Faraone Industrie spa

CE

AERIAL PLATFORM

- ELEVAH 65 MOVE
- ELEVAH 80 MOVE

USE AND MAINTENANCE INSTRUCTIONS

Translation of the original instructions

SECTION 0. INTRODUCTION

INDEX

ENGLISH

INTRODUCTION

The purpose of this use and maintenance manual is to supply the users with the essential information for carrying out the procedures for safe and correct operation of the machine, for the purposes for which the same has been manufactured.
All information contained in this manual must be read and understood before making any attempt to operate the machine.

THIS MANUAL IS A VERY IMPORTANT DOCUMENT; 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 OBSERVE THE SAFETY PRECAUTIONS

SYMBOLS AND TERMS

ATTENTION

The danger symbol recalls the 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 work platform.
- **Work platform:** 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 work platform 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 the correct and safe use and for machine 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 qualified person to establish a maintenance programme based on the information provided in this manual; such programme must be scrupulously followed.

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 qualified operator.

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

ATTENTION

THE NON COMPLIANCE WITH THE SAFETY PRECAUTIONS LISTED IN THE MANUAL MAY CAUSE DAMAGES TO THE MACHINE AND TO THE PROPERTY AND INJURIES OR FATAL ACCIDENTS.

PRELIMINARY PROCEDURES

Operator training and know-how

- Carefully read the manual before using the machine.

- Use the machine only after complete training by authorised personnel.
- The use of the machine is allowed exclusively to authorised and qualified personnel.
- Read carefully and follow all the WARNING statements and the operational instructions reported on the machine and in the manual.
- Use the machine for the applications falling within those envisioned by Faraone Industrie Spa.
- All operational personnel must familiarise with the emergency operations and controls of the machine, as specified in the manual.
- Carefully read and comply with all company, local and government Standards 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 danger in the work place.
- Do not activate the machine on lorries, trailers, railway wagons, boats, 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 values relating to machine operation at temperatures not within the indicated range.
- The machine cannot be started in environments declared 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 functional verifications and inspections. For further instructions, consult Section 2 of this manual.
- Activate the machine only after having carried out all assistance and maintenance interventions envisioned by the requirements specified in this manual.
- Make sure all safety devices work properly. Any amendments to such devices constitute violation of the safety Standards.
- Do not activate the machine whose signs or adhesives indicating the safety Standards or instructions are illegible or missing.
- Avoid the accumulation of debris on the floor of the machine. Avoid mud, oil, grease and other slippery substances coming into contact with shoes and with the floor of the machine.

ATTENTION

ANY AMENDMENTS OR ALTERATIONS TO THE MACHINE MAY ONLY BE APPLIED EXCLUSIVELY WITH PRIOR WRITTEN AUTHORISATION FROM THE PRODUCER.

OPERATION

General information

- Only use the machine to lift personnel with the relative tools and equipment.
- Do not activate a faulty machine. If a fault occurs, switch-off the machine.
- Do not suddenly move the control switches or levers from one position to the opposite one, going via the neutral position; always bring the switch to neutral position before moving it in the position corresponding to the next function. Activate the controls by applying slow and even pressure.
- If there are people on the work platform, 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.
- You are reminded to 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 work platform. 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, ensuring 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”.

Danger of overturning

- Before driving the machine, the user must be familiar with the work area surface. While driving, do not exceed the admitted transversal and longitudinal slopes.
- Do not lift the basket or drive the machine with the basket raised (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 values.
- Do not exceed the maximum capacity of the machine. Evenly distribute the loads on the floor of the work platform 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 to use 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 work platform 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 work platform, use a crane, forklift trucks or other adequate equipment.
- (For machine not self-propelled) Do not move the machine with the stabilisers engaged (if any) or with the extending structure raised. Before moving the machine, completely lower the extending structure.

Danger of crushing and impact

- When using the machine or lifting or lowering the work platform, check the distances above, at the sides and below the said platform.
- Do not lean out of the rails of the work platform when the machine is running.
- Always pay maximum attention to avoid any obstacles from hitting the operational controls and people on the work platform or from interfering with them.
- 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.
- When driving in areas where visibility is limited by obstacles, always have a person precede the vehicle to signal any dangers.
- While driving, always keep non-operational personnel at a minimum distance of 2 m from the machine.
- Adjust the driving speed according to the following conditions: ground surface, traffic, visibility, slope, location of the personnel and other factors that represent danger of collision or injuries to personnel.
- Take into account braking distances, regardless of the speed of the machine.
- 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 work platform while towing, lifting and carrying.
- Tow the machine exclusively in case of emergency, fault, power supply cut-off or to load/unload it. Consult 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, arrange the latter exclusively in correspondence of the appropriate areas of the same machine. Lift by means of a lifting device with adequate capacity.

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

SECTION 2. GENERAL TECHNICAL DATA

ATTENTION

THE AERIAL PLATFORM ELEVAH 65-80 MOVE IS A LIFTING MACHINE INTENDED TO MOVE PERSONS TO THEIR WORK POSITIONS, FROM WHERE THEY ARE TO CARRY OUT THEIR TASKS FROM THE WORK PLATFORM.
THE AERIAL PLATFORM ELEVAH 65-80 MOVE MUST BE USED ONLY FOR THE PURPOSES FOR WHICH IT WAS CONCEIVED.
ANY OTHER USE IS CONSIDERED IMPROPER.

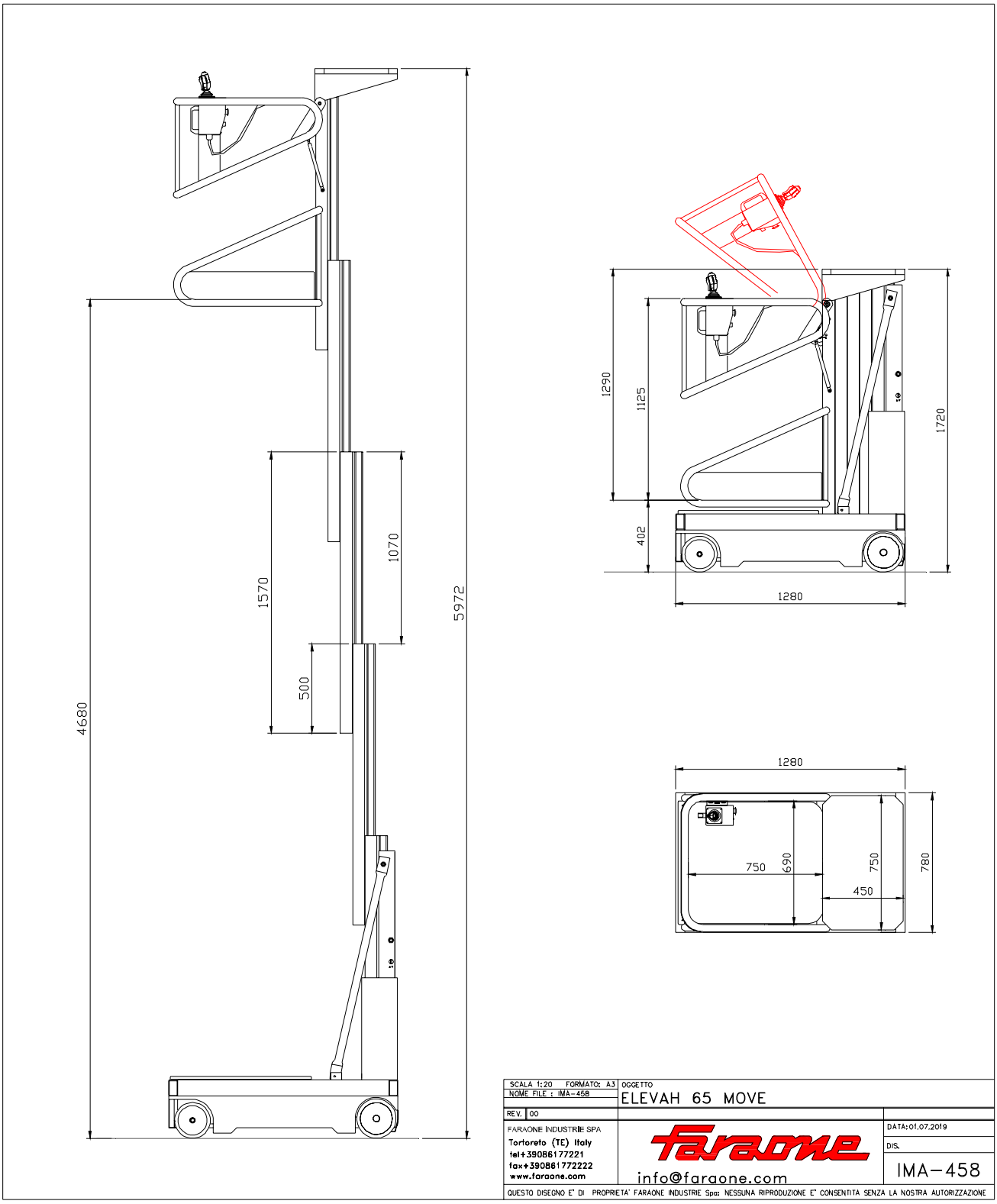
ATTENTION

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

The general technical features of the model ELEVAH 65-80 MOVE Aerial Platform in the different possible configurations are as follows:

