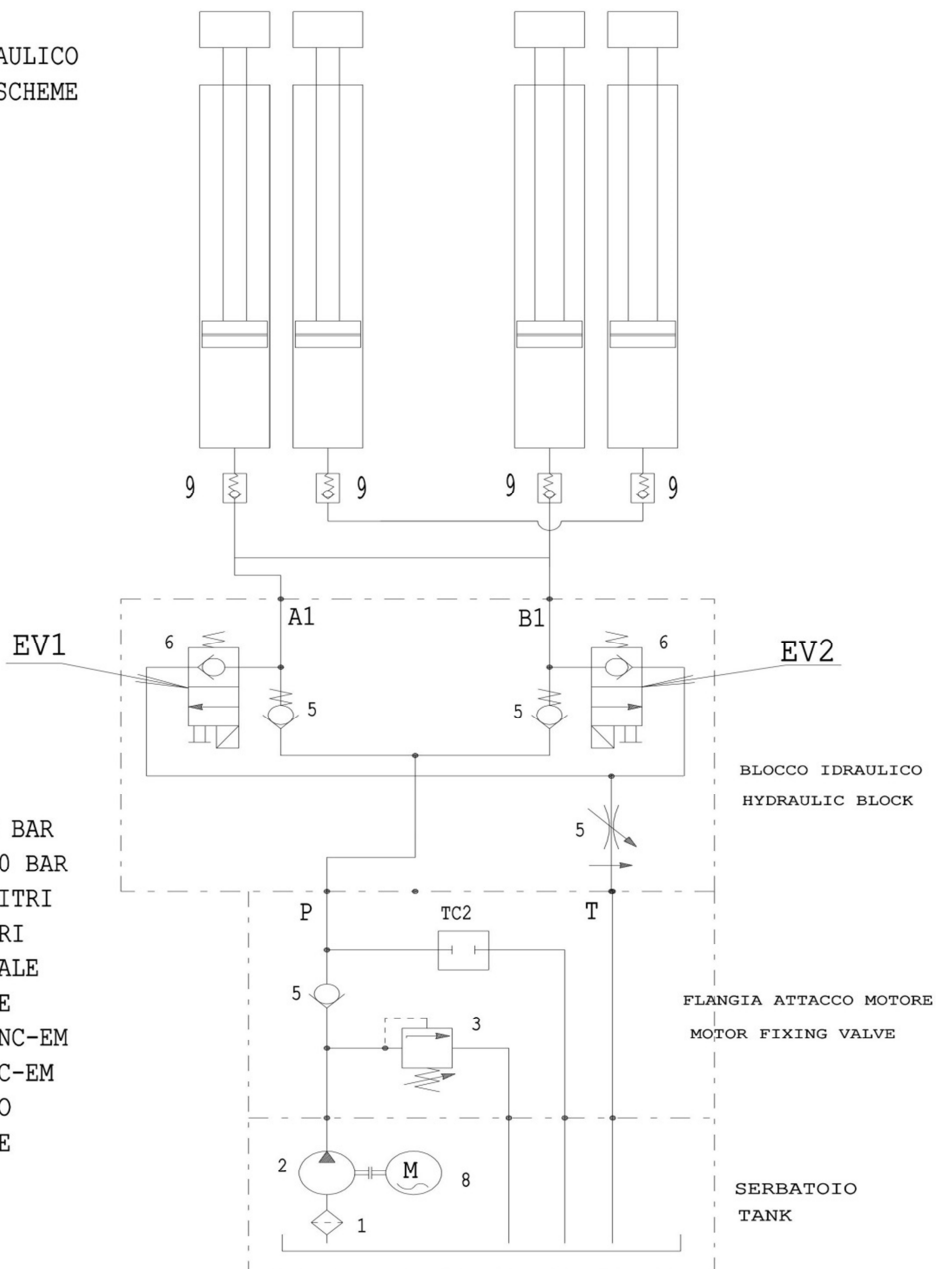
EV1-EV2 – Electro valve;

Hydraulic connection procedure:

Connect hydraulic hose **A** (above figure) in the flow of hydraulic block **A** (side figure); hydraulic hose **D** (above figure) in the flow of hydraulic block **D**.

SCHEMA IDRAULICO
HYDRAULIC SCHEME

1. FILTRO ASPIRAZIONE
SUCTION FILTER
2. POMPA 4.2 CC
PUMP 4.2 CC
3. VALVOLA DI MAX 260 BAR
FULL FORCE VALVE 260 BAR
4. REG. FLUSSO STF 5 LITRI
FLOW REG. STF 5 LITRI
5. VALVOLA UNIDIREZIONALE
UNIDIRECTIONAL VALVE
6. ELETTROVALVOLA CE1-NC-EM
ELECTRO VALVE CE1-NC-EM
7. RECUPERO OLIO SPURGO
OIL BLEEDING RECYCLE
8. MOTORE KW 2.2
MOTOR KW 2.2
9. VALVOLA PARACADUTE
PARACHUTE VALVE



