

**FARAONE**<sup>®</sup>  
Industrie spa



## ***STOCK PICKER***

### ***E5 TIRES***

## **USE AND MAINTENANCE INSTRUCTIONS**

**Translation of the original instructions**



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ENGLISH

**INTRODUCTION**

The purpose of this use and maintenance manual is to provide users with the essential information to carry out the procedures intended for safe and correct machine operation, in accordance with the purposes it has been manufactured for.

All information in this manual must be read and understood before making any attempt to operate the machine.

THIS MANUAL IS VERY IMPORTANT DOCUMENTATION; ALWAYS KEEP IT NEAR THE MACHINE.

Due to continuous improvements to its products, Faraone Industrie Spa reserves the right to amend the technical data without any prior notice. For updated information, contact Faraone Industrie Spa.

**ATTENTION**

**REMEMBER NO EQUIPMENT IS SAFE IF THE OPERATOR DOES NOT COMPLY WITH THE SAFETY PRECAUTIONS**

**SYMBOLS AND TERMS****ATTENTION**

The danger symbol draws attention to potential dangers that might cause injuries. To prevent any injuries or fatal accidents, comply with all safety instructions that follow the symbol.



Arrows are used in the pictures of the machine to indicate the specific points described in the text of the manual.

- **Stock picker:** A machine designed exclusively to carry, lift, stack or arrange loads on shelving, controlled by an operator stationed in the driver's position, which can be raised at the same time as the load handling device.
- **Cage:** A position from which the operator is able to control all driving positions and handle the load.
- **Tyres tool:** Platform from where tires are loaded to be carried, lifted, stacked or arranged on shelving.
- **Extending structure:** A structure connected to the frame that supports the cage and allows it to move to the required position.
- **Frame:** Machine Base.

**TECHNICAL SUPPORT - WARRANTY**

The Customer must make sure to have the serial number of the machine and an accurate description of the problem or of the information to be provided before contacting the Manufacturer.

**The warranty period is 12 months from the date of the purchase invoice.**

Said warranty covers faulty components and the labour required for servicing, if this is carried out at the Manufacturer's premises (transport of the machine is borne by the purchaser).

**The warranty is valid provided all rules laid down for correct use of the machine are complied with.**

**The machine is designed and built to last years, as long as it is always used for the purposes it is intended for and that the inspections and maintenance described herein are carried out. Faraone Industrie Spa deems it necessary to conduct an extensive analysis of all of the structural components every 10 (ten) years, to confirm their integrity.**

**NOTICES**

In compliance with legislation in force in the country where the machine is operating, the owner of the stock picker must find out whether a declaration of machine commissioning is required and for any periodical tests that are carried out thereafter.

**SECTION 1. SAFETY PRECAUTIONS****GENERAL INFORMATION**

This section illustrates the necessary precautions for correct and safe use of the machine and its maintenance. To assure correct use of the machine, it is essential to establish a daily routine procedure based on the instructions provided in the manual. Furthermore, to guarantee safe operation of the machine, a skilled person must establish a maintenance schedule based on the information provided in this manual, which must be strictly complied with.

The owner/user/operator/machine lessor company/lessee of the machine, must not accept responsibility of its operation before having carefully read the manual and completed training and the operating procedures, guided by an experienced and skilled operator.

For further information relating to safety, training, inspection, maintenance, application and operation, contact Faraone Industrie Spa.

**ATTENTION**

**FAILURE TO COMPLY WITH THE SAFETY PRECAUTIONS LISTED IN THE MANUAL MAY DAMAGE THE MACHINE AND PROPERTY AND CAUSE INJURIES OR FATAL ACCIDENTS.**

## PRELIMINARY PROCEDURES

### Operator training and knowledge

- Carefully read the manual before using the machine.



- Only use the machine after being fully trained by authorised personnel.
- The machine can only be used by authorised and skilled personnel.
- Read carefully and comply with all the ATTENTION statements and the operational instructions provided on the machine and in the manual.
- Use the machine for applications falling within those intended by Faraone Industrie Spa.
- All operational personnel must familiarise with the controls and emergency operation of the machine, as specified in the manual.
- Carefully read and comply with all company, local and government regulations in force, relating to machine operation.

### Inspection of the workplace

- Before using the machine, the operator must take the necessary precautions to prevent any hazard in the workplace.
- Do not operate the machine on lorries, trailers, railway carriages, boats in water, scaffolding or similar, unless Faraone Industrie Spa has approved the operation in writing.
- The machine can be started up at temperatures between -10°C and 40°C. Contact Faraone Industrie Spa for machine operation at temperatures not within the indicated range.
- The machine cannot be switched on in environments stated as ATEX, unless specifically indicated in the EC certificate of conformity delivered with the machine in question.

### Machine inspection

- Use the machine only after carrying out the inspections and functional checks. For further instructions, refer to *Section 3* of this manual.
- Operate the machine only after carrying out all servicing and maintenance set out in the requirements specified in this manual.
- Make sure all safety devices work properly. Any changes to such devices constitute a breach of the safety regulations.
- Do not operate the machine if its signs or decals indicating the safety regulations or instructions are illegible or missing.
- Avoid accumulation of debris on the floor of the machine. Prevent mud, oil, grease and other slippery substances from coming into contact with shoes and with the floor of the machine.



### **ATTENTION**

**ANY CHANGES OR ALTERATIONS TO THE MACHINE MAY ONLY BE CARRIED OUT WITH PRIOR WRITTEN AUTHORISATION OF THE MANUFACTURER.**

## OPERATION

### General information

- A self-propelled Stock picker is a machine designed solely to carry, lift, stack or arrange loads on shelving, controlled by an operator stationed in the driver's position, which can be raised at the same time as the load handling device.
- Do not operate a faulty machine. Should a fault occur, switch the machine off.
- Do not move the control switches or levers abruptly from one position to the opposite one, straight through the neutral position; always move the switch to the neutral position before moving it to the position of the next function. Operate the controls by applying slow and even pressure.
- If there are any people in the cage, allow personnel to operate the machine from the ground only in the event of an emergency (section 5);
- Completely lower the extending structure and disconnect the power supply before leaving the machine unattended.
- It is recommended to charge the batteries in a well-ventilated area.



- Before using the machine, ensure all fixed and movable rails are secured in the correct position;
- Keep both feet firmly on the floor of the cage. Do not place ladders, boxes, steps, planks or similar items on the cage to increase its range of action.
- Do not use the extension unit to climb on or off the cage.
- Pay utmost attention when entering or exiting the cage. Make sure the extending structure is lowered completely. Enter and exit the cage facing towards the machine. Always maintain "three contact points" with the machine, by making sure that both hands and one foot or one hand and both feet are continuously in contact with the machine when entering and exiting.

### Electrocution hazard



With regard to the safety distances from live parts of power lines and electrical systems that are not protected or not sufficiently protected to be complied with when carrying out non-electric jobs, at net clearance deriving from the type of job, the equipment used and the materials handled, as well as the lateral shifting of the conductors owing to the action of wind and lowering of heights due to heat conditions, refer to the Laws regarding safety in the workplaces of the country where the machine is operating.

For Italy, refer to Legislative Decree 81/08, annex IX "Values of rated operating voltages of electrical machines and systems".

**Tilting hazard**



- Before driving the machine, the user must familiarise with the surface of the work area. While driving, do not exceed the allowed transversal and longitudinal slope.
- Do not lift the cage or drive the machine with raised cage (*on a self-propelled machine*) on a slope or uneven or soft surface.
- Before driving the machine on floors, bridges, lorries and other surfaces, check their maximum capacity.
- Do not exceed the maximum capacity of the machine.
- Keep the machine chassis at a minimum distance of 0.5 m from holes, unevenness, slopes, obstacles, debris, hidden holes and other potential hazards found at ground level.
- Do not attempt using the machine as a crane. Do not tie the machine to any adjacent structure.
- Do not increase the size of the cage or loading platform with unauthorised extensions or by extending the platform.
- If the extending structure or the cage get stuck so that one or more wheels are lifted from the ground, the operator must be made to get off the cage before attempting to release the machine. Use a crane, forklift or other adequate equipment to stabilise the machine and have personnel climb down from the cage.
- (*For non self-propelled machine*) Do not move the machine with outriggers engaged (*if any*) or with extending structure raised. Before moving the machine, completely lower the extending structure.

**Crushing and impact hazard**



- When using the machine or lifting or lowering the cage, check the distances above, at the sides and below the cage;
- Do not lean over the rails of the cage when the machine is running;
- Always pay the utmost attention to prevent the operational controls and people in the cage from being hit or hindered by any obstacles;
- Ensure the operators of other machines at a height or at ground level are informed of the presence of the machine;
- Warn personnel not to work, stand or walk underneath the lifted cage;
- When driving in areas where visibility is limited by obstacles, always have a person walk in front to alert you of any dangers;
- While driving, always keep non-operational personnel at a minimum distance of 2 m from the machine.
- Adjust the driving speed according to the following conditions: ground surface, traffic, visibility, slope, location of personnel and other factors that may pose a risk of collision or injuries to personnel;
- Consider the braking distances, regardless of the speed of the machine;
- Do not drive at high speed in restricted or narrow areas or when reversing.

### **Towing, lifting and carrying**

- Do not allow personnel to stand in the cage during towing, lifting and transporting.
- Only tow the machine in case of emergency, faults, power cuts or to load/unload it. Refer to the "Emergency procedures" section in this manual.
- Before towing, lifting and transporting, make sure the cage is completely retracted and emptied.
- Do not pull or push a blocked or disabled machine.
- While lifting the machine with a forklift, only place the forks in the appropriate areas of the machine. Lift with lifting equipment of adequate capacity.

For information regarding lifting, refer to the relative section in the manual.

**SECTION 2. GENERAL TECHNICAL DATA**

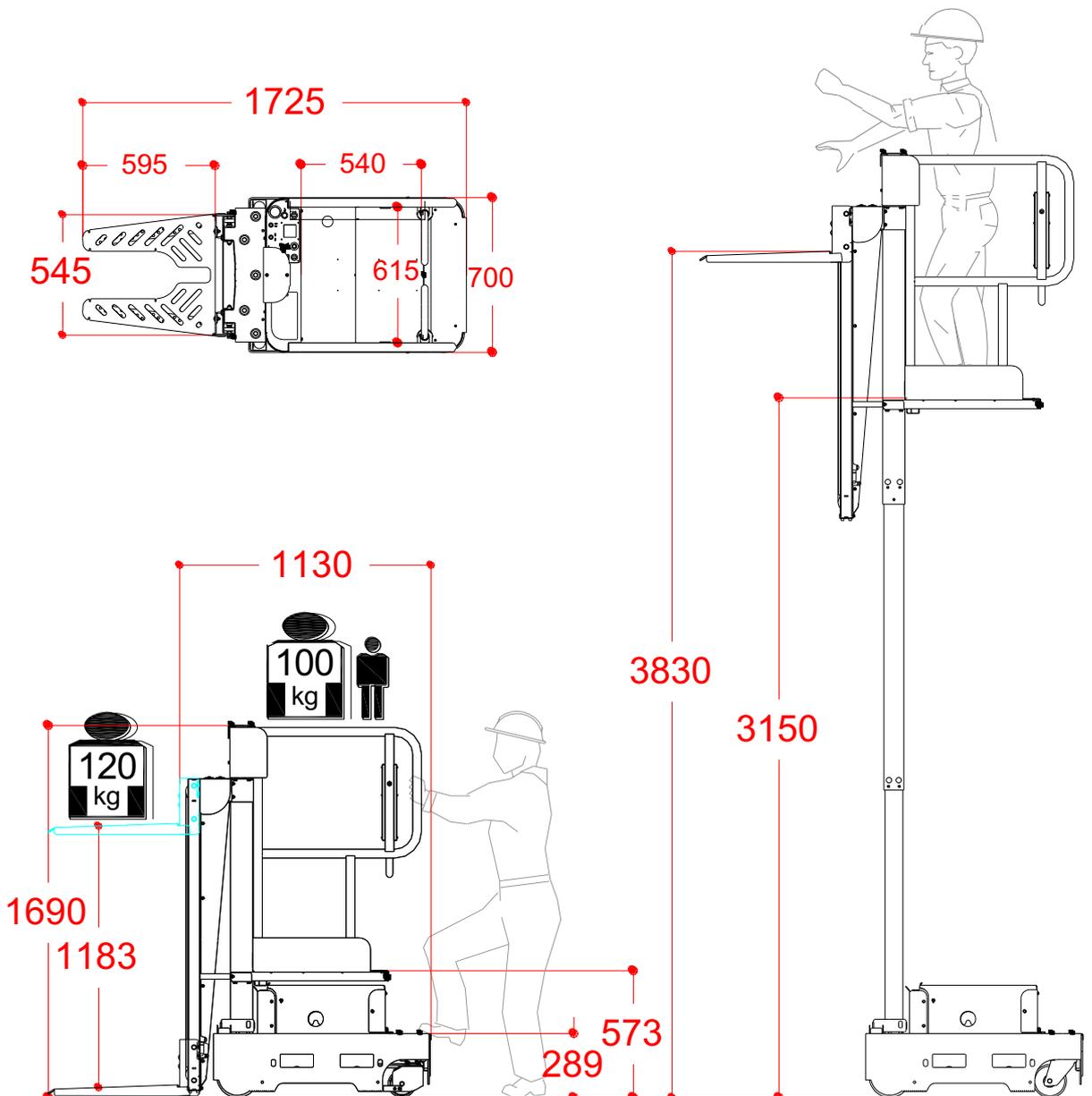


**ATTENTION**

**THE SELF-PROPELLED E5 TIRES STOCK PICKER IS A MACHINE SOLELY DESIGNED TO CARRY, LIFT, STACK OR ARRANGE LOADS ON SHELVING, AND IS CONTROLLED BY AN OPERATOR STATIONED IN THE DRIVER'S POSITION, WHICH CAN BE RAISED AT THE SAME TIME AS THE LOAD HANDLING DEVICE.**