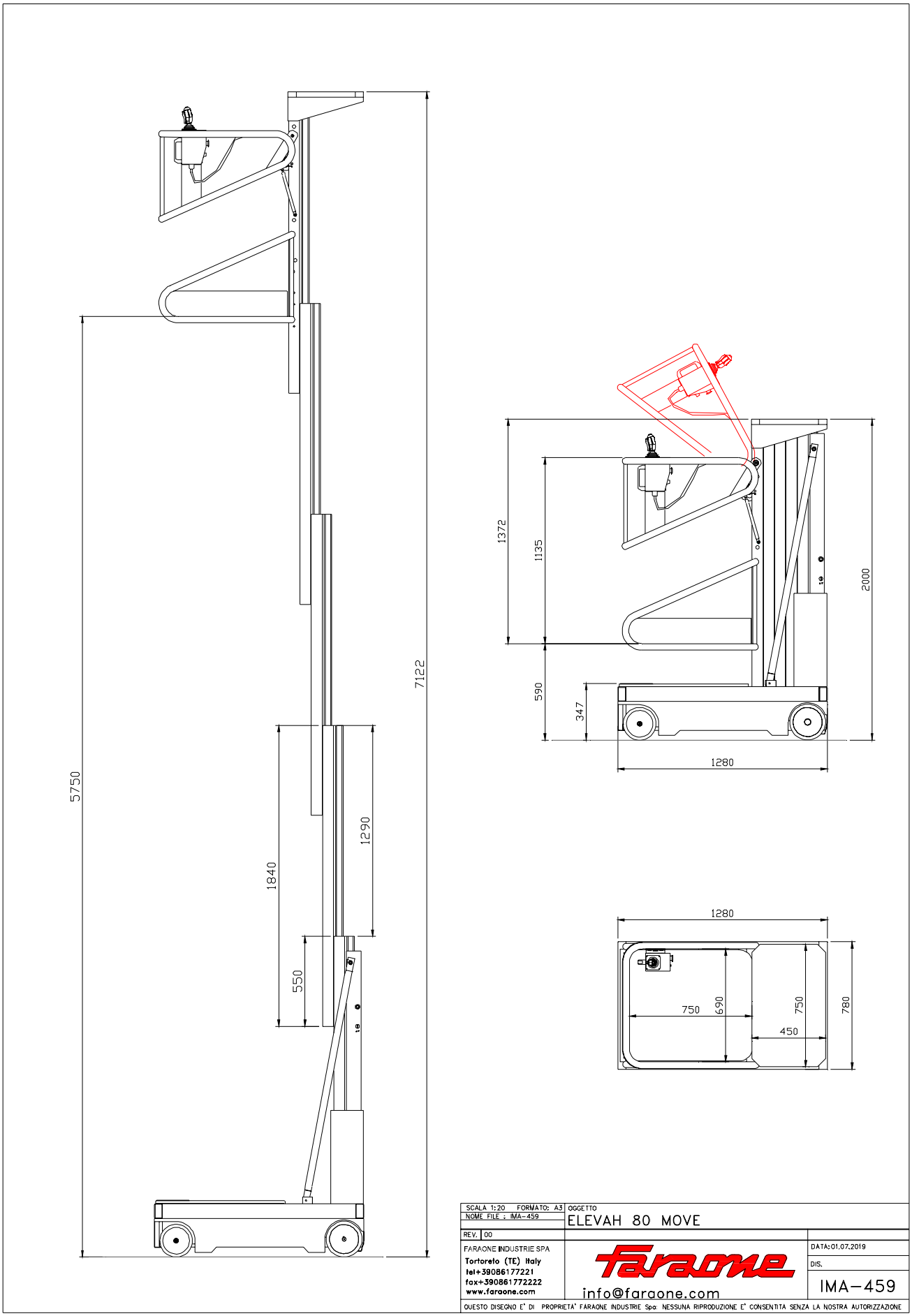
OVERALL DIMENSIONS

ELEVAH 65 MOVE



Measurements expressed in mm

ELEVAH 80 MOVE



Measurements expressed in mm

GENERAL TECHNICAL DATA MODEL ELEVAH 65 MOVE

GENERAL TECHNICAL DATA	Value
Weight of the machine: (Overall)	680 kg
Machine height: (in transport position)	172 cm
Maximum resting pressure on ground: per wheel/stabiliser (*)	308 daN
Maximum passable slope: (in transport position)	15% - 9°
Maximum longitudinal work slope:	1.5°
Maximum transversal work slope:	1.5°
Machine base: (length x width)	128 cm x 78 cm
Manual maximum horizontal side force:	200 N
Maximum hydraulic plant pressure:	80 bar
Capacity of the hydraulic tank:	~ 2 Litres
Power supply	2 12V 95 Ah Lead batteries
Operators inside the work platform:	1
Maximum cage + object holder tray capacity:	200 kg
Maximum capacity of the object holder tray:	20 kg
Dimensions of the object holder tray:	44 cm x 74 cm
Internal dimensions of the work platform:	75 cm x 69 cm
Maximum work height: (from the ground to the floor of the work platform)	4.68 m
Maximum basket rising/ descending speed:	0,2 m/s – 0,2 m/s
Maximum transmission speeds: (with cage lifted – in transport position)	0,25 m/s – 0,7 m/s
Permitted use	INTERNAL

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)

GENERAL TECHNICAL DATA MODEL ELEVAH 80 MOVE

GENERAL TECHNICAL DATA	Value
Weight of the machine: (Overall)	750 kg
Machine height: (in transport position)	200 cm
Maximum resting pressure on ground: per wheel/stabiliser (*)	332 daN
Maximum passable slope: (in transport position)	15% - 9°
Maximum longitudinal work slope:	1.5°
Maximum transversal work slope:	1.5°
Machine base: (length x width)	128 cm x 78 cm
Manual maximum horizontal side force:	200 N
Maximum hydraulic plant pressure:	80 bar
Capacity of the hydraulic tank:	~ 2 Litres
Power supply	2 12V 95 Ah Lead batteries
Operators inside the work platform:	1
Maximum cage + object holder tray capacity:	200 kg
Maximum capacity of the object holder tray:	20 kg
Dimensions of the object holder tray:	44 cm x 74 cm
Internal dimensions of the work platform:	75 cm x 69 cm
Maximum work height: (from the ground to the floor of the work platform)	5,75 m
Maximum basket rising/ descending speed:	0,2 m/s – 0,2 m/s
Maximum transmission speeds: (with cage lifted – in transport position)	0,25 m/s – 0,7 m/s
Permitted use	INTERNAL

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 are installed on the frame for normal machine operation in stable conditions.

EXTENDING STRUCTURE:
The extending structure is made of special extruded aluminium alloy profiles that slide along each other on sliding blocks with nylon wheels. The kinematic connection between profiles is set up using chains.
A fluid power cylinder is installed between the first and second profile that, powered by the hydraulic control unit, enables to lift the structure. The chains connect the extendible structure elements to each other so that these can simultaneously lift.

WORK PLATFORM: The work platform 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 ELEVAH 65-80 MOVE HAS BEEN TESTED BY THE MANUFACTURER THROUGH:

- **STATIC STABILITY TESTS;**
- **DYNAMIC STABILITY TESTS;**
- **OVERLOAD TESTS;**
- **OPERATION 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 platform and emergency controls, on the ground, and of the safety systems;
2. Signs/labels for controls, instructions and warnings on the machine;
3. Regulations defined by the employer and government standards;
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 qualified person, in an open space and free from obstacles and must continue until the trainee is able to safely activate and use the machine.

Operator responsibility

The operator must be trained with regard to responsibility and authority to switch-off the machine in case of fault or in presence of 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 plants in an area free from overhead obstacles and at ground level.

ATTENTION

IF THE MACHINE DOES NOT WORK PROPERLY, SWITCH IT OFF IMMEDIATELY. WARN MAINTENANCE PERSONNEL OF THE PROBLEM. DO NOT USE THE MACHINE UNTIL IT IS DECLARED SAFE TO USE.

Carry out a functional test as detailed below.

1. **Carry out the operations as instructed, from the ground controls, without any load in the cage.**
   - **a.** Activate the ground control, the lifting and the lowering of the work 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.** Ensure the control console is correctly assembled and securely fastened;
   - **b.** Lift and lower the work platform 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. In particular:

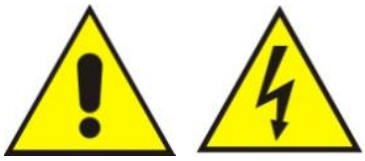
     - **Machine brakes** – Drive the machine on a slope (not exceeding the nominal functioning capacity on a slope) and stop it to ensure the brakes hold it;
     - **Inclination overcoming alarm** – With the platform completely lowered, drive the machine on a surface with a slope greater than 1.5° in any 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** – 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 THE OPERATORS

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

OUTDOORS AND IN THE PRESENCE OF WIND UNLESS THE MACHINE HAS BEEN DESIGNED FOR OUTDOOR USE

(DANGER OF STABILITY LOSS AND OVERTURNING)



NEXT TO AERIAL OBSTACLES (electric lines, protrusions, etc.)

(DANGER OF ELECTROCUTION AND IMPACT)

WITH EXCESSIVE CAPACITIES COMPARED TO ADMITTED LIMITS

(DANGER OF STABILITY LOSS AND OVERTURNING)

ON FLOORING WITH MINOR RESISTANCE OF THE WEIGHT OF THE MACHINE

(DANGER OF STABILITY LOSS AND OVERTURNING)

IN ALL CIRCUMSTANCES NOT EXPRESSLY INDICATED AMONG THE USE CONDITIONS INDICATED IN THIS MANUAL

(GENERAL DANGER)

ATTENTION

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

During the moving phase (on ground and at a height):

- ✓ 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 work platform;
- ✓ Ascertain overhead obstacles are not present along the trajectory, in vertical;
- ✓ Do not induce dangerous vibrations and/or oscillations such to entail stability loss of the machine and cause an eventual overturning.

