

# **FARAONE**<sup>®</sup>

Industrie spa



CE

## **STOCK PICKER**

- ELEVAH 40 MOVE PICKING**
- ELEVAH 40 B PICKING**

### **USE AND MAINTENANCE INSTRUCTIONS**

**Translation of the original instructions**



**SECTION 0. INTRODUCTION**

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## ENGLISH

**PREMISE**

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.

- **Stock picker:** Machine designed for picking / storage / handling of all types of goods, driven by an operator placed on the elevating operator position simultaneously to the load-handling device.
- **Basket:** A position from which the operator is able to control all driving positions and handle the load.
- **Loading platform:** Platform from where to load goods to carry, lift, stack or arrange on shelving.
- **Extending structure:** A structure connected to the frame that supports the basket and allows the basket to move to the required position.
- **Frame:** Machine Base. It may be pushed-around or self-propelled.

**TECHNICAL SUPPORT - 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**

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

**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 knowledge

- 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 hazard 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 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.

### Machine inspection

- Use the machine only after having carried out the inspections and functional checks. For further instructions, refer to *Section 3* of this manual;
- Operate the machine only after having carried out all assistance and/or maintenance 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 building up 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**

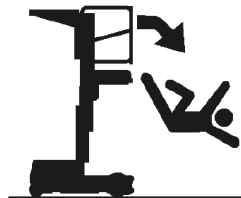
**ANY AMENDMENTS OR ALTERATIONS TO THE MACHINE MAY ONLY BE APPLIED EXCLUSIVELY WITH PRIOR WRITTEN AUTHORISATION FROM THE PRODUCER.**

## OPERATION

### General information

- A self-propelled Stock Picker is a machine designed exclusively to carry, lift, stack or arrange loads on shelving, controlled by an operator stationed in the driver's seat, which can be raised at the same time as the load handling device.
- 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 any people on the work platform, allow personnel to operate the machine from the ground only in the event of an emergency.
- Before leaving the machine, completely lower the extensible structure and completely power it off.
- *(In case of a battery powered machine)* Charge batteries in a well-ventilated area.

#### Risk of falls



- Prior to using the machine, ensure all railings and gates are fastened 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 cage to increase the range of action.
- Do not use the extension unit to climb on or off the cage.
- Pay maximum attention when entering or exiting the cage. Ensure the extending structure is completely lowered. Face the machine when entering or exiting the cage. 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.

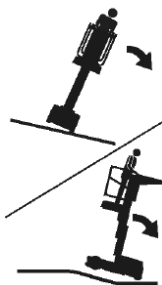
#### Danger of electrocution



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 verify the work area surface. While driving, do not exceed the allowed transversal and longitudinal slopes;
- Do not lift the basket or drive the machine with the basket raised (*on a machine with a self-propeller*) on a slope or uneven or soft surface;
- Before driving the machine on floors, bridges, lorries and other surfaces, check their maximum capacity;
- Do not exceed the maximum capacity of the machine. Evenly distribute the loads on the loading 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 using the machine as a crane. Do not tie the machine to any adjacent structure;
- Do not increase the dimension of the basket or the loading platform with unauthorised extensions;
- If the extending structure or the basket get stuck so that one or more wheels are lifted from the ground, the operator must be made to get off the basket before attempting to release the machine. Use a crane, forklift or other adequate equipment to stabilise the machine and have personnel climb down from the basket;
- (*For machine without self-propeller*) Do not move the machine with the stabilisers engaged (*if present*) or with the extending structure raised. Before moving the machine, completely lower the extending structure.

### Crushing and impact hazard



- When using the machine or lifting or lowering the basket, check the distances above, at the sides and below the basket;
- Do not lean over the rails of the basket when the machine is running;
- Always pay the utmost attention to prevent the operational controls and people in the basket from being hit or hindered by any obstacles;
- Ensure the operators of other machines at a height or at ground level are informed of the presence of the machine;
- Warn personnel not to work, stand or walk underneath the lifted basket;
- (*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 2 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 can pose a risk 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 basket while towing, lifting and transporting;
- Only tow the machine in case of emergency, faults, a power-cut or to load/unload it;
- Before towing, lifting and transporting, make sure the basket 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 STOCK PICKER ELEVAH 40 MOVE PICKING / B PICKING IS A MACHINE DRIVEN BY AN OPERATOR PLACED ON THE ELEVATING OPERATOR POSITION SIMULTANEOUSLY TO THE LOAD-HANDLING DEVICE.**

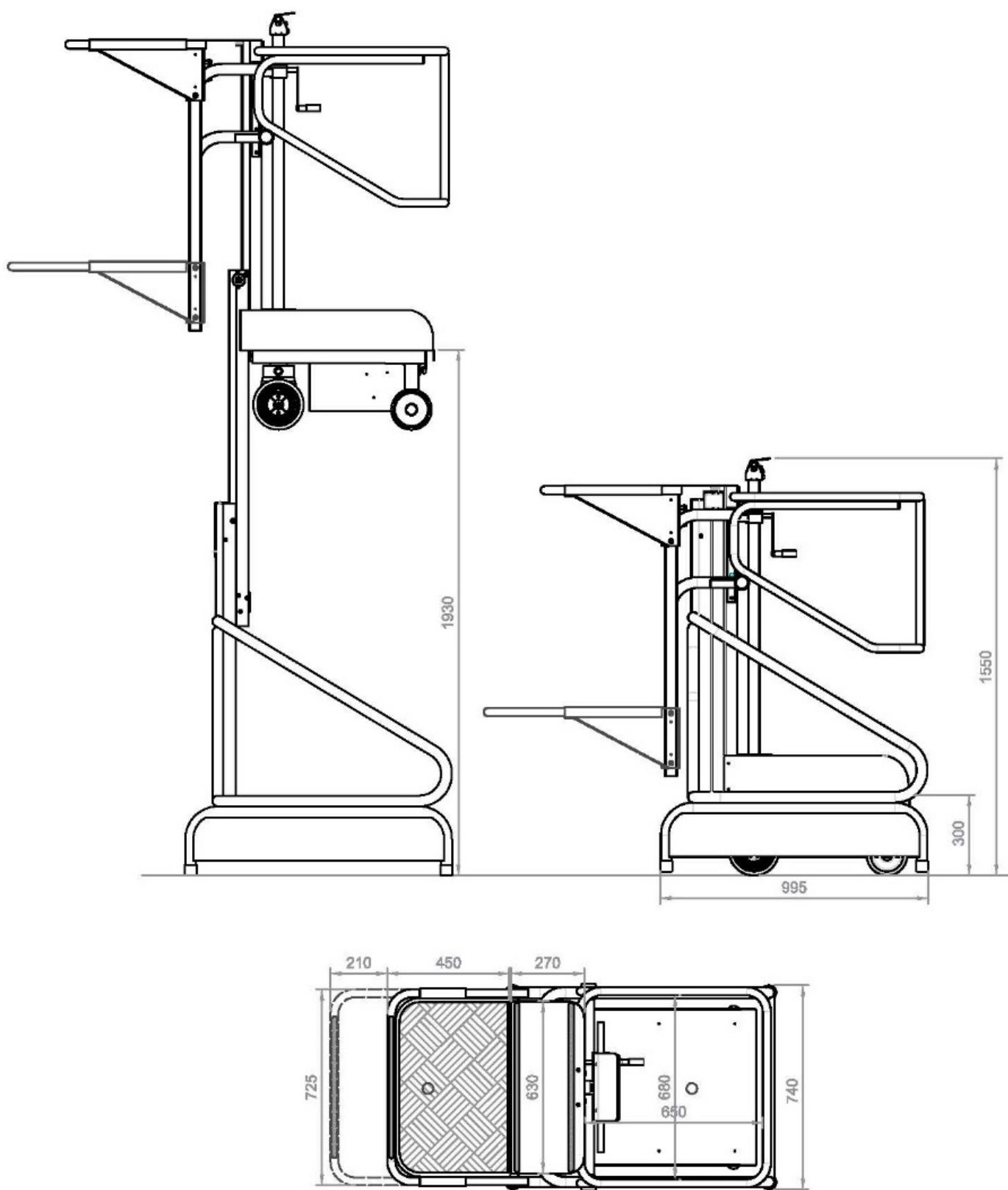
**THE STOCK PICKER IS DESIGNED TO WORK INDOOR ON PREPARED, HORIZONTAL AND SMOOTH GROUNDS.**

**FURTHERMORE, IT CAN ALSO BE USED OUTDOORS IN THE TOTAL ABSENCE OF WIND AND ATMOSPHERIC PRECIPITATIONS.**

**THE STOCK PICKER MUST ONLY BE USED FOR THE PURPOSE IT WAS DESIGNED FOR. ANY OTHER USE SHALL BE CONSIDERED INAPPROPRIATE.**