**THE STOCK PICKER IS DESIGNED TO CIRCULATE IN INDOOR ENVIRONMENTS ON PREPARED, SMOOTH AND HORIZONTAL SURFACES. THE STOCK PICKER MUST ONLY BE USED FOR THE PURPOSE IT WAS DESIGNED FOR. ANY OTHER USE IS CONSIDERED MISUSE.**

**OVERALL DIMENSIONS AND CLEARANCES**



Measurements expressed in mm

STOCK PICKER TECHNICAL SPECIFICATIONS E5 TIRES	Value
<b>Weight of the machine:</b> (Total)	700 kg
<b>Machine height:</b> (in transport position)	169 cm
<b>Maximum resting pressure on the ground:</b> per wheel/outrigger (*)	322 daN
<b>Maximum climbing ability:</b> (in transport position)	15% - 8°
<b>Maximum longitudinal work climbing ability:</b>	2.5% - 1.5°
<b>Maximum transversal work climbing ability:</b>	2.5% - 1.5°
<b>Maximum transmission speeds:</b> (with cage lifted - in transport position)	0.25 m/s – 0.7 m/s
<b>Machine base:</b> (length x width)	172 cm x 70 cm
<b>Permitted use:</b>	INTERNAL USE
<b>Power supply</b>	2 Batteries 12V - 105 Ah
<b>Operators in the cage:</b>	1
<b>Maximum capacity of the cage + Tyres tool:</b>	220 Kg
<b>Maximum capacity of the Tyres tool:</b>	120 Kg
<b>Maximum cage ascent - descent speed:</b>	0.2 m/s
<b>Maximum cage height:</b> (between ground and cage floor)	3.15 m
<b>Maximum height of the Tyres tool:</b> (between ground and loading forks)	3.83 m
<b>Tyres tool stroke:</b>	118 cm
<b>Internal dimensions of the cage:</b>	61,5 cm x 54 cm
<b>Dimensions of the loading platform:</b>	59,5 cm x 54,5 cm
<b>Maximum hydraulic system pressure:</b>	~ 60 bar
<b>Required amount of oil for the hydraulic system:</b>	~ 5 Litres

**Table NOTE:**

\* : Maximum pressure per outrigger considering that the weight of the lifter plus the maximum load on the cage are entirely distributed on one side of the machine only (fully asymmetrical load)

**BASIC CONSTRUCTION DATA**

**MACHINE FRAME:** The frame of the machine (called base) is built entirely with galvanised iron. All essential components for normal machine operation in stable conditions are installed on the frame.

**EXTENDING STRUCTURE:** The extending structure (column) consists of extruded galvanised iron profiles (called extensions) that slide on each other with nylon pads. A synchronised three-rod oil hydraulic cylinder is installed inside the column, powered by the hydraulic unit, to lift the structure.

**CAGE, OBJECTS HOLDER TRAY AND TYRES TOOL:** The cage, the objects holder tray and the Tyres tool are made entirely of iron profiles. The base platforms are built with 3 mm thick, non-slip, aluminium chequer plate.

**EXPOSURE TO VIBRATION:** The stock picker does not produce vibrations that pose a risk to the health of operators. The weighted acceleration that the entire body is exposed to is less than 0.5 m/s<sup>2</sup>

**SOUND EMISSIONS:** The level of continuous sound pressure (A measurement) in the cage is less than 70 db (A).

**ATTENTION**

**THE E5 TIRES STOCK PICKER HAS BEEN TESTED BY THE MANUFACTURER FOR THE PURPOSE OF CALCULATING THE MAXIMUM PERMITTED TRANSVERSE AND LONGITUDINAL ANGLES.**

## SECTION 3. **PREPARATION AND INSPECTION**

### **PERSONNEL TRAINING**

The stock picker is a machine designed to carry, lift, stack or arrange loads on shelving; therefore, it is essential for it to be used and serviced by trained personnel only.

The machine cannot be used by persons under the influence of alcohol or drugs or subject to epileptic seizures, dizziness or loss of physical control.

#### **Operator training**

Operator training must include the following:

1. Use and limits of the machine's ground and emergency controls, and of the safety systems;
2. Signs/decals for controls, instructions and warnings on the machine;
3. Regulations defined by the employer and government regulations;
4. Sufficient knowledge of the mechanical operation of the machine to be able to recognise a fault;
5. Safe methods for using the machine in the presence of overhead obstacles, other moving equipment and obstacles, dips, holes and slopes.

#### **Training supervision**

Training must be carried out under the supervision of a skilled person, in an open space and clear of obstacles and must continue until the trainee is able to safely operate and use the machine.

#### **Operator responsibility**

The operator must be trained with regard to responsibility and authority to switch off the machine in the event of a fault or other unsafe condition, both relating to the machine and to the work area.

**NOTE:** *the owner shall provide skilled personnel for training both at the time of delivery of the first units and later, if required by the user or personnel.*

**FUNCTIONAL TEST**

At the end of the "DAILY INSPECTION" (section 6), carry out a functional test on all systems in an area free from overhead and ground obstacles.

**ATTENTION**

**IF THE MACHINE IS NOT WORKING PROPERLY, SWITCH IT OFF IMMEDIATELY. ALERT MAINTENANCE PERSONNEL TO THE PROBLEM. DO NOT USE THE MACHINE UNTIL IT IS DEEMED SAFE TO USE.**

Carry out a functional test as detailed below.

1. **Check correct operation of the manual descent valve (EMERGENCY DESCENT).**
2. **Carry out the specified operations from the cage control console.**
  - a. Make sure the control console is correctly assembled and securely fastened;
  - b. Lift and lower the cage to check that lifting and lowering take place evenly;
  - c. Make sure all machine functions are disabled when the emergency stop button is pressed.
  - d. Activate all functions and check correct operation of all limit switches and master and operation switches.
    - Machine brakes – Drive the machine on a slope (not exceeding the nominal operating capacity on a slope) and stop it to make sure the brakes hold it;
    - Tilt alarm – with the cage completely lowered, drive the machine on a surface with a slope greater than the maximum slope allowed in any direction (do not exceed the nominal operational capacity on a slope). Any attempt to lift the cage causes the machine to signal a tilt exceeding the admissible range;
    - Transmission speed decrease – When the cage is lifted, the transmission speed drops in comparison to the speed with lowered cage;
  - e. Make sure the loading platform is working correctly. Ensure it travels smoothly without any jolting, and that its up/down movement is not obstructed. Make sure all its parts are intact.

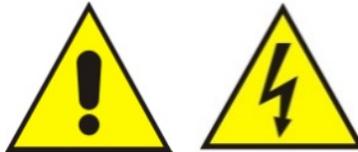
**SAFETY WARNINGS FOR OPERATORS**

Do not install and use the machine in the following cases:



**OUTDOORS AND IN WIND CONDITIONS**

**(DANGER OF LOSS OF STABILITY AND OVERTURNING)**



**CLOSE TO AERIAL OBSTACLES (power lines, protrusions, etc.)**

**(ELECTROCUTION, IMPACT AND COLLISION HAZARD)**



**WITH EXCESSIVE LOADS COMPARED TO ALLOWED LIMITS**

**(DANGER OF LOSS OF STABILITY AND OVERTURNING)**



**ON FLOORING WITH LOWER CAPACITY THAN THE WEIGHT OF THE MACHINE**

**(DANGER OF LOSS OF STABILITY AND OVERTURNING)**



**IN ANY CIRCUMSTANCE NOT SPECIFICALLY INDICATED UNDER THE OPERATING  
CONDITIONS IN THIS MANUAL**

**(GENERAL DANGER)**



**ATTENTION**

**THE ELECTRICAL SYSTEM OF THE MACHINE IS NOT EXPLOSION-PROOF (NO ATEX):  
THEREFORE ITS USE IN AREAS SUBJECT TO ATEX RISK SHOULD BE STRICTLY  
AVOIDED.**

**When travelling on the ground:**

- ✓ Move the machine with caution avoiding sudden manoeuvres;
- ✓ **DO NOT TRANSPORT PERSONS on the base frame of the machine and in any position other than inside the cage;**
- ✓ Check the structural condition and cleanliness of the surfaces that the machine is used on (ensure the surface is suitable for the weight of the machine in work conditions).

**During ascent and descent:**

- ✓ Comply with the maximum capacity weights allowed in the cage;
- ✓ Ensure there are no overhead obstacles along the vertical trajectory;
- ✓ Do not cause dangerous vibrations and/or oscillations that would result in loss of machine stability and possible overturning.

**ATTENTION**

**THE STOCK PICKER IS FITTED WITH AN AUTOMATIC BASE LEVELLING CHECK SYSTEM. WHEN THE MACHINE EXCEEDS THE MAXIMUM TILT ALLOWED BY THE MANUFACTURER (see the technical specifications of the machine), IT EMITS A WARNING SOUND. IN THESE CONDITIONS, WITH THE CAGE IN STAND-BY POSITION, THE MACHINE CAN STILL MOVE WHEREAS, WITH CAGE LIFTED, ANY MOVEMENT OTHER THAN CAGE DESCENT IS PREVENTED.**

**Prohibition signs:**

-  Prohibition to overload the machine beyond the indicated limits
-  Prohibition to use the machine as an aerial platform to carry out works at a height
-  Prohibition to remove or tamper with the machine's stability devices (sensors, ballasts, etc.)
-  Prohibition to remove or tamper with the machine's safety and protection devices
-  Prohibition to climb on or off the cage in places other than the appropriate gate
-  Prohibition to increase outreach or work height of the machine using additional equipment (such as ladders)
-  Prohibition to cause oscillations on the machine so as not to destabilise it
-  Prohibition to install any additional device that increases the wind load on the machine (such as warning signs)
-  Prohibition to come into contact with live electrical conductors
-  Prohibition to climb on/off the cage when elevated
-  Prohibition to lift/lower the cage without operator on board
-  Prohibition to use the machine to transport pallets of any type and shape

The Manufacturer recommends using the following personal protective equipment for safe use of the machine:



**Protection of lower limbs**

**NON-SLIP SHOES**



**ATTENTION**

**THE USE OF ANY ADDITIONAL SPECIFIC PERSONAL PROTECTIVE DEVICES MUST BE CHECKED BASED ON THE ASSESSMENT OF THE SPECIFIC RISKS, CARRIED OUT BY THE EMPLOYER**

The machine is equipped with an anchoring point for a fall arrest device to be used if it is required by the specific risk assessment for the work being carried out.



**SECTION 4. CONTROLS, WARNING LIGHTS AND MACHINE OPERATION****INTRODUCTION****ATTENTION**

**THE MANUFACTURER DOES NOT HAVE ANY DIRECT CONTROL OVER MACHINE APPLICATION AND OPERATION. THE USER AND OPERATOR ARE REQUIRED TO COMPLY WITH THE CORRECT SAFETY PROCEDURES.**

The Stock picker model E5 TIRES is an electric machine fitted with a cage assembled onto a lifting mechanism with galvanised iron uprights.

The Stock picker is **DESIGNED TO CARRY, LIFT, STACK OR ARRANGE LOADS ON SHELVING, CONTROLLED BY AN OPERATOR STATIONED IN THE DRIVER'S POSITION, WHICH CAN BE RAISED AT THE SAME TIME AS THE LOAD HANDLING DEVICE.**

The main control station is located in the cage. The operator can drive the machine and lift and lower the cage and handle the tyres tool from the control console of the cage.

The vibrations generated by the machine do not constitute any danger for the operator who is inside the cage.

The level of continuous sound pressure (A measurement) in the cage is less than 70 db (A).

**MACHINE OPERATION****Preliminary operations**

The following control conditions must be met, before being able to operate the machine with the controls.

- The battery voltage must be sufficient to operate the machine.
- The emergency stop switch with removable key, located on the control station in the cage must be on RESET.

**CHARGING THE BATTERY**

The machine is fitted with a battery charger with AC voltage input/DC voltage output. The battery charger automatically stops charging when the batteries are fully charged.