ATTENTION

THE AREIAL PLATFORM IS FITTED WITH AN AUTOMATIC BASE LEVELLING CHECK SYSTEM. ABOVE THE MAXIMUM INCLINATION PROVIDED BY THE MANUFACTURER. WITH THE BASKET IN TRANSPORT POSITION, THE MACHINE CAN STILL MOVE WHEREAS, WITH THE CAGE LIFTED, EACH MOVEMENT IS PREVENTED, BESIDES CAGE DESCENT (PAY MAXIMUM ATTENTION DURING THE DESCENT PHASE).
WHEN THE MAXIMUM AMISSIBILE INCLINATION IS EXCEEDED IT IS SIGNALED BY A FIXED ACOUSTIC SIGNAL.

Prohibition signs:


Prohibition to overload the work platform 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 work platform 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 work platform when it is lifted


Prohibition to lift/lower the work platform without operator on board


Do not operate/move with the cage railing raised even partially and/or locking device not

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

Protection of the lower limbs

SLIP-PROOF SHOES

ATTENTION

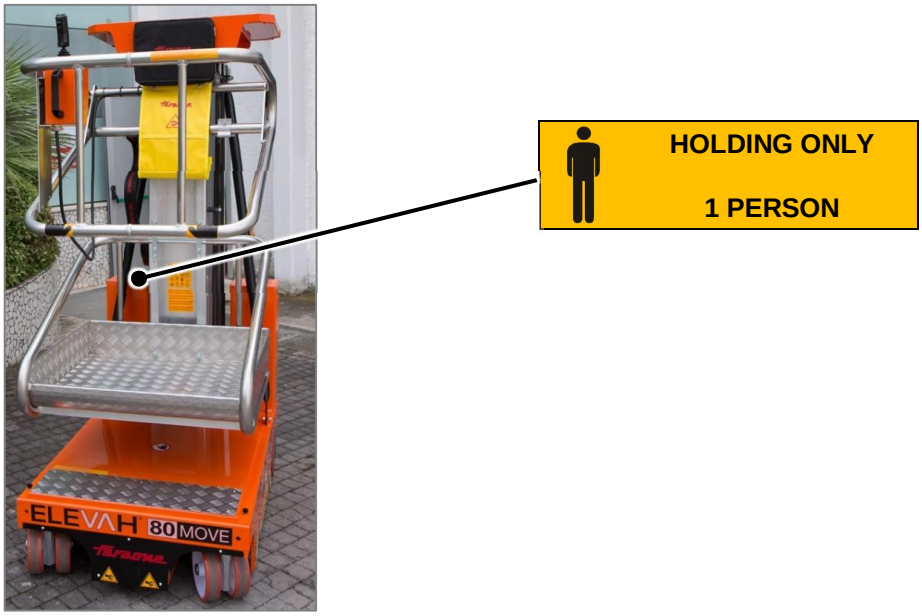
THE USE OF ANY OTHER SPECIFIC PERSONAL PROTECTIVE DEVICES MUST BE CHECKED BASED ON THE ASSESSMENT OF SPECIFIC RISKS, CARRIED OUT BY THE EMPLOYER

ATTENTION

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
FOR MACHINES SOLD IN ITALY

WITH THE REGARD TO THE ITALIAN LEGISLATION, THE 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 WORK PLATFORMS.
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 THE OPERATOR ARE REQUIRED TO OBSERVE THE CORRECT SAFETY PROCEDURES.

The ELEVAH 65-80 MOVE model lifting appliances are electric machines provided with an aerial work platform, 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 WORK PLATFORM.**

The main control station is located on the work platform. The operator can drive the machine and lift and lower the platform from the control console of the platform.
If the operator on the platform is unable to lower it, use the ground control station's commands when servicing the machine or in an emergency.
Vibrations generated by machines do not constitute any danger for the operator who is on the work platform.
The level of continuous sound pressure (A measurement) on the work platform 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 work platform controls.

- The voltage of the batteries must be sufficient to activate the machine.
- The main power switch on the work platform control station must be switched on.
- Both emergency stop switches, one located on the ground control station and the other on the control console of the work platform, must be in RESTORE position.

CHARGING THE BATTERY

The machine is equipped with a battery charger with a.c. voltage input/d.c. voltage output. The battery charger stops charging automatically when the batteries are fully charged.

ATTENTION

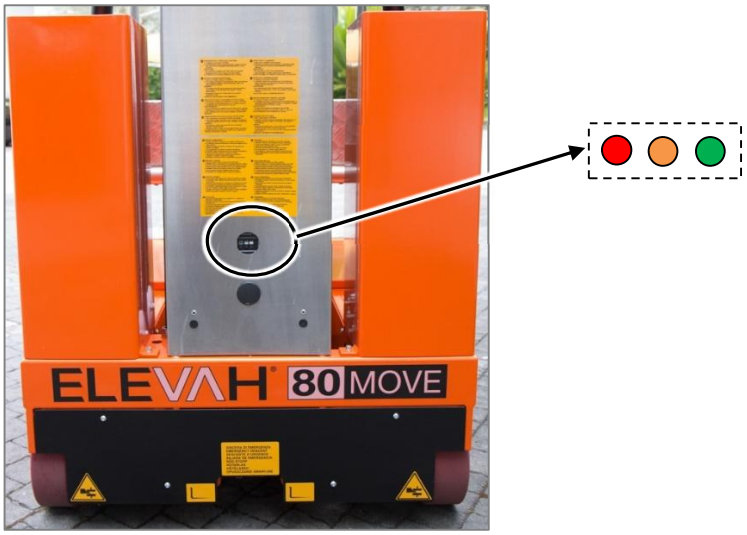
KEEP SPARKS, OPEN FLAMES OR LIT TOBACCO AWAY FROM THE BATTERIES. PROVIDE ADEQUATE VENTILATION DURING CHARGING. DO NOT CHARGE A FROZEN BATTERY.

NOTE: *when the battery charger is connected to an a.c. socket, the transmission function of the machine is deactivated.*

Battery charging procedure

1. Park the machine in a well-ventilated area, near an a.c. electric socket;
2. Switch the machine off and remove the key from the machine power switch;
3. Connect the battery charger to a correctly installed socket and earthed according to current regulations.

Battery charge status lights



The **RED LED**, when charging the battery, indicates the beginning of the charging cycle.
Charging finishes automatically without warning the operator, and is indicated by a **GREEN LED** coming on.
While using the machine, the battery status will switch from completely charged (*indicated by the green Led*), to the 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 open flames;
- ✓ It is recommended to avoid using any possible source of sparks near batteries charging.
- ✓ We recommend using anti-static clothing;
- ✓ Do not lift or tilt the batteries;
- ✓ Do not attempt to start the machine;

ATTENTION

IT IS RECOMMENDED NOT TO LET THE BATTERIES GO COMPLETELY FLAT.

ATTENTION

WHEN THE MACHINE IS PUT OUT OF SERVICE FOR A LONG PERIOD, THE BATTERIES MUST BE COMPLETELY AND EVENLY CHARGED AT LEAST ONCE A WEEK AND KEPT WITH THE PLUG DISCONNECTED TO AVOID THE SAME BATTERIES GOING FLAT.

GROUND CONTROL STATION

1. Emergency stop/switch-off button
2. Ascent/descent control of the work platform.

General information

Before actuating the machine from the ground control console, the following conditions of the controls must be satisfied:

- Work platform console - The main power switch must be set to ON.
- Platform console - The emergency stop/switch-off button must be in RESTORE position (POWER SUPPLY CONNECTED).
- Work platform console - The control enabling selector on the base must be in the corresponding position.
- Ground control station - 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.

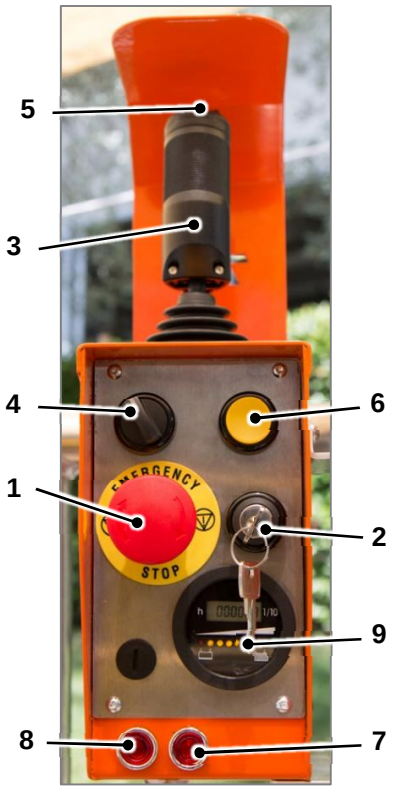
POWER SUPPLY CONNECTION

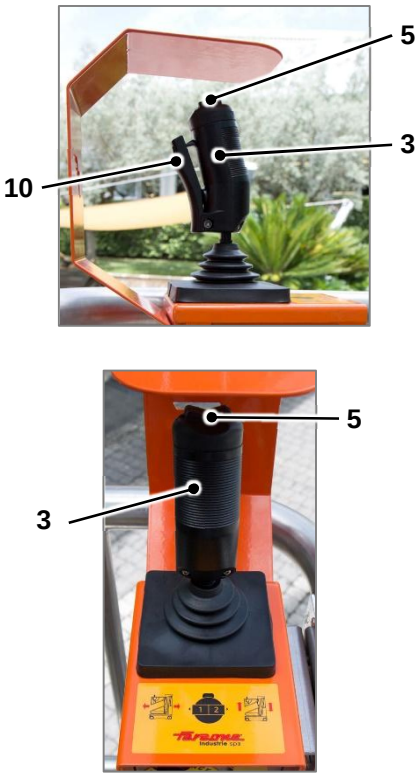
TURN CLOCKWISE AND RELEASE to restore the emergency stop.