DATA	DISEGNATO	CONTROLLATO	APPROVATO	QUOTE SENZA INDICAZIONE DI TOLLERANZA	REV
10/04/010	F. A.			Per le quote senza indicazione di tolleranza fare riferimento alla normativa UNI Lineari: UNI-EN 22768-Inclasse Geometriche: UNI-EN 22768-2 classe Saldate: ISO 13920 classe A Accoppiamenti: H13 foro - h 13 albero	
NOME	F. A.			SCHEMA IDRAULICO 30UPM	
	Via degli Elettrocisti - Zona Industriale 64020 Scerne di Pineto (PE) Tel.: +390859463008 Fax: +390859462461 www.htc-cnc.com e-mail: htc@htc-cnc.com		DIS NO DWG NO	SCALE 1:1 PESO WEIGHT	

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Pos.	Description
1	Suction filter
2	4,2 cc pump
3	Max pressure valve 260 bar
4	Flow regulation STF 5L
5	Unidirectional valve
6	Electro valve CE1-NC-EM
7	Bleeding oil recovery
8	2,2 kW Motor
9	Parachute valve 1/4"

The installer must check for an electrical connection in compliance with current regulations, including a general switch and an adequate magnetothermal protection



CAUTION

All operations for connection to the electrical network must be carried out by qualified personnel.



CAUTION

Verify that the supply voltage is compliant.



CAUTION

Check the correct connection of the supply phases. An incorrect electrical connection could cause damages to the motor that will not be covered by the manufacturer's warranty



CAUTION

The power connection to the control unit takes place by opening the control unit cover and connecting, through terminals, the power supply cable to the main switch cable, by passing it through the appropriate space located on the back of the control unit. Make sure that the power supply line is adequately protected by a magnetothermic switch with adequate capacities and characteristics and compliant with current safety regulations.



CAUTION

Before acting inside the control unit, for connection to power or for repairing a fault in the electrical devices, make sure that the main power supply is disconnected, thus avoiding the dangerous possibility of electric shock.



CAUTION

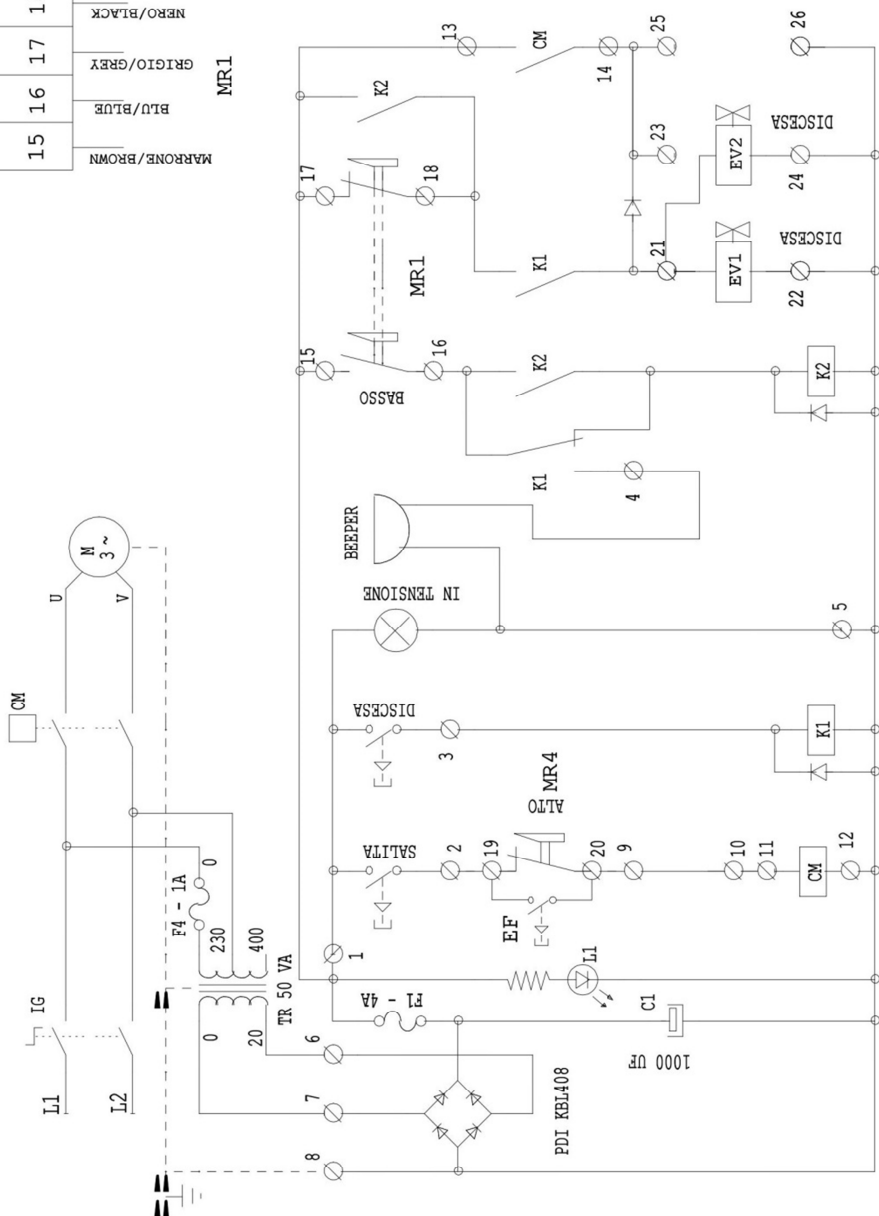
Do not operate the hydraulic unit before filling the oil tank. Using the control unit without oil could damage the pump.



CAUTION

Always prevent the hydraulic unit from coming into contact with water or other liquids.