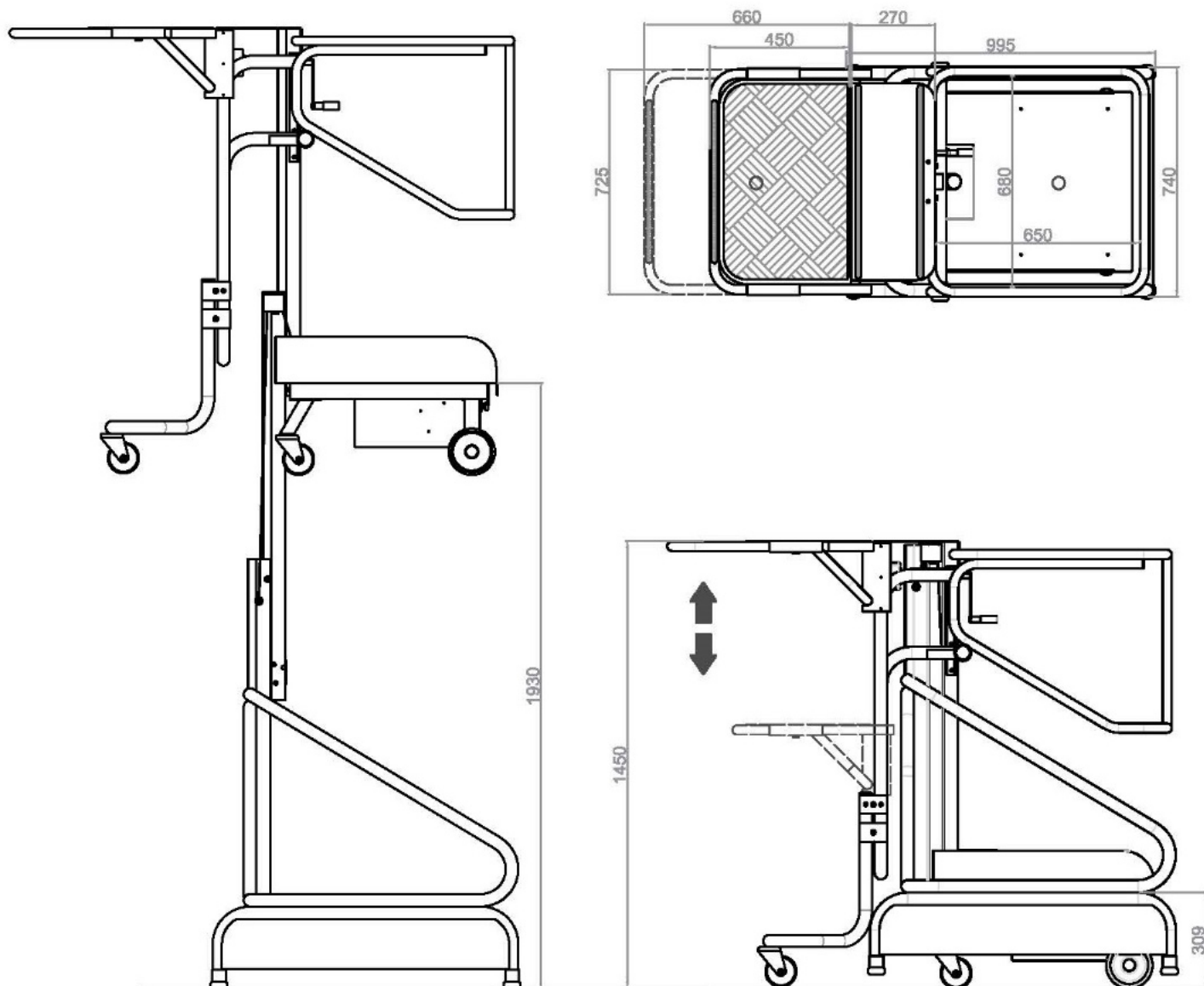
**OVERALL DIMENSIONS**

**ELEVAH 40 MOVE PICKING**



Measurements expressed in mm

**ELEVAH 40 B PICKING**



Measurements expressed in mm

**GENERAL TECHNICAL DATA**

<b>ELEVAH 40 MOVE PICKING MODEL GENERAL TECHNICAL DATA</b>	<b>Value</b>
Weight of the machine (overall):	200 kg
Machine height (in transport position):	155 cm
Maximum resting force on the ground (per wheel/stabiliser (*)):	122 daN
Machine base overall dimensions without stabilisers:	99.5 cm x 74 cm
Machine base overall dimensions with stabilisers:	N.A.
Maximum hydraulic system pressure:	~ 60 bar
Required amount of oil for the hydraulic system:	~ 1.5 Litres
Power supply	2 Batteries AGM 12V 45 Ah
Operator in the basket:	1
Maximum capacity of the basket and the loading platform:	150 kg
Maximum capacity of the loading platform	40 kg
Maximum basket height (from the ground to the floor of the basket):	1.93 m
Maximum basket height with self-propeller (from the ground to the floor of the basket):	N.A.
Maximum dimensions of the loading platform (min/max):	~ 45/66 cm x 72,5 cm
Internal dimensions of the basket:	~ 68 cm x 65 cm
Max shifting speed in transport position:	1.3 m/s
Maximum self-propelled movement speed at a height:	N.A.
Maximum basket rising speed:	0.08 m/s
Maximum basket descending speed:	0.1 m/s
Maximum longitudinal / transversal tilt in the transport position:	15%
Maximum longitudinal / transversal tilt in the raised position:	"Levelled" base

\* Maximum force per stabiliser considering that 70% of the weight of the machine plus the maximum load inside the basket are entirely distributed on one side only of the platform (entirely asymmetrical load)

<b>ELEVAH 40 B PICKING MODEL GENERAL TECHNICAL DATA</b>	<b>Value</b>
Weight of the machine (overall): <ul style="list-style-type: none"> <li>• Standard Battery</li> <li>• Optional Battery</li> </ul>	185 kg 190 kg
Machine height (in transport position):	145 cm
Maximum resting force on the ground (per wheel/stabiliser (*)):	110 daN
Machine base overall dimensions without stabilisers:	99.5 cm x 74 cm
Machine base overall dimensions with stabilisers:	N.A.
Maximum hydraulic system pressure:	~ 60 bar
Required amount of oil for the hydraulic system:	~ 1.5 Litres
Power supply <ul style="list-style-type: none"> <li>• Standard Battery</li> <li>• Optional Battery</li> </ul>	2 Batteries AGM 12V 35 Ah 2 Batteries AGM 12V 45 Ah
Operator in the basket:	1
Maximum capacity of the basket and the loading platform:	150 kg
Maximum capacity of the loading platform	40 kg
Maximum basket height (from the ground to the floor of the basket):	1.93 m
Maximum basket height with self-propeller (from the ground to the floor of the basket):	N.A.
Maximum dimensions of the loading platform (min/max):	~ 45/66 cm x 72,5 cm
Internal dimensions of the basket:	~ 68 cm x 65 cm
Max shifting speed in transport position:	N.A.
Maximum self-propelled movement speed at a height:	N.A.
Maximum basket rising speed:	0.08 m/s
Maximum basket descending speed:	0.1 m/s
Maximum longitudinal / transversal tilt in the transport position:	15%
Maximum longitudinal / transversal tilt in the raised position:	“Levelled” base

\* Maximum force per stabiliser considering that 70% of the weight of the machine plus the maximum load inside the basket are entirely distributed on one side only of the platform (entirely asymmetrical load)

**BASIC CONSTRUCTIVE DATA**

**MACHINE FRAME:** The frame of the machine (called base) is made completely of aluminium profiles with rectangular sections. All essential components for normal machine operation in stable conditions are installed on the frame.

**EXTENDABLE 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 profiles is implemented by means of belt of textile fibres.

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.

**BASKET AND LOADING PLATFORM:** The basket and loading platform are built entirely of extruded aluminium profiles. The base floors are built with a non-slip, chequered, aluminium sheet.

**EXPOSURE TO VIBRATION:** The lifter does not produce vibrations that pose a risk to the health of the operators. The weighted acceleration to which the entire body is subjected to is less than  $0.5 \text{ m/s}^2$

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

**ATTENTION**

**THE STOCK PICKER ELEVAH 40 MOVE PICKING / B PICKING HAS BEEN INSPECTED BY THE MANUFACTURER FOR THE PURPOSE OF CALCULATING THE MAXIMUM ADMISSIBLE TRANSVERSE AND LONGITUDINAL ANGLES.**

**SECTION 3. PREPARATION AND INSPECTION****PERSONNEL TRAINING*****Operator training***

The machine is only used by trained personnel. Operator training must include the following:

- Use and limits of the machine's controls in emergency and operation controls and of the safety systems;
- Signs/decals for controls, instructions and warnings on the machine;
- Regulations defined by the employer and government regulations;
- Use of the approved fall protection device (if required);
- Sufficient knowledge of the mechanical operation of the machine to permit recognising a fault;
- Safe methods for using the machine in presence of overhead obstacles, other moving equipment and obstacles, hollows, holes and slopes;
- Methods to prevent dangers due to unprotected electric conductors;
- Requirements of a particular job or particular application of the machine.

***Training supervision***

Training must be carried out under the supervision of a skilled person, in an open space 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 skilled personnel for training both at the time of delivery of the first units and later, if required by the user or personnel.*



**DAILY FUNCTIONAL TEST**

Upon completing the "DAILY INSPECTION" (section n°6), perform a functional test of all systems in an area free from obstacles either high or 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. From the ground controls (if present)**

- a. Lift and lower the basket checking lifting and lowering happen regularly;
- b. Ensure all machine functions are disabled when operating (pressing) the emergency stop button;
- c. Check the correct operation of the manual emergency descent valve.

**2. From the control console of the basket**

- a. Lift and lower the basket checking lifting and lowering happen regularly;
- b. Activate all functions and check the correct operation of all end run switches, main and activation switches:
  - **Machine brakes (on machine with self-propeller)** – Drive the machine on a slope (not exceeding the nominal operational capacity on a slope) and stop it to ensure the brakes hold it;
  - **Inclination alarm limit switch (on machine with self-propeller from above)** – With the basket 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 basket makes the machine signal an inclination that exceeds the maximum allowed;
  - **Transmission speed reduction limit switch (on machine with self-propeller from above)** – When the basket is lifted, the transmission speed is reduced compared to the speed with the basket lowered;
- c. Ensure all machine functions are disabled when operating (pressing) the emergency stop button;
- d. Make sure the loading platform is working correctly. Make sure that it travels smoothly without any jerky movements, and that its up/down movement is not obstructed. Make sure all its parts are intact.

**SAFETY WARNINGS FOR OPERATORS**

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



**OUTDOORS IN PRESENCE OF WIND**  
**(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 SPECIFICALLY 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:

- ✓ 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 position inside the basket;
- ✓ Check the structural condition and cleanliness of the surfaces on which the machine is used (make sure the surface is suitable for the weight of the machine in work conditions).

During ascent and descent:

- ✓ Comply with the maximum capacity weights allowed in the basket;
- ✓ Make sure there are no overhead upright obstacles along the trajectory;
- ✓ Do not cause dangerous vibrations and/or oscillations that would result in loss of machine stability and possible tipping over.

While loading the materials:

- ✓ Make sure the weight of the material to be loaded does not exceed the maximum capacity of the loading platform;
- ✓ Set the load evenly on the loading platform so that the centre of gravity of the load always falls within the surface;
- ✓ Firmly secure the load before moving the loading platform, the basket or the machine.



**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.**

**WHEN USING THE MACHINE WITH THE BASE NOT COMPLETELY LEVEL, AVOID LIFTING THE BASKET TO PREVENT THE MACHINE FROM TIPPING OVER.**















NOTE: The level bubbles are at the same position for both machine models



**ATTENTION**

**IT IS STRICTLY FORBIDDEN TO TRY TO LEVEL THE MACHINE BY INSERTING ANY TYPE OF SHIM UNDER THE FRAME**

**Prohibition signs:**

-  Prohibition to overload the machine beyond the indicated limits
-  Prohibition to use the machine as an aerial platform to carry out works from heights
-  Prohibition to remove or tamper with the machine's stability devices (sensors, ballasts, etc.)
-  Prohibition to remove or tamper with the machine's safety and protection devices
-  Prohibition to climb on or off the basket in places other than the provided gate
-  Prohibition to increase outreach or work height of the machine using additional equipment (for example, ladders)
-  Prohibition to cause oscillations on the machine so as not to destabilise it
-  Prohibition to install any additional device that increases the wind load on the machine (for example, warning signs)
-  Prohibition to come into contact with live electrical conductors
-  Prohibition to climb on/off the basket when elevated
-  Prohibition to lift/lower the basket without operator on board
-  Do not operate/move with the cage railing raised even partially

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**



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

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

Stock picker models ELEVAH 40 MOVE PICKING / B PICKING are electric machines equipped with a basket assembled onto a lifting mechanism with aluminium uprights.

The stock picker is **DESIGNED FOR PICKING / STORAGE / HANDLING OF ALL TYPES OF GOODS, DRIVEN BY AN OPERATOR PLACED ON THE ELEVATING OPERATOR POSITION SIMULTANEOUSLY TO THE LOAD-HANDLING DEVICE.**

The main control station is located in the basket. The operator can drive the machine and lift and lower the basket from the control console of the basket (when machine is self propelled in "MOVE PICKING" transport position) or can only lift and lower the basket (for the "B PICKING" manually pushed machine).

Vibrations generated by machines do not constitute any danger for the operator who is inside the basket.

The level of continuous sound pressure (A measurement) in the basket 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 controls in the basket.