Ascent/descent control switch

TURN the switch to the RIGHT to make the work platform DESCEND.
TURN the switch to the LEFT to make the work platform ASCEND.

CONTROL CONSOLE IN THE CAGE





1. Emergency stop/switch-off button
2. Master ON/OFF switch with removable key
3. Multi-purpose joystick control
4. Selector enabling base controls/controls in the cage
5. Cage transmission/lifting mode selector
6. Audible device button
7. Cage lifting mode enabling LED
8. Machine transmission mode enabling LED
9. Machine operation/battery charge hours display
10. Dead man enabling control

General information

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

- Ground control station - The Emergency stop/switch-off button must be in RESET position (POWER SUPPLY CONNECTED).
- Cage console - The main power switch with removable key must be set to ON.
- Cage console - The emergency stop/switch-off button must be in RESET position (POWER SUPPLY CONNECTED).

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).

Emergency stop/switch-off button

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

POWER SUPPLY DISCONNECTION

PUSH INWARDS to engage the emergency stop.

POWER SUPPLY CONNECTION

TURN CLOCKWISE AND RELEASE to reset the emergency stop.

Master ON/OFF switch with removable key

In order to prevent unauthorised personnel from using the machine, its master power supply switch is fitted with a removable key. Power the machine by setting the switch to ON and set to OFF to disconnect the main power supply.

ATTENTION

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

NOTE: *Remember to press and hold the suitable dead man button to activate joystick functions.*

Base controls/controls In the cage selector

CONTROLS IN CAGE mode

TURN the selector to the LEFT to enable the controls in the CAGE.

CONTROLS AT BASE mode

TURN the selector to the RIGHT to enable the controls at the BASE.

Cage run/lifting selector

RUN mode

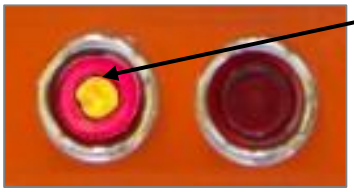
PRESS the selector to the LEFT to enable the machine RUN mode. When the function is activated, the corresponding LED will light up.

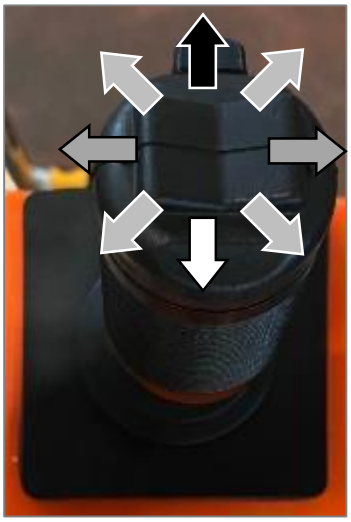
Cage LIFTING mode

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.

Transmission mode

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

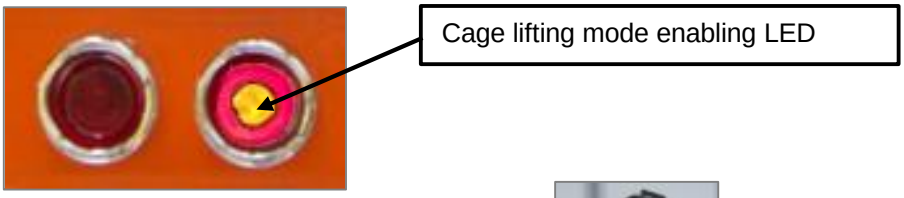


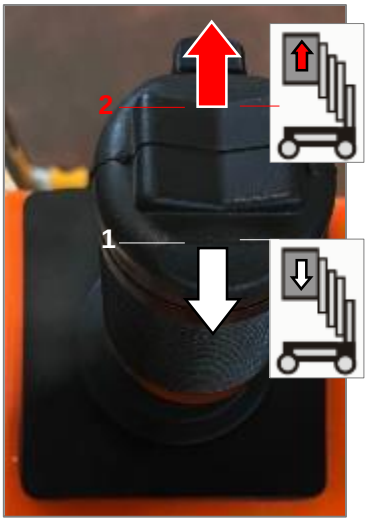


PRESS THE DEAD MAN BUTTON ON THE JOYSTICK, then move the joystick in the required direction.
The transmission power is applied proportionally to the shift of the joystick from the centre.

Lifting mode

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





PRESS THE DEAD MAN BUTTON ON THE JOYSTICK, then:

1. Move to LOWER the cage
2. Move to LIFT the cage

The lifting/lowering speed of the cage is applied in proportion to the movement of the joystick from the centre.

ATTENTION

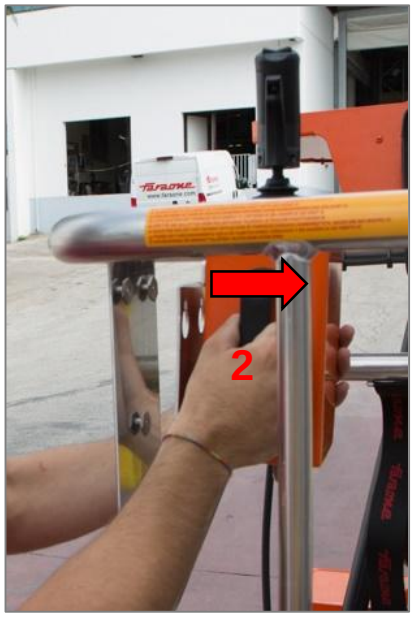
IF THE TILT ALARM IS TRIGGERED WHILE THE OPERATOR IS DRIVING WITH THE CAGE UP, LOWER THE CAGE ALL THE WAY DOWN AND MOVE ON TO A SOLID AND HORIZONTAL SURFACE.
BEFORE LOWERING THE CAGE MAKE SURE THAT THERE IS NO PERSONNEL IN THE AREA BELOW.

MACHINE MOVEMENT WITH THE CONSOLE REMOVED

It is possible to remove the console to facilitate loading and unloading operations of the aerial platform on a lift.
To move the machine with the console removed and the operator on foot, you must pay the utmost attention since the operator is very close to the machine.

To remove the console, proceed as follows:

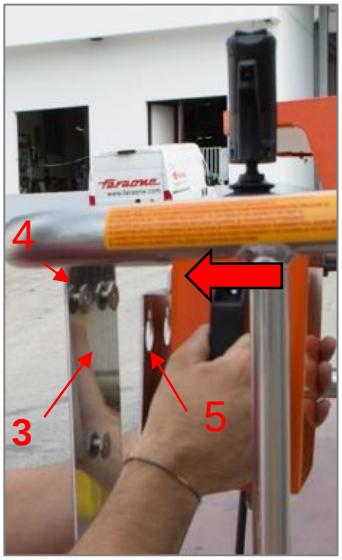
1. Move the control console upwards (1) gripping it by the relative handle and then move it away (2) from the machine's structure.



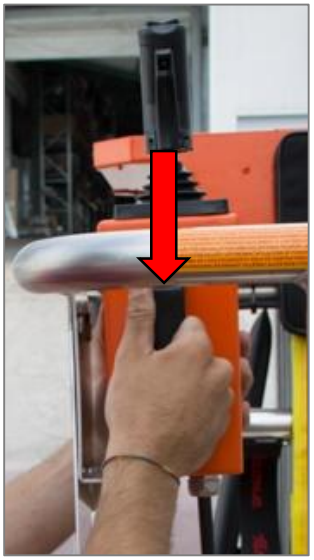
To put the console back into place, proceed as follows:

1. Insert the control console into the support provided on the machine (3), making the three pins (4) match with the three holes on the console (5);
2. Lower the console for it to couple to the support.

1



2



ATTENTION

THE CONTROL CONSOLE CAN ONLY BE REMOVED DURING THE MACHINE'S LOADING PHASE ONTO THE LIFT.
ANY OTHER USE WITH THE CONSOLE REMOVED IS STRICTLY FORBIDDEN.

