Faraone Industrie spa

CE

AERIAL PLATFORM

ELEVAH 61

USE AND MAINTENANCE INSTRUCTIONS

Translation of the original instructions

SECTION 0. INTRODUCTION

TABLE OF CONTENTS

ENGLISH

INTRODUCTION

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

- **Aerial Platform:** A machine intended to move persons to their work position, where they carry out their tasks from the cage.
- **Cage:** A platform or cage that is moved to the required work position when loaded and from which the operator can carry out construction, repairs, inspections, or other similar operations.
- **Stabilisers:** Devices used to stabilise the mobile work aerial platform, supporting and levelling it in its entirety.
- **Extending structure:** A structure connected to the frame that supports the cage and enables movement from the platform to the required work position.
- **Frame:** Machine Base. It can be a pushed or self-propelled type.

TECHNICAL ASSISTANCE - WARRANTY

The Client 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 (the 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

For machines sold in Italy:
According to art. 71, paragraph 11 of the (Italian) Legislative Decree 81/2008, the employer/owner of the machine platform is obliged to report commissioning of the same to the local department of INAIL (National Institute for the Prevention of Accidents at Work).
He must also arrange for the machine to be given an ANNUAL inspection of its condition and working order.

For machines sold in other countries:
The owner of the machine must decide whether to report installation of the machine and/or assess the need for periodic inspections by specific relevant entities.

SECTION 1. SAFETY PRECAUTIONS

GENERAL INFORMATION

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

The owner/user/operator/company granting in leasing/person receiving in leasing the machine, must not accept responsibility of its operation before having carefully read the manual and completed the training and the functioning 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 THE PROPERTY AND CAUSE INJURIES OR FATAL ACCIDENTS.

PRELIMINARY PROCEDURES

Operator training and knowledge

- Carefully read the manual before using the machine.

- Use the machine only 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 WARNING statements and the operational instructions reported 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 emergency controls and 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 work place

- Before using the machine, the operator must take the necessary precautions to avoid any hazard in the work place.
- 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 switched on at temperatures between -15°C and 40°C. Contact Faraone Industrie 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 having carried out the inspections and functional checks. For further instructions, refer to *Section 2* of this manual.
- Operate the machine only after having carried out all assistance 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 the 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 BY THE MANUFACTURER.

OPERATION

General information

- Only use the machine to lift personnel with the relative tools and equipment.
- Do not operate a faulty machine. Should a fault occur, switch off the machine.
- Do not move the control switches abruptly or levers from one position to the opposite one, going through the neutral position; always move the switch to the neutral position before moving it in the position of the next function. Operate the controls by exerting slow and even pressure.
- If there are people on the cage, enable personnel to activate the machine from the ground exclusively in the event of an emergency.
- Completely lower the extending structure and disconnect the power supply before moving away from the machine.
- When welding is carried out with the machine, take precautions to protect all machine components from contact with sprays generated from welding or with the melted metal.
- Ensure that the electric tools are put back correctly, avoiding leaving them hanging on the cables in the work area of the platform.
- *(In case of a battery powered machine)* Charge batteries in a well-ventilated area.

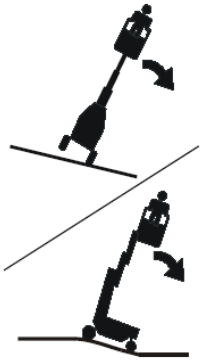
Risk of falls

- Before using the machine, ensure all rails and gates are fixed in the correct position.
- Keep both feet firmly on the floor of the cage. Do not arrange ladders, boxes, steps, planks or similar items on the platform to increase the range of action.
- Do not use the extension unit to climb on or off the platform.
- Pay maximum attention when entering or coming out of the platform. Ensure the extending structure is completely lowered. Face the machine when entering or coming out of the platform. Always maintain "three contact points" with the machine, while 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



- Do not lift the cage on a slope or on irregular or soft surfaces.
- Before driving the machine on floors, bridges, lorries and other surfaces, check their maximum capacity values.
- Do not exceed the maximum capacity of the machine. Evenly distribute the loads on the floor of the cage as best as possible.
- Keep the machine chassis *(including stabilisers if present)* at a minimum distance of 0.5 m from holes, unevenness, descents, obstacles, debris, hidden holes and other potential dangers found at ground level.
- Do not attempt using the machine as a crane. Do not tie the machine to an adjacent structure.
- Do not increase the dimension of the working platform with unauthorised extensions or by extending the platform.
- If the extending structure or the cage remains jammed so that one or more wheels are lifted from the ground, the operator is required to climb off the working platform before attempting to free the machine. To stabilise the machine and have personnel climb down from the cage, use a crane, forklift trucks or other adequate equipment.
- *(For machine without self-propeller)* Do not move the machine with the stabilisers enabled *(if present)* or with the extending structure lifted. Before moving the machine, completely lower the extending structure.

Danger of crushing and impact

- When using the machine or lifting or lowering the cage, check the distances above, at the sides and below the said platform.
- Do not lean out of the rails of the cage when the machine is running.
- Always pay the utmost attention to prevent the operational controls and people on the cage from being hit or hindered by any obstacles.
- Make sure the operators of other machines, overhead or at ground level, are informed of the presence of the machine.
- Warn personnel not to work, stand or transit underneath the lifted platform. Mark off the floor area with appropriate barriers, as required.
- *(For machine with self-propeller)* When driving in areas where visibility is limited by obstacles, always have a person precede the vehicle to signal any dangers.

- *(For machine with self-propeller)* While driving, always keep non-operational personnel at a minimum distance of 1.8 m from the machine.
- *(For machine with self-propeller)* Adjust the driving speed according to the following conditions: ground surface, traffic, visibility, slope, location of personnel and other factors that pose danger of collision or injuries to personnel.
- *(For machine with self-propeller)* Take into account the braking distances regardless of the speed of the machine.
- *(For machine with self-propeller)* Do not drive at high speed in reserved or tight areas or when reversing.

TOWING, LIFTING AND CARRYING

- Do not allow personnel to stand on the cage while towing, lifting and carrying.
- Only tow the machine in case of emergency, faults, a power-cut or to load/unload it. Refer to the "Emergency procedures" section in this manual.
- Before towing, lifting and carrying, make sure that the working platform is completely retracted and emptied.
- Do not pull or push a blocked or disabled machine.
- While lifting the machine by means of a forklift, place the forks exclusively in the appropriate areas of the machine. Lift by means of lifting equipment of adequate capacity.

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

SECTION 2. GENERAL TECHNICAL DATA

ATTENTION

THE ELEVAH 61 AERIAL PLATFORM IS A LIFTING MACHINE INTENDED TO MOVE PERSONS TO THEIR WORK POSITIONS FROM WHERE THEY ARE TO CARRY OUT THEIR TASKS FROM THE CAGE.
THE ELEVAH 61 AERIAL PLATFORM MUST BE USED ONLY FOR THE PURPOSES FOR WHICH IT WAS CONCEIVED.
ANY OTHER USE IS CONSIDERED IMPROPER.

ATTENTION

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

ELEVAH 61 GENERAL TECHNICAL DATA	□ INTERNAL USE	□ OUTDOOR USE
Weight of the machine: (Total) Stabiliser weight: 4.5 kg • Battery powered • 220V power supply	 260 kg 260 kg	 358 kg 358 kg
Machine height: (in transport position)	173 cm	173 cm
Maximum resting pressure on ground: per wheel/outrigger (*) • Battery powered • 220V power supply	 161 daN 161 daN	 195 daN 195 daN
Maximum gradeability: (in transport position)	N.A.	N.A.
Maximum longitudinal work slope:	0° (centred spirit levels)	0° (centred spirit levels)
Maximum transversal work slope:	0° (centred spirit levels)	0° (centred spirit levels)
Machine base: (length x width) • With stabilisers • Without stabilisers	 130 cm x 119 cm 125 cm x 77 cm	 130 cm x 172 cm 125 cm x 77 cm
Manual maximum horizontal side force:	200 N	200 N
Maximum hydraulic plant pressure:	80 bar	80 bar
Capacity of the hydraulic tank:	~ 2 Litres	~ 2 Litres
Power supply • Battery powered • 220V power supply	 2 AGM 12V 40 Ah 220 V 50/60 Hz	 2 AGM 12V 40 Ah 220 V 50/60 Hz
Operators inside the cage:	1	1
Maximum capacity in the cage:	200 kg	200 kg
Maximum work height: (from the ground to the floor of the cage) • With stabilisers • Without stabilisers	 4.1 m 1.9 m	 4.1 m N.A.
Maximum self-propelling height: (from the ground to the floor of the cage)	N.A.	N.A.
Internal dimensions of the cage:	64 cm x 62 cm	64 cm x 62 cm
Max cage rising speed:	< 0.4 m/s	< 0.4 m/s
Max cage descending speed:	< 0.4 m/s	< 0.4 m/s
Max shifting speed in transport position:	N.A.	N.A.
Maximum self-propelled movement speed at a height:	N.A.	N.A.

Table NOTE:

* : Maximum pressure of the stabiliser considering the weight of the platform plus the maximum load on the cage are fully distributed on only one side of the platform (fully asymmetrical load)

BASIC CONSTRUCTIVE DATA

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

EXTENDING STRUCTURE: The extending structure consists of special extruded aluminium alloy profiles that slide along each other on runners with nylon wheels. The kinematic connection between one profile and another is achieved with chains.
An oil hydraulic cylinder is installed between the first and second profile, powered by the hydraulic unit, to lift the structure. The chains interconnect the extending structure elements so that they lift simultaneously.

CAGE: The cage is completely made of extruded aluminium profiles. The base floor is made of an aluminium sheet coated with a non-slip protection.

EXPOSURE TO VIBRATIONS: The machine does not produce vibrations such as to endanger the health of the operators. The weighted acceleration to which the entire body is subjected is less than 0.5 m/s^2

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

ATTENTION

THE AERIAL PLATFORM SAMPLE ELEVAH 61, HAS BEEN TESTED BY THE MANUFACTURER WITH:

- **STATIC STABILITY TESTS;**
- **OVERLOAD TEST;**
- **OPERATING TESTS;**

SECTION 3. PREPARATION AND INSPECTION

PERSONNEL TRAINING

The machine is a transport device for personnel; therefore, it must be used and submitted to maintenance exclusively by trained personnel.