NO	NC	NC
15	16	17
18	19	20
MR4		
MARRONE/BROWN		
BLU/BLUE		
GRIGIO/GRAY		
NERO/BLACK		



MR1=STOP&GO
 MR4=FINECORSA ALTO/END STROKE MAX HEIGHT
 EF= ESCLUSIONE MR4 / EXCLUSION MR4
 EV1-EV2=ELETTROVALVOLE DISCESA / LOWERING ELECTROVALVE

SCHEDA MM2

HTC Via degli Elettricisti - Zona Industriale 64020 Soenne di Pineto (TE) Tel.: +390859463008 Fax: +390859462461 www.htc-cnc.com e-mail: htc@htc-cnc.com	SMISSI NON QUOTATI: 0.5X45° RAGGI NON QUOTATI: 0.5	TRATTAMENTI TERMICI	TRATTAMENTI SUPERFICIALI	DISSEGNO F.A.	REV.
	CODICE COMPLESSIVO	QUANTITA' PER MACCHINA:	SCALA: 1:1	TOLLERANZE GENERALI	
	WIZARD M	DESCRIZIONE SCHEMA ELETTRICO MONOFASE	RUGOSITA' GENERALI ($\sqrt{\text{A}}$) 1.3 / 3.1 / 1.5		

IL PRESENTE DOCUMENTO E' PROPRIETA' DELLA HTC SRL E NON PUO' ESSERE RIPRODOTTO E PORTATO A CONOSCENZA DI TERZI SENZA L'AUTORIZZAZIONE SCRITTA This document is a property of HTC Srl and it cannot be reproduced or send to other

When the lift is started up, the 'Initial check' sheet included in the manual must be filled by the installer and / or dealer; the user must check that it is sent by fax to the number +39 085 9462461 to HTC Srl, penalty invalidity of the guarantee.



CAUTION

All these operations must be performed by expert and authorized personnel, only after having followed a course of at least one day in the company for the assembly of lifting equipment.



CAUTION

Follow carefully the instructions to avoid damage to persons and to the lift.



CAUTION

Ensure that the risk area is free from the presence of persons and / or objects.

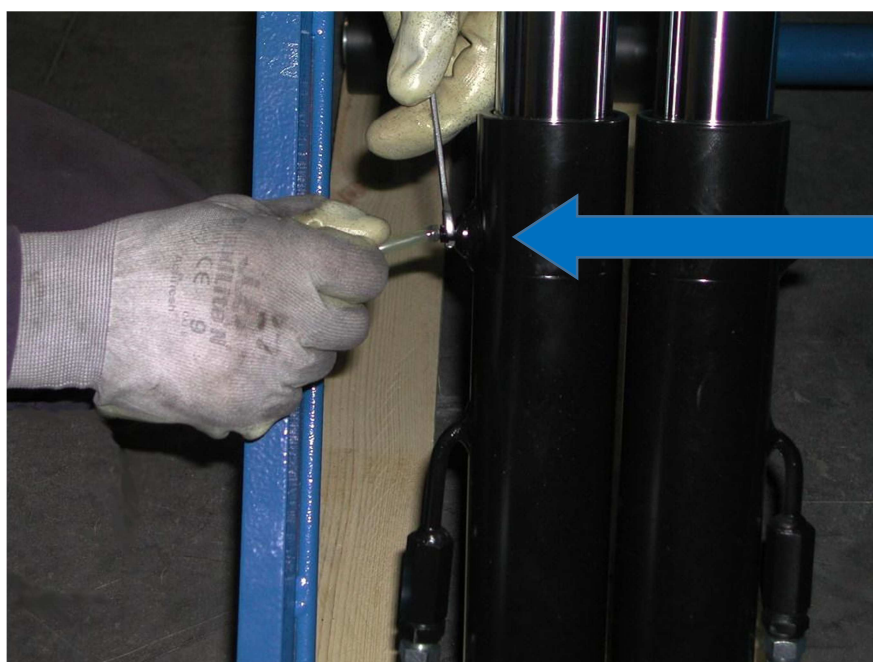


CAUTION

Make sure that the hydraulic hoses and the electric cables, which connects the lift to the control unit, have been protected with the metal housings supplied with the lift.

After positioning the lift as described and having carried out the electrical and hydraulic connections, the necessary operations for the operation of the lift can be carried out.

1. **Open the front door of the control unit and unscrew the oil tank cap;**
2. **Insert through a funnel, 5 lt of hydraulic oil with viscosity 46 CST or other equivalent;**
3. **Set the main switch to position 1;**
4. **Press rising button and limit switch exclusion button until the maximum height of the lift is reached: if the lift doesn't move but the motor runs regularly, make sure that it has the right sense of rotation, if not, reverse the phases on the power supply line.**
5. **Unscrew the cylinder bleeding screw of one cylinder, allow air and oil to exit until only oil comes out and close the bleeding valve (repeat the operation on all 4 cylinders).**
6. **Lower the lift to ground level until it is completely closed.**
7. **Repeat the operation of points 4, 5 and 6 for at least 3 times.**
8. **If functioning is not proper, so if the lift has a spring effect, probably there is still air in the circuit so repeat again the complete bleeding operation.**



