

INSTRUCTION MANUAL TRANSLATION

This manual must always be available to the user.
Ask for more copies if you need them.

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**¡DANGER!**

Risk of wounds and injuries due to fall of objects, failure, incorrect application and / or incorrect utilization.

Read the whole operating instructions manual before the assembly and set up of the platform. Follow the instructions and procedures described in this manual in order to ensure a safe utilization of the equipment.

1- Information for this manual:

Date of edition: 1st Edition: 06/2017	Manufacturer: ACCESUS plataformas suspendidas, S.L. C/Energia 54 08940 Cornellà de Llobregat (Barcelona) Telf.: (+34) 93 475 17 73 www.accesus.es accesus@accesus.es
Copyright: Reservados todos los derechos sobre la propiedad de este manual de instrucciones.	

2- Explanation of symbols used in this manual.**¡DANGER!**

Type and origin of danger

Result: fatal or serious injuries.

-Solutions to eliminate the danger.

**¡IMPORTANT!**

Type and origin of danger

Result: for example damage to machines or the environment.

-Solutions to eliminate any possibility of accidents.

**NOTE**

Useful tips for optimum working. Instructions to operation / documentation in writing.

3- General:

This operating instructions manual is destined to the workers of Modublade R2 Temporary Suspended Platform. This operating instructions manual must be accessible to workers everytime. Request more copies if it's necessary.

ACCESUS Plataformas Suspendidas S.L. saves the rights to modify the product described in this manual as a part of his continued improvement.

The clients can obtain more information about other ACCESUS products throught address described at section 1. Please, check our website: www.accesus.es.

3.1-Glossary and abbreviations used in this manual:

W.L.L.

Working Load Limit

Electrician.

A professional worker who knows and has the correspondent and necessary qualification to know the risks and to avoid the danger that has an electrical environment.

Worker.

A person who works professionally with the machine.

T.S.P.

Temporary Suspended Platform.

Operator

It is responsible for both the regulatory operation of the installation of the appliance and compliance with maintenance intervals and repair work.

4- Previous instructions and warnings:

• TSP (Temporary Suspended Platforms) is destined exclusively to a **professional use**. Must be destined only to qualified people with knowledges for set up and utilization. Workers must be prepared for works at heights. Workers must know and assimilate the Law of Labor Risk Prevention.

• The machine must be dismantled and stored at the end of the works.

• For a safety utilization the TSP requires at least 2 workers at the same time.

• This TSP can only be used by authorized staff with adequate formation and psychologically suitable. Keep out from unauthorized people.

• Before to install and use a TSP is essential, for safety and efficiency, **to read and assimilate all the contents of this manual** and proceed in agreement to this instructions. Likewise, before the service, it's important to read all the labels fixed on the machine.

• This manual must be conserved in good condition and always be available for all workers.

• In case of loss or deterioration of the labels, these must be replaced before the use of the machine. Request more copies of the instructions manual and labels if it's necessary.

• The responsible company must apply the regulation of safety relative to the assembly, utilization, maintenance and technical controls referred to all the equipment. The responsible company must give the instructions to the workers and verify his aptitudes.

• Before putting in service the platform, the person in charge of work, must verify and ensure the good condition of the TSP equipment.

• Don't use a TSP or an accessory (wire rope, suspension points, etc.) in bad condition. A periodic control of the machine by an authorized person is essential for safety. The maintenance not described in this manual must be realized by the manufacturer or by an authorized repairer.

• Don't use the equipment for other uses than the indicated in this manual. The manufacturer can't guarantee the product for other configurations not described in this manual. For other applications consult the manufacturer or a professional specialized technician before proceeding to assembly the equipment.

• **Don't use the TSP beyond the limits of utilization** described in this manual and specially don't exceed the rated load of use indicated in the labels.

• The manufacturer declines any responsibility for the consequences of a disassembly of the devices, modifications or manipulations, specially in case of substitution of the original pieces by others from different origin.

- This TSP has a life of 10 years. This duration is based on a utilization of the platform of 200 hours per year and with the condition that the annual reviews effect.
- A special care is needed by dangers that will appear when the TSP is over water, public areas or where it's not possible to get the platform down to a safe position.
- Don't use the TSP in severe conditions such as atmospheric extreme conditions, corrosive environments, magnetic fields, explosive atmospheres (ATEX), works under tension, works in confined spaces, etc.
- Don't use the TSP for loads which can generate dangerous situations (for example: molten metal, acids, radioactive materials, etc.)
- For platforms employed at heights superior to 40 m they must limit the lateral movements by a guide system, composed by anchorages each 20 m. Consult section 8.3 "Guiding the platform".
- A special care is needed by dangers that will appear when the loads are manipulated.
- **In order to cover risks arising from misuse, it is necessary to use personal protective equipment (PPE) for the operators. See section 8.1 of this instruction manual.**
- **In some countries of the European Union is obligatory an inspection before the putting in service of a new work. This control must be realized by an authorized organism.**
- **In some countries of the European Union, a review of the commissioning by an authorization at the beginning of each new work is mandatory.**
- **The preparation of the procedure for entering a confined space is the responsibility of the company that uses the machine.**

IMPORTANT:

If you entrust this equipment to subcontracted personnel you have to apply and check his obligations about safety at work, specially for verifications and tests before the putting in service.

5-Machine's description.