- The voltage of the batteries, if included, must be sufficient to activate the machine;
- The emergency stop switch located on the control console of the basket must be on RESTORE.

**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.**

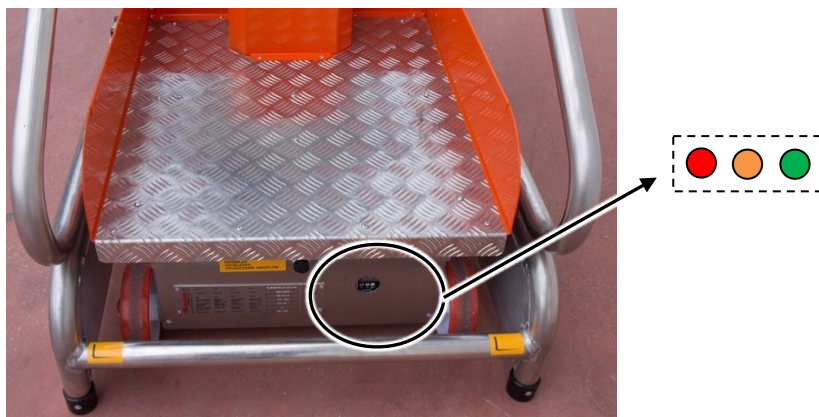
**NOTE:** when the battery charger is connected to an AC socket, the transmission function of the machine is disabled.

### 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

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



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 yellow 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**

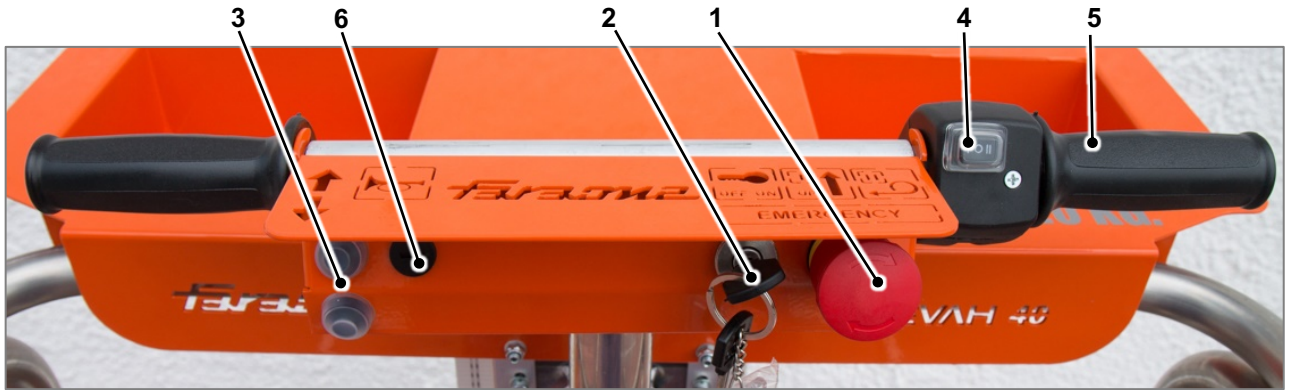
**IT IS RECOMMENDED NEVER TO ALLOW BATTERIES TO GO COMPLETELY FLAT.**



**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.**

**CONTROL CONSOLE IN THE BASKET (ELEVAH 40 MOVE PICKING)**



1. Emergency stop/switch-off button
2. Up/down - forward/backward control
3. Drive/basket enabling control
4. Proportional control accelerator
5. Main ON/OFF power supply switch with removable key
6. Horn

**General information**

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

- Basket console – Main power switch set to ON;
- Basket console - The emergency stop/switch-off button must be in RESTORE position (POWER SUPPLY CONNECTED).

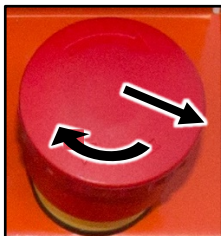
**Emergency stop/switch-off button**

**NOTE:** in order for the machine to operate, the emergency stop/switch off button on the basket 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.

**Main ON/OFF switch with removable key**



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

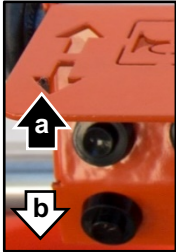




### **ATTENTION**

**PREVENT UNAUTHORISED MACHINE USE BY SETTING THE MAIN POWER SWITCH TO OFF AND REMOVING THE ENABLING KEY.**

#### **Up/down - forward/backward control**



- a) Basket UP direction or FORWARD drive of the machine
- b) Basket DOWN direction or BACKWARD drive of the machine

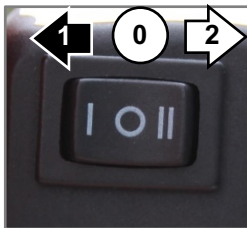
**NOTE:** After enabling the desired mode (machine drive/basket movement) and pressing the corresponding control for up/down or forward/backward movement, you must turn the proportional control accelerator in order to enable movement.



### **ATTENTION**

**BEFORE LIFTING THE BASKET, PAY ATTENTION TO THAT STATED IN SECTION 3 "PREPARATION AND INSPECTION" WITH REGARD TO THE BASE LEVELLING CONTROL SYSTEM.**

#### **Drive/basket enabling control**



0. Neutral position
1. Press to enable basket movement (up/down)
2. Press to enable movement of the work platform (forward/backward)

#### **Proportional control accelerator**

The accelerator actually enables movement after enabling the desired control mode (machine drive/basket movement) and pressing the corresponding control for up/down or forward/backward movement.



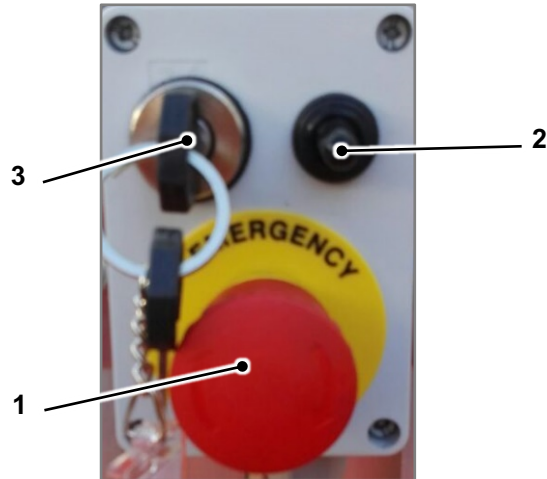
### **ATTENTION**

**THE ACCELERATOR IS EQUIPPED WITH PROPORTIONAL CONTROL. THE MORE THE KNOB IS TURNED, THE GREATER THE SPEED TO EXECUTE THE SELECTED MOVEMENT.**

**ATTENTION**

**IT IS RECOMMENDED TO EXECUTE MOVEMENTS BY TURNING THE KNOB SLOWLY IN ORDER TO OBTAIN GRADUAL MACHINE ACCELERATION, ESPECIALLY WHEN USED BY INEXPERIENCED OPERATORS.**

**CONTROL CONSOLE IN THE BASKET (ELEVAH 40 B PICKING)**



- 1. Emergency stop/switch-off button
- 2. Ascent/descent control
- 3. Main ON/OFF power supply switch with removable key

**Emergency stop/switch-off button**

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



**POWER SUPPLY DISCONNECTION**

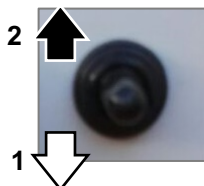
PUSH INWARDS to engage the emergency stop.



**POWER SUPPLY CONNECTION**

TURN the knob CLOCKWISE AND RELEASE to reset the emergency stop.

**Ascent/descent control**



- 1. LOWERING direction of the basket
- 2. LIFTING direction of the basket



**ATTENTION**

**BEFORE LIFTING THE BASKET, PAY ATTENTION TO THAT STATED IN SECTION 3 "PREPARATION AND INSPECTION" WITH REGARD TO THE BASE LEVELLING CONTROL SYSTEM.**

**Main ON/OFF power supply switch with removable key**

Set to ON to enable the machine for operation.

Set to OFF to switch the machine off definitely.

**ATTENTION**

**PREVENT UNAUTHORISED MACHINE USE BY SETTING THE MAIN POWER SWITCH TO OFF AND REMOVING THE ENABLING KEY.**

**ATTENTION**

**MAKE SURE THERE ARE NO OBSTACLES PREVENTING THE BASKET ENTRANCE MOVABLE RAILING FROM CLOSING PROPERLY**

**ATTENTION**

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

**ATTENTION**

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

**CAUTION**

**AVOID THE CAGE ASCENT/DESCENT OPERATIONS IF THE RAILING IS NOT FULLY LOWERED CORRECTLY**

**ATTENTION**

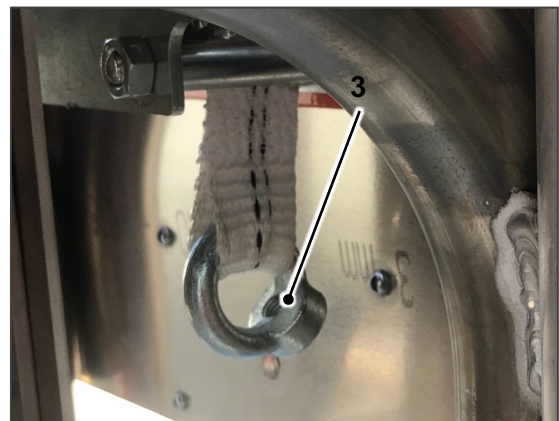
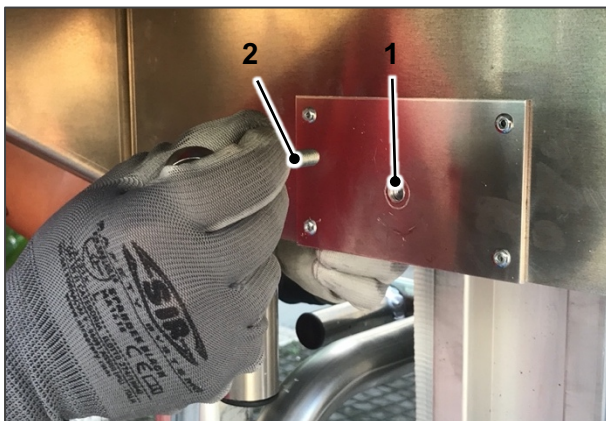
**THE TOTAL LOAD OBTAINED BY ADDING THE LOAD INSIDE THE BASKET + THE LOADING PLATFORM MUST NOT EXCEED 150 KG**

**LOADING PLATFORM ASSEMBLY**

1. Insert the forklift platform along the front sliding guides of the machine and slide the table up to the highest part of the guides so that it is possible to insert the fixing pin of the lifting belt in the seat.



2. Insert the supplied screw (2) in the appropriate hole (1) on the front and screw it to the pin (3) securing the lifting strap located on the opposite side.