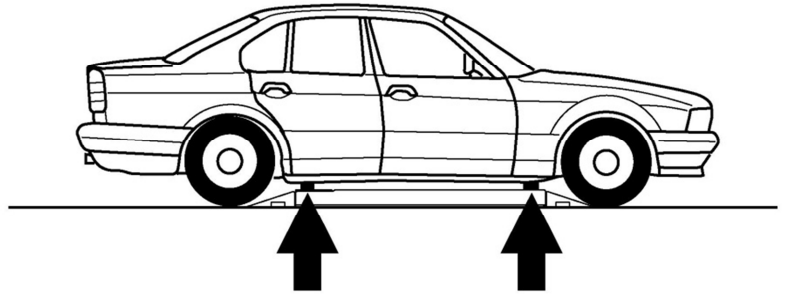
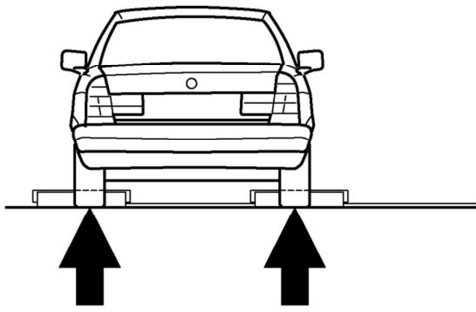
Unscrew until only oil comes out from all 4 cylinders

Before getting on / off with the car from the lift, make sure the platforms are completely closed; rise with the car on the lift very slowly making sure that it is well centered on the platforms as shown in the following figure. Place the rubber pads on the platforms of the lift respecting the lifting points recommended by the car manufacturer and the reference standard.

Push "rising" button and bring the lift to the requested height; for lowering, press "lowering" button.

During lowering phase the lift stops at about 400 mm height from the lowest position; to start again, release the down button and then press it again; from that moment till the complete closure of the lift a safety acoustic signal will sound.

In the first working hours of the lift, noises or squeaking may occur due to the fact that mechanical components have not yet settled.



DANGER

During the rising / lowering phase, check constantly the lift and its load.



DANGER

Check the operation of the acoustic buzzer in the lowering phase of the lift.

4.9 – EMERGENCY

If it is necessary to command the immediate stopping of the machine, press the red / yellow emergency switch, which allows to avoid dangerous situations. When you stop operating the emergency stop command, after a stop order, this order is maintained, until it is unlocked, from the block of the emergency stop device.

It is not possible to get the device locked without this generating a stop order; the release of the device is only possible with a special operation that does not restart the machine but only authorizes the restart. Stopping order is priority over start-up orders. To reset the switch and resume the working cycle, turn the switch counter-clockwise.

5 – RESIDUAL RISKS



DANGER

The owner and / or manager is obliged to provide all information and necessary assistance for the protection of the operators' plant physical health.

All project and realization phases of the Wizard UP30 M, from the first basic processing, to the dimensional calculation up to the final construction and finalization, have been realized paying scrupulous attention and care to the quality features both mechanical, plant and safety in relation to the staff and in respect of the environment.



A copy of this manual needs to be given to the operator, it must be ascertained that the operator has seen it and therefore knows how to safely drive the machine.

The safety of use of the machine is guaranteed only by following scrupulously the functions listed in this manual. The owner and / or manager is obliged to provide all information and necessary assistance for the protection of the operators' plant physical health.



DANGER

Before starting the machine, check that the safety devices are properly mounted and working.



DANGER

Load and unload the machine with maximum care, making sure that there are no persons or objects in the range of the lifting device during handling.



The supplied machine presents some risks that for the specific type of work to be performed cannot be completely eliminated with security systems. It is therefore absolutely necessary that the operator is informed and that he uses the machine with extreme caution. These risks are described below.

<u>Component or part causing the risk</u>	<u>Description of the residual risk</u>
<u>Parachute valve</u>	The parachute valves installed in the hydraulic cylinders prevent the risk of load falling, in case of breakage of one or more hydraulic components, the valves are tested to operate with loads between 40% and 100% of nominal load. However, outside this range, or with non-compliant hydraulic oils (see paragraph ORDINARY MAINTENANCE), or with working temperatures higher or lower than the design ones (see paragraph TECHNICAL FEATURES), the valves could not work as expected. Therefore, strictly follow all the instructions in this manual.
<u>Lifted load</u>	There is a risk of stability loss of the lifted vehicle if the vehicle itself has not been properly positioned on the platforms, if the dimensions are not compatible with the lift and if the vehicle receives a major impact. Therefore, strictly follow all the instructions in this manual.
<u>Lift platforms, lifted load</u>	There is a risk of collision when the lift is in the raised position. Therefore, strictly follow all the instructions in this manual.
<u>Lift platforms</u>	Stop & go anti-crush function with acoustic hazard signal is operational. This function reduces significantly but does not completely eliminate the risk of crushing during the lowering phase of the load. IT IS FORBIDDEN approach the load when lowering, keeping appropriate distances, and it is up to the user to make sure that usual operating area of the lift is clear of people, things, animals (see paragraph GENERAL SAFETY RULES).
<u>Working place</u>	The presence on the floor of fluids released by the vehicle could generate a slipping risk. Keep always clean the working place of the lift. Make sure the working area is always well lit, also referring to local rules on workplaces safety, to avoid risks due to insufficient lighting.
<u>Control panel</u>	High voltage is present inside the control panel. Do not use compressed air, water jets, diluents or aggressive detergents for paint or mechanical and electrical parts near the electrical panel. Do not use water to turn off a fire. Access to the electrical panel is permitted only to qualified personnel with adequate training, able to understand the risks and to prove the good functioning of the lift and all related mechanical and electrical safety systems.
<u>Lift</u>	Presence of unauthorized persons near the lift is not permitted, both during operation and when the vehicle is in the raised position. It is forbidden to rise on the load or on the device supporting the load when it is in a raised position. Any incorrect use of the lift can cause serious injury to people. Using a lock (not supplied) it is possible to inhibit the rotation of the main switch by unauthorized personnel.