**ATTENTION**

**KEEP SPARKS, NAKED FLAMES OR CIGARETTES AWAY FROM THE BATTERIES. PROVIDE ADEQUATE VENTILATION WHILE CHARGING. DO NOT CHARGE A FROZEN BATTERY.**

**NOTE:** when the battery charger is connected to an AC socket, the transmission function of the machine is disabled.

### Battery charging procedure

1. Park the machine in a well-ventilated area, near an AC electric socket;
2. Turn the main switch to OFF and remove the key;
3. Connect the battery charger to a correctly installed and earthed socket according to regulations in force.

### Battery charge warning lights

The battery charge warning lights are located on the right side of the machine's base.



While recharging the battery, the **RED LED** indicates the beginning of the charging cycle. Charging stops automatically with no need for operator action, and is indicated by the **GREEN LED** on.

While using the machine, the battery charge will change from fully charged (*indicated by the green LED*), to partially charged (*indicated by the orange LED*) to low battery (*indicated by the red LED*).

Carry out the following operations carefully:

- ✓ Charging must be carried out in a well-ventilated area, where it is forbidden to smoke and use naked flames;
- ✓ It is recommended to avoid using any possible source of sparks near charging batteries;
- ✓ It is recommended to use anti-static clothing;
- ✓ Do not lift or tilt the batteries;
- ✓ Do not attempt to start the machine;



**ATTENTION**

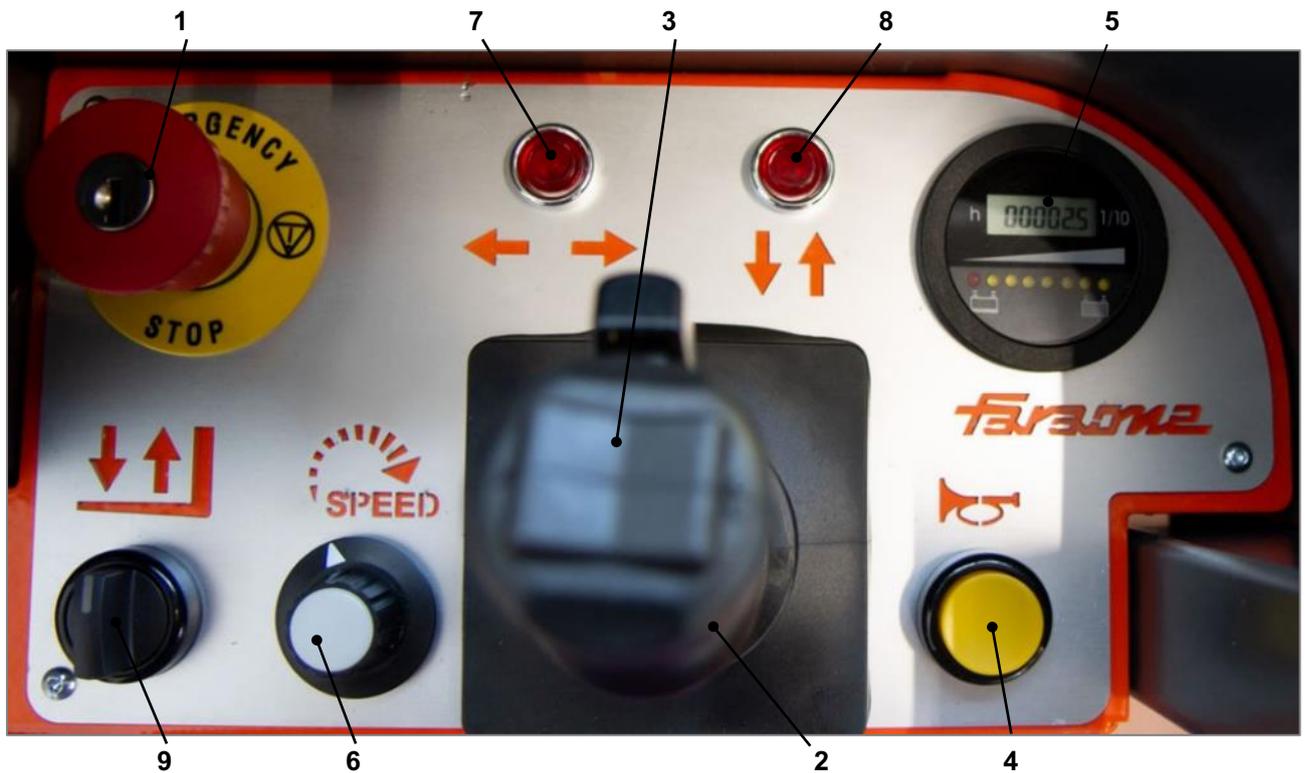
**IT IS RECOMMENDED TO NEVER LET THE BATTERIES GO COMPLETELY FLAT.**



**ATTENTION**

**WHEN THE MACHINE IS PUT OUT OF SERVICE FOR A LONG TIME, THE BATTERIES MUST BE COMPLETELY AND EVENLY CHARGED AT LEAST ONCE A WEEK AND STORED UNPLUGGED TO STOP THEM FROM GOING FLAT.**

**CAGE CONTROL CONSOLE**



1. Emergency stop button with switch with removable key;
2. Multi-purpose joystick control with dead man enabling control;
3. Cage lifting/lowering selector;
4. Audible device button;
5. Battery charge/machine operation hour display;
6. Transport position speed regulator;
7. Start indicator LED;
8. Cage lifting or lowering indicator LED;
9. Tyres tool ascent/descent control.

**General information**

Before operating the machine from the cage control console, the following conditions of the controls must be met:

- The master switch must be ON.
- The emergency stop switch with removable key, located on the control station in the cage must be on RESET.

**Emergency stop/switch-off button with removable key**

The emergency button located inside the control console of the cage is provided with a removable key to prevent the machine from being used by unauthorised personnel. Press the button and remove the key to disconnect the general power supply.



**POWER SUPPLY DISCONNECTION**

PUSH INWARDS to engage the emergency stop and remove the key to prevent unauthorised use.



**POWER SUPPLY CONNECTION**

Insert the key and TURN clockwise and RELEASE to restore the emergency stop.

**NOTE:** in order for the machine to operate, the emergency stop button on the cage must be on RESET.



**ATTENTION**

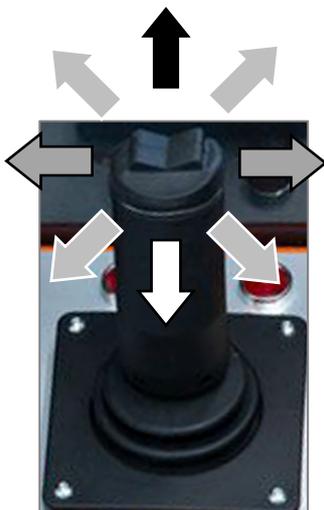
**SWITCH THE MACHINE OFF AND ALWAYS REMOVE THE KEY WHEN THE STOCK PICKER IS NOT IN USE TO PREVENT UNAUTHORISED USE.**

**Multi-purpose joystick control**

The joystick is used to control the following machine functions:

- Transmission/steering
- Cage lifting and lowering

**Transmission mode**



PRESS THE DEAD MAN BUTTON ON THE JOYSTICK, then move the joystick in the required direction.

The transmission power is applied proportionally to how far the joystick is shifted from the centre.

**NOTE:** the pedal switch must also be pressed and held to activate machine functions.

**Lifting mode**



PRESS THE DEAD MAN BUTTON ON THE JOYSTICK, then:

1. Press to the LEFT to LOWER the cage.
2. Press to the RIGHT to RAISE the cage.

**NOTE:** the pedal switch must also be pressed and held to activate machine functions.



**ATTENTION**

**IF THE TILT ALARM IS TRIGGERED WHILE THE OPERATOR IS DRIVING WITH THE CAGE UP, LOWER THE CAGE ALL THE WAY DOWN AND MOVE ON TO A SOLID AND HORIZONTAL SURFACE.  
BEFORE LOWERING THE CAGE MAKE SURE THAT THERE IS NO PERSONNEL IN THE AREA BELOW.**

**Battery charge/machine operation hour display**

The display shows the machine's operating hours (expressed in tenths of an hour and only calculating the time of any machine movement) as well as battery charge level (from maximum charge when all yellow LEDs are on, to minimum charge when the red LED is on).

**Transport position speed regulator**



When the machine is in transport position (cage fully lowered) it is possible to regulate the transmission speed from the regulator.

By turning the regulator counter-clockwise it is possible to lower the translation speed. On the other hand, by turning the regulator clockwise it is possible to increase the translation speed.

**Tyres tool ascent/descent control**



1. Turn the selector to the LEFT to LOWER the tyres in the tyres tool.
2. Turn the selector to the RIGHT to LIFT the tyres in the tyres tool.

**SWITCH-ON PEDAL SWITCH**

FUNCTION PEDAL SWITCH



Place your foot on the switch, hold it down to actuate the joystick functions.

**NOTE:** both pedal-switch and joystick actuation lever must be held down in order to actuate the joystick functions.

**ACCESS TO CAGE**

To access the cage, the operator must push the moving parts of the entrance gate inwards; once inside, the gate will close by itself.

The machine will not enable any controls if the gate is not closed properly.





**ATTENTION**

**MAKE SURE THERE ARE NO OBSTACLES PREVENTING THE CAGE GATE FROM CLOSING PROPERLY**



**ATTENTION**

**DO NOT OPEN THE GATE OF THE CAGE WHEN IT IS SUSPENDED SO AS TO AVOID THE RISK OF FALLING FROM A HEIGHT AND BLOCKING THE MACHINE FUNCTIONS**



**ATTENTION**

**MAKE SURE YOUR HANDS DO NOT GET CAUGHT WHEN CLOSING THE GATE**



**ATTENTION**

**DO NOT RAISE/LOWER THE CAGE IF THE MOBILE RAILING DOES NOT APPEAR TO CLOSE PROPERLY, AND HAVE IT REPAIRED (CONTACT THE MANUFACTURER, IF REQUIRED)**



**ATTENTION**

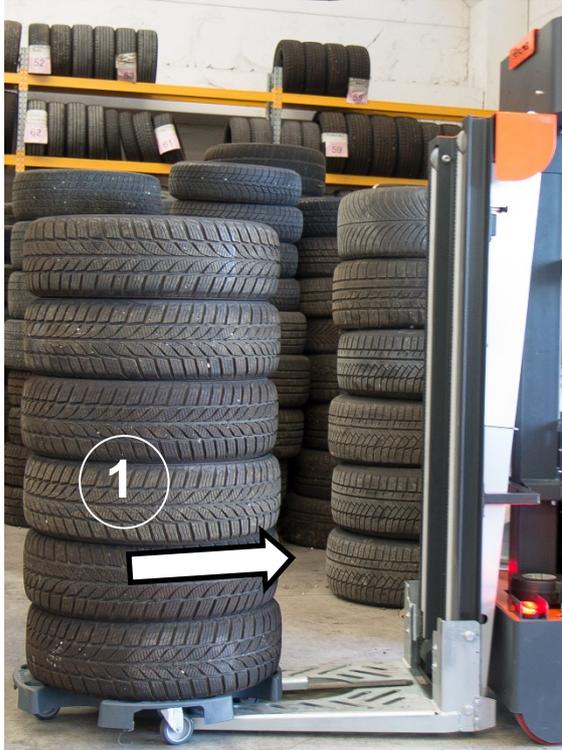
**THE TOTAL NOMINAL LOAD IS OBTAINED BY ADDING THE LOAD IN THE CAGE + THE LOAD ON THE OBJECTS HOLDER TRAY + THE LOAD ON THE TYRS TOOL. THIS VALUE CANNOT EXCEED 220 KG IN ANY CASE**

**TYRES TOOL**

To load the tyres onto the shelves, proceed as follows:

**PHASE 1:**

- Place the forks of the loading platform in the tyre cart (1) (*optional or included in your supply*), making sure the forks have been inserted all the way under the load, and lift (2).



**ATTENTION**

**MAKE SURE THE FORKS ARE PROPERLY INSERTED ALL THE WAY UNDER THE LOAD**



**ATTENTION**

**THE MACHINE WAS NOT DESIGNED TO TRANSPORT PALLETS OF ANY TYPE AND SHAPE.**



## PARKING THE MACHINE

1. Drive the machine to a well-protected and ventilated area.
2. Make sure the cage is completely lowered, press the emergency stop/switch-off button with the removable key and take out the key.

**NOTE:** if necessary, charge the batteries in preparation for the following work day.



### **ATTENTION**

**SWITCH THE MACHINE OFF AND ALWAYS REMOVE THE KEY WHEN THE STOCK PICKER IS NOT IN USE TO PREVENT UNAUTHORISED USE.**

## TRANSPORT AND LIFTING PROCEDURES

### General information

The stock picker can be transported to a work site using one of the following methods:

- By driving the machine along the route on its base wheels, if the surface it travels on permits it;
- By moving it with a forklift (see the picture below – check the gross weight in the Operational Technical Data Table of the machine).