3. Tighten the screw firmly to the belt fixing pin.

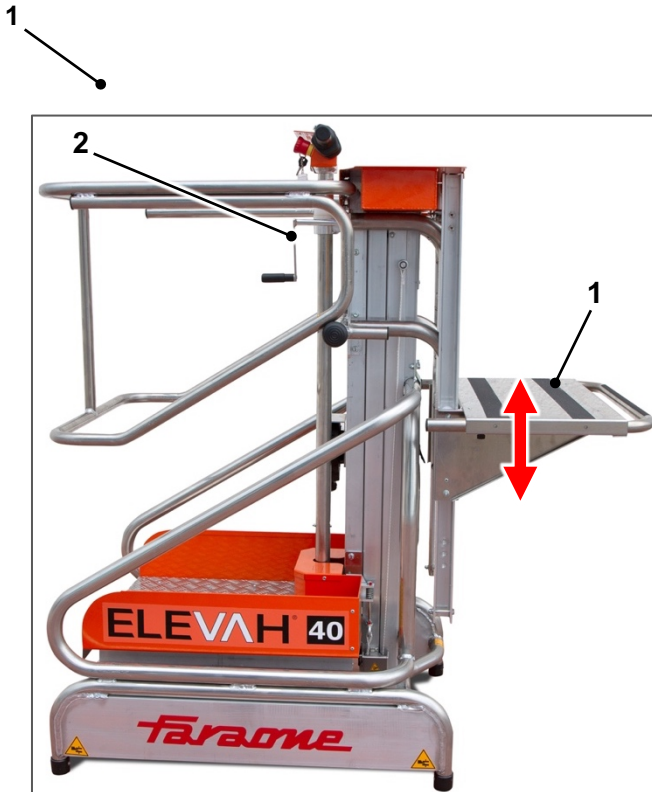


**ATTENTION**

**NOT LOCKING THE PIN WILL CAUSE THE LOADING PLATFORM TO FALL.**

**LIFTING OF THE MOBILE LOADING FLOOR**

**Lifting of the mobile loading floor**



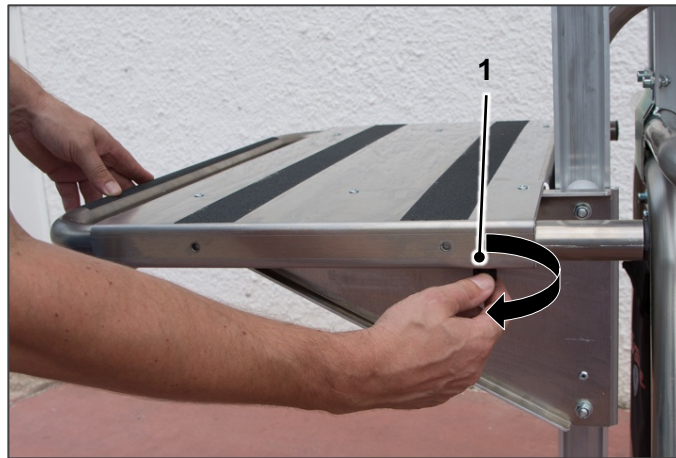
- 1. Lifting load platform
- 2. Handle for lifting / lowering the loading floor

To raise or lower the moving loading floor, turn the handle:

- 1. Towards RIGHT to lift it;
- 2. To LEFT to lower it.

**LOADING PLATFORM EXTENSION**

1. Loosen the fastening pins (1) of the loading surface, extract the extendable loading surface to the desired length and retighten the pins (1).



**ATTENTION**

**THE FAILURE TO TIGHTEN THE PINS CAUSES A DANGER OF MOVING THE EXTENDABLE LOADING PLAN.**

**TRANSPORT AND LIFTING PROCEDURE**

***Positioning the machine***

While stationing the machine, in order to prevent uncontrolled movements, it is necessary to slightly raise the basket so that the four feet of the base engage and the wheels lift off the ground.



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



**ATTENTION**

**PREVENT UNAUTHORISED MACHINE USE BY SETTING THE MAIN POWER SWITCH TO OFF AND REMOVING THE ENABLING KEY.**

***General information***

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

- By driving/pushing the machine and travelling the path on the base wheels, if the surface allows it.
- By moving it with a forklift (*check the gross weight of the machine in the Operational Technical Data Table for the machine*)
- Using the supplied forklift, supplied optionally, to quickly load onto the transport vehicle.



**ATTENTION**

**LOAD THE MACHINE ONTO A HEAVY DUTY VEHICLE HAVING A USEFUL LOAD CAPACITY SUITED FOR THE TOTAL WEIGHT OF THE MACHINE (CHECK THE GROSS WEIGHT OF THE MACHINE IN THE OPERATIONAL TECHNICAL DATA TABLE)**





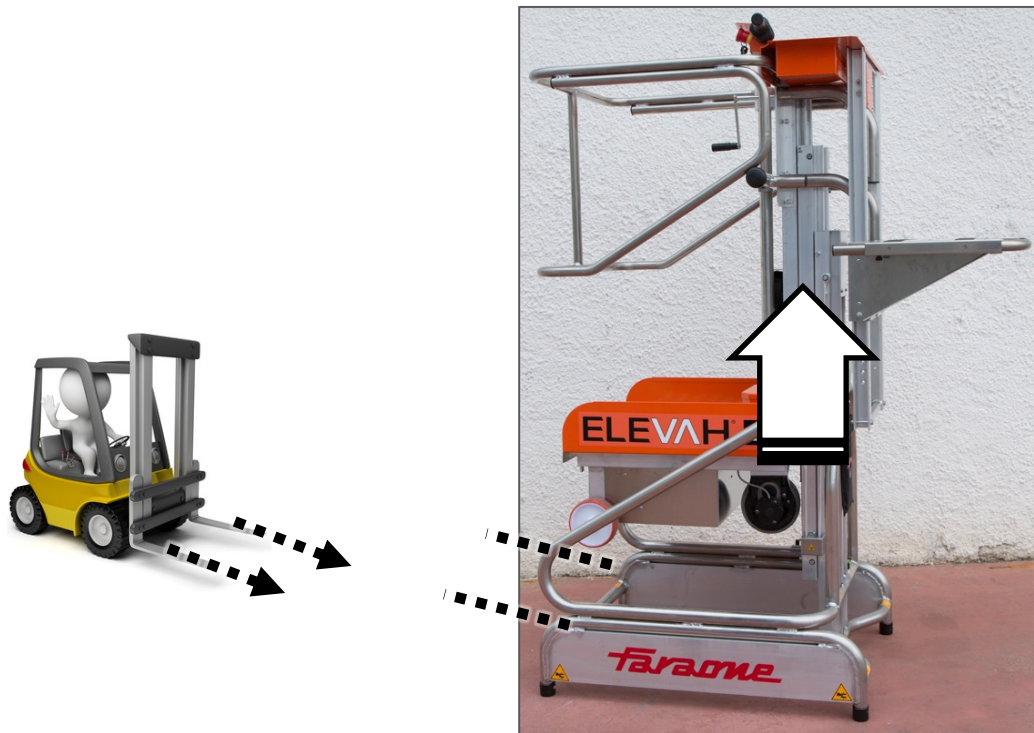
**ATTENTION**

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

***Handling with a forklift***

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

Before taking hold of it, you are required to lift the basket (from the control console) by a few centimetres so as to free space for the forks, otherwise they would hit the wheels of the machine and damage them (refer to the figure below)



**ATTENTION**

**BEFORE TAKING HOLD OF IT, YOU ARE REQUIRED TO LIFT THE BASKET (FROM THE CONTROL CONSOLE) BY A FEW CENTIMETRES IN ORDER TO FREE SPACE FOR THE FORKS.**

**Loading by means of the supplied forklift (optional)**

The machine can be loaded by means of the provided forklift, supplied upon request.



**ATTENTION**

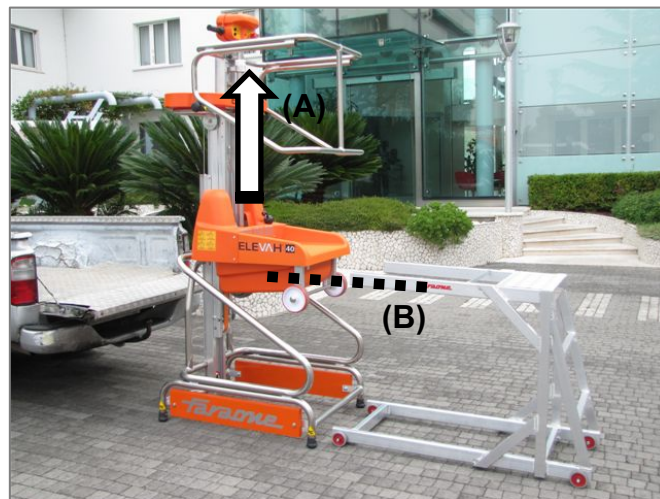
**THE MAXIMUM FREE HEIGHT OF THE LOAD SURFACE OF THE TRANSPORT VEHICLE MUST NOT EXCEED 60 CM FROM THE GROUND.**

Follow the instructions below to load the machine onto a relative transport vehicle.

**Phase 1** Moving the machine close to the loading vehicle, and moving the forklift close (forklift adjustable height).



**Phase 2** Lifting the basket of the machine (A) by means of the relative controls console on board, making sure to bring the walkable surface slightly above the forklift loading arms (B).



**Phase 3** Insert the forklift under the machine until the stop, making sure that the safety stops are exactly above the forklift profile stop.



**Phase 4** Go onto the forklift platform and, using the controls console on the machine, activate the down control of the basket. Activate the control until the machine base is completely raised upwards.



**Phase 5** Go off the forklift platform, making sure to hold onto the rail of the machine all the way down and push the forklift towards the transport vehicle.



**Phase 6** Go onto the forklift platform once again and, using the machine control console, lift the basket so as to unblock the non-slip safety stops (refer to the detail Phase 3). Then extract the forklift. The machine is now loaded onto the transport vehicle.



**ATTENTION**

**SECURE THE MACHINE SO THAT IT DOES NOT GET DAMAGED DURING TRANSPORT.**  
 Carry out the phases in reverse order to unload the machine from the transport vehicle.

## SECTION 5. EMERGENCY PROCEDURES

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

### EMERGENCY OPERATION

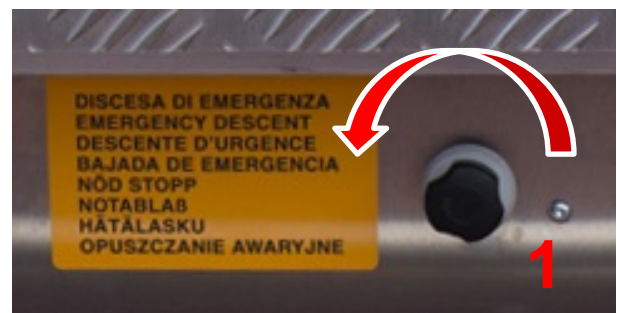
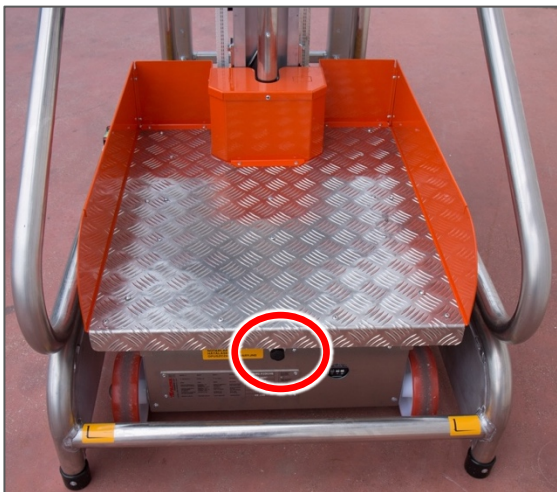
#### **Operator unable to control the machine**

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

- The other personnel must operate the machine with the emergency ground controls exclusively in case of need.
- The machine controls may only be used by qualified personnel. INTERRUPT MACHINE ACTIVITY IF THE CONTROLS ARE NOT WORKING PROPERLY.
- In the event of incorrect operation of the controls, power outage or breakage of the lifting belt, the emergency button must be used, and a qualified operator must perform EMERGENCY DESCENT procedures 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. Slowly rotate the knob to the left to lower the work platform (1);



4. ATTENTION: continuously supervise the entire descent phase of the work platform;
4. Once descent is completed, tighten the knob again;
5. 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 DECAL NEAR THE EMERGENCY DESCENT CONTROL.**

***Basket blocked in overhead position***

If the basket blocks or jams in overhead equipment or structures, transfer the person present in the basket to a safe place before freeing the machine.