The machine cannot be used by persons under the influence of alcohol or drugs or subject to epileptic attacks, 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. Use of the approved protective device against falls (if required);
5. Knowledge of the mechanical operation of the machine sufficient to enable recognising of a fault;
6. Safe methods for using the machine in presence of overhead obstacles, other moving equipment and obstacles, depressions, holes and descents;
7. Methods to avoid dangers due to unprotected electric conductors;
8. Requisites of a particular work or particular application of the machine.

Training supervision

Training must be carried out under the supervision of a skilled person, in an open space and free from 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 fault or other unsafe conditions, both relating to the machine and to the work area.

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

FUNCTIONAL TEST

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

ATTENTION

IF THE MACHINE DOES NOT WORK 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.

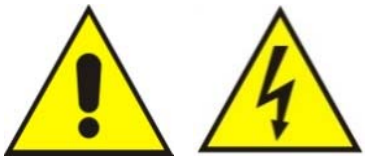
1. **Carry out the operations as instructed, from the ground controls *(if present)*, without any load in the cage.**
   - **a.** Activate the ground control, the lifting and the lowering of the platform;
   - **b.** Ensure all machine functions are disabled when activating (pressing) the emergency stop button;
   - **c.** Check the correct operation of the manual descent valve.
2. **From the control console of the cage, carry out the detailed operations.**
   - **a.** Make sure the control console is correctly assembled and securely fastened;
   - **b.** Lift and lower the cage checking that lifting and lowering happen regularly;
   - **c.** Activate all functions and check the correct operation of all end run switches, main and activation switches:
     - **Machine brakes** – Drive the machine on a slope (not exceeding the nominal functioning capacity on a slope) and stop it to ensure the brakes hold it;
     - **Inclination alarm limit switch *(for machine with self-propeller)*** – With the platform completely lowered, drive the machine on a surface with a slope greater than that designed in any direction (do not exceed the maximum nominal operational capacity on a slope). Any attempt to lift the cage makes the machine signal an inclination that exceeds the maximum allowed;
     - **Transmission speed reduction limit switch *(for machine with self-propeller)*** – When the platform is lifted, the transmission speed is reduced compared to the speed with platform lowered.
   - **d.** Ensure all machine functions are disabled when activating (pressing) the emergency stop button.

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 AERIAL OBSTACLES (power lines, protrusions, etc.)

(RISK OF ELECTROCUTION AND IMPACT)

WITH EXCESSIVE LOADS COMPARED TO LIMITS ALLOWED

(DANGER OF LOSS OF STABILITY AND OVERTURNING)

ON FLOORING WITH STRENGTH LOWER THAN THE WEIGHT OF THE MACHINE

(DANGER OF LOSS OF STABILITY AND OVERTURNING)

IN ALL CIRCUMSTANCES NOT SPECIFCALLY INDICATED UNDER OPERATING CONDITIONS IN THIS MANUAL

(GENERAL DANGER)

ATTENTION

THE ELECTRICAL SYSTEM OF THE MACHINE IS NOT IN ANTI-EXPLOSIVE EXECUTION (NO ATEX): THEREFORE YOU SHOULD CAREFULLY AVOID ITS USE IN AREAS SUBJECT TO ATEX RISK.

When travelling on the ground:

- ✓ Cautiously move the machine avoiding sudden manoeuvres;
- ✓ **DO NOT TRANSPORT PERSONS on the base frame of the machine and in any other position except for in the work position inside the platform;**
- ✓ Check the structural condition and cleanliness of the surfaces on which the machine is used (verify the surface is suitable for the weight of the machine in work conditions).

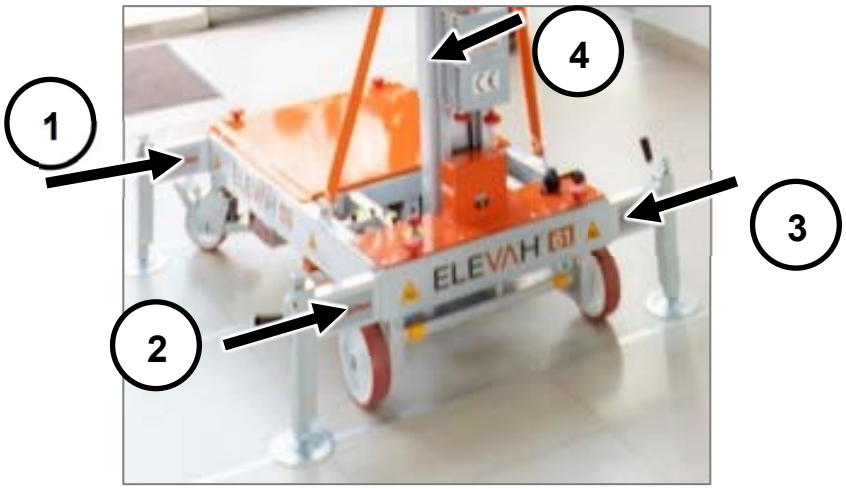
During the ascent and descent phase:

- ✓ Observe the maximum admissible capacity weights for the cage;
- ✓ Ascertain overhead obstacles are not present along the trajectory, in vertical;
- ✓ Do not cause dangerous vibrations and/or oscillations that would result in loss of machine stability and possible tipping over.

ATTENTION

THE MACHINE IS WITHOUT AN AUTOMATIC BASE LEVELLING VERIFICATION SYSTEM. BEFORE PROCEEDING WITH THE ASCENT/DESCENT PHASE, VERIFY CORRECT INCLINATION OF THE BASE BY VISUALLY CHECKING THE SPIRIT LEVELS. THE SPIRIT LEVELS MUST BE CENTRAL COMPARED TO THE INDICATOR, WITHIN THE TOLERANCE LIMITS.

INSERTION OF 4 STABILISER FEET



ATTENTION

INSTALL THE STABILISING FEET IN ORDER TO REACH THE MACHINE'S MAXIMUM WORKING HEIGHT
INSERT THE STABILISERS INTO THE APPROPRIATE SEATS (UNTIL THEY STOP) AND BLOCK THEM BY INSERTING THE SUPPLIED SAFETY PIN.
LEVEL THE BASE BY ADJUSTING THE STABILISER'S FEET. PAY THE UTMOST ATTENTION WHEN SLIGHTLY LIFTING THE MACHINE'S WHEELS SO THAT THEY ONLY REST ON THE STABILISER'S FEET.

LOCKING THE 4 SAFETY PLUGS

ATTENTION

CHECK THE POSITION OF THE SPIRIT LEVEL BEFORE PROCEEDING WITH LIFTING THE CAGE, BOTH WITH AND WITHOUT THE STABILISERS.
WHEN USING THE MACHINE WITHOUT STABILISERS AND WITH THE BASE NOT COMPLETELY LEVEL, AVOID LIFTING THE CAGE TO PREVENT THE MACHINE FROM TIPPING OVER.

ATTENTION

AFTER POSITIONING THE MACHINE AND MAKING SURE THE BASE IS LEVEL, INSERT THE BRAKES ON THE SWIVEL WHEELS IN ORDER TO PREVENT THE MACHINE FROM INVOLUNTARILY MOVING WHEN LIFTING/LOWERING THE CAGE AND DURING OPERATIONS AT HEIGHTS.

Lock the brakes of the wheels with your foot by pushing the lever marked by the wording “STOP”, bringing it to its limit switch in the lowest position (ATTENTION: do not use your hands).

NOTE: *To release the brakes, push the lever marked “FREE” with your foot (situated on the opposite side of the wheel), bringing the limit switch to its lowest position.*

Prohibition signs:

- Prohibition to overload the cage beyond the limits indicated
- Prohibition to use the machine as lifting equipment (forklift truck)
- Prohibition to remove or tamper with the stability devices of the machine (sensors, ballasts, etc.)
- Prohibition to remove or tamper with the safety and protection devices of the machine
- Prohibition to climb on or off the cage in places other than the arranged gate
- Prohibition to increase outreach or work height of the mobile work aerial platform using additional equipment (for example, ladders)
- Prohibition to induce oscillations on the machine so as not to make it unstable
- Prohibition to install any addition device that increases the wind load on the mobile work aerial platform (for example, warning signs)
- Prohibition to come into contact with live electrical conductors
- Prohibition to climb up/down from the cage when it is lifted
- Prohibition to lift/lower the cage without operator on board
- Do not operate/move with the cage railing raised even partially and/or locking device not engaged

When using the machine, the Manufacturer recommends using the following personal protective equipment:

Protection of lower limbs

NON-SLIP SHOES

ATTENTION

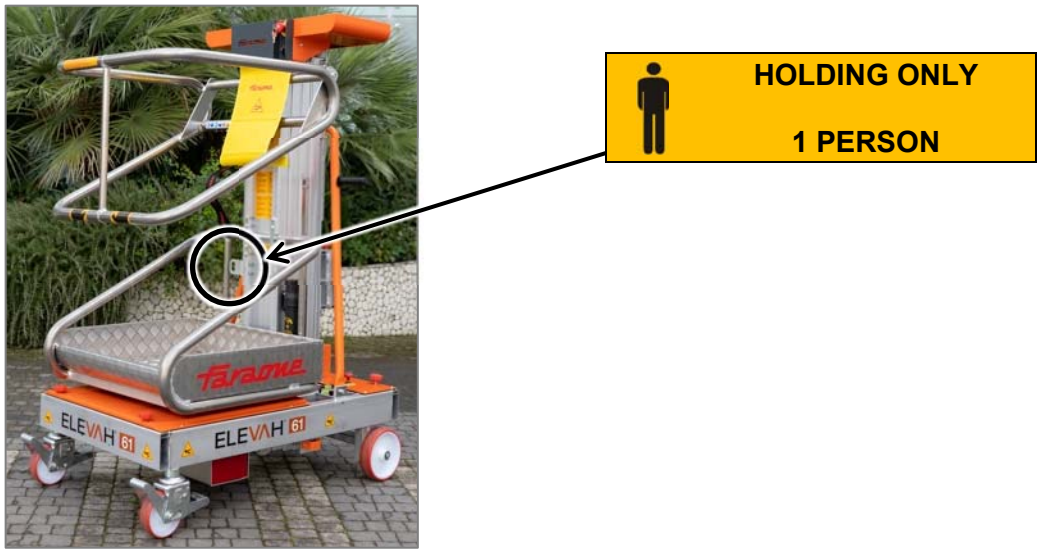
THE USE OF ANY ADDITIONAL SPECIFIC PERSONAL PROTECTIVE DEVICES MUST BE CHECKED BASED ON THE ASSESSMENT OF THE SPECIFIC RISKS, CARRIED OUT BY THE EMPLOYER

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.