ATTENTION

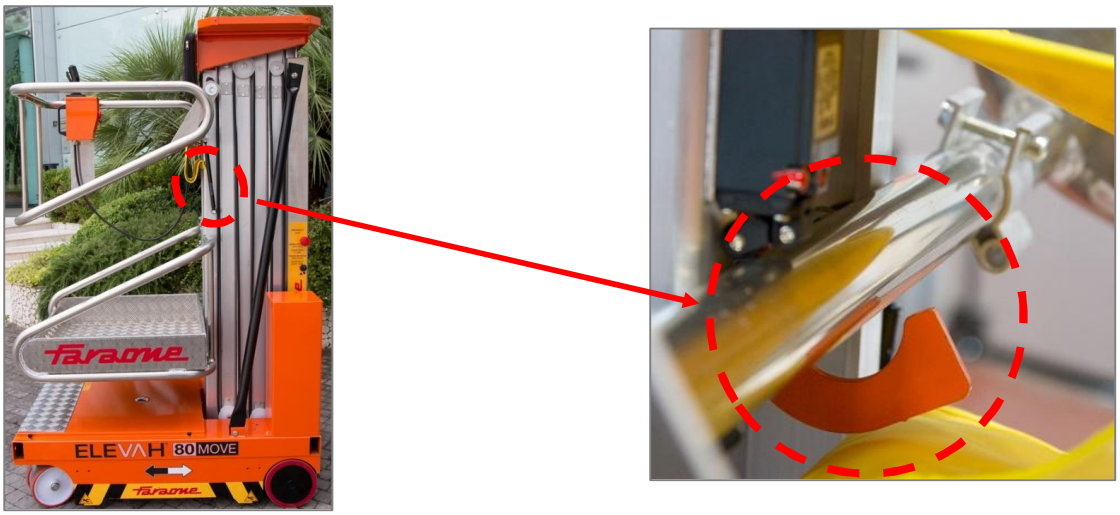
MOVE THE MACHINE AT VERY LOW SPEED.

ATTENTION

DURING THE MOVEMENT/LOADING PHASE OF THE MACHINE IN THE LIFT, THE OPERATOR MUST MANOEUVRE THE CONTROL CONSOLE BEING CAREFUL NOT TO REMAIN TRAPPED BETWEEN THE MACHINE AND THE WALL, ALWAYS LEAVING A FREE ESCAPE ROUTE.

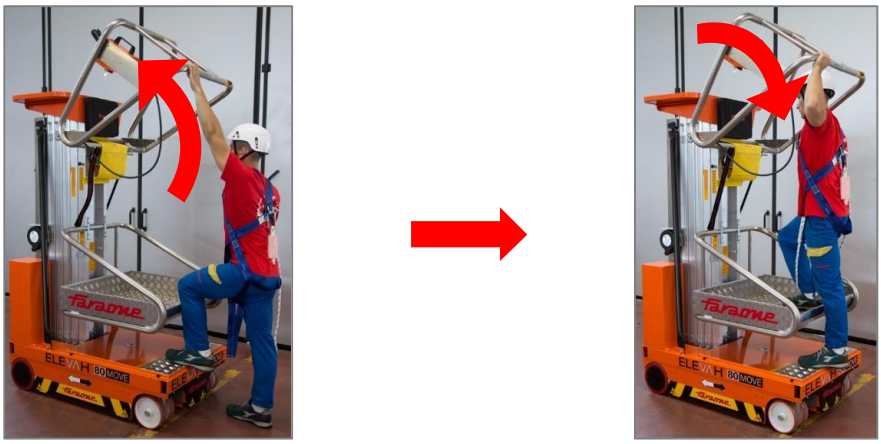
ACCESS TO CAGE

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.



When the cage is at home position (on the ground), the hook opens automatically in order to facilitate ascent/descent.

To access the cage, the operator must lift the railing with his hand.



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

ATTENTION

MAKE SURE THERE ARE NO OBSTACLES PREVENTING 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 CAGE'S RAILING OPENING LOCK/UNLOCK HOOK WHEN IT IS RAISED IN ORDER TO PREVENT THE RAILING FROM BEING OPENED BY ACCIDENT, THEREBY POSING A RISK OF FALLING FROM A HEIGHT

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

Figure 1

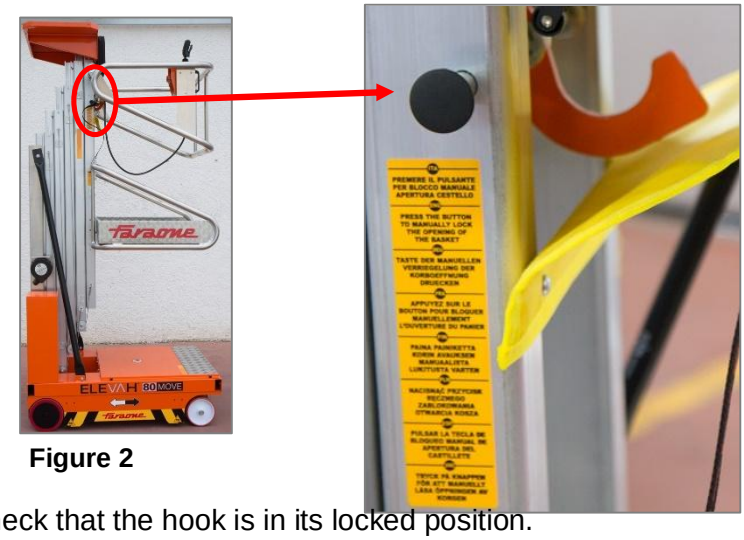


Figure 2

After having pressed the pin, always check that the hook is in its locked position.
After locking the railing manually, the operator must manually lower the locking hook to its stop in order to get out of the cage.

ATTENTION

ENSURE YOUR HANDS DO NOT GET TRAPPED WHEN CLOSING THE RAILING. PLACE THE HANDS ALONG THE AREAS MARKED WITH SPECIFIC STICKER

ATTENTION

DO NOT RAISE/LOWER THE CAGE IF THE CAGE'S RAILING 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 PLATFORM.
THIS VALUE CANNOT EXCEED 200 KG IN ANY CASE

PARKING THE MACHINE

1. Drive the machine in a well-protected and ventilated area.
2. Ensure the platform is completely lowered and turn the main power supply switch to OFF.

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

ATTENTION

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 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 picked up from the rear of the machine (marked with special stickers) in order to position it in a stable manner onto the forks (see picture below).

ATTENTION

ONLY LIFT THE MACHINE WITH THE CAGE COMPLETELY LOWERED.

SECTION 5. EMERGENCY PROCEDURES

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

EMERGENCY OPERATION

Operator unable to control the machine

CONDITIONS IN WHICH THE MACHINE OPERATOR IS IMMOBILISED, TRAPPED OR UNABLE TO ACTIVATE 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 FUNCTION CORRECTLY.
- In case of incorrect operation of the controls or interruption of the electric power supply, the emergency stop must be activated and, if necessary, a qualified operator must carry out the EMERGENCY DESCENT phases from the ground.

Proceed as follows:

1. Activate the emergency button to disconnect the power supply;
2. ATTENTION: ensure there are no persons within the action range of the machine;
3. Gradually loosen the knurled knob installed underneath the base carriage in correspondence of the hydraulic lifting cylinder to lower the operator platform (1);

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

ATTENTION

THE OPERATIONAL PHASES OF THE EMERGENCY DESCENT ARE REPORTED ON APPROPRIATE ADHESIVE NEAR THE EMERGENCY DESCENT CONTROL.

The work platform is locked in its overhead position

If the work platform blocks or jams in overhead equipment or structures, transfer the person present on the work platform to a safe place before freeing the machine.
Recovery equipment can be used to allow the occupants to climb down from the working platform.
To stabilise the machine movement use a crane or forklift.

REPORTING THE ACCIDENT

Faraone Industrie Spa must be immediately informed of any accidents to a Faraone product. Contact the factory by telephone and give all the necessary details, also in absence of injuries or evident damages to the property.

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 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/free 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 assembly and entrance doors**
Proper locking of the cage and entrance doors operating correctly;
g) **Control console in the cage**
Controls secured, legible signs, emergency stop switch in the reset position for operation and legible control signs;
h) **Ground control station**
Ascent/descent control switch operable, signs securely fastened and legible, operable emergency stop switch;
i) **Extensible structure unit**
Structure profiles, sliding inserts, chains, belts, sequential activation cables, pulleys able to turn freely;

ATTENTION

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

SECTION 7. ROUTINE MAINTENANCE

ATTENTION

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

ATTENTION

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

ATTENTION

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

MONTHLY MAINTENANCE

- ***Torque Reducer***
  Check the oil level and proper closing of the lubricant filler cap and drain plug of the Torque Reducer;

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 connections and make sure there are no leaks;***

- ***Torque Reducer***
  Clean the outside of the reducer carefully, to remove any filth built up over time which limits its heat dissipation capability.

- ***Checking the Battery***
  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 selection switch operable, 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 1000 h of work

- ***Torque Reducer***
  Check tightening of the screws.

MAINTENANCE EVERY SIX MONTHS

- ***Lubrication of moving parts and sliding wheels check***
  The extensions slide on runners fitted with nylon wheels. Four runners, two upper and two lower, are fitted for each pair of extensions. 3 wheels are positioned on each runner, for a total of 12 for each pair of extensions. On each runner, one of the 3 wheels turns on an adjustable axis. This allows the wheels to be adjusted when they are worn thus giving rise to possible play of the moving extendable structure parts.
  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.

- ***Transmission motor***
  Check the brushes for wear and replace them if required, and check the manifold.
  Refer to the instructions in the appropriate paragraph for information on checking and replacing the brushes;

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.

- ***Torque Reducer***
  Inspect the reducer and change the oil.
  Refer to the instructions in the relative paragraph for information on changing the oil of the reducer;

SECTION 8. MAINTENANCE OPERATING INSTRUCTIONS

LIFTING THE CAGE FOR MAINTENANCE

To perform maintenance below the cage, proceed as follows:

1. Put the “BASE/CAGE” controls selector in the cage control station on “BASE CONTROLS”;
2. Using the ground controls, put the cage at a height of about one metre and anchor it securely (for example, with a contrasting strut on the ground);
3. Use the suitable switch to disconnect the machine's power supply;
4. Open the protective cover of the battery compartment;
5. Perform the maintenance operations and close and lock the protective cover.
6. Remove the cage anchors, reconnect the power supply and lower the cage.