Recovery equipment can be used to allow the occupier to climb down from the basket. 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 BASKET 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:** Ensure 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;**
- **Check 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 operable selection switch, emergency stop switch in a reset position and legible control signs;
- **Check the lifting belt**  
Check whether the condition of the lifting belt is intact and free from textile fibres that are worn, damaged and/or torn along the edges of the belts and on the terminals.  
Make sure the belt is not dirty with mud, rubble, ice or other foreign bodies.
- **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.  
It is advisable to replace the wheel before the thickness of the tread becomes less than 5 mm.



**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 YEAR**

- **Electromagnetic brake (ELEVAH 40 MOVE PICKING)**

Check the electromagnet as described in the relevant paragraph and replace it if it is not in the stated conditions.

Refer to the instructions on how to check and replace the electromagnet;

- **Transmission motor (ELEVAH 40 MOVE PICKING)**

Check the brushes for wear and replace them if necessary.

Refer to the instructions in the relative paragraph regarding 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 (ELEVAH 40 MOVE PICKING)**

Greasing. Refer to the instructions in the relative paragraph.

- **Torque Reducer (ELEVAH 40 MOVE PICKING)**

Replace the main gaskets of the torque reducer; Refer to the instructions in the relative paragraph for information on how to replace it.

- **Transmission motor (ELEVAH 40 MOVE PICKING)**

Check the surface of the manifold for burns, reduction of the diameter at the point of the brushes or eccentricity and follow the instructions in the relative paragraph if necessary.

- **Transmission motor (ELEVAH 40 MOVE PICKING)**

Cleaning the fan of the motor. Refer to the instructions in the relative paragraph on cleaning.

**MAINTENANCE EVERY FIVE YEARS**

- **Lifting belt**

Lift belt replacement.

**SECTION 8. MAINTENANCE OPERATING INSTRUCTIONS****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. Use the suitable switch to disconnect the machine's power supply;
3. Open the protective cover of the battery compartment;
4. Loosen the connection terminals of the batteries (positive pole and negative pole);
5. Remove the batteries and replace them with new ones;
6. Connect the terminals of the batteries, making sure to do so correctly (red wire to the positive pole, black wire for the negative pole) and tighten them;
7. Close and lock the protective cover.

**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.**

**LIFT BELT REPLACEMENT**



**ATTENTION**

**CONTACT ONLY THE MANUFACTURER FOR OPERATING INSTRUCTIONS ON HOW TO REPLACE THE LIFT BELT**

**TRANSMISSION MOTOR (ELEVAH 40 MOVE PICKING)**

**24Volt "CIMA" TRANSMISSION WHEEL**

All the models, including the base ones, have DIN4 class ground helical gears for reducing noise and castings with dilation coefficients that avoid breaking.

Special precautions have been taken to minimise maintenance; when maintenance is necessary, it is possible to replace the main parts and consumables (such as: the motor, the wheel, the brake and the brushes), keeping the motor in position and thus considerably reducing machine downtime.

The unit (fig.1) consists of a two-stage reducer with parallel axes (pos. 1), the motor (pos. 2) and the wheel (pos. 3) coaxial with each other.

An electromagnetic brake is supplied as standard. It is mounted on the motor (4) for positioning and for gentle deceleration.

The body of the reducer (pos. 1) contains a quantity of semi-fluid grease (AGIP GR MU / EP1) sufficient for over 1,000 hours of operation. There are greasers (pos. 5) designed for particularly heavy use or hot climates.

The lining on the wheel (pos. 3) can be in black or easy-running rubber and in polyurethane: the choice depends on the static load on the wheel itself, and on the type of floor and service.

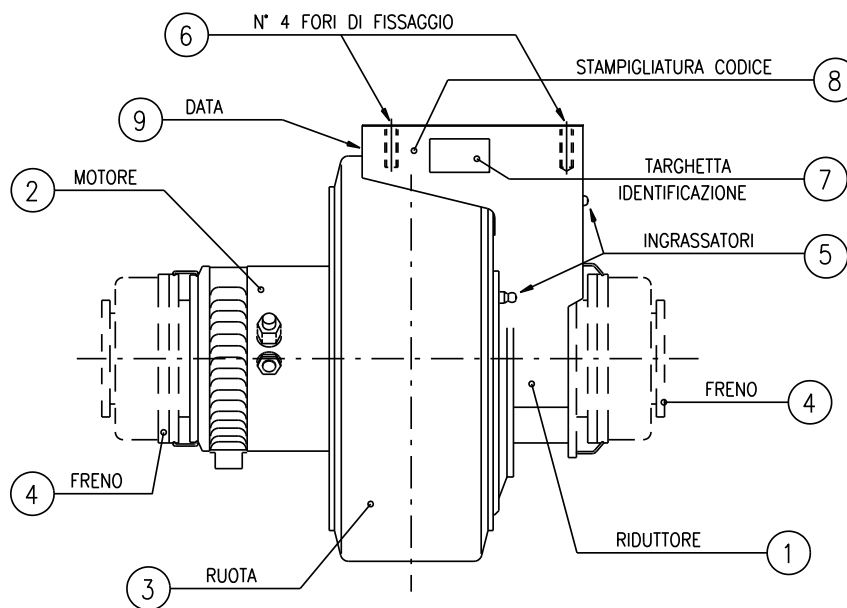


Fig. 1

**MOTOR (ELEVAH 40 MOVE PICKING)**

**Checking the condition of the motor left in the housing.**

- a) Remove the clamp from the manifold side support (fig. 14);
- b) Use compressed air to remove carbon dust deposits on the internal surfaces of the brush side support;
- c) Check the manifold, the length of the brushes and the smooth movement of the latter in their housings;
- d) Using a 500-volt megaohmmeter, measure the insulation resistance of the armature (terminals A1 - A2) and field (terminals D1 - D2) towards the casing, which must be more than 0.1 mΩ; if it is less, lift the brushes and test the field and armature again separately in order to identify if one or both are damaged. In this case, remove the motor if the manifold requires maintenance and the brushes need to be replaced.

**Disassembling the motor for repair or replacement of the same after removing the brake (see replacing the electromagnetic brake)**

Motor with motor side brake (fig. 12):

- a) Remove the cover, the 6 MA nut if present and the motor fixing screws;
- b) Remove the motor complete with the pinion, gently tapping the shaft and the sides of the casing with a soft hammer.

During reassembly, turn the wheel slightly to engage the tooth of the pinion in the crown.

**Checking the brushes**

Check smooth movement as well as the length of the brushes to ensure good performance. It is in any case advisable to replace the brushes every 625 working hours.

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

**Checking the manifold**

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

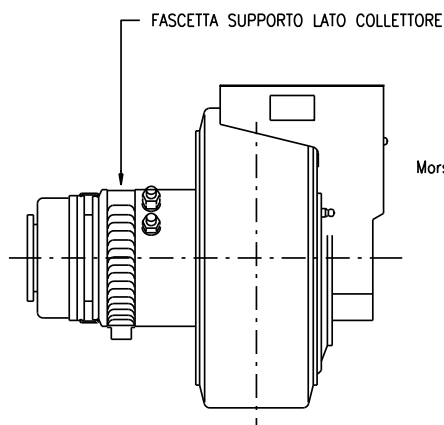


Fig. 14

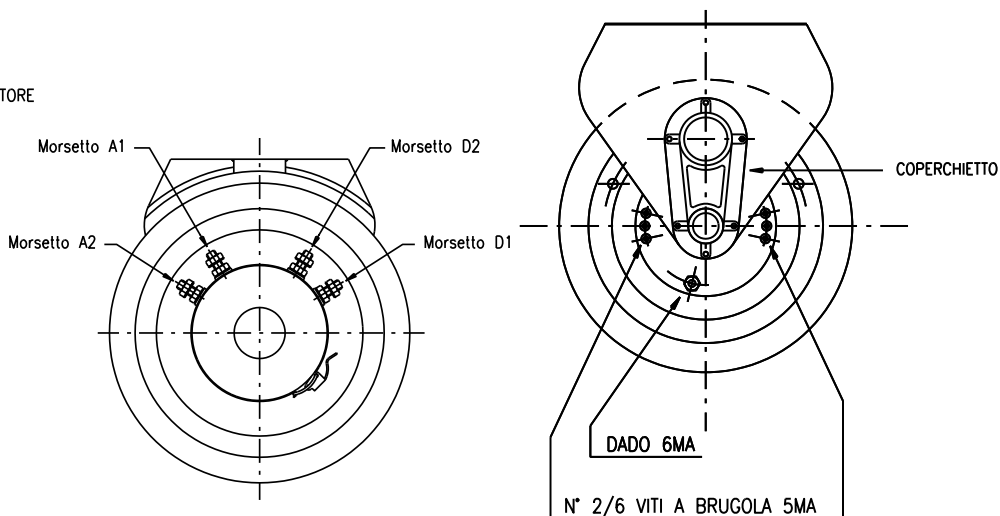


Fig. 12

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## **DISASSEMBLING THE REDUCER AND REPLACING THE GEARS AND GASKETS (ELEVAH 40 MOVE PICKING)**

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### **Replacing the pair of gears 9 and 10**

- a) Remove the motor from the machine;
- b) Remove the gasket (6);
- c) Remove the closing cover (1) or the brake complete with hub, lining, brake plate, spacer with OR and sealing ring;
- d) Retrieve the pinion (10) with a special puller or remove the motor as indicated in the relevant paragraph;
- e) Using the appropriate puller, remove the transmission pinion (8) and retrieve the fast wheel (9);
- f) When reassembling, make sure that the drain (L) in the fast wheel (9) faces the internal bearing and that the corrugated washers and the spacer, when available, are fitted on the transmission pinion (8).

For reassembly of the motor and brake, see the previous sections.

