

FARAONE[®]
Industrie spa



CE

AERIAL PLATFORM

E5 ES

USE AND MAINTENANCE INSTRUCTIONS

Translation of the original instructions



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SECTION 0. INTRODUCTION

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ENGLISH

INTRODUCTION

This use and maintenance manual is aimed at providing 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 the products, IMA Faraone Spa reserves the right to change the technical data without any prior notice. For updated information, contact Faraone Industrie Spa.



CAUTION

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

SYMBOLS AND TERMS



CAUTION

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



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

- **AERIAL PLATFORM:** A machine intended to move people to their work positions, where they carry out their tasks from the cage.
- **CAGE:** A cage that is moved to the required work position, in loaded conditions, and from where the operator is able to carry out construction, repairs, inspections, load handling or other similar operations.
- **LOADING PLATFORM:** A platform in which it is possible to load tools and equipment.
- **EXTENSIBLE STRUCTURE:** A structure connected to the frame that supports the cage and allows it to move to the required position.
- **FRAME:** Machine Base.
- **TRANSPORT CONFIGURATION:** Machine configuration in which the cage is in a fully lowered position.
- **NOMINAL LOAD:** A load which the aerial work cage has been designed for to operate regularly and which consists of people, tools and material

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 manufactured to last over the years provided it is always used as intended, and the maintenance work and inspections 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

For machines sold in Italy:

According to art. 71, paragraph 11 of the (Italian) Legislative Decree 81/2008, the employer/owner of the machine is obliged to report commissioning of the same to the local department of INAIL (National Institute for the Prevention of Accidents at Work).

They must also arrange for the machine to undergo ANNUAL inspection of its effective condition and working order.

For machines sold in other countries:

The owner of the machine must ascertain whether installation of the machine needs to be reported and/or any need for periodic inspections by specific competent agencies.

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 should 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, shall not accept responsibility for its operation before having carefully read the manual and completed training and the operating procedures, guided by an experienced, skilled operator.

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

**CAUTION**

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, skilled personnel.
- Read carefully and comply with all the CAUTION statements and 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 become familiar 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 out-of-range temperatures.
- 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 the safety signs or stickers affixed to it 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 your shoes and the floor of the machine.



CAUTION

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

OPERATION

General information

- Only use the machine to lift personnel with their tools and equipment.
- Do not operate a faulty machine. Should any 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 persons in the cage, allow personnel to operate the machine from the ground only in the event of an emergency (section 5).
- Completely lower the extensible structure and disconnect the power supply before leaving the machine unattended.
- When welding is carried out from the machine, take precautions to protect all machine components from contact with sprays generated by welding or molten metal.
- Ensure the power tools are stored correctly, avoiding to let them hang by the cords in the machine's work area.
- It is recommended to charge the batteries in a well-ventilated area.

Fall hazard



- 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 extensible structure is lowered completely. When entering or leaving the cage, do so facing 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 based on the type of job, the equipment used and the materials handled, as well as the sideways 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 for electrical machines and systems".

Overtuning hazard



- Before driving the machine, the user must become familiar 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 any holes, unevenness, slopes, obstacles, debris, hidden holes and other potential hazards at ground level.
- Do not use 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.
- If the extensible structure or the cage gets stuck so that one or more wheels are lifted from the ground, the operator must leave 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 extensible structure raised. Before moving the machine, completely lower the extensible structure.

Crushing and impact hazard



- When using the machine or lifting or lowering the cage, check the distances above, on the sides and below the cage;
- Do not lean over the cage rails 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, gradient, 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 transporting

- Do not allow personnel to stand in the cage during towing, lifting and transporting.
- Only tow the machine in case of emergency, faults, power failures 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 locked or disabled machine.
- While lifting the machine with a forklift, only place the forks in the specific areas of the machine. Lift with lifting equipment of adequate capacity.