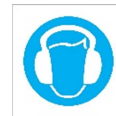
DANGER

Before using the machine, the operator has to verify visually that all the components - and in particular the protective devices – do not show damages.
Do not use the machine in case of even slightest damage.



CAUTION

The level of acoustic power issued by the machine is lower than 80 dB(A).



6 – MAINTENANCE

To prevent normal wear and tear, use consequence, it is necessary to perform correct and regular maintenance. This type of activity, as well as extending the life of the machine, is fundamental for safety.

CAUTION! Maintenance must only be done by authorized personnel. During maintenance of the lift it is necessary to take all the necessary measures to avoid accidental starting.

Main switch has to be on “0” position by padlock. The key must be kept by the maintenance technician for the entire duration of the operation. Obviously all the indications and obligations given in the **SAFETY** chapter must be respected.

NOTE: Every time maintenance is performed, the actions taken must be noted on the appropriate forms and sent by fax to +39 085 9462461. Warranty terms will be void in absence of this procedure.

6.1 – GENERAL RULES

For maintenance, refer to the following documentation:

- complete functional diagram of the hydraulic / electric equipment;
- exploded drawings with necessary data for ordering spare parts;
- list of possible malfunctions and possible remedies.



The operator in charge for maintaining the machine must be able to perform the work, must have a perfect knowledge of how it works and how it should be maintained.

The operator must scrupulously follow the instructions contained in the manual to ensure his own safety and of others.



DANGER

Maintain the machine only after having provided adequate personal protective equipment (protective gloves).



DANGER

Respect the operation and control frequencies suggested in the manual.



DANGER

Not authorized modification confirmed by HTC s.r.l. could compromise the safety of the machine.
Use only HTC s.r.l., original accessories and spare parts, designed specifically for Wizard UP30 M.



CAUTION

Check the cause of any anomalies such excessive noise, loss of oil, etc. Do not resume the work cycle until you have identified the cause and solved the problem.

6.2 – SPECIFIC RULES

For maintenance, refer to the following documentation:

MAINTENANCE SCHEDULE		
COMPONENT	INTERVAL	TYPE OF CHECK OR MAINTENANCE
Hydraulic pump	1000 h	Make sure that there are no changes in noise and check the tightness of nuts and bolts. Check malfunction and possible replacement or revision by a specialized center.
Hydraulic fittings	500 h	Check tightening.
Cylinder gaskets	1000 h	Verify that there are no leaks. In this case arrange replacement.
Pump oil level	100 h	Check oil level and top up if necessary with another recommended type.
Pump oil filter	1000 h	Cleaning with pressurized air jet and replacement every 2 cleaning.
Hydraulic circuit	1000 h	Check that there are no oil leaks inside the circuit. Check the integrity of the gaskets and, if necessary, replace them.
Electric circuit	500 h	Verify that there are no visual damage inside the circuit.

6.2.1 – RECOMMENDED OIL

Below some of the recommended equivalent hydraulic oils. If a type of oil listed below is not available, use an oil with viscosity of 32 cst at 40 ° C according to ISO 3448-ISO VG 32

PRODUCER	DESCRIPTION
Aral	Vitam GF 46
BP	HLP 46
Esso	Nuto 46 / Hydraulioil 46
Fina	hydran 46
Klockner	Rando oil HDA 46
Raab karcher	Aval Vitamin GF 46



CAUTION

It is recommended to replace hydraulic oil completely and clean the tank every 2 years, or every 2000 hours of operation. The used oil must be disposed according to the regulations in force.

6.3 – CLEANING

To guarantee correct machine operation, it is advisable to carry out periodic cleaning: the machine must be properly cleaned at least once a month. For cleaning operations use cloths.

Check frequently all mechanisms and eliminate any foreign bodies (dust, welding residues, oil leaks) that could cause malfunctions.

In particular, it is recommended to clean the chromium-plated stem of the hydraulic cylinder. If not leaks may occur from the seals with consequent malfunctions. It is recommended to clean frequently the sliding ways of the sliders.

7 – DISMANTLING

In case of demolition of the machine, it is necessary to make it non-operative by removing the connections for feeding and emptying the oil tank (dispose the liquid according to national regulations in force).

Then disassemble the machine and the pump, subdividing various components into groups, distinguish different materials they are composed of.



DANGER

Do not dispose used oil in the environment. The exhausted oil that is extracted from the machine during the oil change, must be treated as a polluting product, therefore it must be disposed in according to the provisions of the legislation in force in the country where the lift was installed. Dispose all materials to authorized and specialized centers in compliance with current national regulations.