ATTENTION

REGARDING ITALIAN LEGISLATION, LEGISLATIVE DECREE 81/2008 REQUIRES THE USE OF SUITABLE SAFETY BELTS IN THE CASE OF ALL EXTENDING BRIDGES AND SIMILAR. THIS MEASURE APPLIES ALSO TO VERTICAL EXTENDING CAGE S.
A SPECIFIC RISK ASSESSMENT MUST BE CARRIED OUT BEFOREHAND TO DETERMINE THE NEED FOR A FALL PREVENTION SYSTEM.



SECTION 4. CONTROLS, 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 ELEVAH 61 model lifting appliances are electric machines provided with an aerial cage, assembled on a lifting mechanism with aluminium upright.
The lifting device is **INTENDED TO MOVE PERSONS TO THEIR WORK POSITIONS FROM WHERE THEY CAN CARRY OUT THEIR TASKS FROM THE CAGE.**
The main control station is located on the cage. The operator can lift and lower the cage from the cage control console (the machine is not equipped with self-propelling, therefore shifting is by manual pushing, allowed only when the cage is at the lowest position).
Vibrations generated by machines do not constitute any danger for the operator who is on the cage.
The level of continuous sound pressure (A measurement) on the cage is less than 70 db (A).

MACHINE OPERATION

Preliminary operations

It is necessary for the following control conditions to be satisfied before activating the machine from the cage controls.

- The voltage of the batteries, if included, must be sufficient to activate the machine (for 220/230 V external power, the plug must be connected to the electrical system);
- Both emergency stop switches, one located on the ground control station and the other on the control console of the cage, must be in RESTORE position.

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.

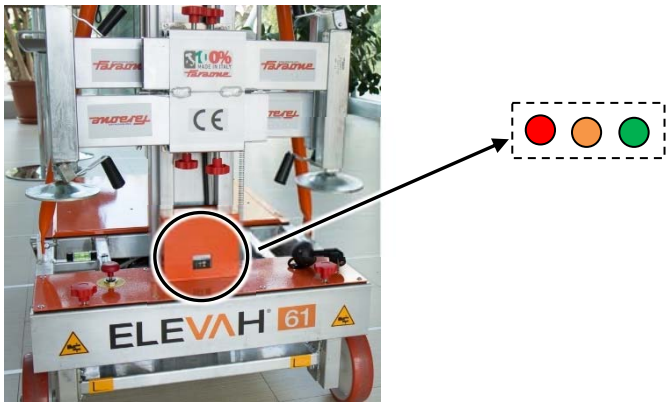
NOTE: *when the battery charger is connected to an AC socket, the transmission function of the machine is disabled.*

Battery charging procedure

1. Park the machine in a well-ventilated area, near an AC electric socket;
2. Switch the machine off and remove the control key to prevent unauthorised use.
3. Connect the battery charger to a correctly installed and earthed socket according to regulations in force.

Battery charge warning lights

Le spie di stato della carica della batteria sono situate in corrispondenza della parte anteriore della macchina.



The **RED LED**, when charging the battery, indicates the beginning of the charging cycle.
Charging stops automatically with no need for operator action, and is indicated by a **GREEN LED** on.
While using the machine, 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 NEVER TO ALLOW BATTERIES TO 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.

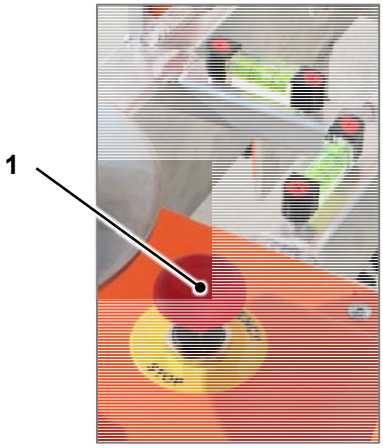
220/230 V POWER SUPPLY

If the machine is equipped with a plug connecting it to a 220/230 V 50/60 Hz system, to power the machine it is sufficient to connect the power plug to an external electrical system.

ATTENTION

CONNECT THE MACHINE TO A POWER SYSTEM THAT IS COMPLIANT WITH THE APPLICABLE LAW AND IN A GOOD MAINTENANCE CONDITION.

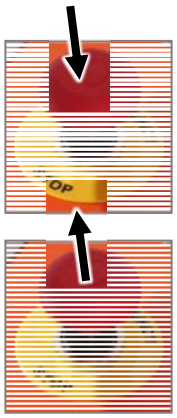
GROUND CONTROL STATION (24 V powered machines)



1. Emergency stop/switch-off button

Emergency stop/switch-off button

NOTE: *in order for the machine to operate, the emergency stop/switch-off button on the machine must be on RESTORE.*



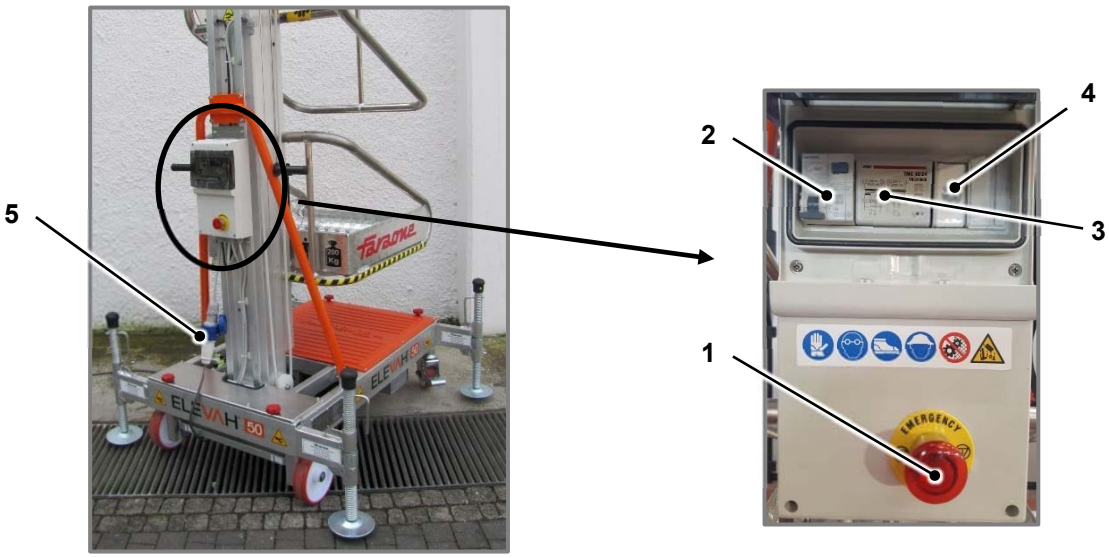
POWER SUPPLY DISCONNECTION

PUSH INWARDS to engage the emergency stop.

POWER SUPPLY CONNECTION

PULL OUTWARDS to restore the emergency stop.

GROUND CONTROL STATION (220/230 V powered machines)



1. Emergency stop/switch-off button
2. 220/230 V main power supply switch
3. Electricity transformer
4. LED power indicator
5. Connection socket to external 220 V power supply

ATTENTION

PREVENT UNAUTHORISED USE BY SWITCHING OFF THE MACHINE, SWITCHING OFF THE MAIN POWER SWITCH AND REMOVING THE ENABLING KEY.

Emergency stop/switch-off button

NOTE: *in order for the machine to operate, the emergency stop/switch-off button on the machine must be on RESTORE.*

POWER SUPPLY DISCONNECTION

PUSH INWARDS to engage the emergency stop.

POWER SUPPLY CONNECTION

PULL OUTWARDS to restore the emergency stop.

PLATFORM CONTROL CONSOLE

1. Emergency stop/switch-off button with removable safety key
2. Ascent/descent control of the cage.
3. Fuse seat (only 24 V)

General information

Before actuating the machine from the control console of the cage, it is necessary to satisfy the following conditions of the controls:

- Ground control station - The Emergency stop/switch-off button must be in RESTORE position (POWER SUPPLY CONNECTED).
- Platform console - The emergency stop/switch-off button must be in RESTORE position (POWER SUPPLY CONNECTED).

Emergency stop/switch-off button

NOTE: *in order for the machine to operate, the emergency stop/switch-off button on the machine must be on RESTORE.*

POWER SUPPLY DISCONNECTION

PUSH INWARDS to engage the emergency stop.

POWER SUPPLY CONNECTION

TURN CLOCKWISE AND RELEASE to restore the emergency stop.

Ascent/descent control switch

TURN the switch to the LEFT to make the cage DESCEND

TURN the switch to the RIGHT to make the cage ASCEND

ATTENTION

BEFORE LIFTING THE CAGE, PAY ATTENTION TO WHAT IS STATED IN SECTION 3 "PREPARATION AND INSPECTION" WITH REGARD TO THE BASE LEVELLING CONTROL SYSTEM.

ATTENTION

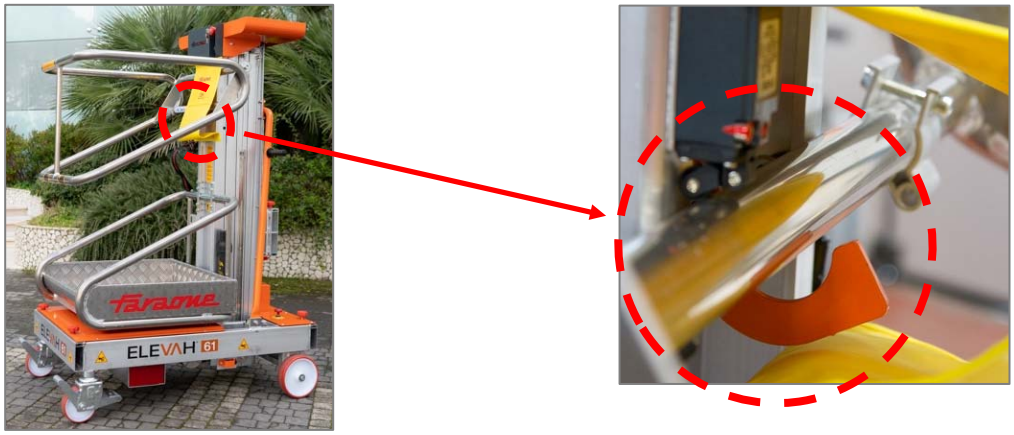
INSTALL THE STABILISING FEET IN ORDER TO REACH THE MACHINE'S MAXIMUM WORKING HEIGHT
INSERT THE STABILISERS INTO THE APPROPRIATE SEATS (UNTIL THEY STOP) AND BLOCK THEM BY TIGHTENING THE SUPPLIED SAFETY PIN.
LEVEL THE BASE BY ADJUSTING THE STABILISER'S FEET. PAY THE UTMOST ATTENTION WHEN SLIGHTLY LIFTING THE MACHINE'S WHEELS SO THAT THEY ONLY REST ON THE STABILISER'S FEET.