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

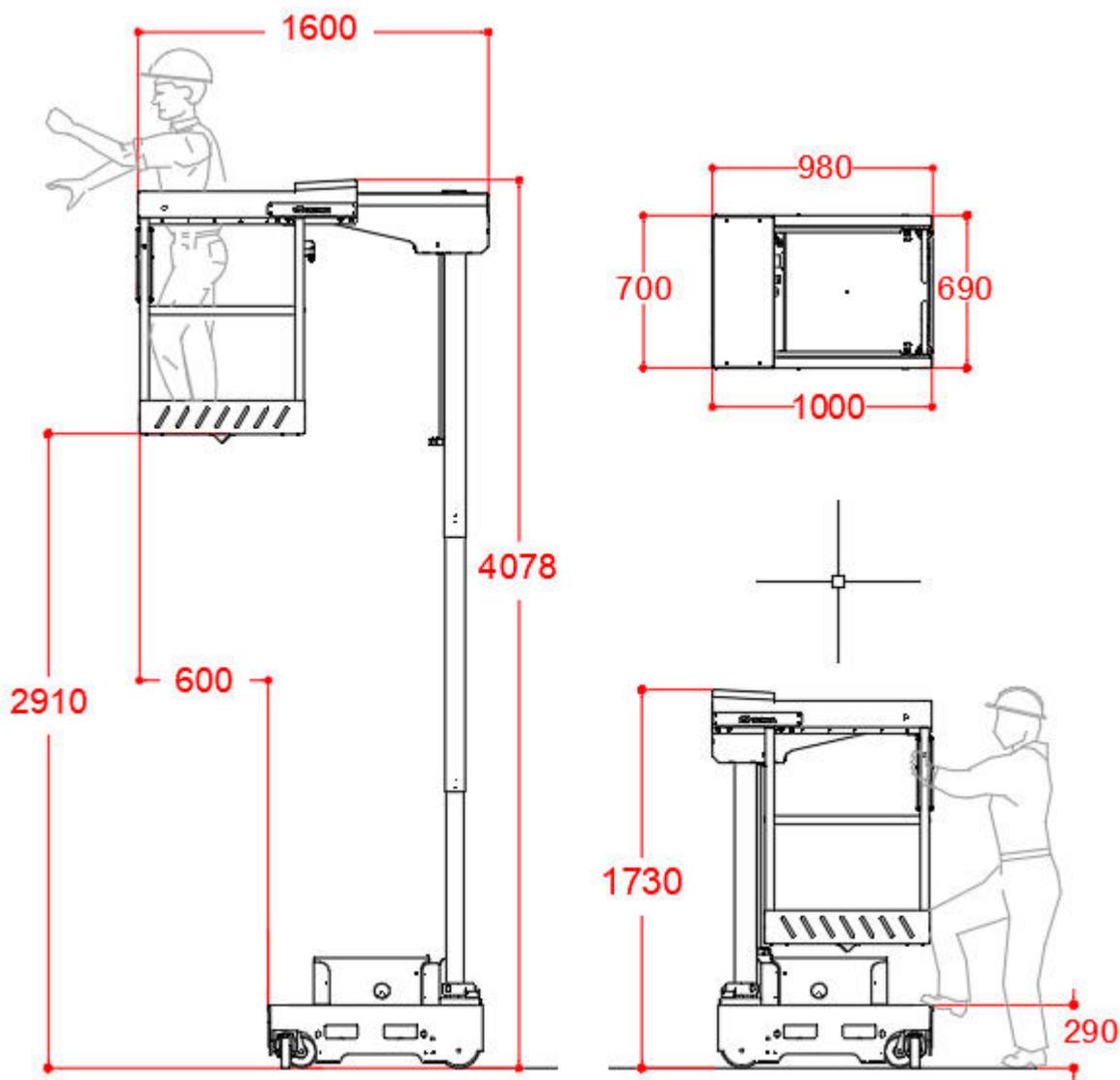
SECTION 2. GENERAL TECHNICAL DATA**CAUTION**

THE E5 ES IS A LIFTING MACHINE INTENDED TO MOVE PEOPLE TO THEIR WORK POSITIONS FROM WHERE THEY CAN CARRY OUT THEIR TASKS FROM THE CAGE. THE E5 ES AERIAL PLATFORM IS DESIGNED TO CIRCULATE IN CLOSED ENVIRONMENTS ON PREPARED SMOOTH HORIZONTAL SURFACES. THE E5 ES AERIAL PLATFORM MUST BE USED ONLY FOR ITS INTENDED PURPOSES. ANY OTHER USE IS CONSIDERED MISUSE.

**CAUTION**

THE USER MUST OBTAIN APPROVAL AND GUIDELINES FROM THE MANUFACTURER ON SPECIAL OPERATING METHODS OR CONDITIONS NOT COVERED IN THOSE SPECIFIED BY THE MANUFACTURER.

OVERALL DIMENSIONS AND CLEARANCES



Measurements expressed in mm

E5 ES TECHNICAL DATA	Value
Weight of the machine: (Total)	708 kg
Machine height: (in transport position)	173 cm
Maximum resting pressure on the ground: per wheel/outrigger (*)	300 daN
Maximum climbing ability: (in transport position)	15%
Maximum longitudinal work slope:	1.5° - 2.5%
Maximum transversal work slope:	1.5° - 2.5%
Maximum transmission speeds: (with cage lifted - in transport position)	0.25 m/s – 0.7 m/s
Machine base: (length x width)	110 cm x 78 cm
Permitted use:	INTERNAL USE
Power supply:	2 Batteries 12V - 105 Ah
Operators in the cage:	1
Maximum capacity in the cage + objects holder tray:	150 Kg
Dimensions of the objects holder platform:	30 cm x 70 cm
Maximum cage height: (between ground and cage floor)	2.91 m
Internal dimensions of the cage:	62 cm x 55 cm
Maximum cage rising speed:	0.2 m/s
Maximum cage descending speed:	0.2 m/s
Maximum hydraulic system pressure:	~ 60 bar
Required amount of oil for the hydraulic system:	~ 5 Litres

Table NOTE:

* : Maximum pressure per outrigger considering that the weight of the picker 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.

EXTENSIBLE STRUCTURE: The extensible structure (column) consists of extruded galvanised iron profiles (called extensions) that slide on each other by means of nylon pads. An oil hydraulic cylinder is installed inside the column, synchronised on three rods, powered by the hydraulic unit, to lift the structure.

CAGE, OBJECTS HOLDER TRAY AND OBJECTS HOLDER PLATFORM (optional): The cage, the objects holder tray and the objects holder platform are entirely made of galvanised iron profiles. The base platforms are built with 3 mm thick, non-slip, aluminium chequer plate.

EXPOSURE TO VIBRATION: The machine does not produce such vibrations that endanger the health of the operators. The weighted acceleration that the whole body is exposed to is less than 0.5 m/s^2

SOUND EMISSIONS: The A-weighted emission sound pressure level is below 70dB

**CAUTION**

THE E5 ES AERIAL PLATFORM SAMPLE HAS BEEN TESTED BY THE MANUFACTURER BY MEANS OF:

- **STATIC STABILITY TESTS;**
- **DYNAMIC STABILITY TESTS;**
- **OVERLOAD TEST;**
- **OPERATION TESTS.**

SECTION 3. PREPARATION AND INSPECTION

PERSONNEL TRAINING

The machine is a personnel transportation device; therefore, it must be used and undergo maintenance exclusively by trained personnel.

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/stickers for controls, instructions and warnings on the machine;
3. Regulations defined by the employer and government regulations;
4. Use of the approved fall arrest device (if required);
5. Sufficient knowledge of the mechanical operation of the machine to be able to recognise a fault;
6. Safe methods for using the machine in the presence of overhead obstacles, other moving equipment and obstacles, hollows, holes and slopes;
7. Methods to prevent dangers due to unprotected electric conductors;
8. Requirements of a particular job or particular application of the machine.

Training supervision

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

Operator responsibility

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

NOTE: *the owner shall provide skilled personnel for training upon delivery of the first units and even 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.

**CAUTION**

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

Carry out a functional test as detailed below.

1. **Check the manual descent valve for proper operation (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 regularly;
 - 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 gradient greater than the maximum 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 is reduced compared to the speed with lowered cage.

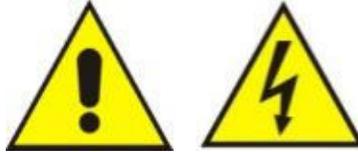
SAFETY WARNINGS FOR OPERATORS

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



OUTDOORS AND IF WINDY UNLESS THE MACHINE HAS BEEN DESIGNED FOR OUTDOOR USE

(DANGER OF LOSS OF STABILITY AND OVERTURNING)



CLOSE TO OVERHEAD OBSTACLES (power lines, overhangs, 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)



CAUTION

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 CARRY PEOPLE 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.

**CAUTION**

THE ELEVATING PLATFORM 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 THE 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 lifting equipment (forklift truck)
-  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 protective 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

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



Protection of lower limbs

NON-SLIP SHOES



CAUTION

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



CAUTION

ANY FENCING ENCLOSING THE MACHINE'S WORK AREA AND ANY ADDITIONAL SAFETY SIGNS TO BE USED FOR THAT AREA MUST BE VERIFIED BASED ON THE SPECIFIC RISK ASSESSMENT CARRIED OUT BY THE EMPLOYER



CAUTION
FOR MACHINES SOLD IN ITALY

REGARDING ITALIAN LEGISLATION, ITALIAN LEGISLATIVE DECREE 81/2008 REQUIRES THE USE OF SUITABLE SAFETY BELTS FOR ALL EXTENDING DECKS AND SIMILAR EQUIPMENT.

THIS MEASURE ALSO APPLIES TO VERTICALLY EXTENDING AERIAL PLATFORMS. A SPECIFIC RISK ASSESSMENT MUST THEREFORE BE CARRIED OUT BEFOREHAND TO ESTABLISH THE NEED FOR A FALL ARREST SYSTEM.



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

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 E5 ES model aerial platform is an electric machine fitted with a cage mounted on a lifting mechanism.

The lifting device is **INTENDED TO MOVE PEOPLE TO THEIR WORK POSITIONS WHERE THEY CAN CARRY OUT THEIR TASKS FROM THE CAGE.**

The main control station is located in the cage. The operator can drive the machine and lift and lower the cage 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 continuous sound pressure level (A-weighted) 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.

**CAUTION**

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*).