### **ATTENTION**

**LOAD THE MACHINE, ONLY IN A VERTICAL POSITION, ONTO A HEAVY DUTY VEHICLE HAVING A USEFUL LOAD CAPACITY THAT WITHSTANDS THE TOTAL WEIGHT OF THE MACHINE (CHECK THE GROSS WEIGHT IN THE OPERATIONAL TECHNICAL DATA TABLE OF THE MACHINE)**



### **ATTENTION**

**SECURE THE MACHINE SO THAT IT DOES NOT GET DAMAGED DURING TRANSPORT.**

## Handling with a forklift

The machine can be lifted with a forklift truck. In this case, it must be held from the side of the machine in order to position it in a stable way on the forks (see following figure).



**ATTENTION**

**ONLY LIFT THE MACHINE WITH THE CAGE COMPLETELY LOWERED.**

**SECTION 5. EMERGENCY PROCEDURES**

This section shows the operations to be carried out in the event of an emergency during machine operation.

**EMERGENCY OPERATION**

**Operator unable to control the machine**

CONDITIONS IN WHICH THE MACHINE OPERATOR IS IMMOBILISED, TRAPPED OR UNABLE TO OPERATE OR CONTROL THE MACHINE.

- The other personnel must only operate the machine from the emergency controls on the ground in case of absolute need.
- The machine controls must only be used by qualified personnel. DISCONTINUE MACHINE ACTIVITY IF THE CONTROLS ARE NOT WORKING CORRECTLY.
- In case of incorrect operation of the controls or power outage, the emergency stop must be pressed and a qualified operator must carry out the EMERGENCY DESCENT procedure from the ground.

Proceed as follows:

1. Press the emergency button to disconnect the power supply;
2. ATTENTION: make sure there are no persons within the working range of the machine;
3. Lift the yellow protective shield (1) on the side of the base carriage with your finger and gradually loosen the knurled knob inside it (2) so as to lower the cage;



4. ATTENTION: constantly monitor the entire cage descent phase;
5. Once descent is completed, tighten the knob again;
6. Reset the emergency button to enable the machine's power supply.

**ATTENTION**

**THE OPERATIVE STAGES OF THE EMERGENCY DESCENT PROCEDURE ARE ILLUSTRATED ON AN APPROPRIATE DECAL NEAR THE EMERGENCY DESCENT CONTROL.**

**Cage blocked in overhead position**

If the cage blocks or gets stuck in overhead equipment or structures, transfer the person from the cage to a safe place before freeing the machine.

Recovery equipment can be used to allow the occupant to climb down from the cage. A crane or forklift may be used to stabilise machine movement.

**REPORTING THE ACCIDENT**

Faraone Industrie Spa must be immediately informed of any incidents involving a Faraone product. Contact the factory by telephone and provide all the necessary details, even if no injuries or evident damage to property are involved.

**ATTENTION**

**AFTER AN ACCIDENT, INSPECT THE ENTIRE MACHINE AND CHECK ALL FUNCTIONS. DO NOT LIFT THE CAGE UNTIL YOU ARE CERTAIN THAT ALL DAMAGE HAS BEEN REPAIRED, AS REQUIRED, AND THAT ALL CONTROLS ARE WORKING PROPERLY.**

**SECTION 6. DAILY INSPECTION**

Start the full inspection from point (a), as set out in the following list. Proceed around the machine checking all listed conditions in sequence.

**ATTENTION**

**TO PREVENT ANY INJURIES, ENSURE THAT THE MACHINE POWER SUPPLY IS SWITCHED OFF DURING THE "FULL INSPECTION".**

**DO NOT USE THE MACHINE BEFORE REPAIRING ALL FAULTS.**

**DO NOT FAIL TO CARRY OUT A VISUAL INSPECTION OF THE LOWER PART OF THE BASE FRAME. ENSURE THE AREA IS CLEAR OF OBJECTS OR DEBRIS THAT MIGHT CAUSE SERIOUS DAMAGE TO THE MACHINE.**

**NOTE FOR INSPECTION:** *besides complying with the above criteria, ensure for each component that all parts are present, securely fixed and not loose and that there is no visible damage, leaks or signs of excessive wear.*

- a) **Drive wheels/free wheels and swivel castors**  
Check there is no debris attached to the wheels or around them;
- b) **Base frame**  
Ensure there are no loose wires or cables hanging underneath the base, check for any dents, breaks or cracks on the profiles;
- c) **Manual descent control valve** – See note pertaining to functional check;
- d) **Motor/pump/tank unit**  
No conspicuous hydraulic leak, hydraulic oil filling level at the "full" line;
- e) **Batteries**  
Charge them as required;
- f) **Cage unit and entrance doors**  
Correct blocking of the cage and entrance doors operating correctly;
- g) **Control console in the cage**  
Controls secured, legible signs, emergency stop switch in the reset position for operation and legible control signs;
- h) **Extending structure unit**  
Structure profiles, sliding inserts that can rotate freely;
- i) **Tyres tool**  
Check for dents, breaks or cracks on the structure, and check that the moving parts slide properly.

**ATTENTION**

**DO NOT USE THE MACHINE BEFORE REPAIRING ALL DISCOVERED FAULTS / MALFUNCTIONS**

**SECTION 7. ROUTINE MAINTENANCE****ATTENTION**

**MAINTENANCE CAN BE CARRIED OUT BY COMPANY PERSONNEL WITH EXPERIENCE IN MAINTENANCE WORK AND ADEQUATELY TRAINED WITH REGARD TO SAFETY STANDARDS IN FORCE.**

**ATTENTION**

**IT IS RECOMMENDED TO ONLY USE SPARE PARTS APPROVED BY THE MANUFACTURER.**

**ATTENTION**

**CONTACT THE MANUFACTURER IF IN DOUBT WITH REGARD TO THE FREQUENCY AND METHOD OF ROUTINE AND/OR EXTRAORDINARY MAINTENANCE ACTIVITIES. DO NOT TAKE INITIATIVES IF UNSURE OF WHAT YOU ARE DOING.**

**ATTENTION**

**TO CARRY OUT MAINTENANCE AND/OR CLEANING OPERATIONS ON THE MACHINE THAT REQUIRE THE EXTENDING STRUCTURE TO REMAIN IN A PARTIALLY EXTENDED POSITION, ANCHOR THE CAGE SAFELY (FOR EXAMPLE, USING A SUPPORTING STRUT ON THE GROUND) TO PREVENT IT FROM ACCIDENTALLY FALLING ONTO THE OPERATOR PERFORMING THE MAINTENANCE OPERATIONS.**

**ATTENTION**

**THE RECOMMENDED FREQUENCY OF LUBRICATION AND OF THE WEAR CHECKS IS BASED ON NORMAL USE. IF THE MACHINE IS USED FOR HEAVY DUTY WORK, SUCH AS A HIGH NUMBER OF CYCLES, UNFAVOURABLE POSITION, CORROSIVE/DIRTY ENVIRONMENT, ETC., THE USER MUST INCREASE THE FREQUENCY OF THE CHECKS ACCORDINGLY.**

**QUARTERLY MAINTENANCE**

- **Check there is no clearance, mechanical parts not correctly secured and/or bent and no damaged welds on parts/components**
- **Check the integrity of the structural profiles**
- **Check correct operation of the emergency descent valve**  
Lift the cage to a height and execute an “emergency descent”, as indicated in the appropriate section of this manual.
- **Hydraulic Oil**  
Check the hydraulic oil level and top up, as required.  
Refer to the specifications in the appropriate paragraph for information regarding hydraulic oil checks and top-up.
- **Check the hydraulic oil piping connections and make sure there are no leaks**
- **Battery Inspection**  
Periodically check for any corrosion and tightening of the terminals and any acid top-ups required in the battery (if lead/acid type).
- **Check the cage and entrance doors**  
Correct blocking of the cage and entrance doors operating correctly.
- **Check the controls in the cage**  
Controls secured, legible signs, emergency stop switch in the reset position for operation and legible control signs.
- **Check the wheels for wear**  
Check there is no debris on the wheels or around them. Check for tread wear or damage.  
If the wheels have significant damage on tread or sides, immediately assess the severity of the damage before operating the machine again.  
Wheels with a tread depth of less than 5 mm or deformed profiles must be replaced.  
Refer to the instructions in the relative paragraph for information on how to replace the wheels.

**MAINTENANCE EVERY SIX MONTHS**

- **Transmission motor**  
Check the brushes for wear and replace them if required.  
Refer to the instructions in the appropriate paragraph for information on checking and replacing the brushes;
- **Transmission motor**  
Checking the manifold: Check if the surface of the manifold has burns, reduced diameter relating to the brushes or eccentricity. If so, refer to the instructions in the relative paragraph.

- **Transmission motor**  
Checking the bearings: Make sure that neither bearing is noisy and has no excessive backlash.
- **Transmission motor**  
Checking the electromagnet: If the brake does not release and lock the lining properly when it is energised and de-energised in alternation, measure the resistance of the winding, and if necessary, replace the electromagnet or the lining disc.  
Refer to the instructions in the relative paragraph for information on how to check and replace it.
- **Checking the sliding pads of the extendible column**  
Each part of the lifting column, called extension, slides over the other by means of nylon pads. With regular machine use, these could be worn and cause a gradual direct rubbing on the extensions, thereby compromising the efficiency of the extendible structure.  
Check if the extensions rub against each other; if so, the machine must be stopped and the pads replaced. For this, it is advisable to contact Faraone S.p.A. or an authorised maintenance centre. Refer to the “REPLACING THE EXTENSION SLIDING PADS” chapter for more information.
- **Tyres tool lifting motor**  
Check the brushes for wear and replace them if required, and check the manifold.

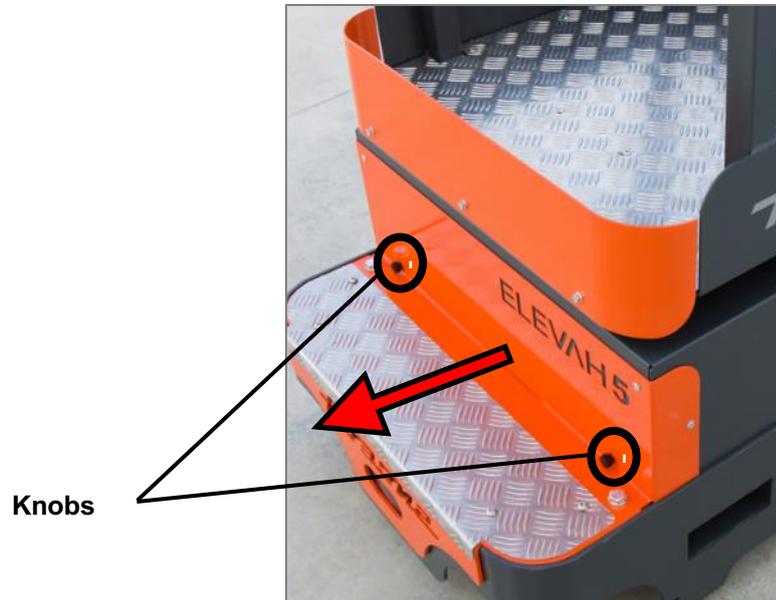
**MAINTENANCE EVERY TWO YEARS**

- **Hydraulic Oil**  
Replace the hydraulic oil in the tank.  
Refer to the specifications described in the appropriate paragraph for hydraulic oil change.

**SECTION 8. MAINTENANCE INSTRUCTIONS**

**OPENING THE BASE CARRIAGE CASING**

Perform maintenance on the devices inside the base carriage by removing the protective casing as follows:



When the step is completed, set the protective casing of the base back in place and tighten the knobs again.

**BATTERY MAINTENANCE**

It is required to periodically check for any corrosion and tightening of the terminals. If required, replace the batteries as follows:

1. Make sure the machine is not connected to an external mains supply (charging batteries);
2. Use the specific switch to disconnect the machine's power supply;
3. Follow the instructions to open the casing of the base carriage described in the "OPENING THE BASE CARRIAGE CASING" paragraph;
4. Loosen the connection terminals of the batteries (positive pole and negative pole);
5. Remove the batteries and replace them with new ones;
6. Connect the terminals of the batteries, making sure to do so correctly (red cable for the positive pole, black cable for the negative pole) and tighten them;
7. Once the step is completed, close the protective casing again and block it by following the instructions described in the "OPENING THE BASE CARRIAGE CASING" paragraph and reconnect the power supply.



**ATTENTION**

**SHOULD THE BATTERY BE DAMAGED, USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT TO PROTECT YOUR HANDS AGAINST CHEMICAL AGGRESSION WHEN REPLACING THE BATTERY.**

**DISPOSE OF THE BATTERIES IN ACCORDANCE WITH THE LAWS IN FORCE. REPLACE THE BATTERIES WITH ONES IDENTICAL TO THOSE SUPPLIED BY THE MANUFACTURER.**

**CHANGING AND TOPPING UP THE HYDRAULIC OIL**

Faraone Industrie Spa recommends using hydraulic oil with viscosity index 32. It is strongly advised not to mix oils of different makes or types, since they may not contain the necessary additives or the viscosity may be different.