ATTENTION

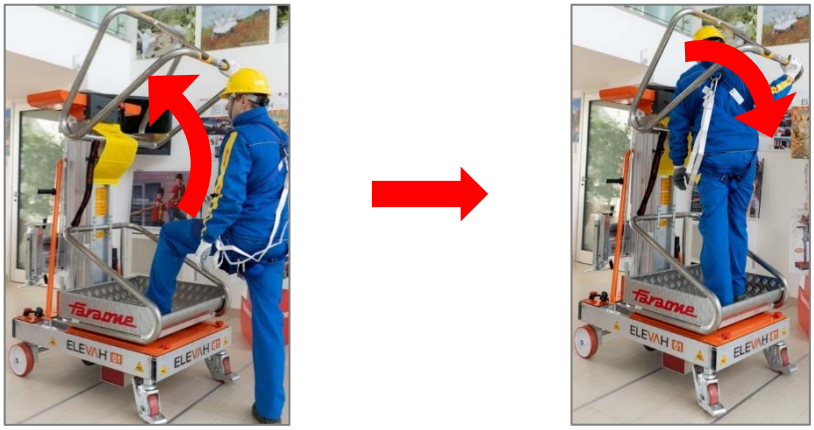
IT IS STRICTLY FORBIDDEN TO RELEASE AND/OR CLOSE THE STABILISERS WHILE THE CAGE IS LIFTED. DANGER OF OVERTURNING.

ACCESS TO THE CAGE

The unlock/lock mechanism of the railing opening consists of a special hook (see figure below).
The machine does not start if the railing is not closed properly.



The hook opens automatically when the cage is in the stand-by position (cage on the ground) in order to facilitate climbing up and down (the operator does not need to release the lock by hand)
To access the cage, simply lift the railing.



Once the operator climbs on to the cage, the railing is automatically lowered (due to gravity) to the closed position.

ATTENTION

MAKE SURE THERE IS NO OBSTACLE THAT COULD BLOCK THE CAGE RAILING FROM CLOSING PROPERLY

As soon as the cage starts to rise, the hook automatically moves to the locked position thereby preventing the railing from being opened by accident.

ATTENTION

DO NOT TRY TO FORCE THE RAILING UNLOCK/LOCK HOOK OPEN WHEN THE CAGE IS RAISED IN ORDER TO PREVENT THE RAILING BEING OPENED BY ACCIDENT, THEREBY POSING A RISK OF FALLING FROM A HEIGHT

When the cage is in the stand-by position, the hook automatically unlocks the railing (Figure 1). In such conditions**, if the aerial platform must be translated with the operator on board**, the cage railing must be locked manually in order to prevent it being opened by accident. This is locked manually by pressing the side pin, as shown in Figure 2:

After having pressed the pin, always check that the hook is in the locked position.
Following the manual locking of the parapet, the operator will have to manually lower the locking hook until the opening is complete in order to descend from the basket.

ATTENTION

ENSURE HANDS DO NOT REMAIN TRAPPED WHEN CLOSING THE RAIL. PLACE THE HANDS ALONG THE AREAS MARKED WITH SPECIFIC ADHESIVE

CAUTION

DO NOT RAISE/LOWER THE CAGE IF THE RAILING IS NOT FULLY LOWERED CORRECTLY AND THE CLOSING DEVICE IS NOT CORRECTLY ENGAGED

ATTENTION

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

PARKING THE MACHINE

1. Drive the machine to a well-protected and ventilated area.
2. Make sure the cage is completely lowered, switch off the main power switch and extract the enabling key.
3. Actuate both the front wheel locking brakes.

Lock the brakes of the wheels with your foot by pushing the lever marked by the wording “STOP”, bringing it to its limit switch in the lowest position (ATTENTION: do not use your hands).

NOTE: *To release the brakes, push the lever marked “FREE” with your foot (situated on the opposite side of the wheel), bringing the limit switch to its lowest position.*

If needed, lock the stabilisers in the dedicated support near the front part of the machine.

ATTENTION

PREVENT UNAUTHORISED USE BY SWITCHING OFF THE MACHINE, SWITCHING OFF THE MAIN POWER SWITCH AND REMOVING THE ENABLING KEY.

TRANSPORT AND LIFTING PROCEDURES

General information

It is possible to transport the machine on to work premises using one of the following methods:

- By driving the machine along the route on its base wheels, if the surface it is travelling on allows it
- By moving it with a forklift *(check the gross weight of the machine in the Operational Technical Data Table for the machine)*

ATTENTION

LOAD THE MACHINE ONTO A HEAVY DUTY VEHICLE HAVING A USEFUL LOAD CAPACITY ABLE TO SUPPORT THE TOTAL WEIGHT OF THE MACHINE (CHECK THE GROSS WEIGHT OF THE MACHINE IN THE OPERATIONAL TECHNICAL DATA TABLE OF THE MACHINE)

ATTENTION

FASTEN THE MACHINE SO THAT IT WILL NOT GET DAMAGED DURING TRANSPORT.

Handling with a forklift truck

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

ATTENTION

LIFT THE MACHINE ONLY WITH CAGE FULLY LOWERED.

SECTION 5. EMERGENCY PROCEDURES

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

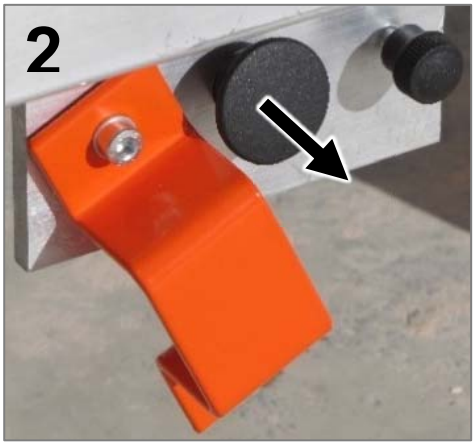
EMERGENCY OPERATION

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. INTERRUPT MACHINE ACTIVITY IF THE CONTROLS DO NOT OPERATE CORRECTLY.
- In case of incorrect operation of the controls or power outage, the emergency stop must be operated and, if necessary, 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. Loosen the blocking knob to free the control protection for descent (1);
4. Slowly pull the knob to lower the cage (2);



5. ATTENTION: continuously supervise the entire descent phase of the cage;
6. Once descent is completed, release the knob, close and lock the closing door;
7. Reset the emergency button to enable the machine's power supply.

ATTENTION

THE OPERATIVE STAGES OF THE EMERGENCY DESCENT PROCEDURE ARE SET OUT ON AN APPROPRIATE ADHESIVE LABEL ON THE FRONT MACHINE CASING.

The cage is locked in its overhead position

If the cage blocks or jams in overhead equipment or structures, transfer the person present on the cage to a safe place before freeing the machine.
Recovery equipment can be used to allow the occupants to climb down from the working platform.
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 in case 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 WORKING PLATFORM UNTIL ONE IS SURE THAT ALL DAMAGES HAVE BEEN REPAIRED, AS REQUIRED, AND THAT ALL CONTROLS WORK 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 AVOID ANY INJURIES, ENSURE THAT THE MACHINE POWER SUPPLY IS SWITCHED OFF DURING "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 are no visible damage, leaks or signs of excessive wear.*

(a) **Drive wheels/free wheels and swivel castors;** Check there is no debris on the wheels or around them;
(b) **Base frame: E**nsure there are no loose wires or cables hanging underneath the base, check for any dents, rupture or cracks on the profiles;
(c) **Manual descent control valve**:– See note pertaining to functional check;
(d) **Stabilisers** *(if present):* Check for dents on the aluminium profiles, breaks or cracks, and check operation of the adjustable stabiliser feet;
(e) **Motor/pump/tank unit:** No conspicuous hydraulic leak, hydraulic oil filling level at the "full" line;
(f) **Batteries** *(if present)*
If necessary, charge them;
(g) **Cage assembly and entrance doors:** Correct blocking of the cage and entrance doors operating correctly;
(h) **Control console in the cage:** Controls secured, legible signs, emergency stop switch in the reset position and legible control signs;
(i) **Ground control station** *(if present):* Main power supply selection switch operable, signs securely fastened and legible, emergency stop switch operable;
(j) **Extendable structure unit:** Structure profiles, sliding inserts, chains, sequential activation cables, pulleys able to turn freely;
(k) **Spirit levels** *(if present):* Check the integrity of the spirit levels on the base frame.

ATTENTION

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

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 OF THE FREQUENCY AND METHOD OF ROUTINE AND/OR EXTRAORDINARY MAINTENANCE ACTIVITIES.
DO NOT TAKE INITIATIVES IF YOU ARE UNSURE OF WHAT YOU ARE DOING.

ATTENTION

TO CARRY OUT MAINTENANCE AND/OR CLEANING OPERATIONS ON THE MACHINE THAT REQUIRE THE EXTENDABLE STRUCTURE TO BE IN A PARTIALLY EXTENDED POSITION, ANCHOR THE CAGE SAFELY (FOR EXAMPLE, USING A CONTRASTING 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.

MAINTENANCE EVERY THREE MONTHS

- ***Check there is no clearance, mechanical parts not correctly secured and/or bent and no parts/components desoldered;***

- ***Check the integrity of the structural profiles;***

- ***Check correct operation of the emergency descent valve.***
  Take the cage to a height and execute an “emergency descent”, as shown in the relative section of this manual.

- ***Hydraulic Oil***
  Check the level of hydraulic oil and top-up, if necessary.
  Refer to the specifications described in the relative paragraph for information regarding hydraulic oil checks and top-up;

- ***Check the hydraulic oil piping and make sure there are no leaks;***

- ***Battery check*** *(if applicable)*
  Periodically check for any corrosion and tightening of the terminals and any acid top-ups required in the battery (if a lead/acid type).