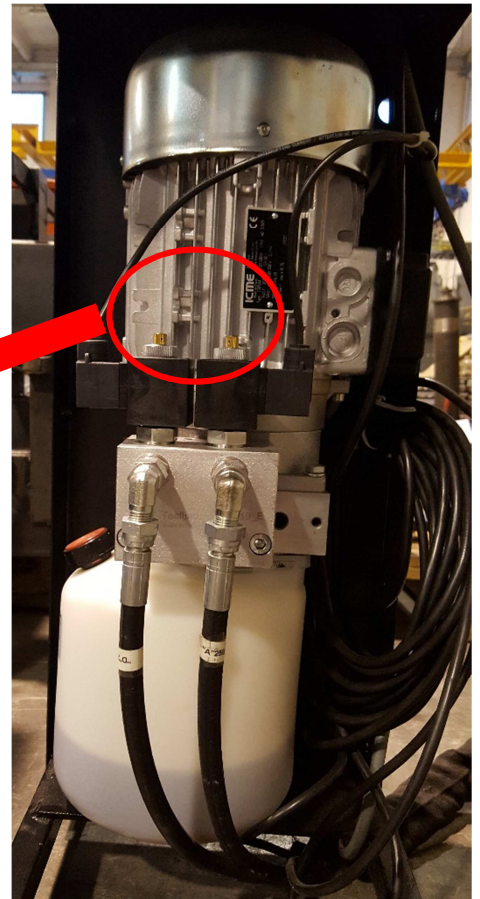
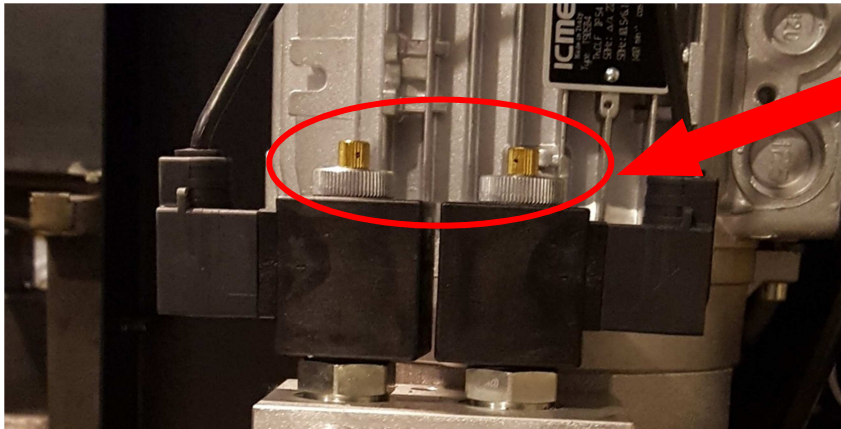
DANGER

Research of faults and any repair operations require compliance with all the safety precautions indicated and highlighted in this manual

8.1 – EMERGENCY LOWERING

In the event of power failure or failure of the hydraulic valves or electrical fault, it is possible to operate manually lift lowering. For manual lowering, operate as follows:

- Check that there are no obstacles blocking the lowering;
- Disconnect general power supply;
- Loosen the 2 screws shown in the picture;
- Once the emergency lowering has started, acting on the 2 screws it increases or reduces the speed.
- Check constantly the space around the lift and tighten the screw if a dangerous situation occurs.



DANGER

Manual lowering (emergency) must only be carried out by authorized and trained personnel.

	Problem	Cause	Remedy
1	Pressed rising button, the lift is motionless and the motor does not turn	General switch closed	Check and reset.
		Power supply interrupted	Check and reset.
		Motor contactor damaged	Check that the contactor coil is working and that the contactor starts when it is powered at 24 volts.
		Fuse blown on the 24 volt power supply	Check and if necessary replace the fuse in the transformer.
		Faulty transformer	Check input and output voltage of the transformer.
		Thermal overheating of the motor	Wait 10 minutes and try to start again, then check with a tester that the contact is closed.
2	Pressed rising button, the lift is motionless and the motor turns	Reverse motor rotation	Reverse the phase and check that the motor rotates in the direction indicated by the arrow.
		The load to be lifted is too heavy and the maximum pressure valve closes the circuit.	The lift is being used beyond its load capacity
		Oil level in the tank is too low	Check quantity and top up the oil
		Manual operator EV on the hydraulic block is opened	Check and tighten screws
		O-ring gaskets of the lowering valves on the block are damaged or leaky	Check the gaskets and replace if necessary
		Oil filter obstructed	Check and clean the filter
		Faulty hydraulic pump	Check that the oil comes out from the outlet on the hydraulic block after disconnecting the relative hose. Replace the pump if no oil comes out of the divider outputs.
		Locked cylinders	Contact technical assistance.
3	Pressed lowering button and the lift does not lower	Check that there are no obstacles that prevent lowering	Remove the obstacle.
		Check that the main switch is activated and that the power supply is not interrupted	Check and eventually power the lift
		Damaged fuses	Check and if necessary replace the fuses on the board, transformer or on main supply after eliminating the cause of the short circuit.
		Faulty transformer	Check the input and output voltage of the transformer.
		Faulty or non-powered coils on valves	Check whether with direct 24V on the coils, the valve is activated
		Faulty electrical components	Check the operation of the solenoid valve relays; replace fuses if damaged
4	Pressed lowering button, the lift does not lower but releases a continuous acoustic signal	MR1 Micro or not perfectly positioned or broken, cut or disconnected cable	Check the connection and if necessary replace the faulty micro
		MR4 Micro or not perfectly positioned or broken cut or disconnected cable	Check the connection and if necessary replace the faulty micro
5	The lift is closed, but one of the two platforms remains higher	Check that there are no obstacles blocking closure	Remove the obstacle.