Perform 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;



CAUTION

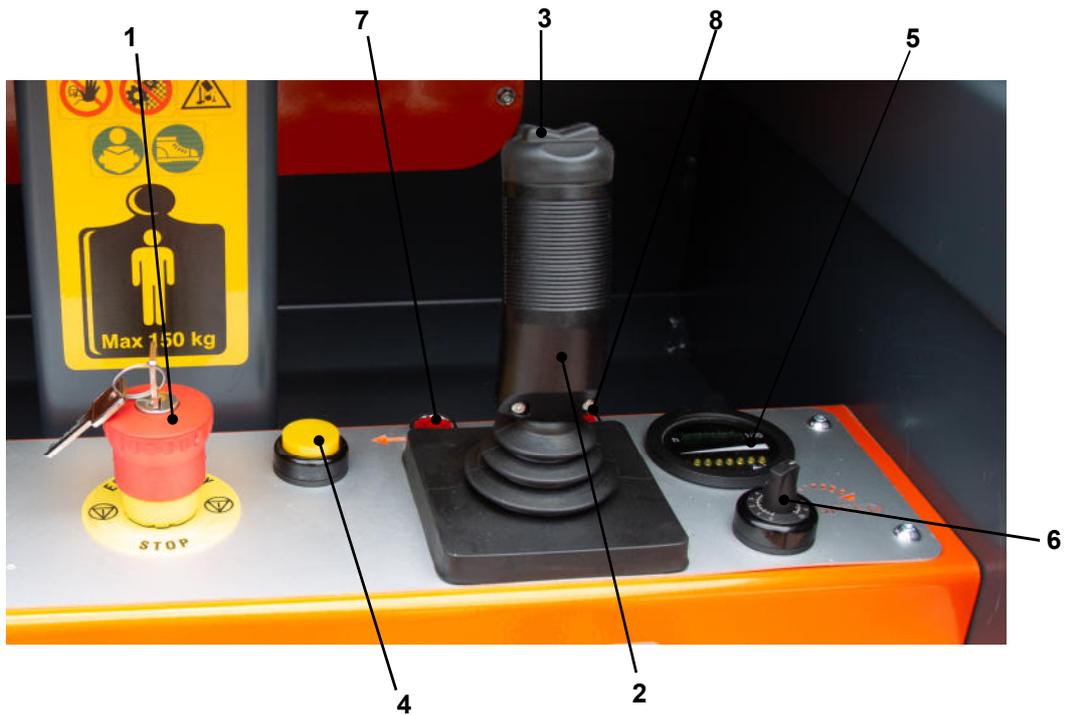
IT IS RECOMMENDED TO NEVER LET THE BATTERIES GO COMPLETELY FLAT.



CAUTION

WHEN THE MACHINE IS PUT OUT OF SERVICE FOR A LONG TIME, THE BATTERIES MUST BE FULLY AND EVENLY CHARGED AT LEAST ONCE A WEEK AND STORED UNPLUGGED TO PREVENT 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 movement/lifting 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.

General information

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

- 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.

Indicator LED

The signalling LEDs light up after a function is activated from the “cage start/lift” selector.

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 reset the emergency stop.

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



CAUTION

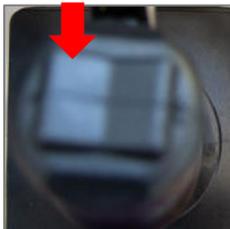
PREVENT UNAUTHORISED USE BY SWITCHING OFF THE MACHINE AND REMOVING THE KEY WHEN THE AERIAL PLATFORM IS NOT IN USE.

Multi-purpose joystick control

The joystick is used to control the following machine functions:

- Transmission/steering
- Cage lifting and lowering

Cage run/lifting selector



RUN mode

PRESS the selector to the LEFT to enable the machine RUN mode. When the function is activated, the corresponding LED will light up.



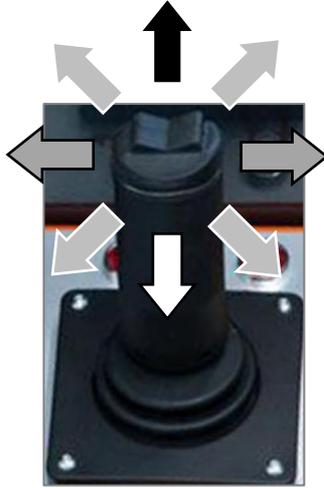
Cage LIFTING mode

PRESS the selector to the RIGHT to enable the cage LIFTING mode (up/down). When the function is activated, the corresponding LED will light up.

Run mode

After having selected the machine run mode, move the joystick to move the machine.

NOTE: *The joystick acts proportionally on machine advancement speed. The transmission power is applied proportionally to the shift of the joystick from the centre.*



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

Lifting mode

After having selected the lifting mode of the cage, move the joystick forward/backward to lift/lower the cage.

NOTE: *The joystick acts proportionally on the cage movement speed. The movement power is applied in proportion to the movement of the joystick from the centre.*



PRESS THE JOYSTICK DEAD MAN PRESENCE ENABLING CONTROL, then move the joystick forward/backward to lift/lower the cage



CAUTION

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 ARE NO PERSONNEL IN THE AREA BELOW.

Machine operation/battery charge hours 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).

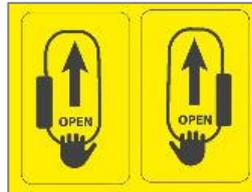
Transport position speed regulator



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 anti-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.

ACCESS TO CAGE

The gate is unlocked/locked by means of a specific closing mechanism inside the gate. The machine does not start if the gate is not closed properly.



Access the cage by lifting the mobile doors slightly by pushing and rotating them inwards. Once the operator enters, he/she must close the gate, checking that the gate itself is locked properly, otherwise the machine will not enable any command.

**CAUTION**

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

**CAUTION**

DO NOT UNLOCK THE GATE OF THE CAGE WHEN IT IS SUSPENDED SO AS TO AVOID THE GATE FROM OPENING ACCIDENTALLY WITH A CONSEQUENT RISK OF FALLING FROM ABOVE AND THE MACHINE FUNCTIONS BLOCKING

**CAUTION**

MAKE SURE YOUR HANDS DO NOT GET TRAPPED WHEN CLOSING THE GATE.

**CAUTION**

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

**WARNING**

THE TOTAL NOMINAL LOAD IS OBTAINED BY ADDING THE LOAD IN THE CAGE + THE LOAD ON THE OBJECTS HOLDER TRAY + THE LOAD IN THE OBJECTS HOLDER PLATFORM (OPTIONAL).
THIS VALUE CANNOT EXCEED 200 KG IN ANY CASE

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 workday.



CAUTION

PREVENT UNAUTHORISED USE BY SWITCHING OFF THE MACHINE AND REMOVING THE KEY WHEN THE AERIAL PLATFORM IS NOT IN USE.

TRANSPORT AND LIFTING PROCEDURES

General information

It is possible to transport the machine to the work premises 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).



CAUTION

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)



CAUTION

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 part of the machine in order to position it in a stable way onto the forks (see following figure).



CAUTION

LIFT THE MACHINE ONLY WITH WORK PLATFORM FULLY LOWERED.

EXTENSION OF THE WORKING PLATFORM POSITION

The extended platform is an additional option to facilitate working at a height at a certain distance from the base position.