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.

CHANGING TORQUE REDUCER OIL

ATTENTION

PAY ATTENTION BECAUSE THE SURFACES ARE HOT DURING NORMAL OPERATION

Change the exhaust oil with the reducer still hot.
Before changing the lubricant, make sure that the product has been at a standstill for about 30 minutes, a sufficient amount of time for the oil temperature to drop to levels which are not hazardous for the operator.
Before introducing new oil, flush any particles inside the casing using the same type of oil.
You must only introduce the new oil when you are sure that there are no impurities.

Follow these 5 steps to change the oil properly:

1. Places a sufficiently spacious container underneath the drain plug.
2. Remove the filler cap and drain plug, let the lubricant flow out and wait as long as necessary for it to empty completely.
3. Replace the gaskets of the filler cap and drain plug and carefully clean the magnet, if any.
4. Screw the drain plug back on and fit the reducer in its final position.
5. Fill the reducer with new oil until it reaches the level indicated in the cap or the visual level and tighten the filler cap.

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.

TRANSMISSION MOTOR

Checking the condition of the motor left in the housing.

1. Remove the clamp from the manifold side support;
2. Use compressed air to remove carbon dust deposits on the internal surfaces of the brush side support;
3. Check the manifold, the length of the brushes and the smooth movement of the latter in their housings;
4. Using a 500-volt megohmmeter, measure the insulation resistance of the armature (terminals A1 - A2) and field (terminals D1 - D2) to the casing, which must be higher than 0.1 mΩ; if it is lower, lift the brushes and test the field and armature again separately to check whether one or both are damaged. In this case, remove the motor if the manifold requires maintenance and the brushes need to be replaced.

Checking the brushes

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

Dimension	Maximum length	Minimum length
13 x 9	25 mm	13.5 mm
16 x 9	20 mm	7 mm
20 x 10	22 mm	8 mm

When replacing the brushes, pay the utmost attention to the welds.

Checking the manifold

If the surface of the manifold bears signs of burns, reduction of the diameter in relation to the brushes or eccentricity, repeat turning and dressing of the surface and undercutting between the slats.

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

ATTENTION

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

ATTENTION

RESTORING THE IP RATING DEPENDS ON CORRECT POSITIONING OF THE O-RINGS AND SILICONE COATING OF THE TIE RODS. AFTER THE MAINTENANCE TECHNICIAN HAS CLOSED THE MOTOR, THEY ARE FULLY RESPONSIBLE FOR THE IP RATING AND THE INTEGRITY OF THE MOTOR.

ELECTROMAGNETIC BRAKE

Checking the electromagnet

If the brake, alternately energised and de-energised, does not release and lock the brake lining correctly, measure the winding resistance, which should be as follows:

	Ø80 Econ.	Ø 80	Ø 100	Ø124
12 Volt brakes		5 Ω	8.3 Ω	4.5 Ω
24 Volt brakes	70 Ω	25 Ω	33 Ω	20 Ω
36 Volt brakes		62 Ω	85 Ω	34 Ω
48 Volt brakes		99 Ω	127 Ω	78 Ω

Also check insulation to 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, completely loosen the three fixing screws and remove the electromagnet and check the lining disk.
Its thickness must be about 7 mm for the type with diameter of 84 mm.; 8 mm for the type with diameter of 104 mm; and 8.5 mm for the type with diameter of 124 mm.
If the thickness is, respectively, less than 5, 6 and 6.5 mm, it is advisable to replace the complete lining of the splined hub after having removed the Seeger ring or self-locking nut. Reassemble the new brake and proceed to calibrate the clearance of the mobile disc.

Calibrating the clearance of the mobile disc

Calibration should be carried out as described below when replacing the lining or the entire electromagnetic brake:

a. loosen the three hexagonal adjustment bushes
b. adjust the three fixing screws so as to obtain a clearance between 0.2 and 0.4 mm;
c. lock the three hexagonal adjustment bushes and check, with a thickness gauge, that the clearance is within the permitted limits.

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 work platform 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

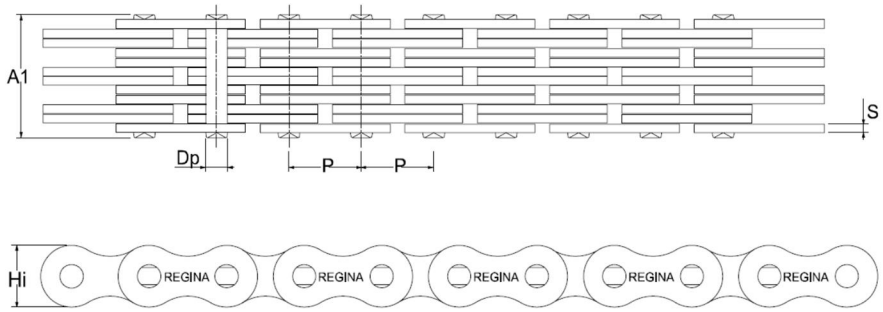
This problem usually occurs as a result of corrosion in the chain joints. Since the pins of a single chain are subject to the same load and corrosion conditions, one failure is usually followed by more. Experience has shown that this type of failure is not always easily recognised as there are no evident 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: AL544



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

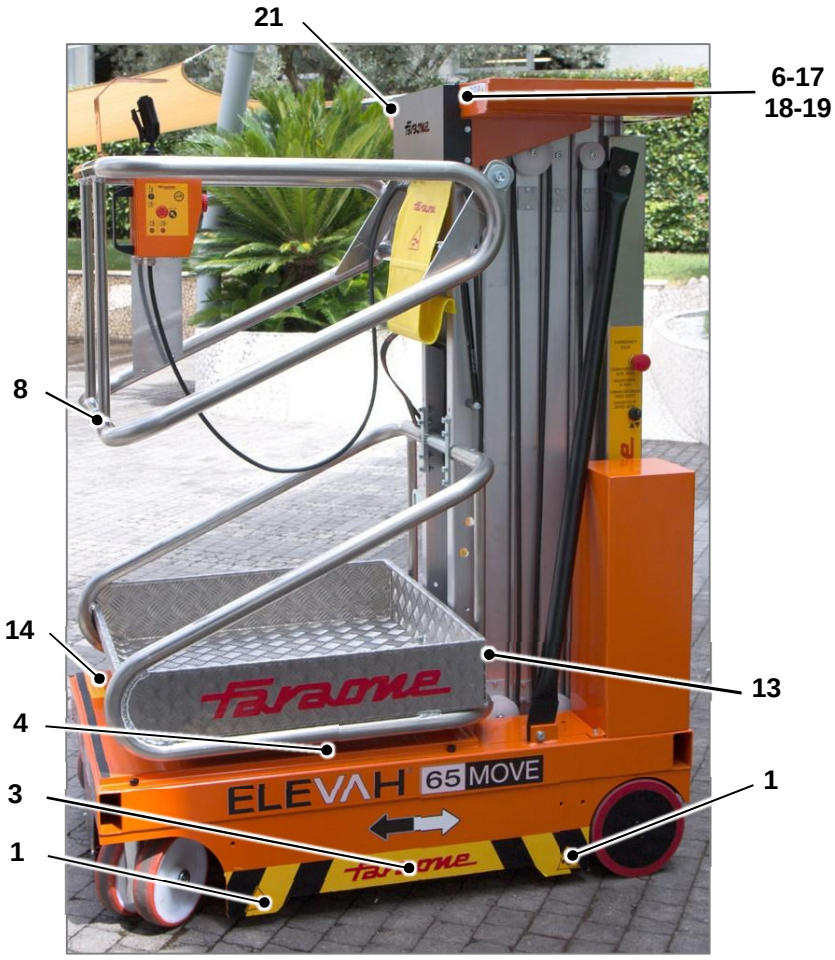
- ✓ ATTACHMENT 1 – Layout for the application of the stickers;
- ✓ ATTACHMENT 2 - Hydraulic layout;
- ✓ ATTACHMENT 3 – Electrical layout;
- ✓ ATTACHMENT 4 - Inspection certificate.