### **Replacing the pair of internal toothed gears 7 and 8**

- a) Remove the motor from the machine;
- b) Remove the closing cover (1) or the brake complete with hub, lining, brake plate, spacer with OR and sealing ring;
- c) Remove the motor as indicated in the relevant paragraph;
- d) Retrieve the wheel (2) complete with crown gear (7) and bearing: to do this, place the puller (K) on a table or in a vice for inserting the gearless motor, and tap with a hammer in the direction of the arrow (H) on the casing of the wheel making it turn manually;
- e) Remove the wheel from the gear (4) as indicated in the relevant paragraph;
- f) Remove the transmission pinion (8) tapping it with a soft hammer on the toothed side;
- g) When reassembling, first assemble the bearing(s) and gear in the wheel, then insert the whole on the casting, complete with the gasket (3), resting it on the platform (E-F).
- h) Finally, fit the transmission pinion (8) by slowly turning the gear wheel.

If the gear (9) has been removed, make sure that the drain (L) faces the internal bearing and that the corrugated washers and the spacer, when available, are fitted on the transmission pinion (8).  
For reassembly of the motor and brake, see the previous sections.

N.B.: Both the gears (9) and (10) and (7) and (8) must always be replaced in pairs.

### **Checking and replacing the main gaskets (3), (4) and (5)**

The gaskets must be replaced in the case of leakage of grease towards the motor, gasket (4), on the side of the wheel opposite the screws, gasket (3), from the cover or brake plate (1), gasket (5) and in any case every 1250 working hours.

Removing the gasket (3):

- The toothed crown (7) must be removed as described above.

• Removing the gasket (4):

The motor must be disassembled as indicated and the wheel as indicated in the relevant paragraphs.

Removing the gasket (5):

- The cover (1) or the brake plate complete with brake and hub with lining must be removed as indicated in the relevant paragraph.

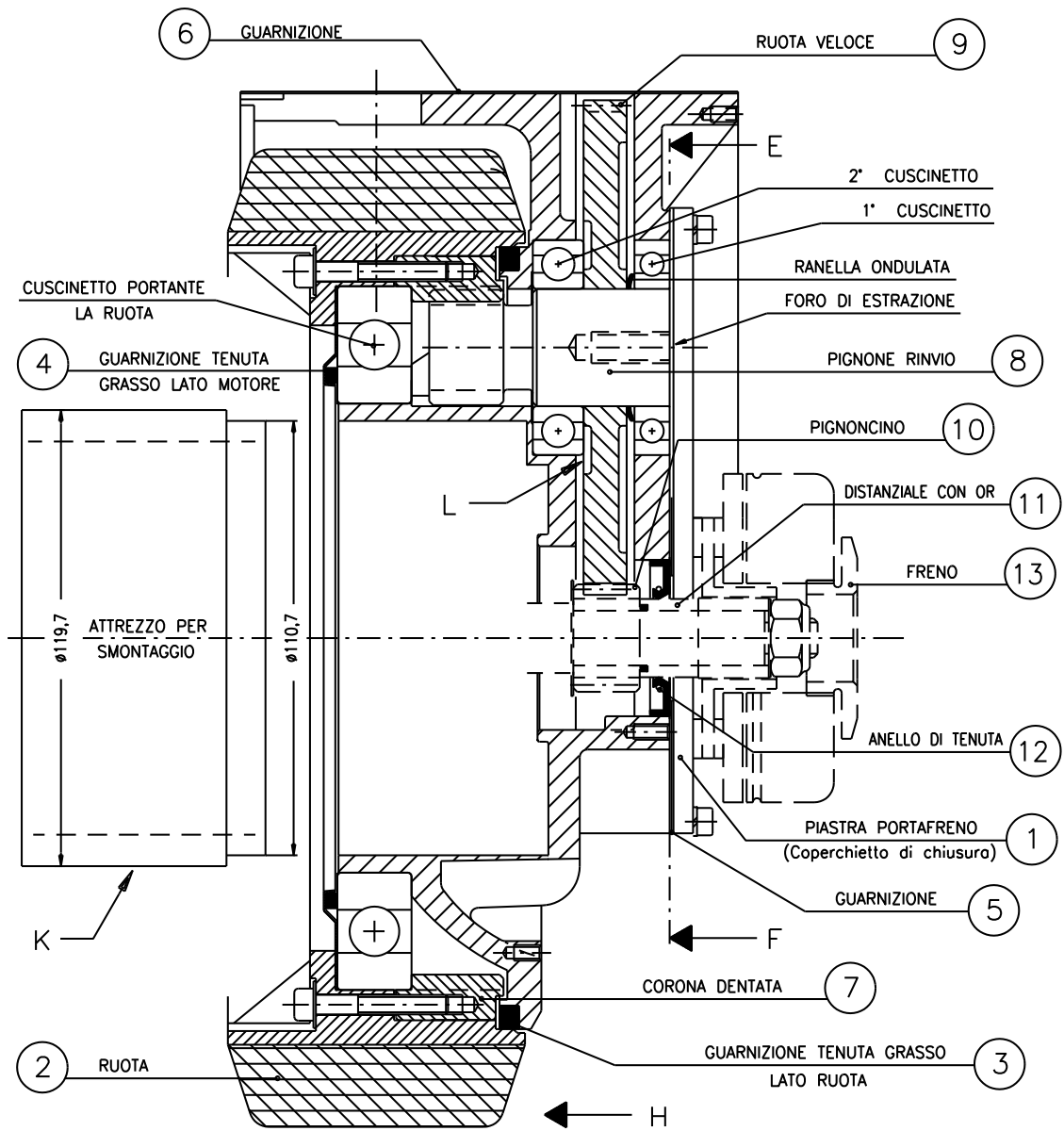


Fig. 15 RIDUTTORE

**WHEEL (ELEVAH 40 MOVE PICKING)**

• **Removal**

- a) Remove the locking screws;
- b) Put the service screws in the appropriate extraction holes and fasten them until they enter freely;
- c) At the start of release, alternately tighten the screws by no more than 10mm, in order to undo the part of the wheel forced on the hub; then tap it a few times with a hammer to extract it completely.

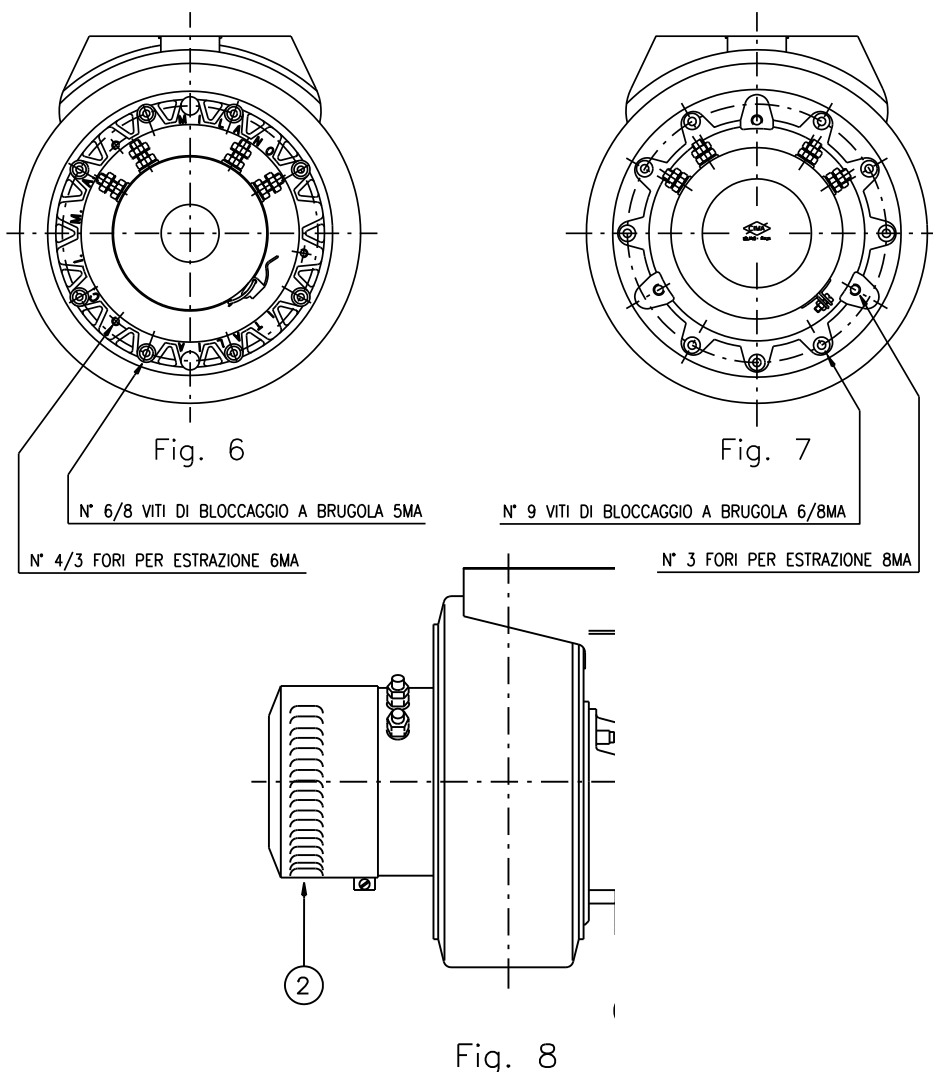
• **Reassembly**

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

N.B.: It is advisable to replace the wheel before the thickness of the tread becomes less than 5 mm.

**CLEANING THE FAN OF THE MOTOR (ELEVAH 40 MOVE PICKING)**

Remove the clamp and clean the finning, which acts as a filter, with compressed air (fig.8 pos. 2)



**ELECTROMAGNETIC BRAKE (ELEVAH 40 MOVE PICKING)**

The maximum braking torque of the electromagnetic brakes available is indicated below according to diameter:

- ∅ 84            C = 0.4 Kgm
- ∅ 104        C = 0.8 Kgm
- ∅ 124        C = 1.6 Kgm

The ring nut (4) coaxial to the brake is for adjusting the braking torque from zero to the maximum available.

**Checking the electromagnet**

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

	diameter 84	diameter 104	diameter 124
- 12 Volt brakes	5 Ω	8.3 Ω	4.5 Ω
- 24 Volt brakes	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 the insulation towards the motor, using a 500-volt Megaohmmeter to measure the insulation resistance, which must be above 0.1 MΩ.

The electromagnet must be replaced if it does not meet the requirements.

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

- a) Remove any brake covers and completely loosen the three fixing screws (1).
- b) 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 or self-locking nut.
- c) Reassemble the new brake and proceed to calibrate the clearance (3).

**Calibrating the clearance (3)**

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

- a) Loosen the three hexagonal adjustment bushes (2) in fig. 10;
- b) Adjust the three fixing screws (1) so as to obtain a clearance between 0.2 and 0.4 mm;
- c) Lock the three hexagonal adjustment bushes (2) and check, with a thickness gauge, that the clearance is within the permitted limits.