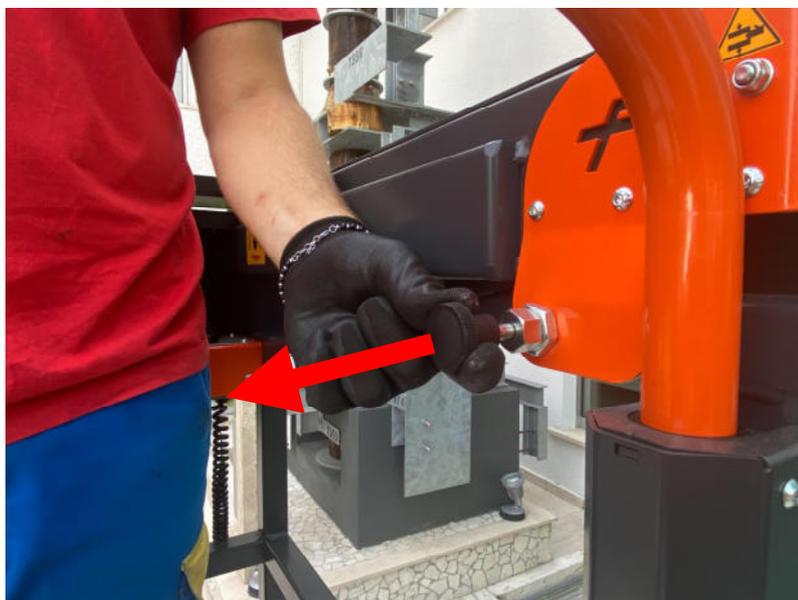
It can be manually extended in two positions as required.

Extensible platform positioning

Pull the knob, slide the platform along the guides, intercept the holes in one of the possible positions and close the knob until it fits into the dedicated hole.



To return to the retracted platform position, proceed in the reverse order.



CAUTION

USE THE OBJECTS HOLDER PLATFORM ONLY AFTER VERIFYING THAT IT IS BLOCKED CORRECTLY

SECTION 5. EMERGENCY PROCEDURES

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

EMERGENCY OPERATION

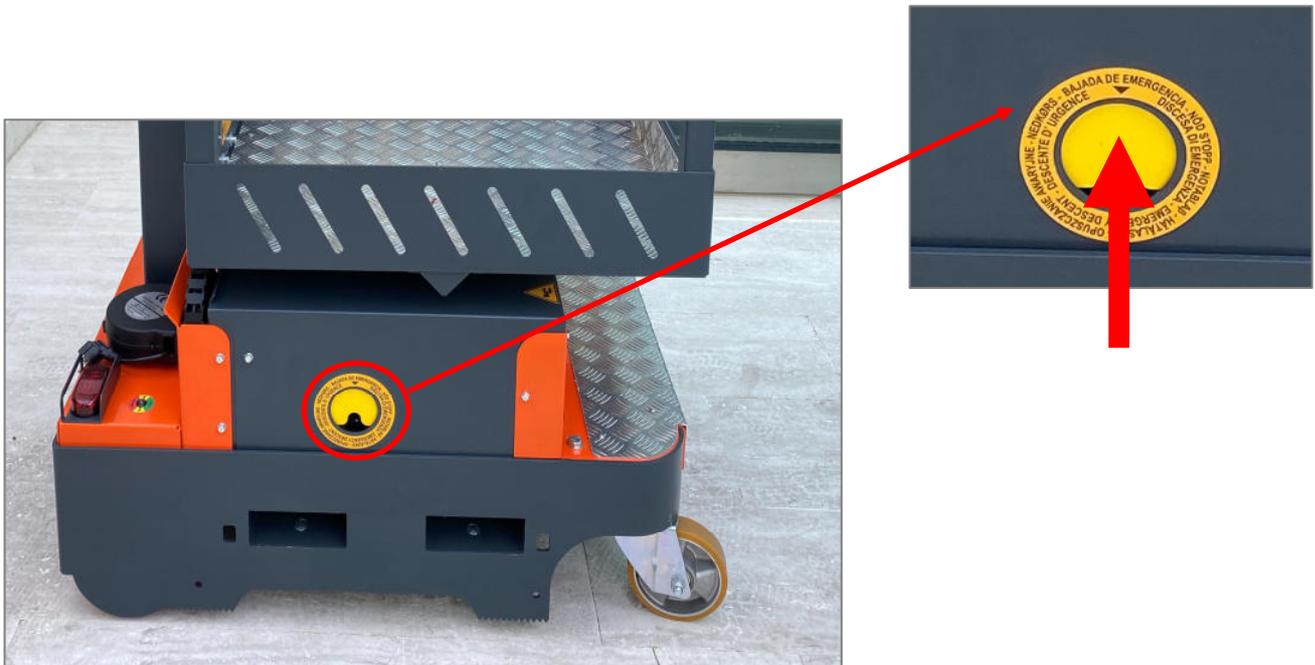
Operator unable to control the machine

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 is no one 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 operator platform;



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



CAUTION

THE OPERATIONAL STAGES OF THE EMERGENCY DESCENT PROCEDURE ARE SET OUT ON AN APPROPRIATE DECAL IMMEDIATELY NEAR THE EMERGENCY DESCENT CONTROL.

Cage blocked in overhead position

If the cage gets blocked or 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 INCIDENT

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.



CAUTION

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.

**CAUTION**

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 in place, securely fixed and not loose, and that there is no visible damage, leaks or signs of excessive wear.*

a) Drive wheels/idler wheels and swivel wheels

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) Cage control console

Controls secured, legible signs, emergency stop switch in the reset position for operation and legible control signs;

h) Extensible structure unit

Structure profiles, sliding inserts that can slide freely.

**CAUTION**

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

SECTION 7. ROUTINE MAINTENANCE



CAUTION

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



CAUTION

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



CAUTION

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.



CAUTION

TO CARRY OUT MAINTENANCE AND/OR CLEANING OPERATIONS ON THE MACHINE THAT REQUIRE THE EXTENSIBLE 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.



CAUTION

THE RECOMMENDED FREQUENCY OF LUBRICATION AND 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 extensible 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 extensible 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.

MAINTENANCE EVERY TWO YEARS

- **Hydraulic Oil**

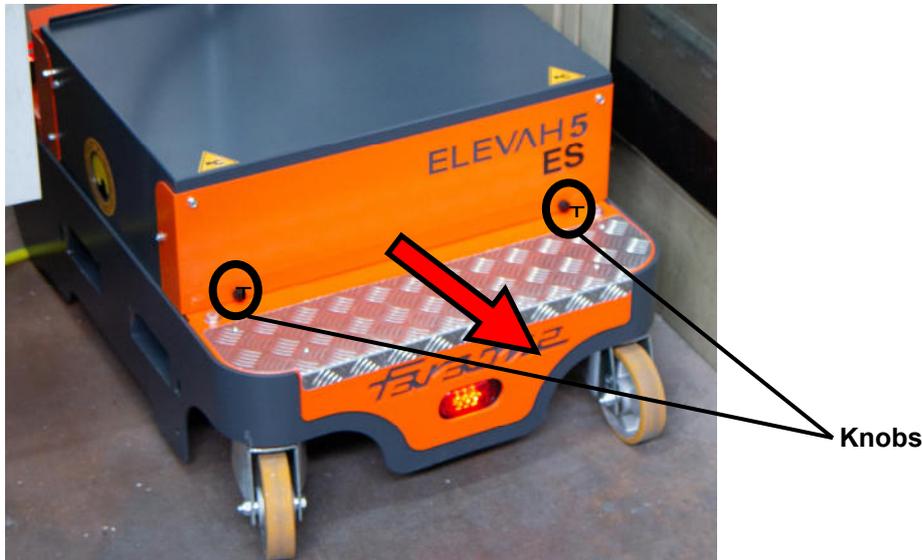
Replace the hydraulic oil in the tank.