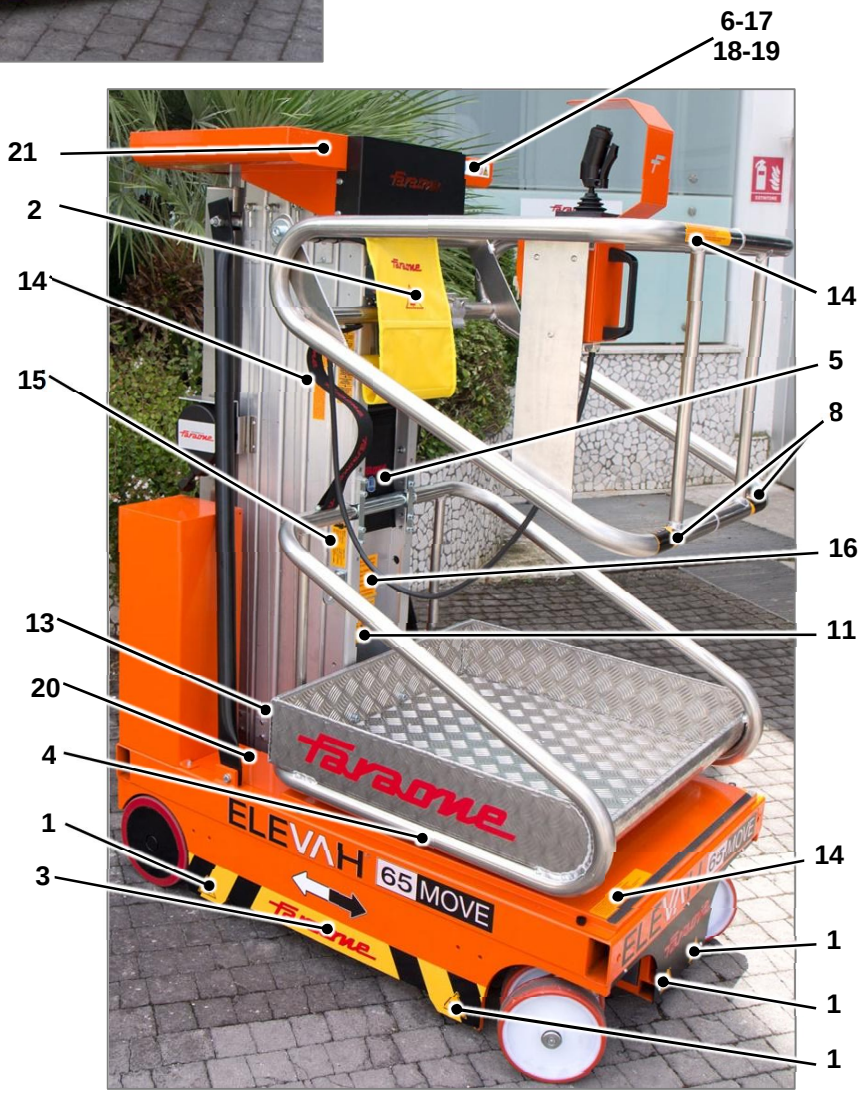
ATTENTION

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

ATTACHMENT 1 – Layout for the application of the stickers

Pos.	SYMBOL	DESCRIPTION	Pos.	SYMBOL	DESCRIPTION
1		DANGER SIGN CRUSHING AND TRAPPING OF THE LOWER LIMBS	2		DANGER SIGN CRUSHING AND TRAPPING OF THE UPPER LIMBS
3		DANGER SIGN POSSIBILITY OF IMPACT	4		PROHIBITION SIGN FOR UNAUTHORISED PERSONNEL TO USE THE MACHINERY
5		OBLIGATION SIGN CONSULT THE OPERATING MANUAL	6		OBLIGATION SIGN WEAR NON-SLIP SHOES
7		"LIFTING POINTS WITH FORKS"	8		INDICATION Cage opening/closing coupling point
9	INDICATION	"EMERGENCY DESCENT"	10	INDICATION	"EMERGENCY DESCENT PROCEDURE"
11	INDICATION	"DANGERS AND PROHIBITIONS IN USING THE PLATFORM"	12	INDICATION	"BATTERY CHARGE PROCEDURE"
13	 Max 200 kg	INDICATION MAXIMUM NUMBER OF PERSONS AND LOAD ALLOWED INSIDE THE BASKET	14	INDICATION	"INTERNAL USE AND IN THE ABSENCE OF WIND"
15	INDICATION	"HOLDING ONLY 1 PERSON"	16	INDICATION	"USE IN CONTACT WITH LIVE COMPONENTS IS FORBIDDEN"
17		PROHIBITION SIGN TO REMOVE THE SAFETY PROTECTIONS AND DEVICES	18		DANGER SIGN DANGER FALLING OBJECTS FROM ABOVE
19		OBLIGATION SIGN REFER TO THE RISK ASSESSMENT FOR THE USE OF SPECIFIC DPI	20	INDICATION	CE PLATE
21	INDICATION	"MAX 20 KG"			