- ***Check the cage and the entrance doors***
  Correct blocking of the cage and entrance doors operating correctly.

- ***Check the controls present in the cage and on the ground*** (if applicable)
  Controls secured, legible signs, main power supply operable selection switch, emergency stop switch in a reset position and legible control signs;

- ***Check lubrication and wear of the lifting chains***
  When restoring lubrication, make sure the chains are not dirty or soiled with mud, rubble, ice or other foreign matter. Clean the chains thoroughly before lubricating them.
  The lifting chains must be lubricated with the extendable structure completely closed, by gravity, from the top, directly on the return wheels (if necessary, temporarily remove the protective cover to access the chains). For information regarding the wear of chains, refer to “Checks on the lifting chains”.

- ***Check the wheels for wear***
  Check there is no debris on the wheels or around them. Check for wear or damage to the tread. The wheels must be replaced if the edges are worn or the profiles are deformed. If the wheels have significant damage on tread or sides, immediately assess the severity of the damage before operating the machine again.

MAINTENANCE EVERY SIX MONTHS

- ***Lubrication of moving parts and sliding wheels check***
  The extensions run on nylon wheels. For each pair of extensions are mounted four wheels, two upper and two lowers.
  Verify the absence of debris, the integrity of the wheels and the absence of games / abnormal movements.
  Contact the Manufacturer for further information and instructions regarding the adjustment of the sliding wheels of the extendable structure, when a backlash anomaly is found.

MAINTENANCE EVERY TWO YEARS

- ***Hydraulic Oil***
  Change the hydraulic oil in the tank.
  Refer to the specifications described in the relative paragraph for information regarding hydraulic oil change.

SECTION 8. MAINTENANCE OPERATING INSTRUCTIONS

LIFTING THE CAGE FOR MAINTENANCE

To perform maintenance below the cage, use a forklift and proceed as follows:

1. Disconnect the battery outlet;

2. Insert the forks below the cage, as indicated in the figure, and lift with the utmost care;

3. Support the cage with the forklift truck during the entire duration of the maintenance operation;

4. When done, close the protective cover and slowly lower the cage as far as its end run.

BATTERY MAINTENANCE

It is necessary to periodically check for any corrosion and tightening of the terminals.
Replace the batteries as follows:

1. Make sure the machine is not connected to the mains supply (charging batteries);
2. Follow the instructions for lifting the cage as described in paragraph “LIFTING THE CAGE FOR MAINTENANCE”;
3. Use the suitable switch to disconnect the machine's power supply;
4. Open the protective cover of the battery compartment;
5. Loosen the connection terminals of the batteries (positive pole and negative pole);
6. Remove the batteries and replace them with new ones;
7. Connect the terminals of the batteries, making sure to do so correctly (red wire to the positive pole, black wire for the negative pole) and tighten them;
8. Close and lock the protective cover.
9. Lower the cage all the way by following the instructions described in paragraph “LIFTING THE CAGE FOR MAINTENANCE”;

ATTENTION

SHOULD THE BATTERY BE DAMAGED, USE THE RELATIVE 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 TYPES AS THOSE SUPPLIED BY THE MANUFACTURER.

HYDRAULIC OIL CHANGE

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

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 TOP UP/CHANGE IT.

ATTENTION

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

CHECKS ON LIFTING CHAINS

1) Chain noise

A grinding metal noise will be heard if the chains are not fully lubricated. This causes metal-metal friction between the joints of the chain, which can lead to seizing-slipping effect, causing the cage to move unevenly.

2) Surface rust

Plates with rusty surfaces are easily recognisable by the typical brown colour. Rust can lead to chain fatigue failures.

3) Rust on joints

Corroded connection points are recognisable by their red-brown colour. This phenomenon may arise from lack of lubrication or use of grease and oil unsuitable for penetrating the joints.

4) Stiff joints

Any joint that is not in a straight position when leaving the return pulley, can no longer be used. This phenomenon may be caused by corrosion or cold micro welding.

5) Turned pins

This is the consequence of incorrect lubrication and the aforementioned phenomenon of stiffened joints. This phenomenon is easily recognised by the difference in the pin clinching positions compared to factory standard.

6) Pins coming out of their housings

A direct consequence of the stiff joints of turned pins.

7) Wear

It is important to assess whether the connection plates are very worn.

8) Broken plates

This is the result of fatigue failure caused by overloading. Corrosion phenomena may contribute to this problem.

9) Broken pins

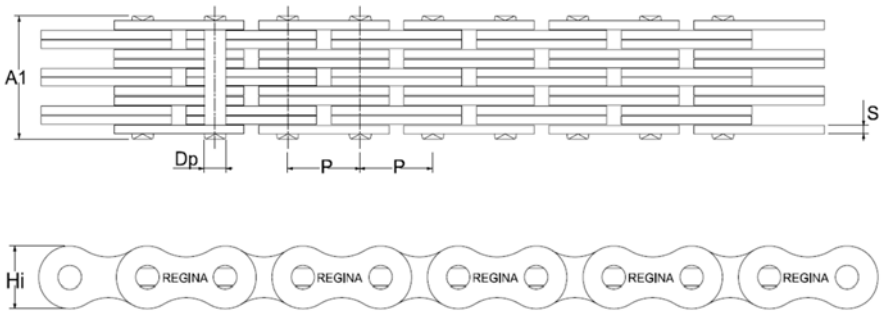
This problem usually occurs as a result of corrosion in the chain joints. Since the pins of a single chain are subject to the same load and corrosion conditions, one failure is usually followed by more. Experience has shown that this type of failure is not always easily recognised as there are no evident changes in the chain conditions, especially in the initial stage.

Checking for chain wear

(Check the cause of the malfunction before installing the new chain)

Lifting chain

Manufacturer: REGINA – Model: AL522



A1 = 19.1 mm ; Dp = 5.09 mm ; P = 15.875 mm ; S = 2.04 mm ; Hi = 12.83 mm

Elongation:

Measurement of chain slightly tightened on straight sections 1/5 to 1/15 of the total length. Maximum elongation allowed: 2% along the most worn section.

Wear of plate profiles:

Where the phenomenon is most noticeable: maximum permitted height reduction of 2.5% on one side only, 4% if on two sides, in relation to the initial height.

Wear on the side of the chain:

Replace the chain if the protruding part of the pin heads is worn down by more than 25% or if the outer side is worn down by more than 20% of its thickness.

ATTENTION

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

THE MANUFACTURER DECLINES ALL LIABILITY DUE TO DAMAGE OR MALFUNCTION CAUSED BY USE OF PARTS NOT AUTHORISED BY THE SAID MANUFACTURER.

SECTION 9. ATTACHED DOCUMENTATION

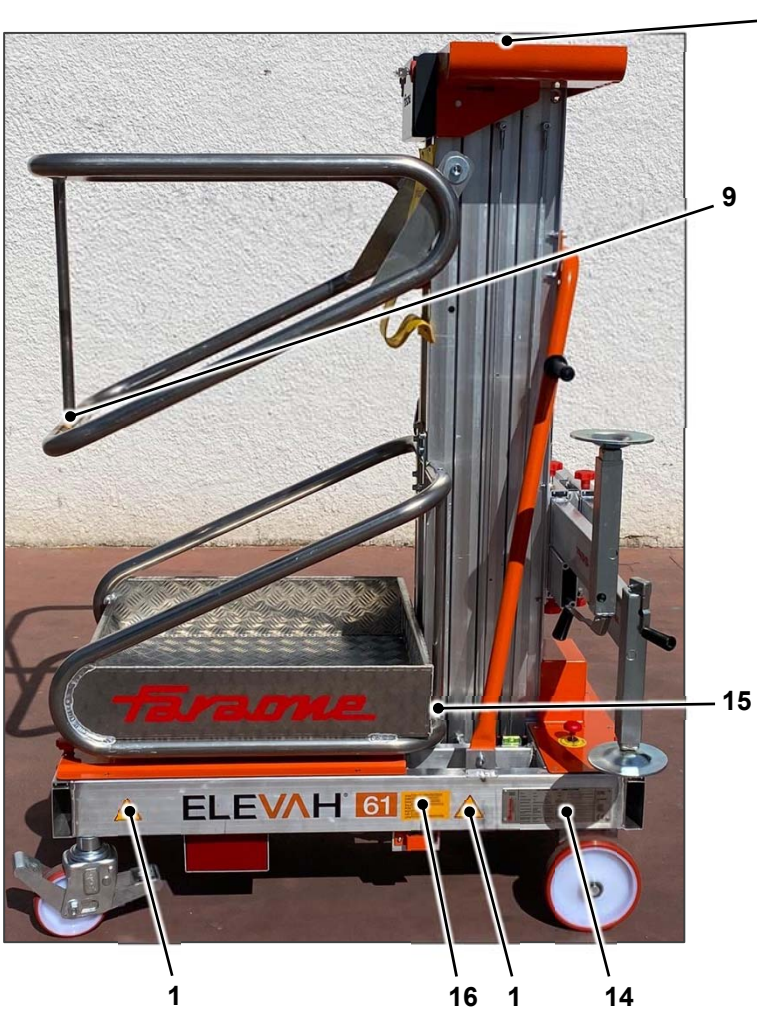
- ✓ ATTACHMENT 1 – Layout for the application of the decals;
- ✓ ATTACHMENT 2 – 24 V Hydraulic diagram;
- ✓ ATTACHMENT 3 – 220/230 V hydraulic diagram;
- ✓ ATTACHMENT 4 – 24 V Wiring diagram;
- ✓ ATTACHMENT 5 – 220/230 V Wiring diagram;
- ✓ ATTACHMENT 6 – Inspection certificate;
- ✓ ATTACHMENT 7 – Declaration of conformity.