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 the terminals for any corrosion as well as for proper tightening. 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 wire for the positive pole, black wire 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.



CAUTION

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 THE SAME TYPE AS 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.



CAUTION

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.



CAUTION

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

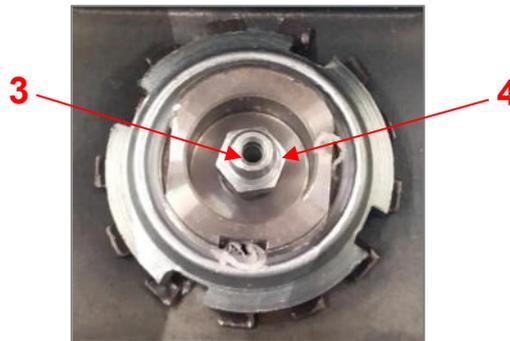
BLEEDING THE HYDRAULIC SYSTEM

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

1. Remove the protective casing (1) by loosening the four 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 ; Put 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. Assemble 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 crown gear;
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.

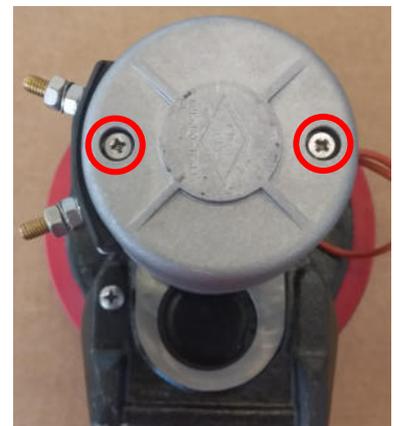
If the thickness is less than 5 mm, it is advisable to replace the complete lining of the splined hub after having removed the Seeger ring or self-locking nut.

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, reduced 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 then removing the armature itself, while being careful of any 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.



CAUTION

FOLLOWING A STRONG COLLISION, WE RECOMMEND THOROUGHLY CHECKING THE FUSION OF THE 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.

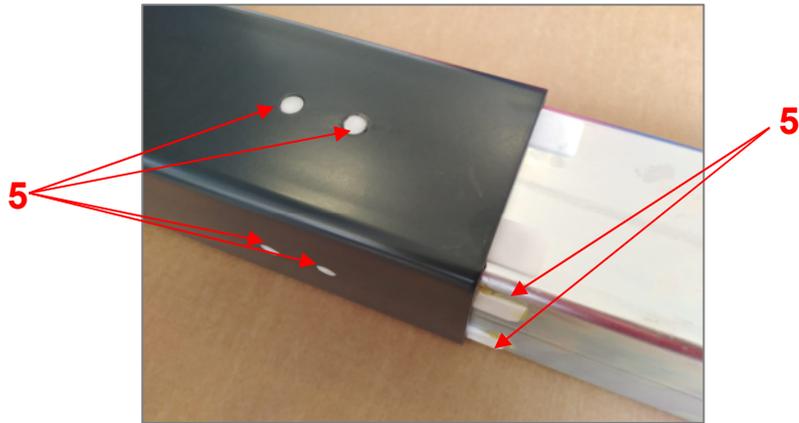
The following procedure must be strictly complied with to replace the pads.

Removing worn pads

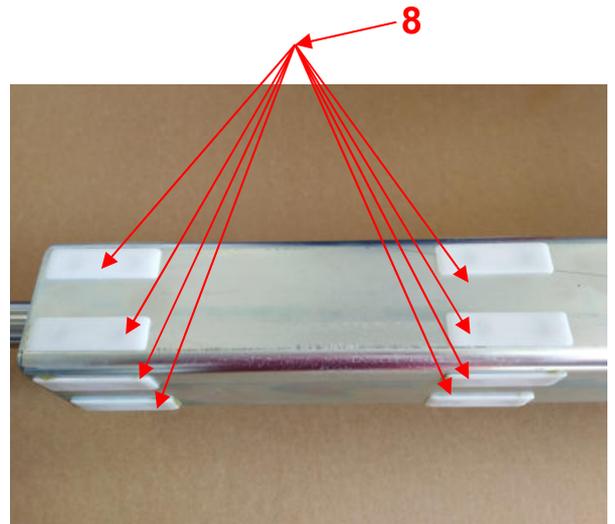
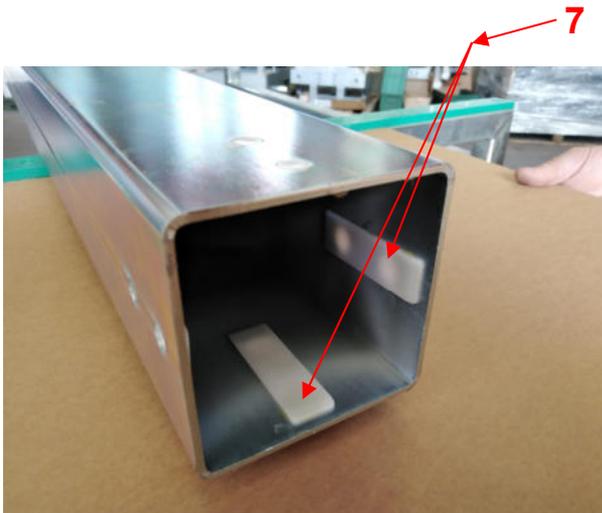
1. Remove the protective casing (1) by unscrewing the two screws (2) above and unscrew the outer ring nut (3) that connects the cage assembly to the hydraulic cylinder;



- Lift the cage unit using a winch or other lifting equipment until the second extension can be extracted, then remove the four pads (4) on all sides of the lower part of the third extension, and the sixteen pads (6) on all sides at the end of the second extension;



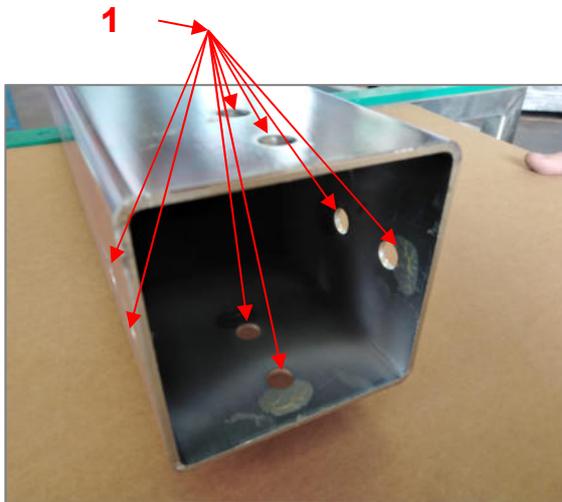
- Lift the second extension until the first extension can be extracted, then remove the four pads (7) on all sides of the lower part of the second extension, and the sixteen pads (8) on all sides at the end of the first extension;