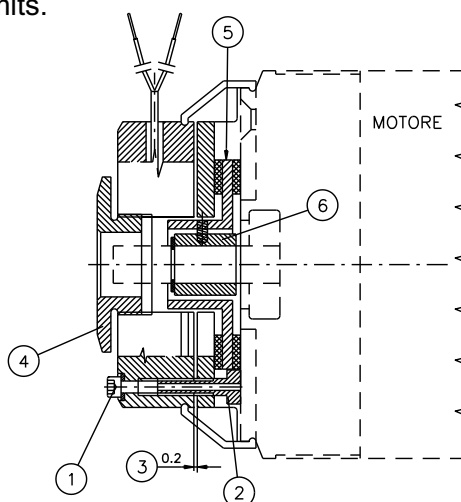


Fig. 10 ( FRENO LATO MOTORE )



**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 - Hydraulic diagram;
- ✓ ATTACHMENT 3 – Wiring diagram - ELEVVAH 40 MOVE PICKING;
- ✓ ATTACHMENT 4 – Wiring diagram - ELEVVAH 40 B PICKING;
- ✓ ATTACHMENT 5 – Successful test certificate;
- ✓ ATTACHMENT 6 – Declaration of conformity.

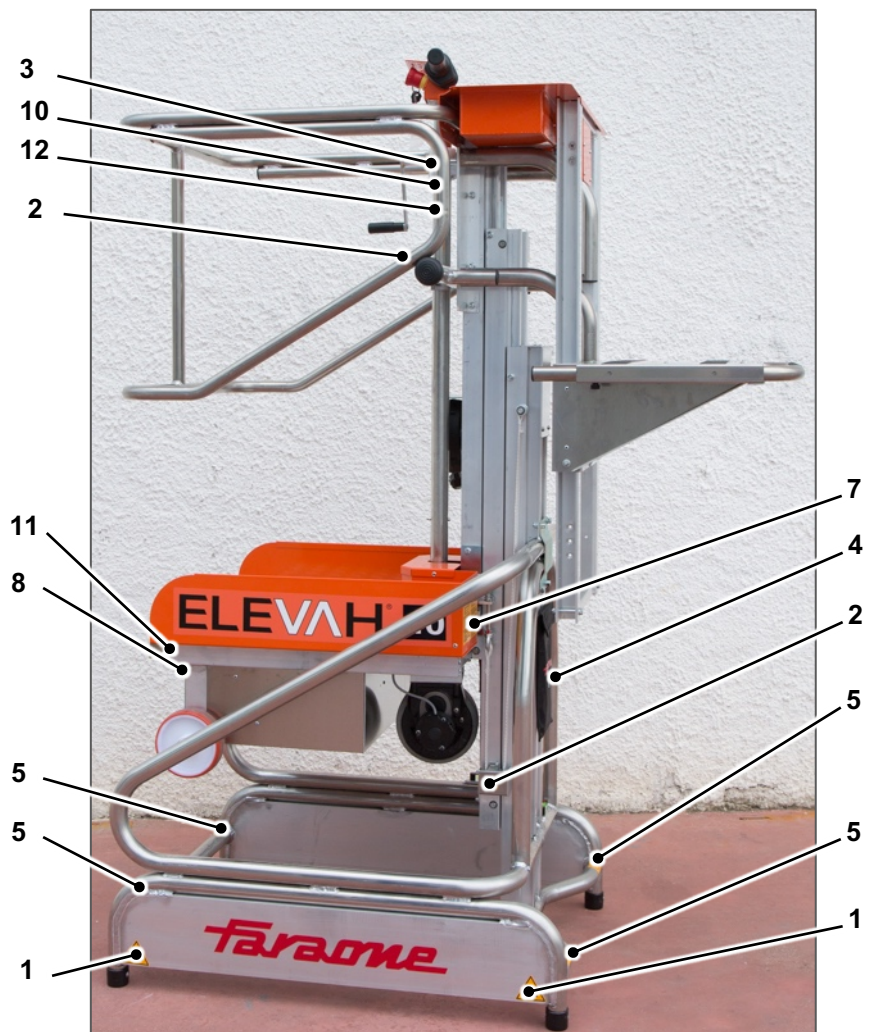


**ATTENTION**

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

**ATTACHMENT 1 – Layout for decal application**

Pos.	SYMBOL	DESCRIPTION	Pos.	SYMBOL	DESCRIPTION
1		<b><u>DANGER SIGN</u></b> RISK OF FALLING OBJECTS FROM ABOVE	2		<b><u>DANGER SIGN</u></b> CRUSHING AND TRAPPING OF UPPER LIMBS
3		<b><u>PROHIBITION SIGN</u></b> UNAUTHORISED PERSONNEL MUST NOT USE THE MACHINERY	4		<b><u>OBLIGATION SIGN</u></b> REFER TO THE OPERATING MANUAL D'USO
5		"LIFTING POINTS WITH FORKS"	6	<b><u>INDICATION</u></b>	"RETAINING ONLY 1 PERSON"
7	<b><u>INDICATION</u></b>	"BATTERY CHARGING POSITION"	8	<b><u>INDICATION</u></b>	"EMERGENCY DESCENT"
9	<b><u>INDICATION</u></b>	"EMERGENCY DESCENT PROCEDURE"	10	 Max 150 kg	<b><u>INDICATION</u></b> Maximum number of persons and load on the cage
11	<b><u>INDICATION</u></b>	CE PLATE	12	<b><u>INDICATION</u></b>	"USING THE TOOLS HOLDER TRAY"



**ATTACHMENT 2 - Hydraulic diagram**

Tabella Distribuzione materiali			
Num. articolo	Num. parte	DENOMINAZIONE	Quantità
1	ES316026	Collettore P1005-MIR per grab&rev + Dr	1
2	FC103AM06	Tappo expander Ø6	2
3	EC114024	Anello O-Ring NBR 70Sh. 21.9.3rd 78 - 2087	1
4	EC114261	Anello O-Ring NBR 70Sh. 40.50x3.53 - 4350	1
5	F73200258101002	Valv.VPP/3/8 S1Ø10 doppio senza sterzo	1
6	F73200138	Valvola filegro VR38	2
7	F733023250	Valvola max VMC10_Y (50-250 bar)	2
8	EC10901.00007	Pompa 00R1.00X060	1
9	ES5241010	4OV10- Tubo aspiraz. fo. 3/8" onzz/vert	1
10	ES306PH.1.02355	Flitto km. cil. 3/8"-L- Ø32 H29 10170Ji FM04	1
11	ES52302100	Tubo di scarico fe. M10x1 L100	2
12	ES12AA108	Serbatoio pl. Ø96. L01t. B	1
13	EC1271120	Tappo sl + fili press IPE-20	1
14	C0369090110	Fascetta stringitubo I9 Ø90x110	1
15	ES307001	Maniglia x FC11 [fil. Ø11 -> Ø16,5]	1
16	ES308320021	Giunto (M-DC) 015-030-080	1
17	EC106218	Motore CC 24V-500W T (C218) Am	1
18	ES42010100	Boccola presa molta 1/4" Ø1.00	1
19	F731167_35	Bocco MIR4 con P1005REV.C. L4-100x3,50 bar + SRS	1
20	EC001001	Tappo TCEI con OR. 1/4"	1
21	EC12601ST12	Tappo di protezione G1/4" - T	2

INCL.	DESCRIZIONE	QUANTITÀ	UNITÀ	DATA	NOTE	REVISIONE	DATA	REVISIONE
05	WATERIALE							
04	COLLE							
03	TRATTAMENTO TERMICO DI SUPERFICIE							
02	NUMERO IN							
01	BOZZE/IDEAL							
	BOZZE/IDEAL							
	DATA							
	BOZZE/IDEAL							
	DATA							
	BOZZE/IDEAL							
	DATA							
	BOZZE/IDEAL							
	DATA							

INCL.	DESCRIZIONE	QUANTITÀ	UNITÀ	DATA	NOTE	REVISIONE	DATA	REVISIONE
05	WATERIALE							
04	COLLE							
03	TRATTAMENTO TERMICO DI SUPERFICIE							
02	NUMERO IN							
01	BOZZE/IDEAL							
	BOZZE/IDEAL							
	DATA							
	BOZZE/IDEAL							
	DATA							
	BOZZE/IDEAL							
	DATA							
	BOZZE/IDEAL							
	DATA							

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 E-mail: info@techfluids.com