9 – TECHNICAL ASSISTANCE

Technical office of HTC s.r.l. are always available to answer any question:

Address: **Via degli Eletttricisti - Zona Ind.le Scerne 64025 Pineto - (TE) Italia**
Tel:..... **+39 (085) 946 3008**
Fax:..... **+39 (085) 946 2461**
e-mail:..... **info@effemme.biz**

10 – GUARANTEE

HTC s.r.l. lifts has a 60 months warranty on mechanical parts, starting from HTC s.r.l. invoice date. During the warranty period, in case of manufacturing defects on materials, HTC s.r.l. 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 HTC 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 s.r.l. 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).

11 – SPARE PARTS

In case of spare parts request it is recommended to always indicate the following data:

- ☐ SERIAL NUMBER OF THE MACHINE
- ☐ QUANTITY OF THE REQUESTED PART
- ☐ REFERENCE NUMBER OF THE PART



Use only genuine HTC s.r.l. spare parts designed specifically for WIZARD UP30 M.

DANGER

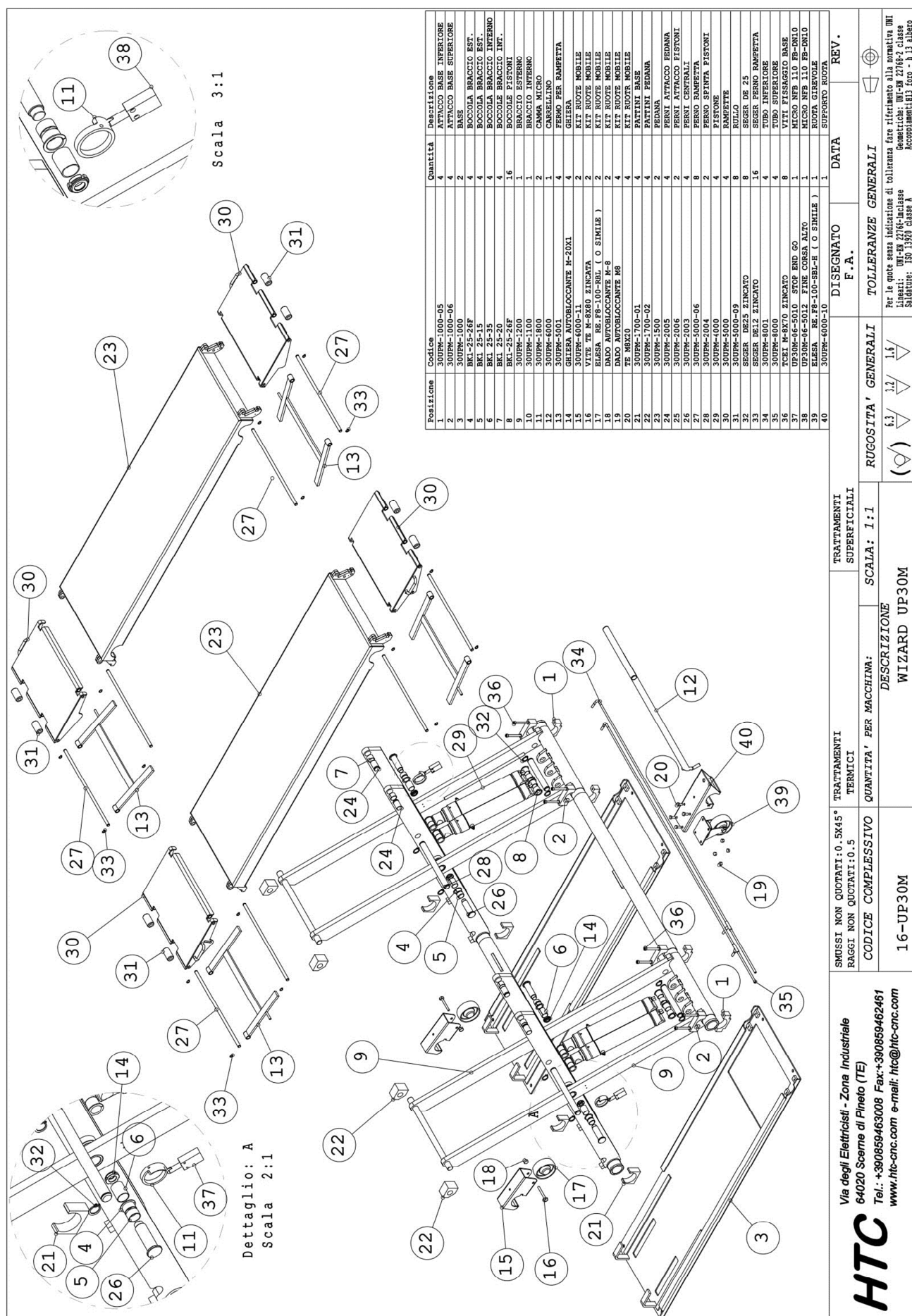


Tabella Distinta materiali							
Num. articolo	Num. parte	DENOMINAZIONE			Quantità		
A							
1	SS15005KXL10	Collettore KXL10 (SU+VSC reg)			1		
2	EC0354008	Tappo ad espansione a sfera Ø8			1		
3	BC114611	Anello O-Ring NBR 70Sh. 112.00x3.00			1		
4	F733006360	Valvola max VMC1 360 bar			1		
5	F732005	Valvola unidirezionale V01			1		
6	F749002	TS1-Tappo 3/4-16DNF, Ø12.7 - att 1/4", Assiale			1		
7	SS50720001008	Flangia x (KE-AC), MEC90			1		
8	SS5065320014	Giunto x (KE-AC) MEC90			1		
9	SS5065320013	Semigiunto F80-F90-FA100 (PU10)			1		
10	BC10914.20008	Rampa gr1 - 4,20cc - S - 302 SX			1		
11	F746003	STP-Valvola start-up 3T			1		
12	SS52301105	SD150-Tubo di scarico fe. M12x1 L150			2		
13	SS5033500001	Filtro aspirazione polipropilene 3/8" BSPP			1		
14	SS512AC058	Serbatoio pl. Ø123, 5,0lt. B			1		
15	BC12735001	Tappo sfiato carico olio 1/2"			1		
16	F751019_D	Blocco con 2tt 2VF 1 VRF 12 4 lt			1		
17	F749003	TC2-Tappo 3/4 - 16DNF, H=42,5			1		
18	SS524AA100	80100-Tubo aspir.pl. 3/8" L=100			1		
19	F749005	TC4-Tappo x cavità STP, fiss. M10			1		
20	SS419002	Dado speciale triang. M6			4		
21	C05609110:30	Fascetta stringitubo H9 Ø110-130			1		
B							
C							
D							
E							
F							

Collettore

05	MATERIALE	PE80 (Gr.1)
04	COLORI	N° STAMPO
03	TRATTAMENTO SUPERFICIE	TRATTAMENTO TERMICO S/O SUPERFICIE
02	RESISTIVITA' TAI	RESISTIVITA' TAI
01	SOTTOPRESSIONE TAI	DATA
IND.	MODIFICA	DATA
ELABORATO	CONFERMATO	VERIF. NOMI
DATA	DATA	DATA
FIRMA	F. Vizzoli	

DENOMINAZIONE

080_A1BZ/STP 3T/PG09/SP15V/FA90/G00

HTC

080_A1BZ/STP 3T/PG09/SP15V/FA90/G00

FOGLIO 10

Foglio 10

12 – INITIAL CHECK

MODEL	WIZARD UP30 M			
Preliminary checks	DESCRIPTION	YES	NO	NOTE