Change or top up hydraulic oil as follows:

1. Make sure the machine is not connected to an external mains supply (charging batteries);
2. Use the specific switch to disconnect the machine's power supply;
3. Follow the instructions to open the casing of the base carriage described in the "OPENING THE BASE CARRIAGE CASING" paragraph;
4. Check the oil level, and top up if necessary or change it if the maintenance frequency has elapsed;
5. Once the step is completed, close the protective casing again and block it by following the instructions described in the "OPENING THE BASE CARRIAGE CASING" paragraph and reconnect the power supply.

**ATTENTION**

**THE HYDRAULIC OIL MUST BE TOPPED UP/CHANGED WITH THE CAGE FULLY DOWN; IF THE HYDRAULIC OIL TANK IS UNDER THE CAGE, KEEP IT AT A HEIGHT OF APPROXIMATELY ONE METRE AND PERFORM TOPPING UP/CHANGE.**

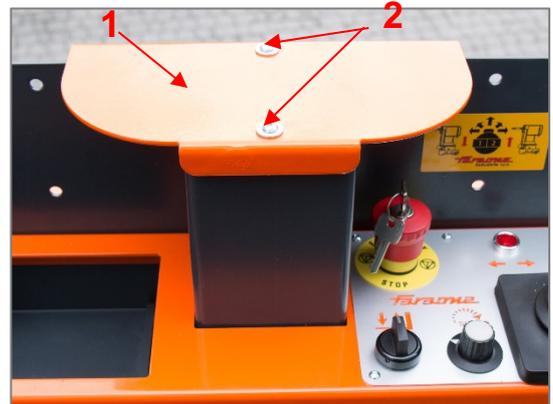
**ATTENTION**

**DISPOSE OF THE WASTE OIL IN ACCORDANCE WITH THE LAWS IN FORCE.**

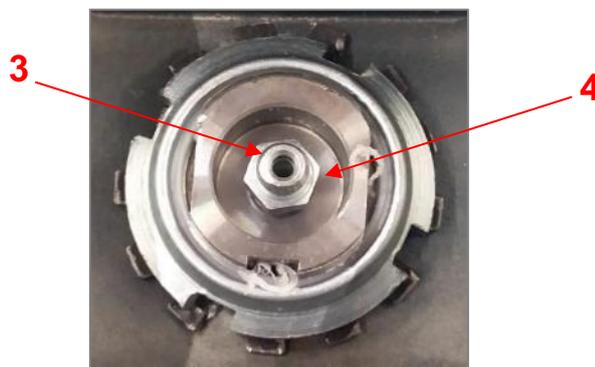
**BLEEDING THE HYDRAULIC SYSTEM**

After changing the hydraulic oil, the system must be bled as described below:

1. Remove the protective casing (1) by loosening the two screws (2) found above;



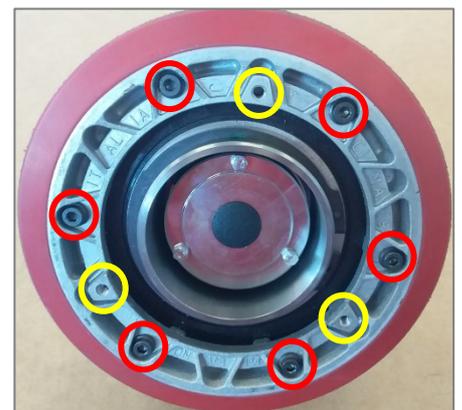
2. Insert a tube into the bleed nozzle (3) and use a socket wrench to slightly loosen the nut (4). Then, move the multifunction joystick slightly forward until a little oil leaks with no air bubbles and tighten immediately.



**REPLACING THE TRACTION WHEELS**

If required, replace the wheels as follows:

1. Remove the locking screws ; insert the service screws in the appropriate extraction holes  and fasten them until they enter freely;
2. At the start of release, alternately tighten the screws, in order to undo the part of the wheel forced on the hub; then tap it a few times with a hammer to extract it completely.



Reassembly

1. Fit the wheel and insert the locking screws;
2. Adjust the position of the wheel so that the screws and any reference pins can fit into their housings; if the motor is running to facilitate centring the holes, use 2 threaded bars screwed onto the toothed crown;
3. Tighten with one turn at a time, alternately, until completely locked.

**NOTE:** it is advisable to replace the wheel before the thickness of the tread drops below 5 mm.

**ELECTROMAGNETIC BRAKE**

**Checking the electromagnet**

If the brake does not release and lock the lining properly when it is energised and de-energised in alternation, measure the resistance of the winding, which must be as follows:

- miniGL - brakes at 24 Volt → 37 Ω

also check the insulation towards the motor, using a 500-volt Megohmmeter to measure the insulation resistance, which must be above 0.1 MΩ.

The electromagnet must be replaced if it does not fulfil these conditions.

**Replacing the electromagnet and checking the lining with a splined hub**

Remove any brake covers and completely loosen the three fixing screws and remove the electromagnet and check the lining disk.

Its thickness must be about 7 mm for the ø84 mm type.

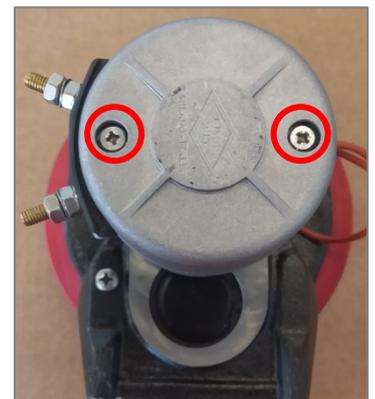
If the thickness is less than 5 mm, it is advisable to replace the complete lining of the splined hub after having removed the seeger ring or self-locking nut.

Refit the new lining.

**TRANSMISSION MOTOR**

**Checking the condition of the motor**

1. Unscrew the two M5 tie rods  and extract the aluminium cap complete with brush holder;
2. Use compressed air to eliminate carbon dust deposits on the inner surfaces of the motor.
3. With manifold motors, check the length of the brushes and their smooth movement in their housings.



**Checking the brushes**

Check smooth movement as well as length of the brushes to ensure good performance.

Dimension	Maximum length	Minimum length
17 x 8	19 mm.	11 mm.

When replacing brushes, pay utmost attention to the welds.

**Checking the manifold**

If the surface of the manifold bears signs of burns, reduction of the diameter in relation to the brushes or eccentricity, repeat turning and dressing of the surface and undercutting between the slats. Extract the armature by first disassembling the electromagnetic brake mounted on the opposite side and extract the armature itself while being careful of accidental impact caused by the flow of the magnets.

## Checking the bearings

Make sure that neither bearing is noisy and has no excessive backlash.

**NOTE:** whenever maintenance is performed, it is recommended to replace all consumables – considering these to also include the screws complete with washers and anti-loosening treatment, the keys and the corrugated washers.



### **ATTENTION**

**FOLLOWING A STRONG COLLISION WE RECOMMEND A THOROUGH CHECK OF THE FUSION OF REDUCER, THE WHEEL, THE GEARS AND THE BEARINGS**

## REPLACING THE EXTENSION SLIDING PADS

Each part of the lifting column, called extension, slides over the other by means of nylon pads. With regular machine use, these pads could be worn and this could cause direct rubbing of the extensions, thereby compromising machine efficiency.

As soon as you begin noticing the extensions rubbing directly, it is **mandatory** to stop the machine and replace the pads.

For this, it is advisable to contact Faraone S.p.A. or an authorised maintenance centre.

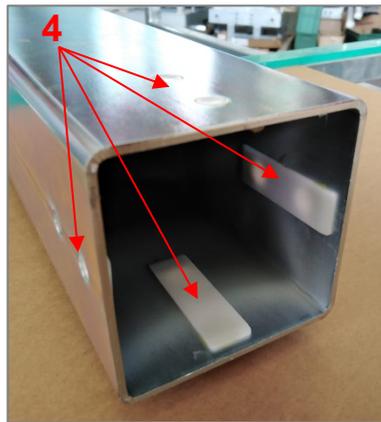
The following procedure must be strictly complied with to replace the pads.

### Removing worn pads

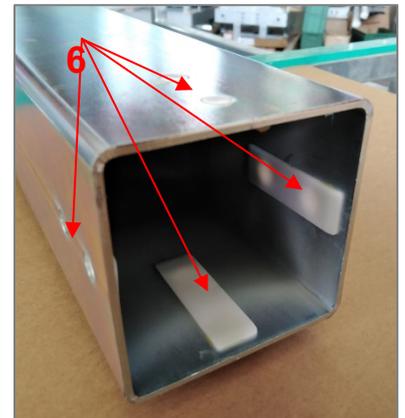
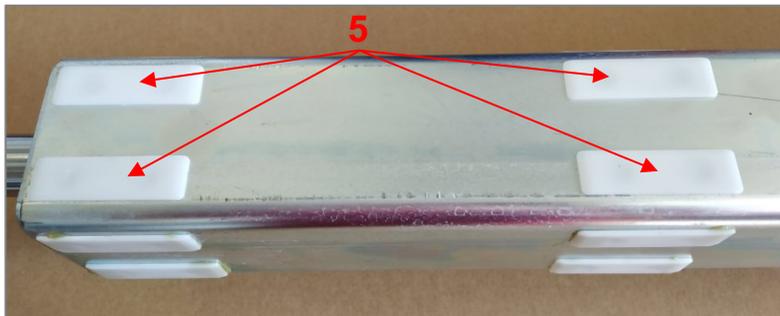
1. Remove the protective casing (1) by unscrewing the two screws (2) above and unscrew the outer ring nut (3) that connects the cage assembly to the hydraulic cylinder;



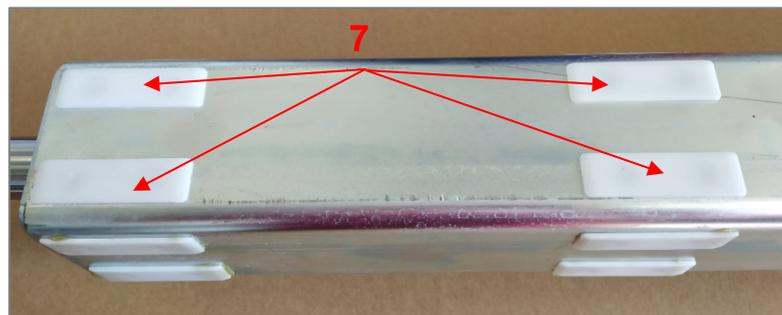
- Lift the cage unit using a winch or other lifting equipment, completely extracting the third extension (part of the cage unit) from the column and remove the four pads (4) on it;



- Remove all the pads (5) present (4 on each side) in the upper part of the second extension, fully extract it from the column and remove the four pads (6) in its lower part;



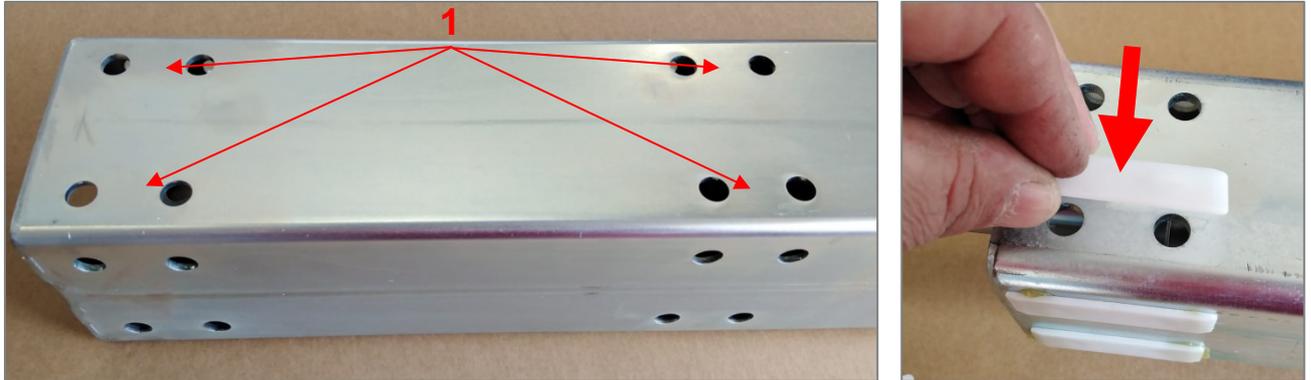
- Remove all the pads (7) present (4 on each side) in the upper part of the first extension (directly connected to the machine base);



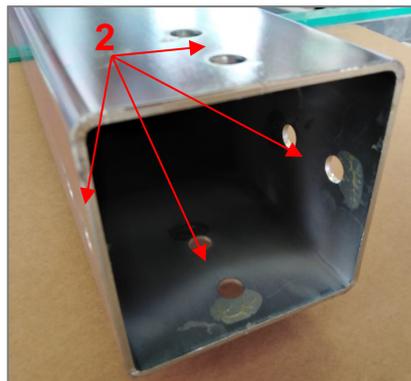
- Remove the old layer of grease and clean all the surfaces.