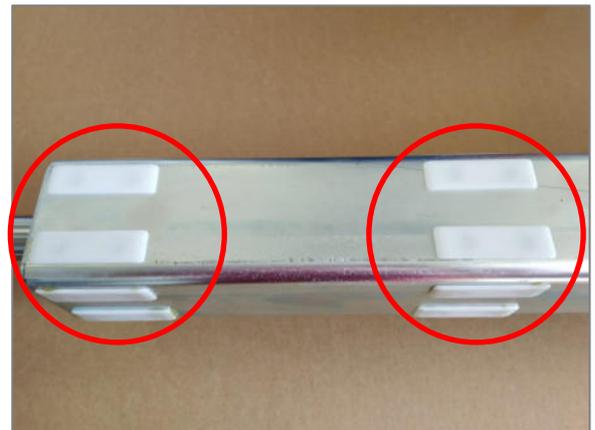
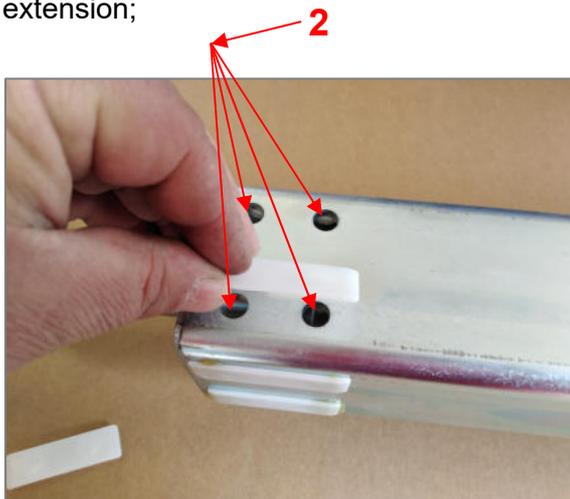
- Remove the old layer of grease and clean the surfaces.

Installing new pads

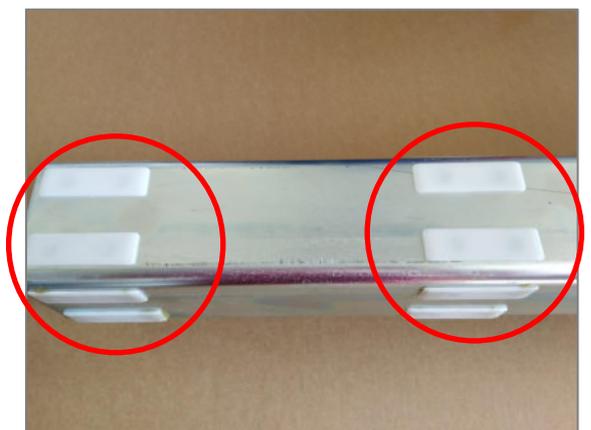
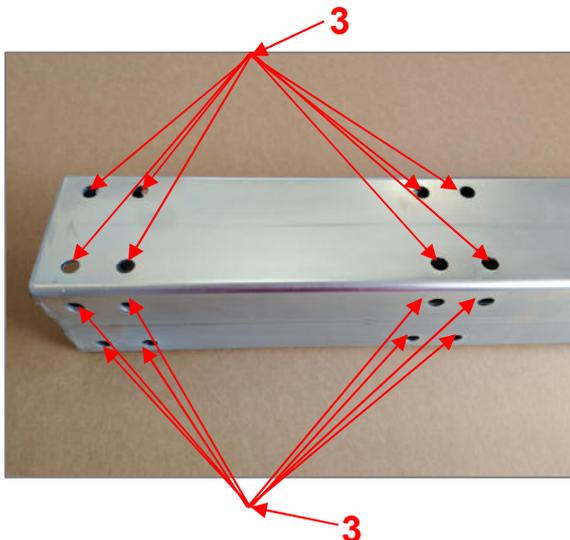
1. Grease the seats of the pads on the extensions;
2. Insert the four new pads into the holes (1) made internally, on each side, at the base of the second extension;



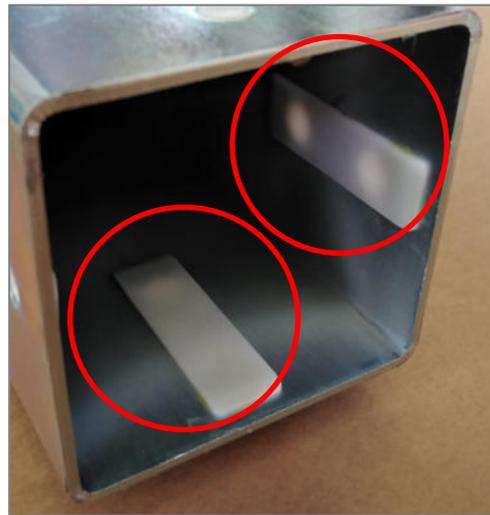
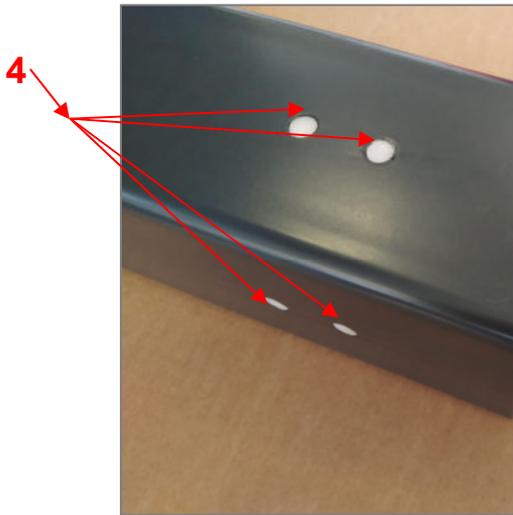
3. Insert eight new pads into the holes (2) made externally, on each side, at the end of the first extension;



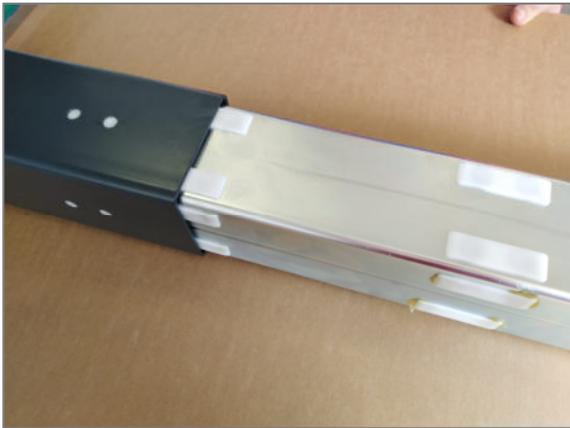
4. Insert the second extension into the first one;
5. Insert sixteen new pads into the holes (3) made externally, on each side, at the end of the second extension;



6. 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);



7. Insert the third extension into the second one;



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



CAUTION

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 decal application;
- ✓ ATTACHMENT 2 - Hydraulic diagram;
- ✓ ATTACHMENT 3 – Wiring diagram;
- ✓ ATTACHMENT 4 - Successful acceptance test certificate.