1	Availability of use instructions and related electrical and hydraulic diagrams.			
2	Completeness of supply, suitability and compatibility of components.			
3	Check flatness of the ground in installation position of the machine.			
4	Check minimum safety distances from walls or other machines, minimum room height.			
5	Correct assembly of bolted parts and joints, stability of fixing systems.			
6	Presence, suitability and correct operation of the main switch.			
7	Eligibility of the power supply line (from the main switch to the lift).			
8	Correspondence between the main voltage and that foreseen for the lift motor.			
9	Correct ground connection of the metal structure, of the electromechanisms / electrical users.			
10	Absence of surface defects (painting, burrs, sharp edges, dents, bends)			
11	Control of the stroke spaces of the lift, absence of foreign bodies or obstacles.			
12	Thread tightening check.			
13	Cleaning the lift installation area.			
14	Maximum oil supply pressure: 260 [bar].			
15	Functional test of the machine.			
16	Functional test of safety devices.			
17	Operation of the lift anti-crushing device (minimum light of 120 mm between parts which present a risk of crushing)			
18	Preservation of manuals.			

MODEL	WIZARD UP30 M			
Operating tests	DESCRIPTION	YES	NO	NOTE
1	Functional check of the buttons (without load).			
2	Functional check of up / down movements (without load)			
3	Functional check of limit switches and safety devices			
4	Lifting / lowering check with nominal load: 3000 [kg]			
5	Check for abnormal noise.			
6	Check oil level and any leaks.			
7	Check absence of permanent deformations of the structures.			
8	Check lift levelling.			
NOTE				
INSTALLATION PLACE OF THE MACHINE:		RESULT OF THE CHECK	ACCEPTED	REFUSED
CUSTOMER	STAMP	SIGNATURE		
HTC S.R.L. TECHNICIAN	STAMP	SIGNATURE		
DATE	NEXT CHECK:			

Return this form via Fax / email to:

PRODUCER	
ADDRESS	Via degli Eletttricisti - Zona Ind.le 64020 Scerne di Pineto - (TE) Italia
PHONE	+39 (085) 946 3008
FAX	+39 (085) 946 2461
EMAIL	info@effemme.biz

13 – PERIODIC CHECK

MODEL	WIZARD UP30 M			
Check	Description	YES	NO	NOTE
1	Check maintenance status and lift cleaning.			
2	Check oil level.			
3	Grease on sliding guides.			
4	Greasing of moving parts.			
5	Check high-pressure hose conditions.			
6	Check for leaks in the hydraulic circuit.			
7	Check lift levelling.			
8	Control of the lift with load.			
NOTE				
INSTALLATION PLACE OF THE MACHINE:		RESULT OF THE CHECK	ACCEPTED	REFUSED
CUSTOMER		STAMP	SIGNATURE	
HTC S.R.L. TECHNICIAN		STAMP	SIGNATURE	
DATE		NEXT CHECK:		

Return this form via Fax / email to:

PRODUCER	
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