**Installing new pads**

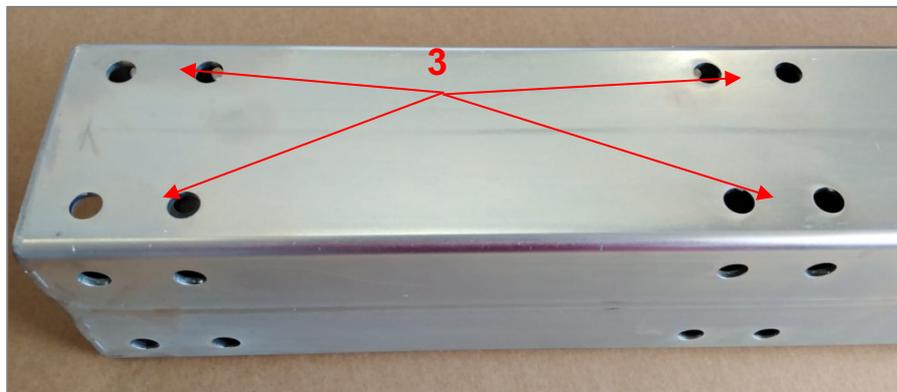
1. Grease the seats of the pads on the extensions;
2. Insert four new pads, on each side, in the holes (1) made externally, at the top of the first extension;



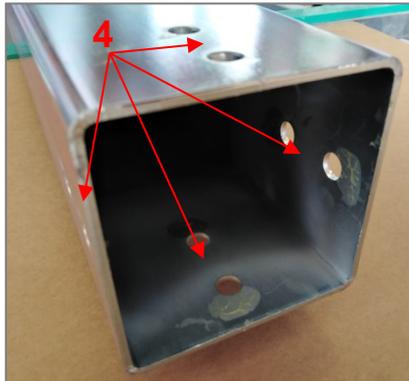
3. Insert the four new pads into the holes (2) made internally, on each side, at the base of the second extension and insert it all the way into the first extension;



4. Insert four new pads, on each side, in the holes (3) made externally, at the top of the second extension;



5. Insert the four new pads into the holes (4) made internally, on each side, at the base of the third extension (cage/last extension unit) and insert it all the way into the second extension;



6. Tighten the ring nut again that connects the cage/last extension unit to the hydraulic cylinder and reposition the protective casing by tightening the two screws previously removed.



**ATTENTION**

**FOR FURTHER INFORMATION REGARDING THE PURCHASE OF SPARE PARTS AND CONSUMABLES, PLEASE CONTACT THE MANUFACTURER.**

**THE MANUFACTURER DISCLAIMS ALL LIABILITY FOR DAMAGE OR MALFUNCTION CAUSED BY USE OF PARTS NOT AUTHORISED BY THE MANUFACTURER.**

**SECTION 9. ATTACHED DOCUMENTATION**

- ✓ ATTACHMENT 1 – Layout for application of the decals;
- ✓ ATTACHMENT 2 – Hydraulic diagram;
- ✓ ATTACHMENT 3 – Wiring diagram;
- ✓ ATTACHMENT 4 – Passed acceptance test certificate;
- ✓ ATTACHMENT 5 – Declaration of conformity.

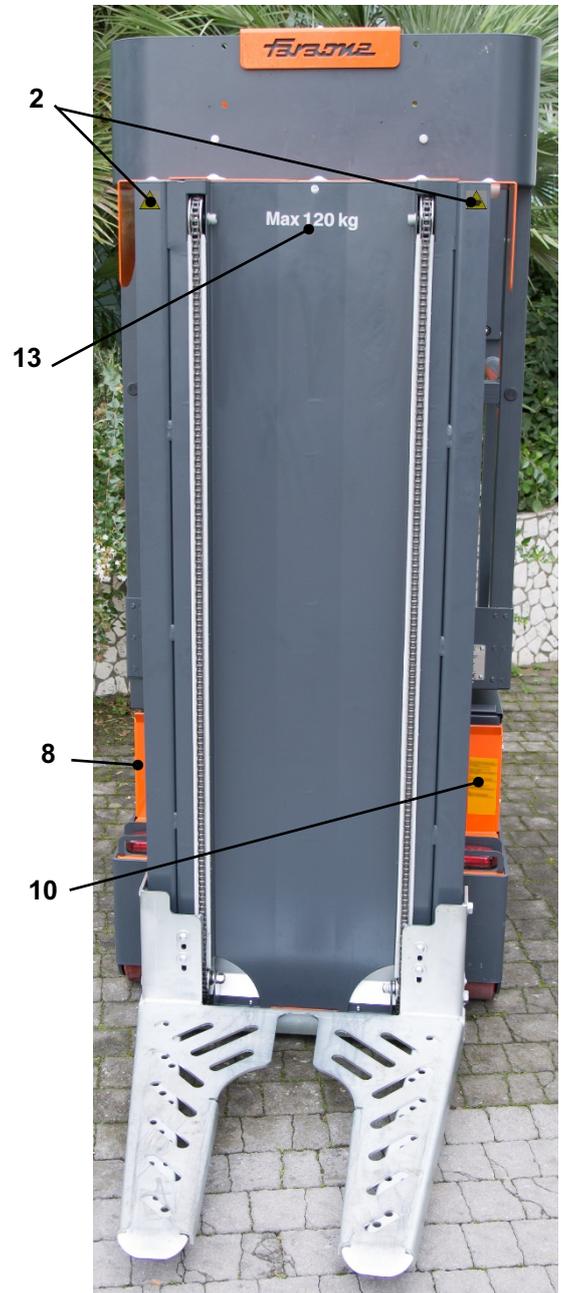
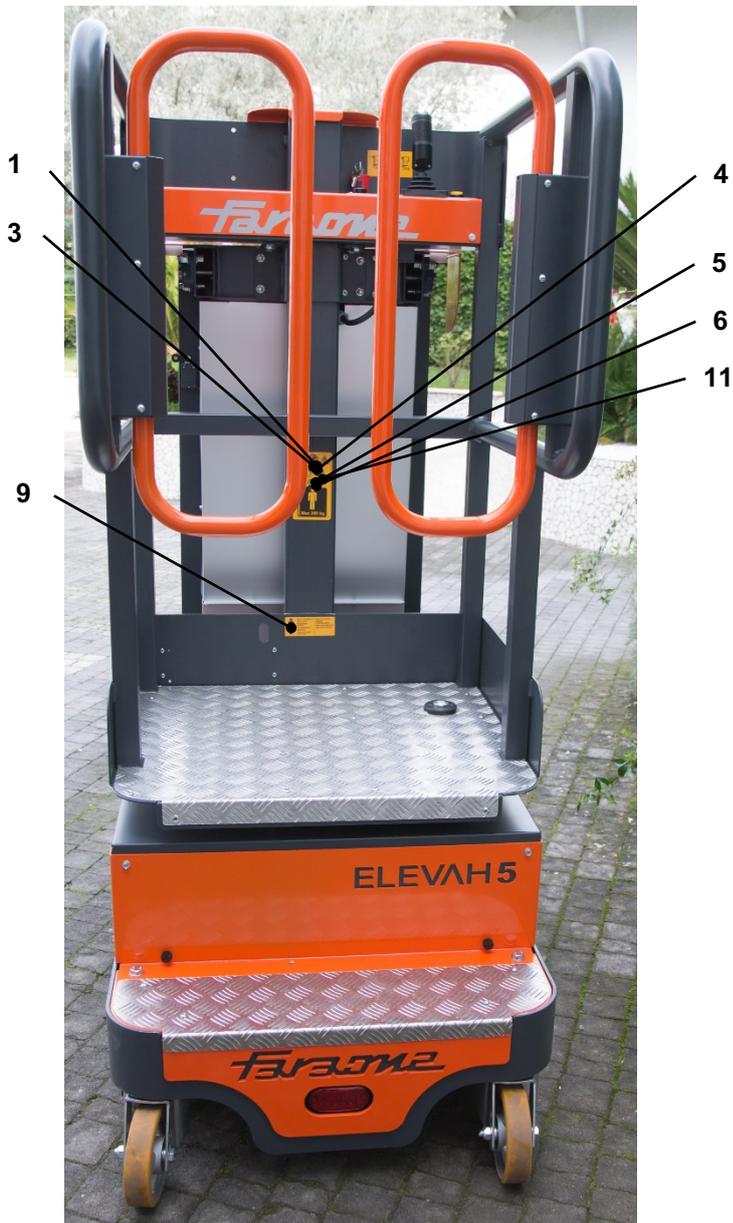


**ATTENTION**

**SHOULD THE MACHINE BE SOLD TO A THIRD PARTY, ALL DOCUMENTATION MUST BE DELIVERED WITH IT.**

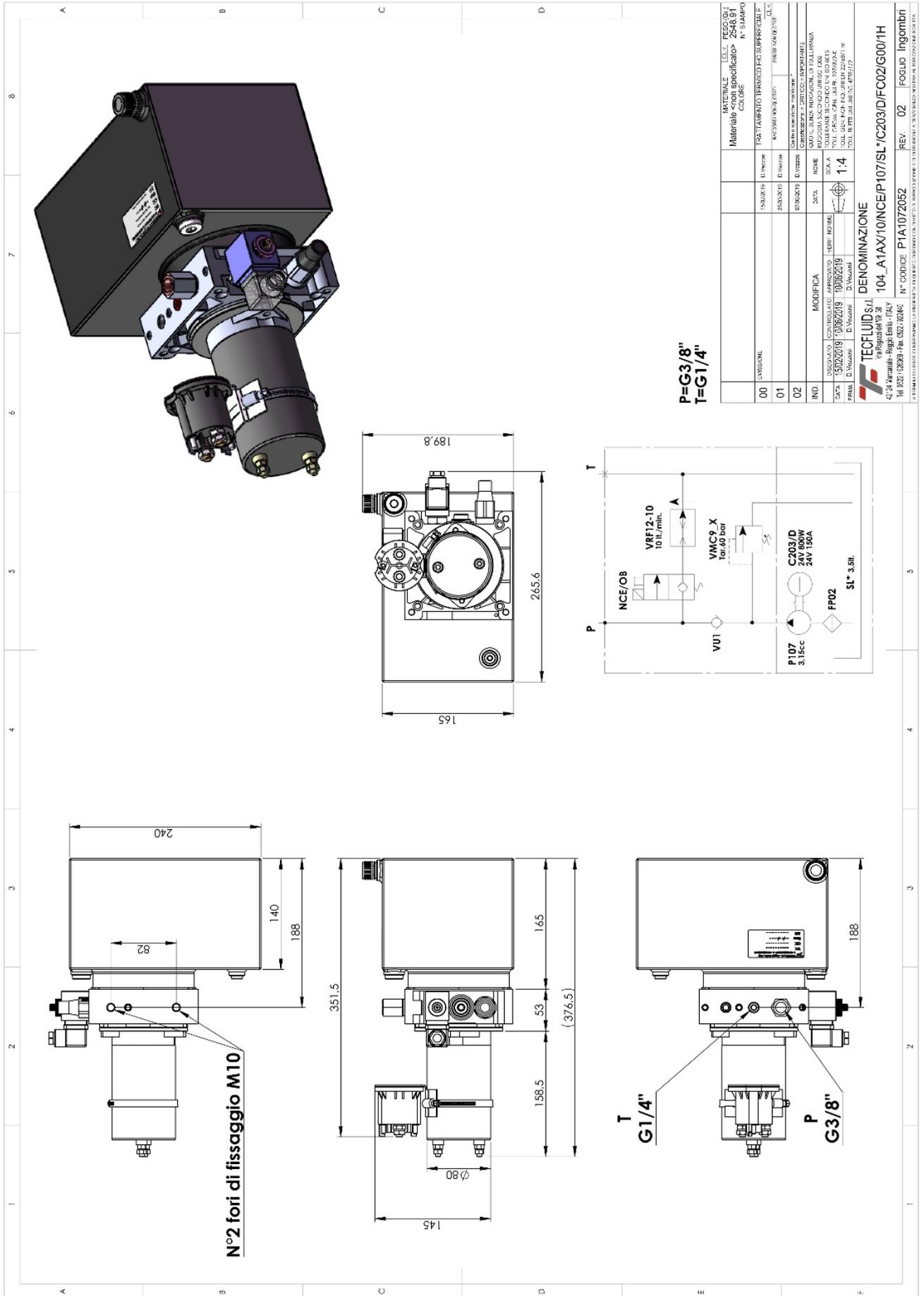
**ATTACHMENT 1 – Layout for decal application**