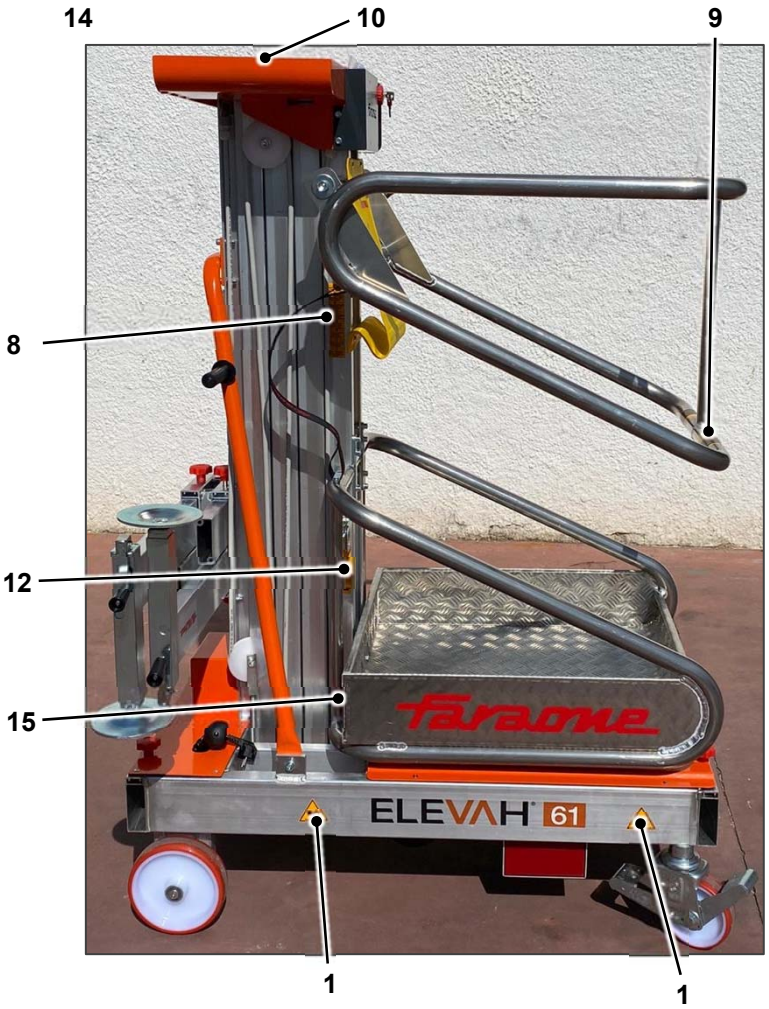
ATTENTION

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

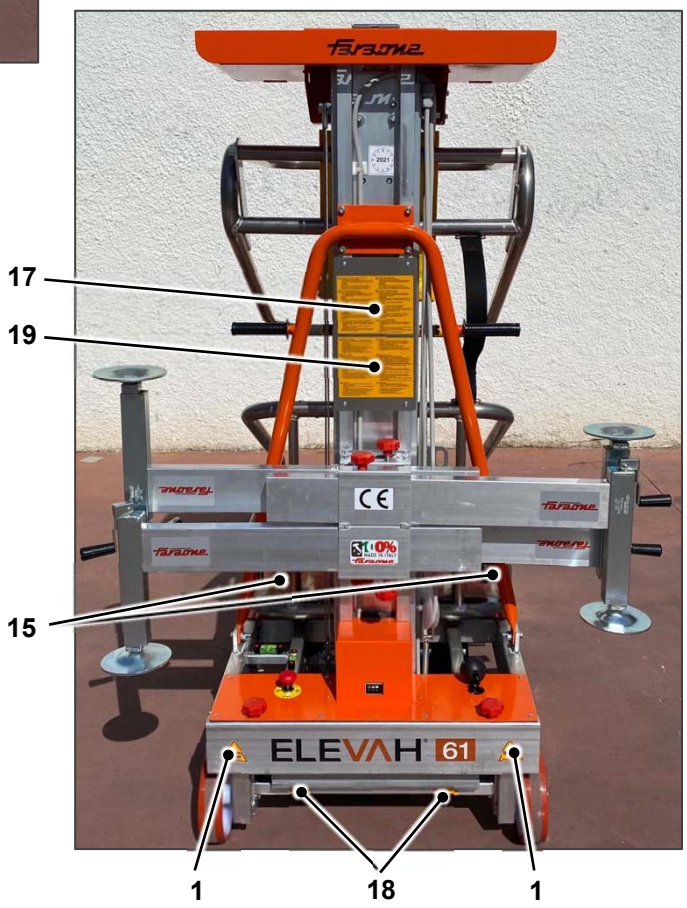
ATTACHMENT 1 – Layout for decal application

Pos.	SIMBOLO	DESCRIZIONE	Pos.	SIMBOLO	DESCRIZIONE
1		DANGER SIGN CRUSHING AND TRAPPING OF THE LOWER LIMBS	2		DANGER SIGN CRUSHING AND TRAPPING OF THE UPPER LIMBS
3		DANGER SIGN DANGER FALLING OBJECTS FROM ABOVE	4		PROHIBITION SIGN FOR UNAUTHORISED PERSONNEL TO USE THE MACHINERY
5		PROHIBITION SIGN TO REMOVE THE SAFETY PROTECTIONS AND DEVICES	6		OBLIGATION SIGN CONSULT THE OPERATING MANUAL
7		OBLIGATION SIGN WEAR NON-SLIP SHOES	8	INDICATION	"MANULE BLOCK FOR OPENING THE BASKET"
9		INDICATION Cage opening/closing coupling point	10	INDICATION	"USING THE TOOLS HOLDER TRAY"
11	INDICATION	"INSTRUCTIONS FOR PROPER USE WITH OR WITHOUT STABILISING FEET"	12	INDICATION	"HOLDING ONLY 1 PERSON"
13	INDICATION	"DANGERS AND PROHIBITIONS IN USING THE PLATFORM"	14	INDICATION	CE PLATE
15	 Max 200 kg	INDICATION MAXIMUM NUMBER OF PERSONS AND LOAD ALLOWED INSIDE THE BASKET	16	INDICATION	"EMERGENCY DESCENT"
17	INDICATION	"EMERGENCY DESCENT PROCEDURE"	18		"LIFTING POINTS WITH FORKS"
19	INDICATION	"BATTERY CHARGE PROCEDURE"			