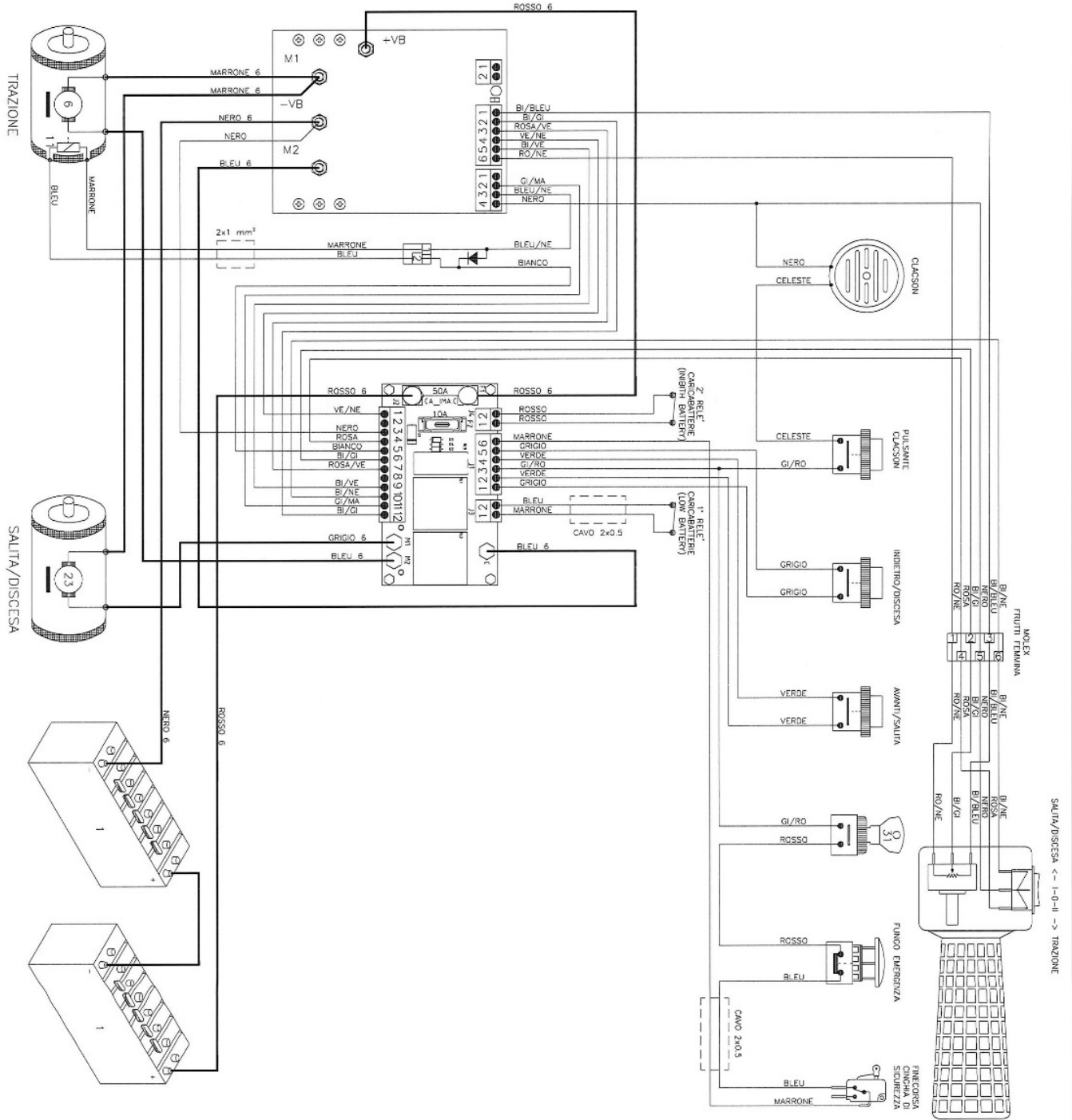
104 MIR4YYP008R/SPM01VIC218FC11/1VIG00

N° CODICE: POR0082003    REV: 00    F001010 Esplosivo cliente

**ATTACHMENT 3 – Wiring diagram - ELEVAH 40 MOVE PICKING**

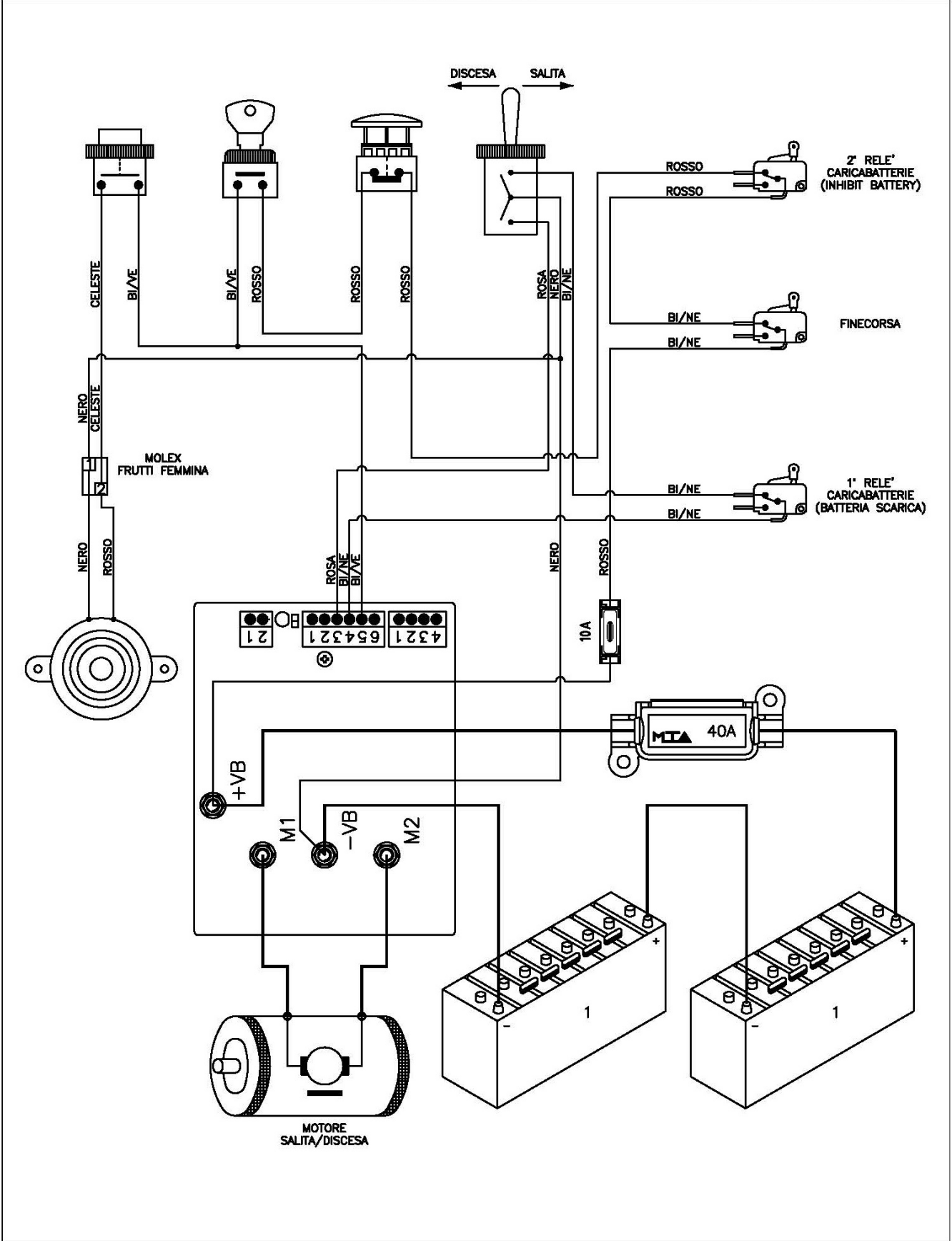


DENOMIN.	IMPIANTO ELETTRONICO 4QHF2D 24V + CA_IMA.C		
MACCH.	SCALA ELETTRICA ELEVA H40 Rev. 09/2018 PICK		
CLIENTE	IMA		
DISEGN.	CAVICCHI	FILE:	/SP/QQ345
TAVOLA	QQ345	DATA	05/09/2018



**ATTACHMENT 4 – Wiring diagram - ELEVAH 40 B PICKING**

	DENOMIN.	IMPIANTO ELETTRONICO 4QHF2D		
	MACCHINA	ELEVA H40B & B_PICKING		
	CLIENTE	IMA FARAONE		
	DISEGNAT.	CAVICCHI	FILE:	/SP/ QQ317
	TAVOLA	QQ317	DATA	01/10/2018



**ATTACHMENT 5 – Successful test certificate**

# **STOCK PICKER**

- ELEVAH 40 MOVE PICKING**
- ELEVAH 40 B PICKING**

Serial number:

The machine underwent the following tests:

- Brake test
- Overload test
- Operation test

With a POSITIVE outcome.

Tortoreto, on

**ATTACHMENT 6 – Declaration of conformity**



FARAONE INDUSTRIE SPA  
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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 KONFORMITÄTSEKRLÄRUNG**



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

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

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

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

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

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

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

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

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

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

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

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

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

Tortoreto, XX/XX/XXXX

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

Il Legale Rappresentante  
(Faraone Pier Giuseppe)



**SECTION 10. MAINTENANCE LOGBOOK**

**MAINTENANCE**

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

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

<b><u>Every three months</u></b>	DONE	
	✓	x
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 belt		
Check the wheels for wear		

**Every six months**

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

**Every year**

Perform the "THREE-MONTHLY AND SIX-MONTHLY" checks		
Electromagnetic brake: Check the electromagnet. <i>(ELEVAH 40 MOVE PICKING)</i>		
Transmission motor: Check the brushes for wear and replace them if necessary. <i>(ELEVAH 40 MOVE PICKING)</i>		

**Every two years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Hydraulic oil change		
Torque Reducer: Replace the main gaskets. <i>(ELEVAH 40 MOVE PICKING)</i>		
Torque Reducer: Greasing. <i>(ELEVAH 40 MOVE PICKING)</i>		
Transmission motor: Cleaning the fan of the motor. <i>(ELEVAH 40 MOVE PICKING)</i>		
Transmission motor: Check condition of the manifold. <i>(ELEVAH 40 MOVE PICKING)</i>		

**Every five years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Lift belt replacement		

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

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

NOTE

**MAINTENANCE**

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

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

	DONE	
	✓	✗
<b><u>Every three months</u></b>		
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 belt		
Check the wheels for wear		

**Every six months**

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

**Every year**

Perform the "THREE-MONTHLY AND SIX-MONTHLY" checks		
Electromagnetic brake: Check the electromagnet. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Check the brushes for wear and replace them if necessary. (ELEVAH 40 MOVE PICKING)		

**Every two years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Hydraulic oil change		
Torque Reducer: Replace the main gaskets. (ELEVAH 40 MOVE PICKING)		
Torque Reducer: Greasing. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Cleaning the fan of the motor. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Check condition of the manifold. (ELEVAH 40 MOVE PICKING)		

**Every five years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Lift belt replacement		

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

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

NOTE
------

**MAINTENANCE**

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

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

	DONE	
	✓	✗
<b><u>Every three months</u></b>		
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 belt		
Check the wheels for wear		

**Every six months**

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

**Every year**

Perform the "THREE-MONTHLY AND SIX-MONTHLY" checks		
Electromagnetic brake: Check the electromagnet. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Check the brushes for wear and replace them if necessary. (ELEVAH 40 MOVE PICKING)		

**Every two years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Hydraulic oil change		
Torque Reducer: Replace the main gaskets. (ELEVAH 40 MOVE PICKING)		
Torque Reducer: Greasing. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Cleaning the fan of the motor. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Check condition of the manifold. (ELEVAH 40 MOVE PICKING)		

**Every five years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Lift belt replacement		

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

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

NOTE

**MAINTENANCE**

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

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

	DONE	
	✓	✗
<b><u>Every three months</u></b>		
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 belt		
Check the wheels for wear		

**Every six months**

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

**Every year**

Perform the "THREE-MONTHLY AND SIX-MONTHLY" checks		
Electromagnetic brake: Check the electromagnet. <i>(ELEVAH 40 MOVE PICKING)</i>		
Transmission motor: Check the brushes for wear and replace them if necessary. <i>(ELEVAH 40 MOVE PICKING)</i>		

**Every two years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Hydraulic oil change		
Torque Reducer: Replace the main gaskets. <i>(ELEVAH 40 MOVE PICKING)</i>		
Torque Reducer: Greasing. <i>(ELEVAH 40 MOVE PICKING)</i>		
Transmission motor: Cleaning the fan of the motor. <i>(ELEVAH 40 MOVE PICKING)</i>		
Transmission motor: Check condition of the manifold. <i>(ELEVAH 40 MOVE PICKING)</i>		

**Every five years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Lift belt replacement		

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

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

NOTE
------

**MAINTENANCE**

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

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

	DONE	
	✓	✗
<b><u>Every three months</u></b>		
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 belt		
Check the wheels for wear		

**Every six months**

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

**Every year**

Perform the "THREE-MONTHLY AND SIX-MONTHLY" checks		
Electromagnetic brake: Check the electromagnet. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Check the brushes for wear and replace them if necessary. (ELEVAH 40 MOVE PICKING)		

**Every two years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Hydraulic oil change		
Torque Reducer: Replace the main gaskets. (ELEVAH 40 MOVE PICKING)		
Torque Reducer: Greasing. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Cleaning the fan of the motor. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Check condition of the manifold. (ELEVAH 40 MOVE PICKING)		

**Every five years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Lift belt replacement		

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

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

NOTE
------

**MAINTENANCE**

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

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

	DONE	
	✓	✗
<b><u>Every three months</u></b>		
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 belt		
Check the wheels for wear		

**Every six months**

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

**Every year**

Perform the "THREE-MONTHLY AND SIX-MONTHLY" checks		
Electromagnetic brake: Check the electromagnet. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Check the brushes for wear and replace them if necessary. (ELEVAH 40 MOVE PICKING)		

**Every two years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Hydraulic oil change		
Torque Reducer: Replace the main gaskets. (ELEVAH 40 MOVE PICKING)		
Torque Reducer: Greasing. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Cleaning the fan of the motor. (ELEVAH 40 MOVE PICKING)		
Transmission motor: Check condition of the manifold. (ELEVAH 40 MOVE PICKING)		

**Every five years**

Perform the "THREE-MONTHLY, SIX-MONTHLY AND ANNUAL" checks		
Lift belt replacement		

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

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

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