Pos.	SYMBOL	DESCRIPTION	Pos.	SYMBOL	DESCRIPTION
1		<b><u>DANGER SIGN</u></b> RISK OF FALLING OBJECTS FROM ABOVE	2		<b><u>DANGER SIGN</u></b> CRUSHING AND TRAPPING OF UPPER LIMBS
3		<b><u>PROHIBITION SIGN</u></b> UNAUTHORISED PERSONNEL MUST NOT USE THE MACHINERY	4		<b><u>PROHIBITION SIGN</u></b> DO NOT REMOVE THE SAFETY GUARDS AND DEVICES
5		<b><u>OBLIGATION SIGN</u></b> WEAR SAFETY SHOES	6		<b><u>OBLIGATION SIGN</u></b> REFER TO THE OPERATING MANUAL
7	<b><u>INDICATION</u></b>	“EMERGENCY DESCENT”	8	<b><u>INDICATION</u></b>	“EMERGENCY DESCENT PROCEDURE”
9	<b><u>INDICATION</u></b>	“RETAINING ONLY 1 PERSON”	10	<b><u>INDICATION</u></b>	“BATTERY CHARGING POSITION”
11	 <i>Max 200 kg</i>	<b><u>INDICATION</u></b> Maximum number of persons and load on the cage	12	<b><u>INDICATION</u></b>	CE PLATE
13	<b><u>INDICATION</u></b>	“MAX 100 KG”			



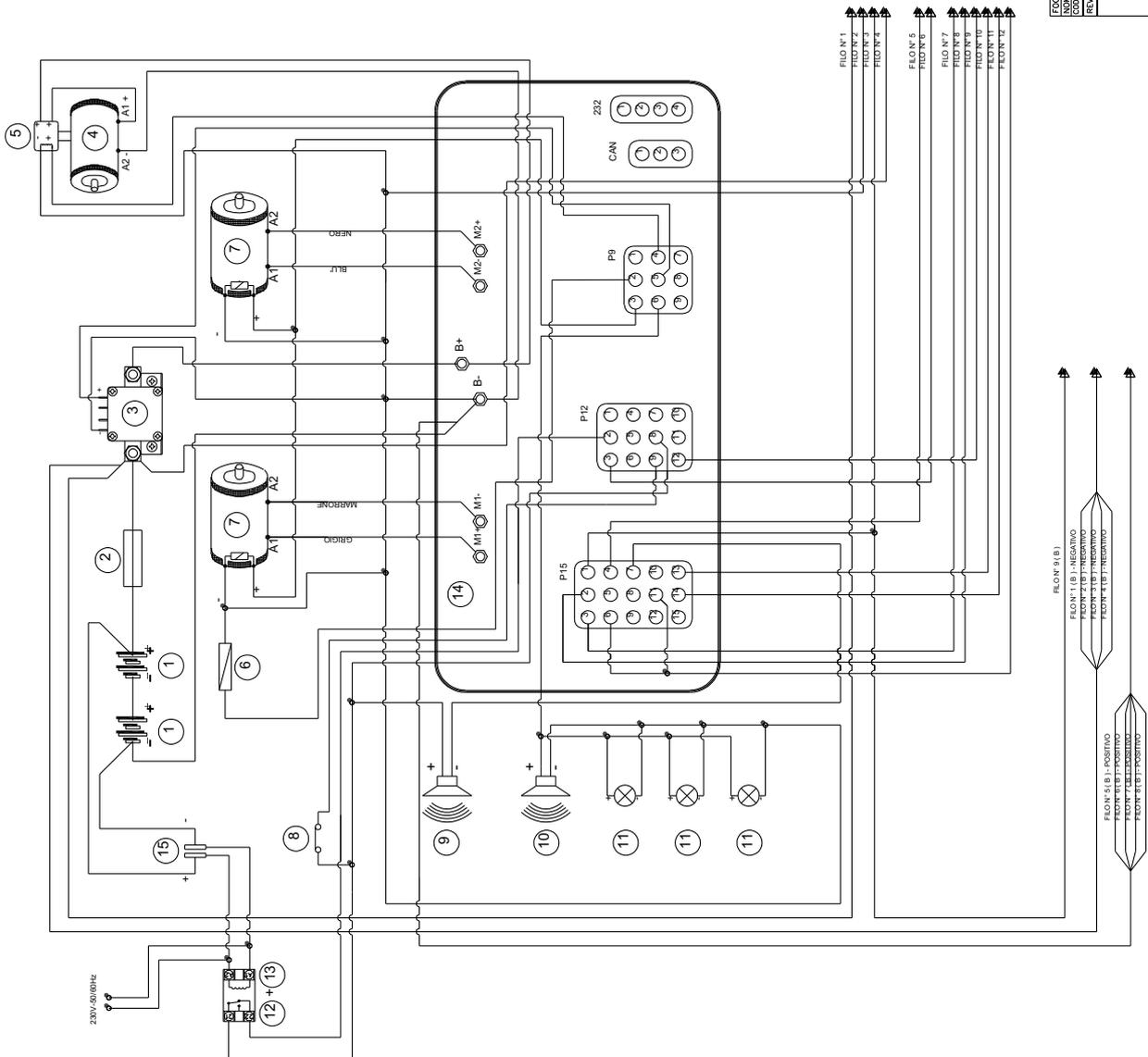






**ATTACHMENT 3 – Wiring diagram**

Art. N°	Descrizione:	Quantità
1	Batteria 12V -	2
2	Fusibile 80 Ah	1
3	Teleruttore di linea	2
4	Motore centralina oleodinamica 24V - 800W	1
5	Teleruttore centralina oleodinamica 24V - 80Ah	1
6	Elettrovalvola discesa 24V	1
7	Motoluota trazione 24V - 350W	2
8	Micro Lepre - Tartaruga Pizzato FM502	1
9	Buzzer di allarme Pizzato 21S6A1CV1B	1
10	Buzzer di movimento Pizzato 21S6A1CV1B	1
11	Lampagglatore 24V	2
12	Zoccolo Finder Tipe 95.05 SMA	1
13	Relè caricabatterie Finder Tipe 40.52.B.230	1
14	Modulo TS100	1
15	Carica batterie 24V-50/60 Hz. 15Ah	



FOGLIO 13 - SCALA 1:2  
 FILE: E\_13\_00-056  
 CODICE: \_\_\_\_\_

REV. 000

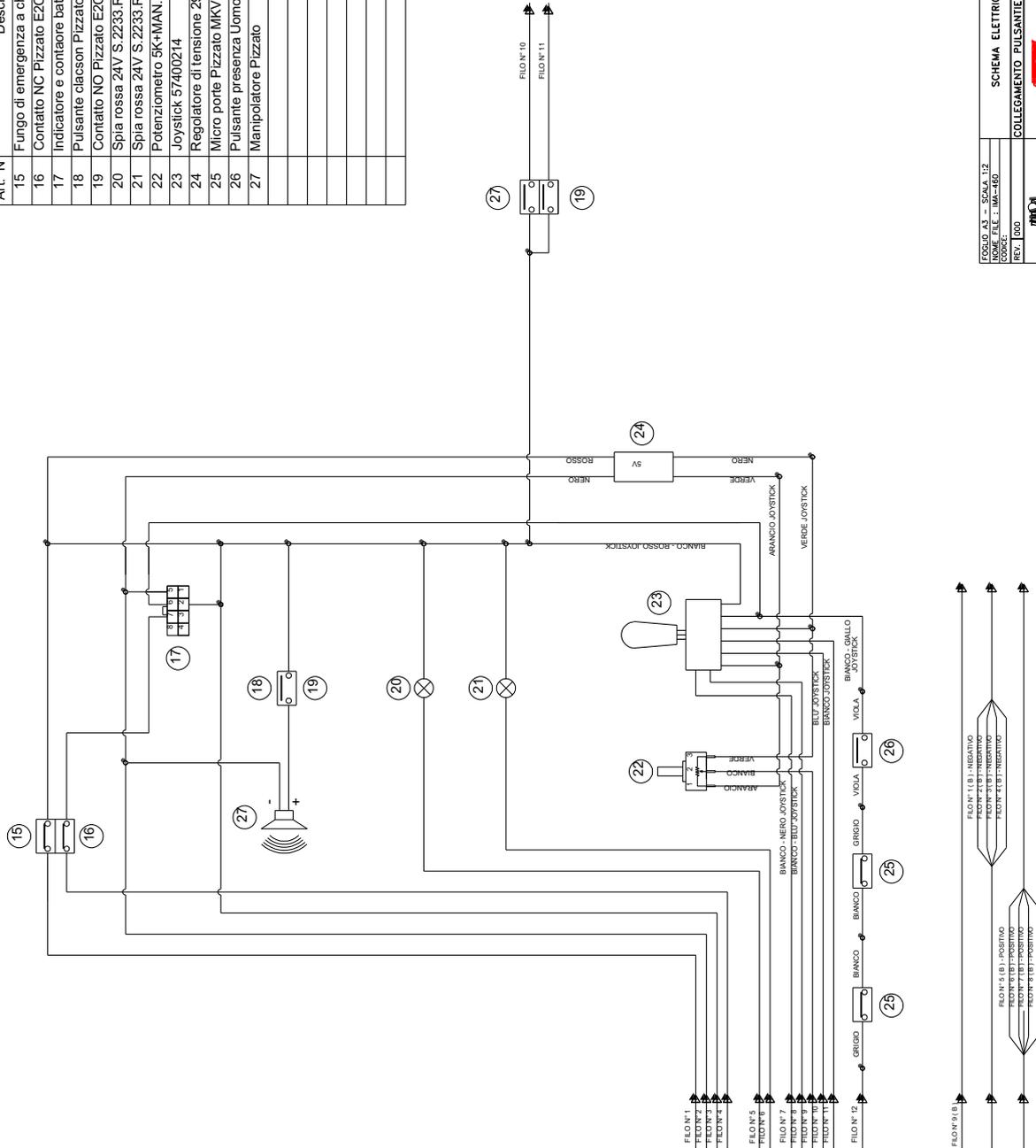
SCHEMA ELETTRICO ES TIRES  
 COLLEGAMENTO SCHEDA

IMA SPA  
 Via S. Felice 14  
 380617221  
 fax+3906177222  
 www.faraone.com

DATA: 10.03.2019  
 DIS: \_\_\_\_\_  
 IMA - 460.9

QUESTO DISEGNO È DI PROPRIETÀ IMA. È NECESSARIA RIPRODUZIONE E CONSENTITA SENZA LA NOSTRA AUTORIZZAZIONE

Art. N°	Descrizione:	Quantità:
15	Fungo di emergenza a chiave Pizzato 4PEBZ4531	1
16	Contatto NC Pizzato E2CPO1G2V1	2
17	Indicatore e contaore batterie UB	1
18	Pulsante clacson Pizzato 4PU2S5210	1
19	Contatto NO Pizzato E2CP10G2V1	3
20	Spia rossa 24V S.2233.R.24 Trazione	1
21	Spia rossa 24V S.2233.R.24 Salita/Discesa	1
22	Potenzionometro 5K+MAN.D21	1
23	Joystick 57400214	1
24	Regolatore di tensione 29.100.021	1
25	Micro porte Pizzato MKV11D17	1
26	Pulsante presenza Uomo	
27	Manipolatore Pizzato	