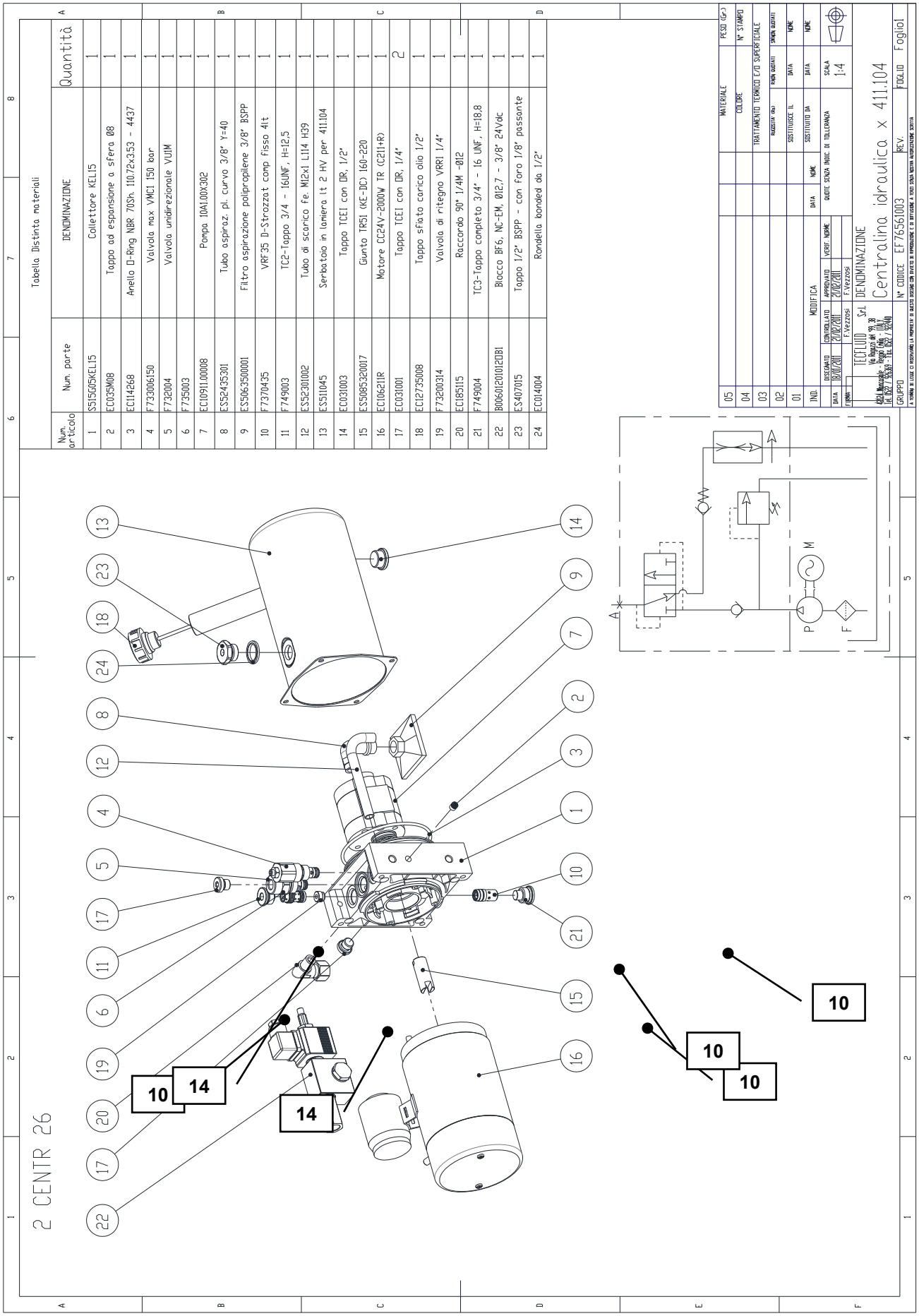

10
9
15
ELEVAH 61
1
16
1
14


10
9
8
12
15
ELEVAH 61
1
1

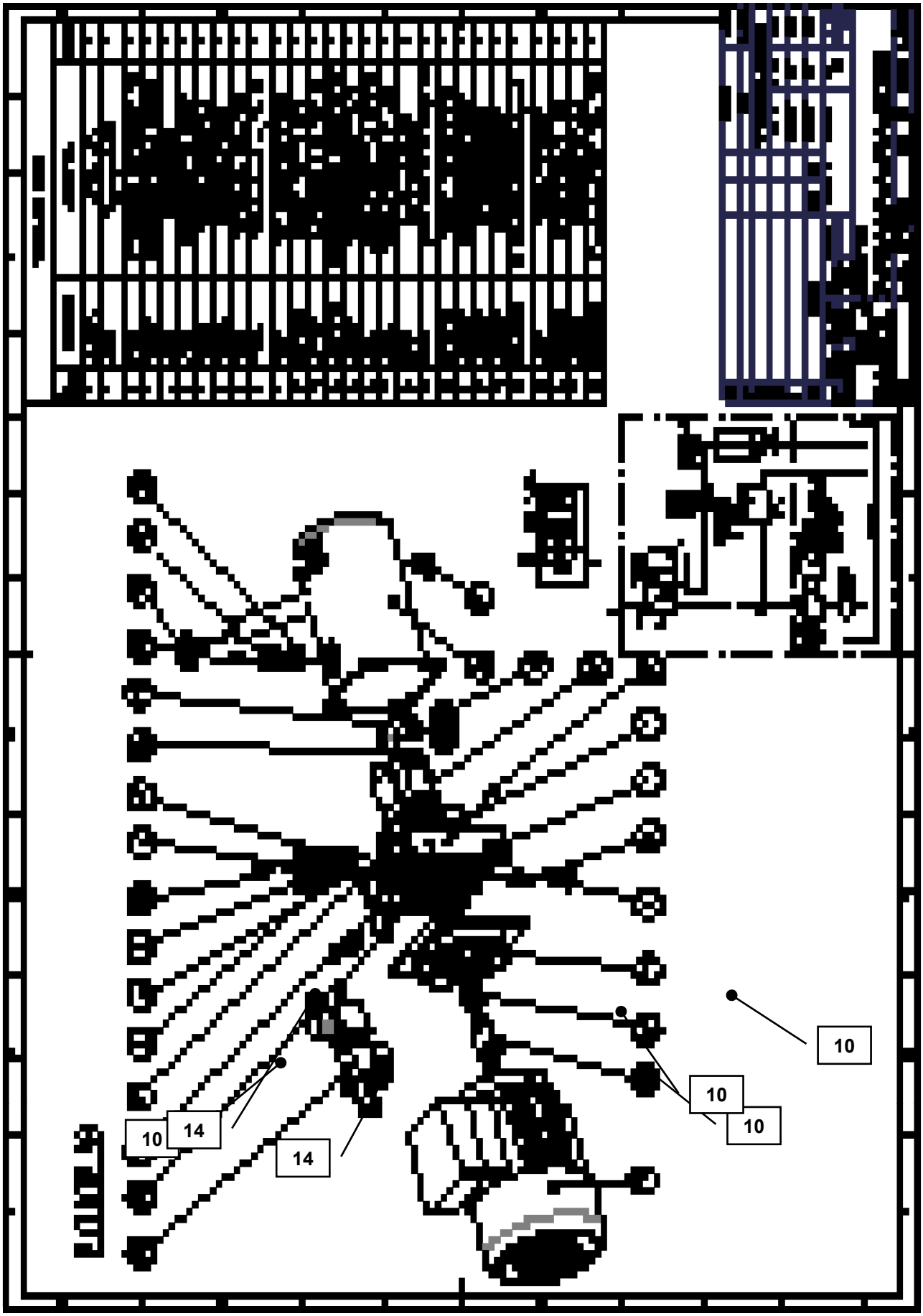

3-4-5-6-7
2
11
13
9
6
ELEVAH 61
1
1


17
19
15
ELEVAH 61
1
18
1

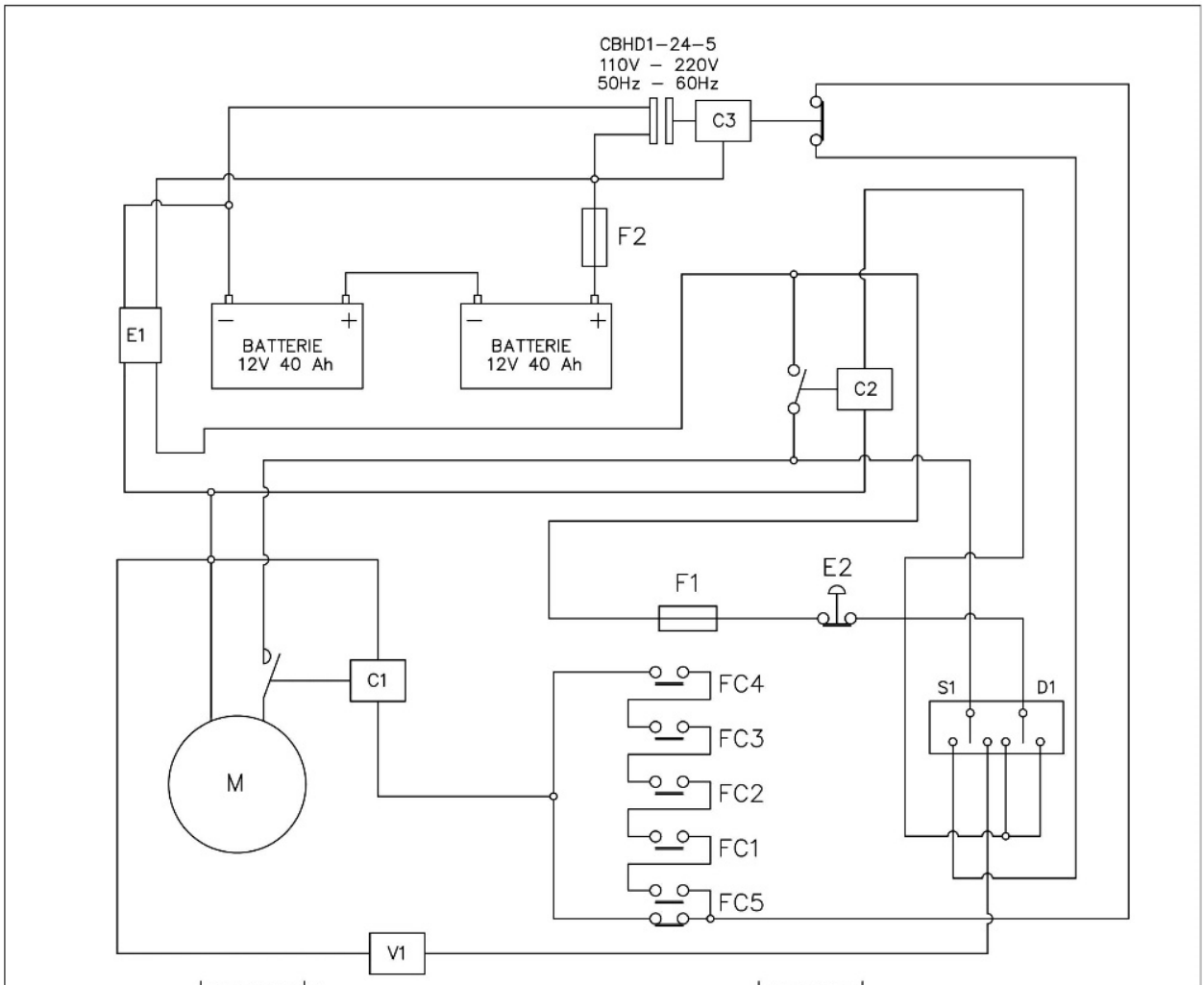
ATTACHMENT 2 – 24 V hydraulic diagram



ATTACHMENT 3 – 220/230 V hydraulic diagram



ATTACHMENT 4 – 24 V Wiring diagram



Legenda

F1: Fusibile 2A
F2: Fusibile 80A
C1: Teleruttore pompa
C2: Teleruttore linea
C3: Relè caricabatterie
E1: Emergenza staccabatteria
E2: Emergenza cestello
M: Motore centralina
FC1 – FC4: Micro stabilizzatori
FC5: Micro presenza stabilizzatori
V1: Valvola idraulica
S1: Pulsante salita
D1: Pulsante discesa

Legend

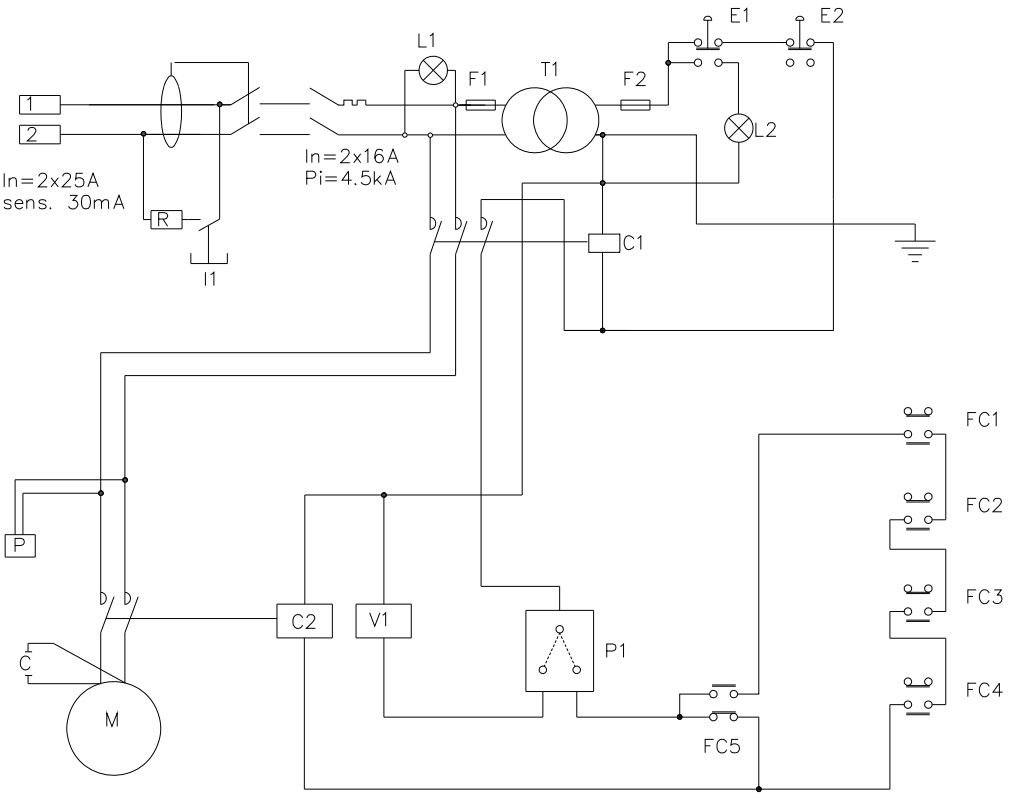
F1: Fuse 2A
F2: Fuse 80A
C1: Engine contactor
C2: Line contactor
C3: Relay charger
E1: Emergency battery disconnect
E2: Emergency lowering on the cage
M: Engine
FC1 – FC4: Stabiliser control
FC5:
V1: Hydraulic valve
S1: Button up
D1: Button down