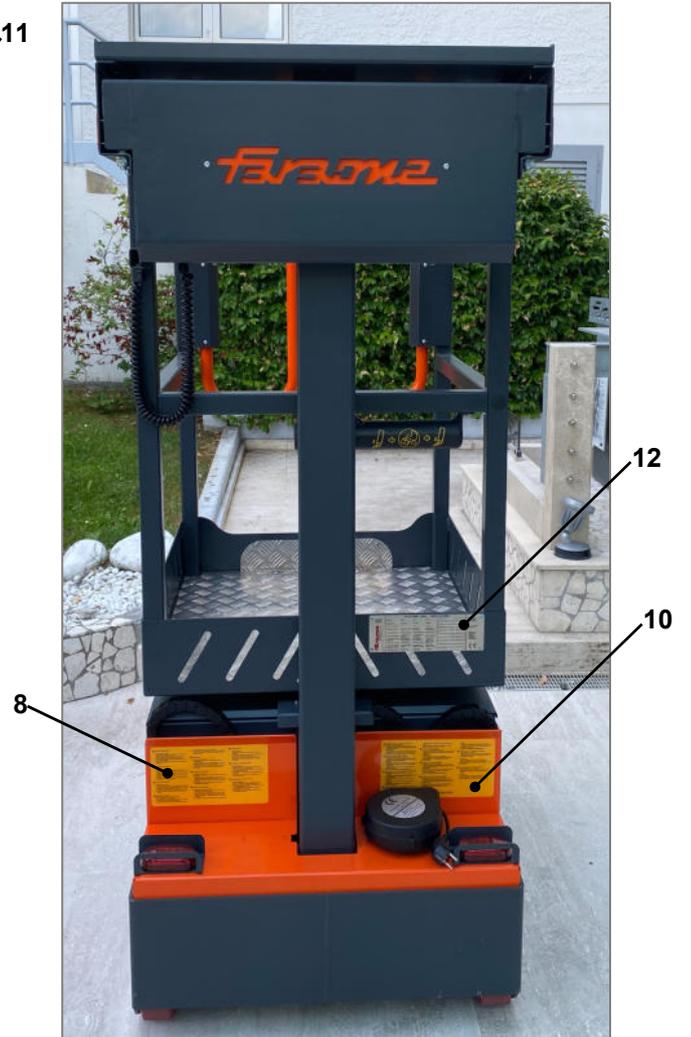
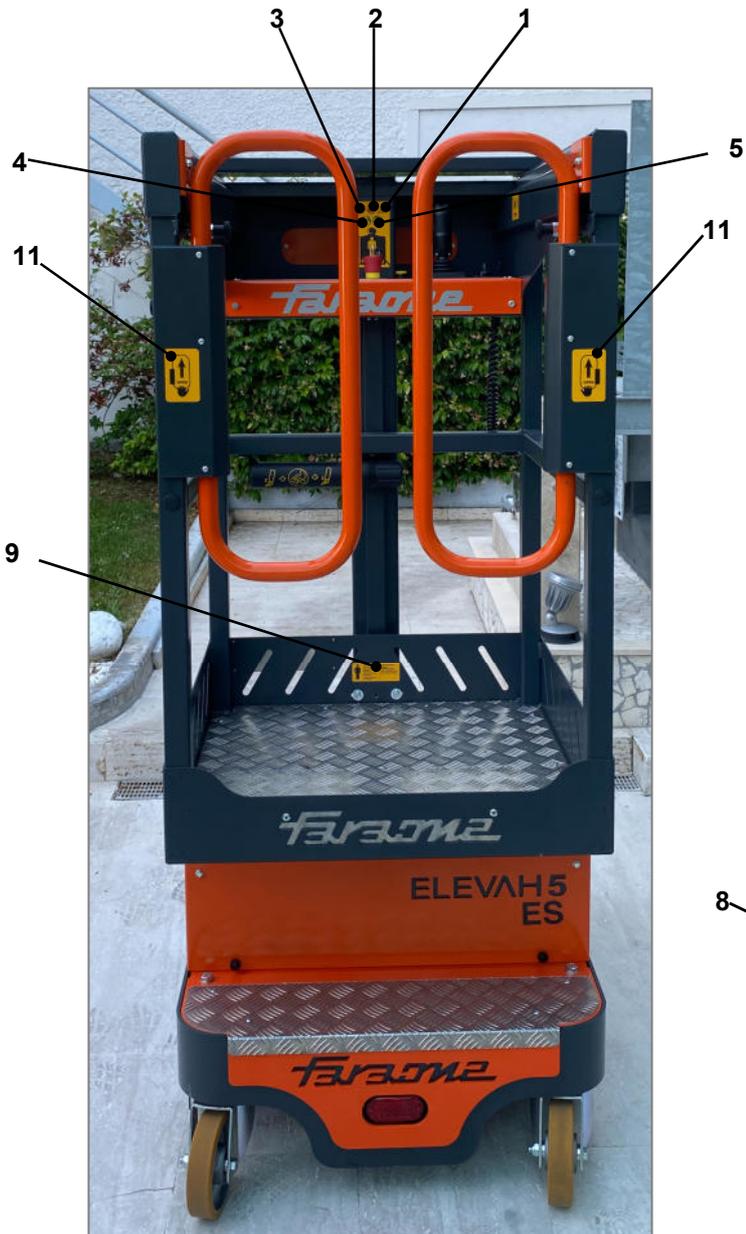


CAUTION

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





ATTACHMENT 2 – Hydraulic diagram

A	B	C	D	E	F	7	8
Tabella Distinta materiali							
Num. articolo	Num. parte	DENOMINAZIONE		Quantità			
1	S51565KEL07	Collettore lav. KEL7 - 12,7. A1A		1			
2	EC035M08	Tappo expander Ø8		1			
3	EC114E68	Anello O-Ring NBR 70Sh. 110,7x3,53 - 4437		1			
4	F732005	Valvola di ritrigno VUI		1			
5	F73022150P	Valvola max VMC9 X (30-150 bar), piomb. piomb.		1			
6	F737102	VRF12-10 - Strozzat comp. Fisso 10lt.		1			
7	F7200820C0B01	Valvola el. EC-08-2C-01-C Ø12,7 DC EM 9A		1			
8	G1500010B	Bobina 24Vdc-18W N-H13		1			
9	EC167003	Con. DINM3650,2P+T trasp LED 24V rosso		1			
10	EC1091315045	Pompa gr1 - 3,15cc - S - A.302S		1			
11	ES2435303	BC58-Tubo aspir. pl 90° 3/8" Y=58		1			
12	ES5063500001	Filtro aspirazione polipropilene G/3/8" 90µm		1			
13	ES230105	SD150-Tubo di scarico Fe. M12x1 L150		1			
14	ES2301001	Tubo di scarico Fe. M12x1 L128 H84		1			
15	ES51076	Serbatoio lomero 3,5 litri per clienti 65,104		1			
16	EC1270338	Tappo sf + Filtr TC2ZF-3/8"		1			
17	EC031002	Tappo TCEI con DR. 3/8"		1			
18	EC031000	Tappo TCEI con DR. 1/8"		1			
19	ES507014	Flangia per FC01015-050-080		1			
20	ES508023	Giunto per FC01015-050-080		1			
21	EC106203	Motore CC 24V-800W AME1705		1			
22	EC108012	Telerruptore 24V-150A TR		1			
23	K180A02F	Kit elettrico motore 080		1			
24	EC014002	Rombella bonada da 1/4"		1			
25	ES-2014K08F025A	Colonnina 1/4M-3/8F-H25		1			
26	EC1260115,5	Tappo proteggi filetti. 3/8"		1			
27	EC008L014	Grano DIN-906 conico G1/4"		1			