Foglio A3 - Scala 1:2  
 Nome File: IMA-460  
 Codice: IMA-460  
 Rev: 000

**SCHEMA ELETTRICO E5 TIRES**  
**COLLEGAMENTO PULSANTERIA**

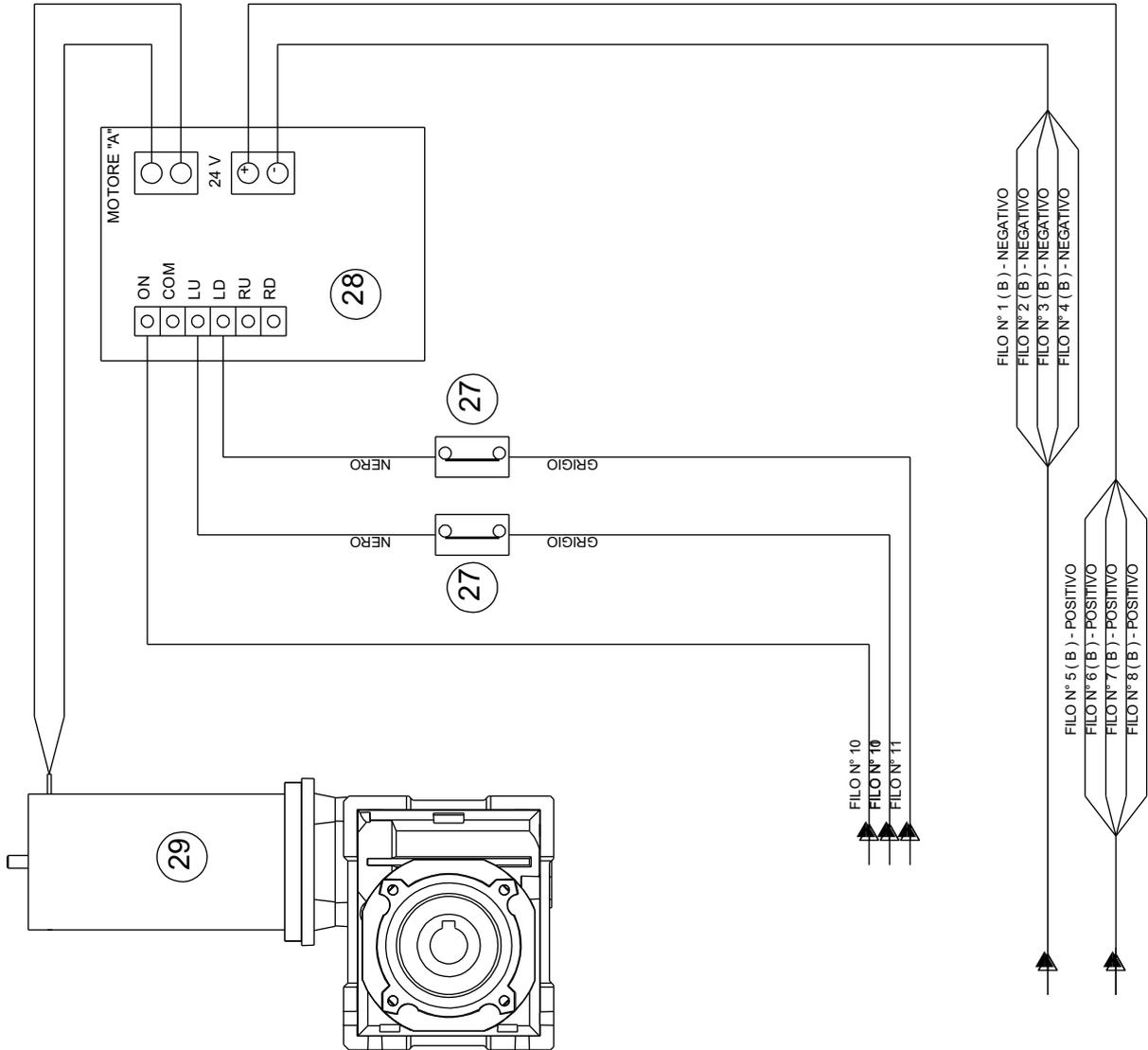
DATA: 10.03.2019  
 DIS:  
**IMA-460.10**

**faraone**  
 info@faraone.com

IMA SPA  
 Toroneio (TE) Italy  
 tel+39086177221  
 fax+39086177222  
 www.faraone.com

QUESTO DISEGNO È DI PROPRIETÀ IMA SPA. NESSUNA RIPRODUZIONE È CONSENTITA SENZA LA NOSTRA AUTORIZZAZIONE

Art. N°	Descrizione:	Quantità
27	Micro salita piano Pizzalo B11KA-DN2KPE1S11	2
28	Azionamento motore FF3101V01	2
29	Motoriduttore ECM1800400003 TTN	1



SCHEMA ELETTRICO ESTRES

COLLEGAMENTO PIANO PICKING ELETTRICO

DATA: 10.03.2019  
DUS

**Tarome**

IMA SPA  
Torreano (TE) Italy  
tel +39086177221  
fax +39086177222  
www.tarome.com  
info@tarome.com

IMA - 460.11

QUESTO DISEGNO È DI PROPRIETÀ IMA. NON È CONSENTITA LA RIPRODUZIONE E' CONSENTITA SENZA LA NOSTRA AUTORIZZAZIONE

**ATTACHMENT 4 – Inspection certificate****STOCK PICKER****E5 TIRES**

Serial number:

The machine, built in conformity with the type testing model, has undergone the following tests:

- Brake test
- Overload test
- Operating test

And has PASSED them successfully.

Tortoreto, (date)

**ATTACHMENT 5 – Declaration of conformity**



**FARAONE INDUSTRIE SPA**  
Via San Giovanni, 20 - C.da Salino  
64018 Tortoreto (TE) ITALY  
Tel. +39 0861.772221  
Fax +39 0861.772222

[www.faraone.com](http://www.faraone.com)  
[info@faraone.com](mailto:info@faraone.com)

REA 92848 CCIAA TE  
P.IVA e C.F. IT 00732060678  
C.S. euro 2.000.000 i.v.

**DICHIARAZIONE DI CONFORMITA'-DECLARATION OF CONFORMITY  
DECLARATION DE CONFORMITE' – EG KONFORMITÄT SERKLÄRUNG**



Macchina/Machine/Machine/Maschine	<b>Carrello Commissionatore/Stock Picker/Chariot commissionateur/Kommissioniergerät</b>
Modello/Model/Modèle/Modell	XXXXXXXXXX
Matricola/Serial No./Numéro sérial/Laufende Nr.	XXXX/XXXX
Anno/Year/Année/Jahr	XXXX
No. certificato/Technical Report of Compliance Nr. / Rapport technique de conformité No. /Zeugnis Nr.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX

Il sottoscritto Faraone Pier Giuseppe, in qualità di legale rappresentante della ditta FARAONE INDUSTRIE S.p.A. – C.da Salino, Tortoreto (Italia), Costruttore, nonché persona giuridica autorizzata a costituire il fascicolo tecnico per la macchina in oggetto DICHIARA CHE il carrello commissionatore summenzionato è stata fabbricata conformemente ai requisiti di sicurezza e salute previsti dalla Direttiva Macchine 2006/42/CE ed alla norma armonizzata UNI EN 3691-1:2015 ed al modello verificato da: TUV ITALIA S.r.l. – TUV SUD Group, n.0948 Via G. Carducci, 125 pal 23 – 20099 Sesto S. Giovanni (MI) Italy.

Il Fascicolo Tecnico di costruzione è conservato presso la FARAONE INDUSTRIE S.p.A.

Il Fascicolo Tecnico e la versione originale delle istruzioni di uso e manutenzione vengono redatti in lingua italiana.

The undersigned Faraone Pier Giuseppe, as legal representative of the company FARAONE INDUSTRIE S.p.A. – C.da Salino, Tortoreto (Italy), manufacturer, as well as a legal person authorized to compile the technical file for the machine in question, DECLARES THAT, the stock picker mentioned above has been manufactured in accordance with the requirements of safety and health of the Machine Directive 2006/42/CE and harmonized standard UNI EN 3691-1:2015 and model checked by TUV ITALIA S.r.l. – TUV SUD Group, n.0948 Via G. Carducci, 125 pal 23 – 20099 Sesto S. Giovanni (MI) Italy.

The technical reference of the platform are kept in the records of FARAONE INDUSTRIE S.p.A.

The technical file and the original version of the user's manual are written in Italian.

Le soussigné Faraone Pier Giuseppe, agissant en tant que représentant légal de la société FARAONE INDUSTRIE S.p.A. – C. da Salino, Tortoreto (Italie), fabricant, ainsi qu'une personne morale autorisée à constituer le dossier technique de la machine en question DECLARE QUE, le chariot commissionateur susmentionné a été fabriqué en conformité avec les critères de sécurité et de la santé de la Directive Machines 2006/42/CE et la norme harmonisée UNI EN 3691-1:2015 et le modèle certifié par TUV ITALIA S.r.l. – TUV SUD Group, n.0948 Via G. Carducci, 125 pal 23 – 20099 Sesto S. Giovanni (MI) Italy.

Le dossier technique de construction est entreposé chez FARAONE INDUSTRIE S.p.A.

Le dossier technique et la version originale des instructions de fonctionnement et d'entretien sont écrits en italien.

Der unterzeichnete Faraone Pier Giuseppe, als gesetzlicher Vertreter der Firma FARAONE INDUSTRIE S.p.A. – C.da Salino, Tortoreto (Italien), sowie Hersteller und Person die bevollmächtigt ist die technischen Unterlagen für die o.g. Maschine zusammenzustellen, ERKLÄRT dass das o.g. Kommissioniergerät nach den Sicherheits- und Gesundheitsanforderungen der Maschinenrichtlinie 2006/42/EG und der harmonisierten UNI EN 3691-1:2015 gefertigt wurde. Die Maschine ist mit dem Modell identisch welches von TUV ITALIA S.r.l. – TUV SUD Group, n.0948 Via G. Carducci, 125 pal 23 – 20099 Sesto S. Giovanni (MI) Italy, geprüft wurde.

Die technischen Bauunterlagen werden bei FARAONE INDUSTRIE S.p.A. aufbewahren.

Die technischen Unterlagen und die ursprüngliche Version der Bedienungs- und Wartungsanleitungen sind in Italienisch geschrieben.

Tortoreto, XX/XX/XXXX

**FARAONE**  
Industrie spa  
C.da Salino - Via San Giovanni, 20  
64018 TORTORETO (Te) - Tel. 0861.772221  
Fax 0861.772222 - P. IVA 00732060678

Il Legale Rappresentante  
(Faraone Pier Giuseppe)



**SECTION 10. MAINTENANCE LOGBOOK**

**MAINTENANCE**

OPERATOR: \_\_\_\_\_

DATE: \_\_\_\_\_

	DONE	
	✓	x
<b><u>Quarterly</u></b>		
Check there is no backlash, mechanical parts not correctly secured and/or bent and no damaged welds on parts/components		
Check the integrity of the structural profiles		
Check correct operation of the emergency descent valve		
Check the hydraulic oil level		
Check the hydraulic oil pipes and make sure there are no leaks		
Battery Inspection		
Check the cage and entrance doors		
Check the controls		
Check the wheels for wear		

**Every six months**

Perform "QUARTERLY MAINTENANCE"		
Transmission motor: Check the brushes for wear.		
Transmission motor: Check the manifold.		
Transmission motor: Check the bearings.		
Transmission motor: Check the electromagnet (brake).		
Check the column sliding pads		
Tyres tool lifting motor: Check the brushes and manifold for wear.		

**Every two years**

Perform "QUARTERLY AND SIX-MONTHLY MAINTENANCE"		
Hydraulic oil change		

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

NOTES

## MAINTENANCE

OPERATOR: \_\_\_\_\_

DATE: \_\_\_\_\_

	DONE	
	✓	x
<b><u>Quarterly</u></b>		
Check there is no backlash, mechanical parts not correctly secured and/or bent and no damaged welds on parts/components		
Check the integrity of the structural profiles		
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Check the wheels for wear		

### **Every six months**

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Transmission motor: Check the brushes for wear.		
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Transmission motor: Check the bearings.		
Transmission motor: Check the electromagnet (brake).		
Check the column sliding pads		
Tyres tool lifting motor: Check the brushes and manifold for wear.		

### **Every two years**

Perform "QUARTERLY AND SIX-MONTHLY MAINTENANCE"		
Hydraulic oil change		

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

NOTES
-------

## MAINTENANCE

OPERATOR: \_\_\_\_\_

DATE: \_\_\_\_\_

	DONE	
	✓	x
<b><u>Quarterly</u></b>		
Check there is no backlash, mechanical parts not correctly secured and/or bent and no damaged welds on parts/components		
Check the integrity of the structural profiles		
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### **Every two years**

Perform "QUARTERLY AND SIX-MONTHLY MAINTENANCE"		
Hydraulic oil change		

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

NOTES
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## MAINTENANCE

OPERATOR: \_\_\_\_\_

DATE: \_\_\_\_\_

### Quarterly

	DONE	
	✓	x
Check there is no backlash, mechanical parts not correctly secured and/or bent and no damaged welds on parts/components		
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### Every two years

Perform "QUARTERLY AND SIX-MONTHLY MAINTENANCE"		
Hydraulic oil change		

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

NOTES
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## MAINTENANCE

OPERATOR: \_\_\_\_\_

DATE: \_\_\_\_\_

### Quarterly

	DONE	
	✓	x
Check there is no backlash, mechanical parts not correctly secured and/or bent and no damaged welds on parts/components		
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Hydraulic oil change		

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

NOTES
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## MAINTENANCE

OPERATOR: \_\_\_\_\_

DATE: \_\_\_\_\_

	DONE	
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Date: \_\_\_\_\_

Signature: \_\_\_\_\_

NOTES
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## MAINTENANCE

OPERATOR: \_\_\_\_\_

DATE: \_\_\_\_\_

### Quarterly

	DONE	
	✓	x
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Date: \_\_\_\_\_

Signature: \_\_\_\_\_

NOTES
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OPERATOR: \_\_\_\_\_

DATE: \_\_\_\_\_

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	✓	x
<b>Quarterly</b>		
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Hydraulic oil change		

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

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OPERATOR: \_\_\_\_\_

DATE: \_\_\_\_\_

### Quarterly

	DONE	
	✓	x
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### Every two years

Perform "QUARTERLY AND SIX-MONTHLY MAINTENANCE"		
Hydraulic oil change		

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

NOTES
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Faraone Industrie Spa  
Contrada Salino – Via San Giovanni, 20  
64018, Tortoreto (TE) – ITALY  
Tel.: +39.0861.77.22.21 – fax: +39.0861.77.22.22  
[www.faraone.com](http://www.faraone.com)  
[info@faraone.com](mailto:info@faraone.com)