OGGETTO SCHEMA ELETTRICO PIATTAFORMA ELEVAH 61

IMA SPA
Tortoreto (TE) Italy
tel+39086177221
fax+390861772222
www.faraone.com
info@faraone.com

DATA: 01.09.2012
REV. 01

ATTACHMENT 5 – 220/230 V Wiring diagram



MORSETTIERA

PE	L	N	1	2	3	4	5
			0 24V	V 24			

Legenda

I1: INTERRUTTORE DIFFERENZIALE
P1: PULSANTE CESTELLO SU'- GIU'
T1: TRASFORMATORE 50 VA 220/24V
F1: FUSIBILE 0.5A
F2: FUSIBILE 2A
FC1 - FC4: FINE CORSA STABIILIZZATORI
FC5: MICRO PRESENZA STABILIZZATORI
L1: SPIA BIANCA PRESENZA TENSIONE
L2: SPIA ROSSA EMERGENZA AL QUADRO
E1: EMERGENZA QUADRO
E2: EMERGENZA COMANDI
C1: CONTATTORE PRINCIPALE
C2: CONTATTORE MOTORE

V1: VALVOLA IDRAULICA
P1: PULSANTE CESTELLO SU'- GIU'
C: CONDENSATORE 80 uF
P:PRESA 220V
M: MOTORE

OGGETTO SCHEMA ELETTRICO PIATTAFORMA ELEVAH 61 VERSIONE 230V/50Hz.

IMA SPA
Tortoreto (TE) Italy
tel+39086177221
fax+390861772222
www.faraone.com
info@faraone.com

DATA: 01.09.2012
REV. 01

ATTACHMENT 6 – Inspection certificate

AERIAL PLATFORM

ELEVAH 61

Serial number:

The machine, built in compliance with the model that is the object of type testing, underwent the following tests:

- Brake test
- Overload test
- Operation test

Producing a POSITIVE result.

Tortoreto, on

ATTACHMENT 7 – 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
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 KONFORMITÄTSERKLÄRUNG

CE

Macchina/Machine/Machine/Maschine	**Piattaforma aerea/Aerial platform Plateforme aérienne/Arbeitsbühne**
Modello/Model/Modèle/Modell	**XXXXXXXXX**
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.	**XXXXXXXXXXXXXXXXXX**

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)

SECTION 10. MAINTENANCE LOGBOOK

MAINTENANCE

OPERATOR: _____

DATE: _____

Every three months	DONE ✓	DONE ✗
Check there is no clearance, mechanical parts not correctly secured and/or bent and no parts/components desoldered		
Check the integrity of the structural profiles		
Check correct operation of the emergency descent valve		
Check the level of hydraulic oil		
Check the hydraulic oil piping and make sure there are no leaks		
Check the Battery		
Check the cage and the entrance doors		
Check the controls		
Check the lifting chains		
Check the wheels for wear		

Every six months

Perform the “THREE-MONTHLY” checks		
Lubrication of moving parts		
Check the sliding wheels		

Every two years

Perform the “THREE-MONTHLY AND SIX-MONTHLY” checks		
Hydraulic oil change		

Date: _____ Signature: _____

NOTES

MAINTENANCE

OPERATOR: _____

DATE: _____

Every three months	DONE ✓	DONE ✗
Check there is no clearance, mechanical parts not correctly secured and/or bent and no parts/components desoldered		
Check the integrity of the structural profiles		
Check correct operation of the emergency descent valve		
Check the level of hydraulic oil		
Check the hydraulic oil piping and make sure there are no leaks		
Check the Battery		
Check the cage and the entrance doors		
Check the controls		
Check the lifting chains		
Check the wheels for wear		

Every six months

Perform the “THREE-MONTHLY” checks		
Lubrication of moving parts		
Check the sliding wheels		

Every two years

Perform the “THREE-MONTHLY AND SIX-MONTHLY” checks		
Hydraulic oil change		

Date: _____ Signature: _____

NOTES

MAINTENANCE

OPERATOR: _____

DATE: _____

Every three months	DONE ✓	DONE ✗
Check there is no clearance, mechanical parts not correctly secured and/or bent and no parts/components desoldered		
Check the integrity of the structural profiles		
Check correct operation of the emergency descent valve		
Check the level of hydraulic oil		
Check the hydraulic oil piping and make sure there are no leaks		
Check the Battery		
Check the cage and the entrance doors		
Check the controls		
Check the lifting chains		
Check the wheels for wear		

Every six months

Perform the “THREE-MONTHLY” checks		
Lubrication of moving parts		
Check the sliding wheels		

Every two years

Perform the “THREE-MONTHLY AND SIX-MONTHLY” checks		
Hydraulic oil change		

Date: _____ Signature: _____

NOTES

MAINTENANCE

OPERATOR: _____

DATE: _____

Every three months	DONE ✓	DONE ✗
Check there is no clearance, mechanical parts not correctly secured and/or bent and no parts/components desoldered		
Check the integrity of the structural profiles		
Check correct operation of the emergency descent valve		
Check the level of hydraulic oil		
Check the hydraulic oil piping and make sure there are no leaks		
Check the Battery		
Check the cage and the entrance doors		
Check the controls		
Check the lifting chains		
Check the wheels for wear		

Every six months

Perform the “THREE-MONTHLY” checks		
Lubrication of moving parts		
Check the sliding wheels		

Every two years

Perform the “THREE-MONTHLY AND SIX-MONTHLY” checks		
Hydraulic oil change		

Date: _____ Signature: _____

NOTES

MAINTENANCE

OPERATOR: _____

DATE: _____

Every three months	DONE ✓	DONE ✗
Check there is no clearance, mechanical parts not correctly secured and/or bent and no parts/components desoldered		
Check the integrity of the structural profiles		
Check correct operation of the emergency descent valve		
Check the level of hydraulic oil		
Check the hydraulic oil piping and make sure there are no leaks		
Check the Battery		
Check the cage and the entrance doors		
Check the controls		
Check the lifting chains		
Check the wheels for wear		

Every six months

Perform the “THREE-MONTHLY” checks		
Lubrication of moving parts		
Check the sliding wheels		

Every two years

Perform the “THREE-MONTHLY AND SIX-MONTHLY” checks		
Hydraulic oil change		

Date: _____ Signature: _____

NOTES

MAINTENANCE

OPERATOR: _____

DATE: _____

Every three months	DONE ✓	DONE ✗
Check there is no clearance, mechanical parts not correctly secured and/or bent and no parts/components desoldered		
Check the integrity of the structural profiles		
Check correct operation of the emergency descent valve		
Check the level of hydraulic oil		
Check the hydraulic oil piping and make sure there are no leaks		
Check the Battery		
Check the cage and the entrance doors		
Check the controls		
Check the lifting chains		
Check the wheels for wear		

Every six months

Perform the “THREE-MONTHLY” checks		
Lubrication of moving parts		
Check the sliding wheels		

Every two years

Perform the “THREE-MONTHLY AND SIX-MONTHLY” checks		
Hydraulic oil change		

Date: _____ Signature: _____

NOTES

MAINTENANCE

OPERATOR: _____

DATE: _____

Every three months	DONE ✓	DONE ✗
Check there is no clearance, mechanical parts not correctly secured and/or bent and no parts/components desoldered		
Check the integrity of the structural profiles		
Check correct operation of the emergency descent valve		
Check the level of hydraulic oil		
Check the hydraulic oil piping and make sure there are no leaks		
Check the Battery		
Check the cage and the entrance doors		
Check the controls		
Check the lifting chains		
Check the wheels for wear		

Every six months

Perform the “THREE-MONTHLY” checks		
Lubrication of moving parts		
Check the sliding wheels		

Every two years

Perform the “THREE-MONTHLY AND SIX-MONTHLY” checks		
Hydraulic oil change		

Date: _____ Signature: _____

NOTES

MAINTENANCE

OPERATOR: _____

DATE: _____

Every three months	DONE ✓	DONE ✗
Check there is no clearance, mechanical parts not correctly secured and/or bent and no parts/components desoldered		
Check the integrity of the structural profiles		
Check correct operation of the emergency descent valve		
Check the level of hydraulic oil		
Check the hydraulic oil piping and make sure there are no leaks		
Check the Battery		
Check the cage and the entrance doors		
Check the controls		
Check the lifting chains		
Check the wheels for wear		

Every six months

Perform the “THREE-MONTHLY” checks		
Lubrication of moving parts		
Check the sliding wheels		

Every two years

Perform the “THREE-MONTHLY AND SIX-MONTHLY” checks		
Hydraulic oil change		

Date: _____ Signature: _____

NOTES

MAINTENANCE

OPERATOR: _____

DATE: _____

Every three months	DONE ✓	DONE ✗
Check there is no clearance, mechanical parts not correctly secured and/or bent and no parts/components desoldered		
Check the integrity of the structural profiles		
Check correct operation of the emergency descent valve		
Check the level of hydraulic oil		
Check the hydraulic oil piping and make sure there are no leaks		
Check the Battery		
Check the cage and the entrance doors		
Check the controls		
Check the lifting chains		
Check the wheels for wear		

Every six months

Perform the “THREE-MONTHLY” checks		
Lubrication of moving parts		
Check the sliding wheels		

Every two years

Perform the “THREE-MONTHLY AND SIX-MONTHLY” checks		
Hydraulic oil change		

Date: _____ Signature: _____

NOTES

MAINTENANCE

OPERATOR: _____

DATE: _____

Every three months	DONE ✓	DONE ✗
Check there is no clearance, mechanical parts not correctly secured and/or bent and no parts/components desoldered		
Check the integrity of the structural profiles		
Check correct operation of the emergency descent valve		
Check the level of hydraulic oil		
Check the hydraulic oil piping and make sure there are no leaks		
Check the Battery		
Check the cage and the entrance doors		
Check the controls		
Check the lifting chains		
Check the wheels for wear		

Every six months

Perform the “THREE-MONTHLY” checks		
Lubrication of moving parts		
Check the sliding wheels		

Every two years

Perform the “THREE-MONTHLY AND SIX-MONTHLY” checks		
Hydraulic oil change		

Date: _____ Signature: _____

NOTES

NOTES:

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
info@faraone.com