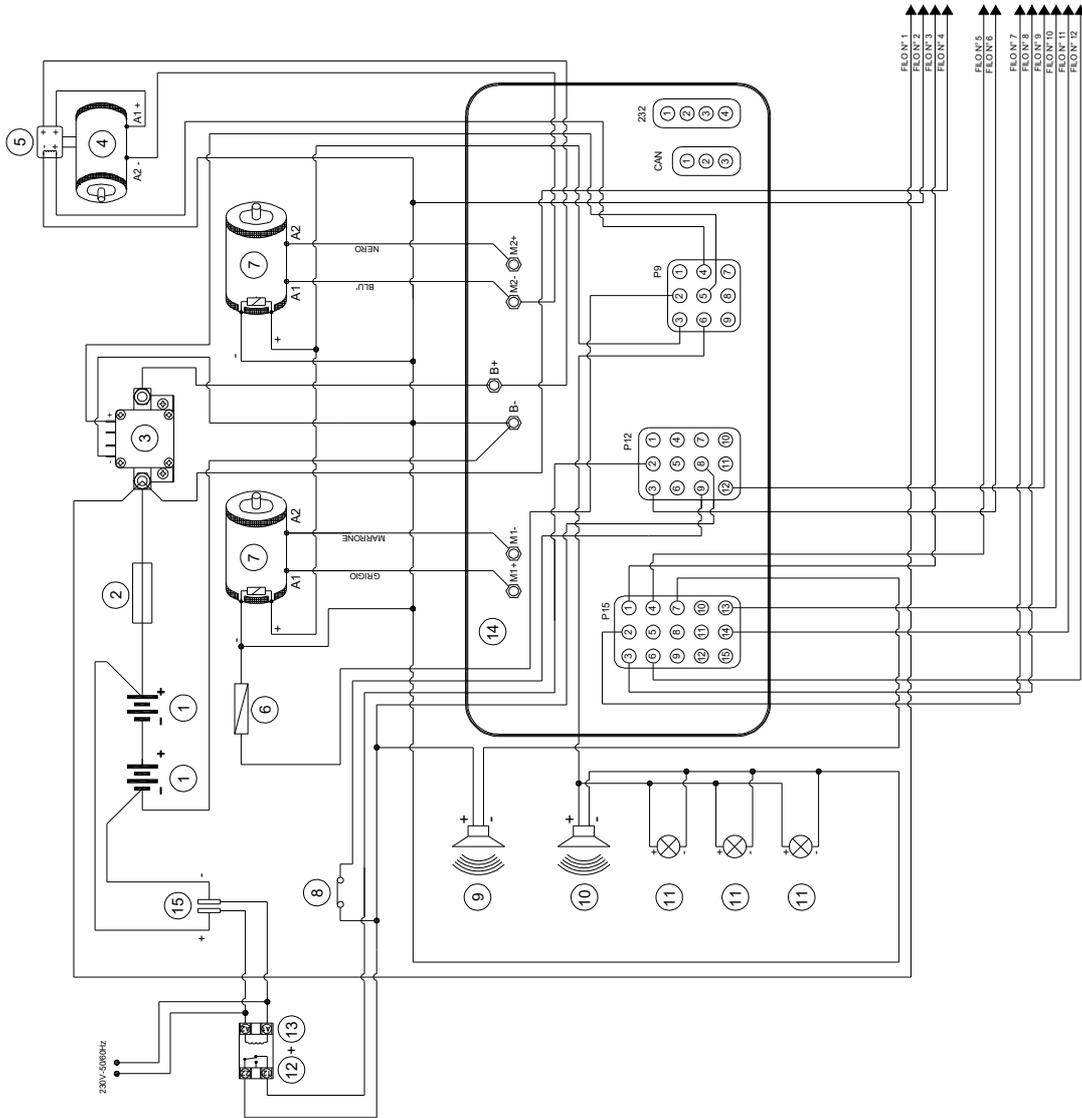
Fornito a parte

$P = G3/8"$
 $T = G1/4"$

00	INSEZIONE	15/02/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
01	MODIFICAZIONE	25/03/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
02	MODIFICAZIONE	07/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
IND.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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AVV.	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
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DATA	MODIFICAZIONE	10/06/2019	Div.zeas	MATERIALE (D.L. 11.03.02) (D.L. 11.03.02) (D.L. 11.03.02)
AVV.	MODIFICAZIONE			

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	Motoruota trazione 24V - 350W	2
8	Micro Lepre - Tartaruga Pizzato FMS02	1
9	Buzzer di allarme Pizzato 21S6A1CV1B	1
10	Buzzer di movimento Pizzato 21S6A1CV1B	1
11	Lampeggiatore 24V	2
12	Zoccolo Finder Type 95.05 SMA	1
13	Relè caricabatterie Finder Type 40.52.8.230	1
14	Modulo TS100	1
15	Carica batterie 24V-50/60 Hz. 15Ah	



FORNITORE: SCALFA T2
 NOME FILE: IMA-460
 CODICE: 1000
 REV: 000

SCHEMA ELETTRICO E5
COLLEGAMENTO SCHEDA

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

IMA - 03.03.2019
 DIS.
IMA - 460.1
 info@faraone.com
 QUESTO DISEGNO È DI PROPRIETÀ IMA. NON È CONSENTITA LA RIPRODUZIONE E' CONSENTITA SENZA LA NOSTRA AUTORIZZAZIONE

ATTACHMENT 4 – Successful acceptance test certificate

AERIAL PLATFORM

E5 ES

Serial number:

The machine, manufactured according to the type tested 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
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Fax +39 0861.772222

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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	Piattaforma aerea/Aerial platform Plateforme aérienne/Arbeitsbühne
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.	XXXXXXXXXXXXXXXXXXXXXX

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 la piattaforma aerea è stata fabbricata conformemente ai requisiti di sicurezza e salute previsti dalla Direttiva Macchine 2006/42/CE ed alle norma armonizzata UNI EN 280:2015 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 aerial platform has been manufactured in accordance with the requirements of safety and health of the Machine Directive 2006/42/CE and harmonized standard EN 280:2015 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, la plate-forme élévatrice susmentionnée 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 EN 280:2015 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 die Hubarbeitsbühne nach den Sicherheits- und Gesundheitsanforderungen der Maschinenrichtlinie 2006/42/EG und der harmonisierten Norm EN280:2015 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

Il Legale Rappresentante
(Faraone Pier Giuseppe)

FARAONE
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SECTION 10. MAINTENANCE LOGBOOK

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		
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		

Every two years

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

Date: _____

Signature: _____

NOTES

MAINTENANCE

OPERATOR: _____

DATE: _____

Quarterly

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