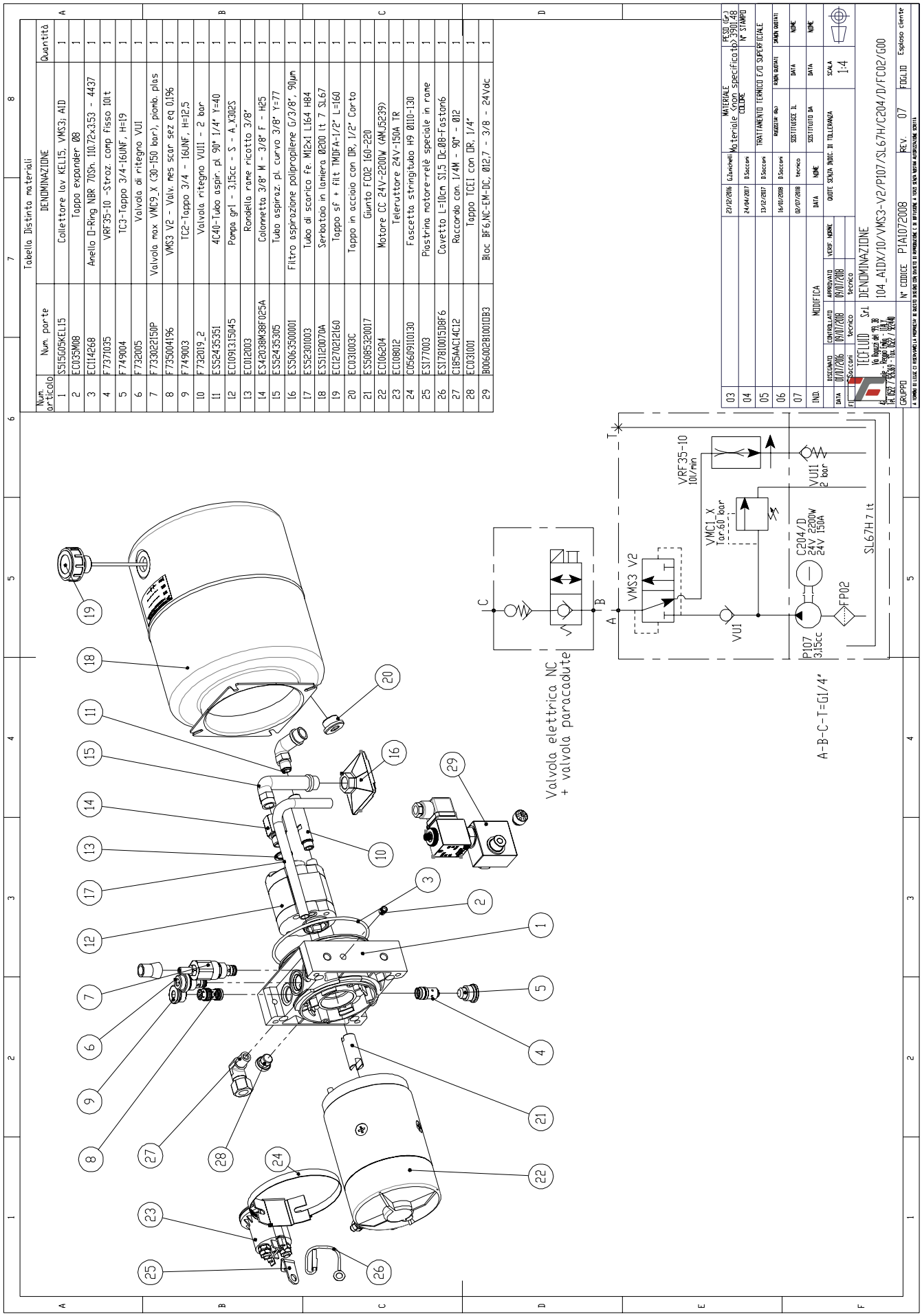

21
6-17
18-19
8
14
13
4
3
1
1
ELEVAH 65 MOVE


6-17
18-19
21
2
14
15
14
5
8
16
13
11
20
4
1
3
14
1
1
1
ELEVAH 65 MOVE


6-17
18-19
21
14
2
5
8
8
16
11
4
14
1
1
ELEVAH 65 MOVE

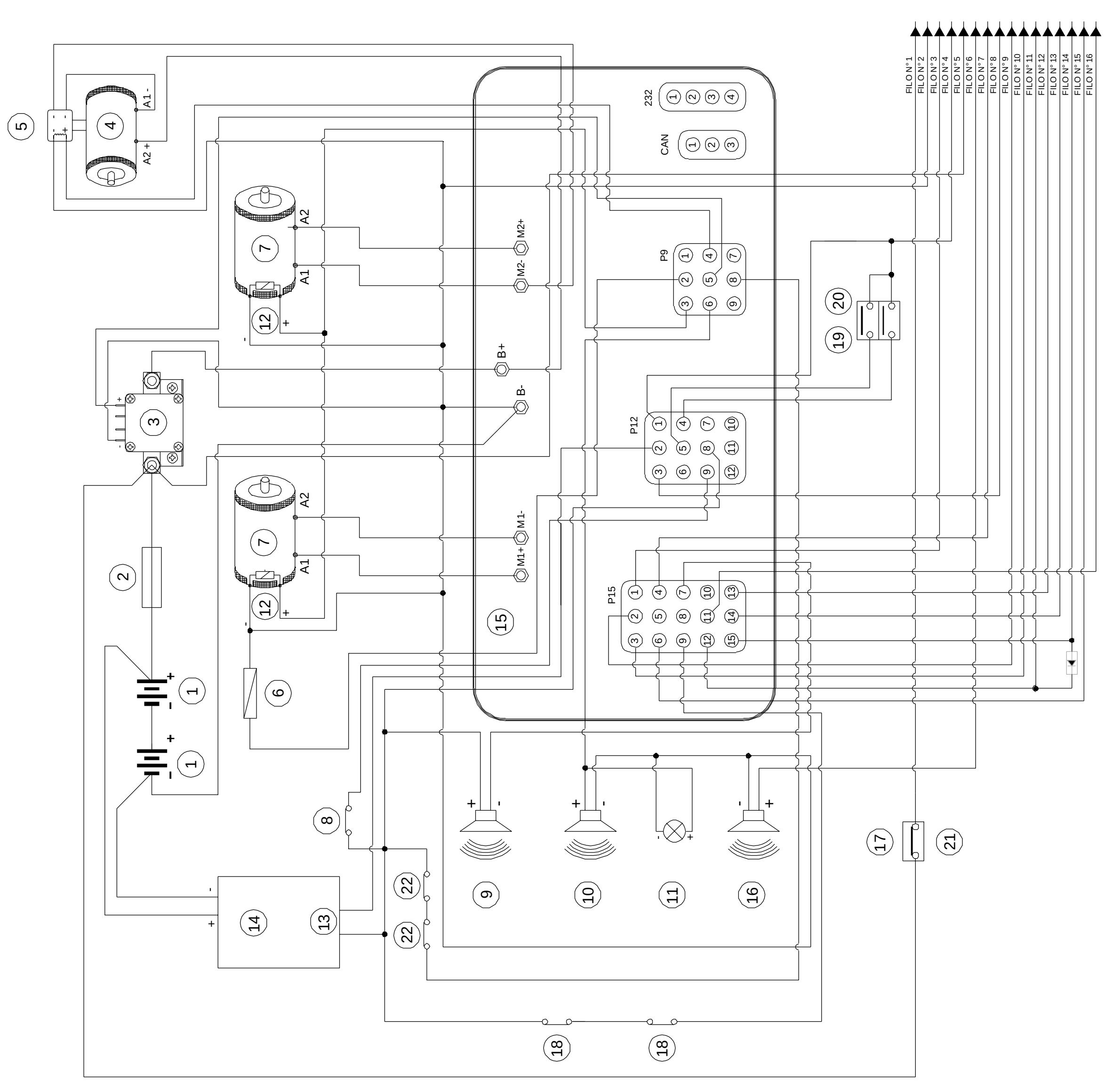

2
8
12
13
10
9
7
3
1
7
1
ELEVAH 65 MOVE

ATTACHMENT 2 - Fluid power layout



ATTACHMENT 3 - Electrical layout

Art. N°	Descrizione:	Quantità:
1	Batteria 12V - 100Ah	2
2	Fusibile 80 Ah	1
3	Teleruttore di linea	1
4	Motore centralina oleodinamica 24V - 2000W	1
5	Teleruttore centralina oleodinamica 24V - 80Ah	1
6	Elettrovalvola discesa 24V	1
7	Motoruota trazione 24V - 500W	2
8	Micro Lepre - Tartaruga Pizzato FM502	1
9	Buzzer di allarme Pizzato 21S6A1CV1B	1
10	Buzzer di movimento Pizzato 21S6A1PV1B	1
11	Lampeggiatore 24V	1
12	Elettrofreno 24V	2
13	Relè caricabatterie integrato	1
14	Carica batterie 24V-50/60 Hz. - 10A	1
15	Modulo TS100	1
16	Clacson 24V	1
17	Fungo di emergenza Pizzato 4PERZ4531	1
18	Termico motore trazione	1
19	Selettore salita - discesa	1
20	Contatto NO Pizzato E2CP10G2V1	2
21	Contatto NC Pizzato E2CPO1G2V1	1
22	Micro ruote girevoli	2



SCHEMA ELETTRICO ELEVAH65/80 MOVE GROUND

SCALA 1:10

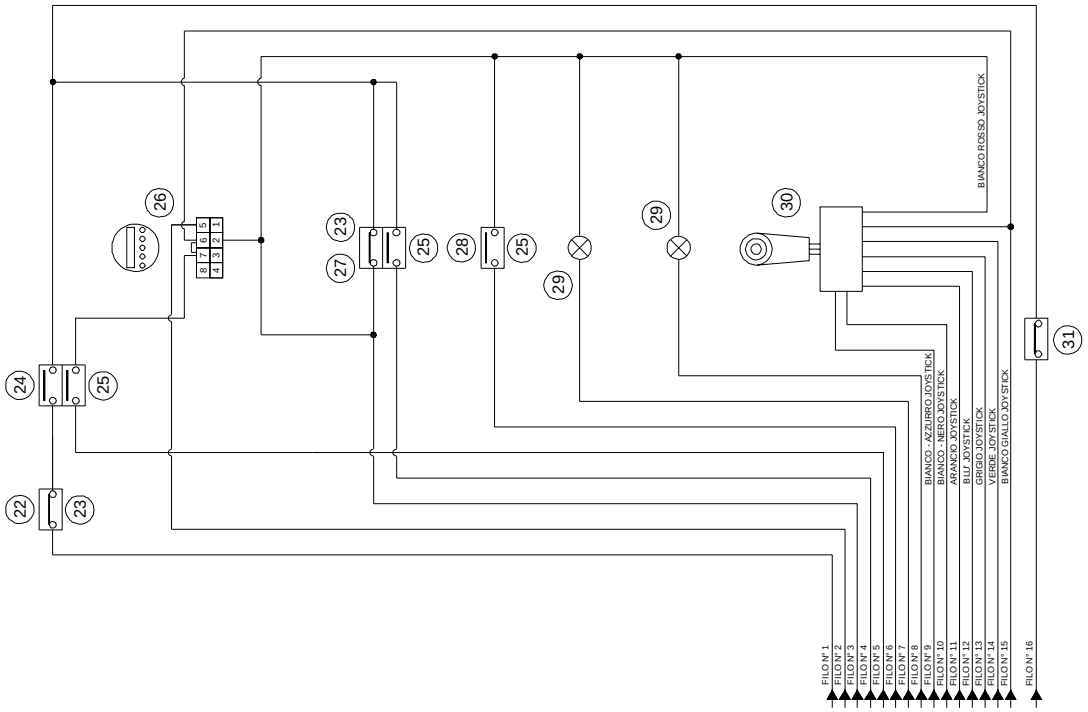
REV 006

DATA:01.09.2019

DIS.

IMA SPA
Tortoreto (TE) Italy
tel+390861772221
fax+390861772222
www.faraone.com
info@faraone.com

Art. N°	Descrizione:	Quantità:
22	Fungo di emergenza Pizzato 4PERZ4531	1
23	Contatto NC Pizzato E2CPO1G2V1	2
24	Selettore a chiave Pizzato 4SC2AVA11AA	1
25	Contatto NO Pizzato E2CP10G2V1	4
26	Indicatore e contaore batterie UB	1
27	Selettore Pizzato 4SE12AVA11AB	1
28	Pulsante clacson Pizzato 4PU2S5210	1
29	Spia rossa 24V S.2233.R.24 Salita/Discesa	1
29	Spia rossa 24V S.2233.R.24 Trazione	1
30	Joystick 57400214	1
31	Micro apertura cestello Pizzato FM502	1



SCALA 1:10

SCHEMA ELETTRICO ELEVAH65/80 MOVE PLATFORM

REV. 005

DATA 01.09.2019

DIS.

IMA SPA
Tortorolo (IT), Italy
tel.+390881772221
fax+390881772222
www.faraone.com
info@faraone.com

ATTACHMENT 4 - Inspection certificate

AERIAL PLATFORM

☐ ELEVAH 65 MOVE
☐ ELEVAH 80 MOVE

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 5 – Declaration of conformity

Faraone Industrie spa

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)

Faraone Industrie spa
C.da Salino - Via San Giovanni, 20
64018 TORTORETO (Te) - Tel. 0861.77221
Fax 0861.772222 - P. IVA 00732060678

SECTION 10. MAINTENANCE LOGBOOK

MAINTENANCE

OPERATOR: _____

DATE: _____

Monthly	DONE ✓	DONE ✗
Torque Reducer: Check oil level and proper tightening of caps		

Quarterly

Perform “MONTHLY MAINTENANCE”		
Make sure there is no clearance, no mechanical parts improperly secured and/or bent and no damaged welds on parts/components		
Check the integrity of the structural profiles		
Check the emergency descent valve for proper operation		
Check the hydraulic oil level		
Check the hydraulic piping and make sure there are no oil leaks		
Torque Reducer: External cleaning		
Battery Inspection		
Check the cage and entrance doors		
Check the controls		
Check the lifting chains		
Check the wheels for wear		

Every 1000 hrs of work

Torque Reducer: Check tightening of the screws.		

Every six months

Perform “MONTHLY AND QUARTERLY MAINTENANCE”		
Lubrication of moving parts		
Checking sliding wheels		
Transmission motor: Check the brushes and manifold for wear.		

Every two years

Perform “MONTHLY, QUARTERLY AND SIX-MONTHLY MAINTENANCE”		
Hydraulic oil change		
Torque Reducer: Inspection and oil change		

Date: _____ Signature: _____

NOTES

MAINTENANCE

OPERATOR: _____

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OPERATOR: _____

DATE: _____

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Date: _____ Signature: _____

NOTES

NOTES:

Faraone Industrie Spa
Contrada Salino – Via San Giovanni, 20
64018, Tortoreto (TE) – ITALY
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info@faraone.com