5.1-Area of application.

The equipment described in this manual is intended to be used temporarily for maintenance work on sloped surfaces (lifting people and working tools).

The following equipment is excluded from this manual:

- Temporary suspended platforms equipped with devices with a maximum capacity of utilization of more than 500kg.
- Suspended temporary platforms suspended of 2 points or more.
- Suspended platforms designed for permanent installation in buildings.
- The platforms suspended from the hook of a crane.
- Suspended platforms used for potentially explosive atmospheres (ATEX).

5.2-Equipment of the TSP

The equipment described in this manual consists of a suspended aluminum platform, equipped with two E.lift 500 electric lifting devices, two Securichute 500 safety devices, suspended from steel cables. These steel cables are anchored in suspension clips attached to a beam anchored to the wall.

If this equipment is not adapted to your needs, ACCESUS can advise you on the choice of suspension scaffold and / or suspension structure more suitable for your particular case. If necessary we can design a specific hanging scaffold for you.

The TSP comprises the set of securities to form a temporary suspended access facility.

5.3-Main components

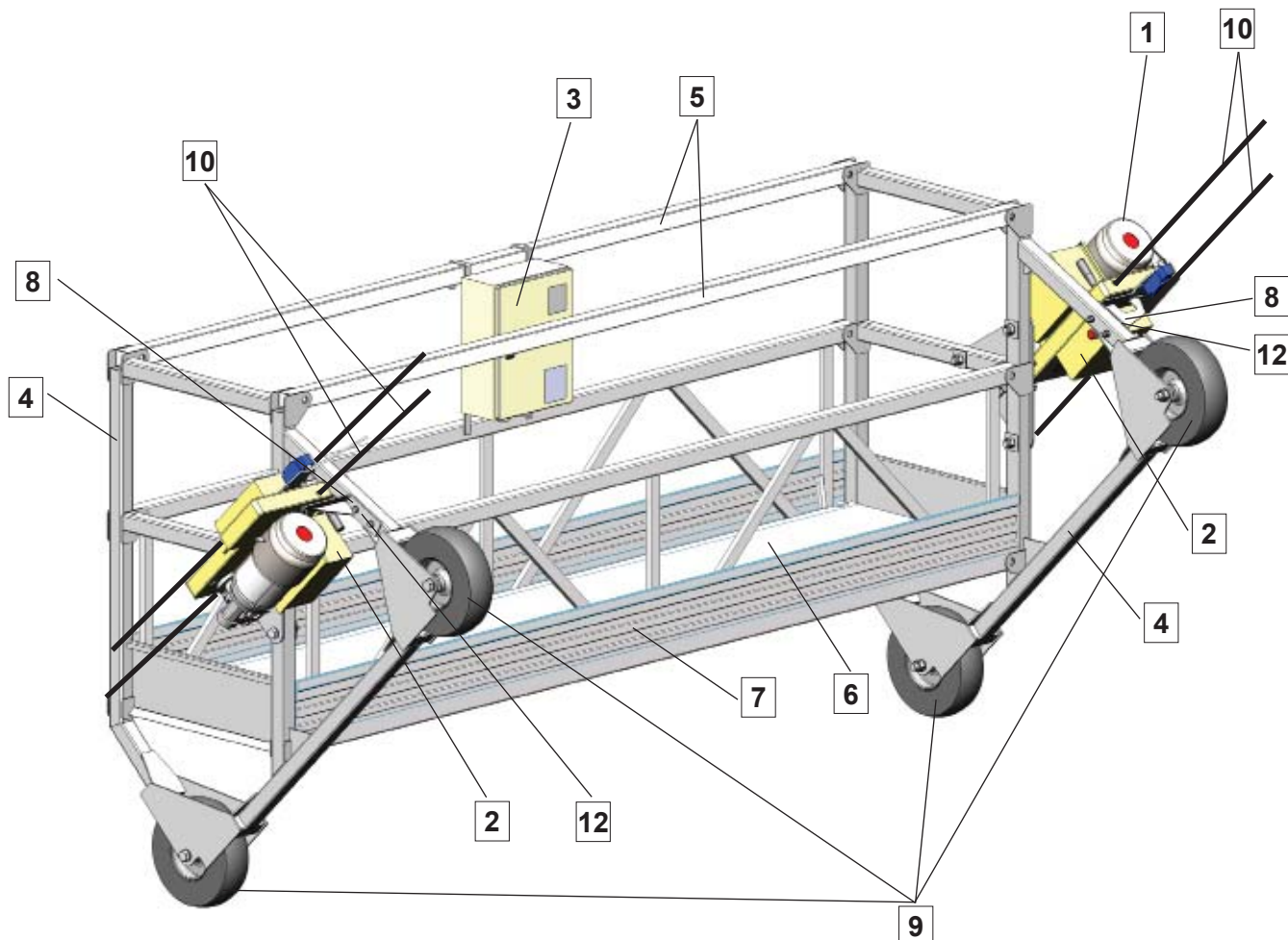
The main components are:

Suspended platform of aluminum and steel, composed by:

- 1-E.lift 500 lifting device. (2 pcs.)
- 2-Safety device securichute 500. (2 pcs.)
- 3-Electric cabinet (1 pc.)
- 4-Stirrup side panel for inclined plane (2 pcs.)
- 5-Handrail (2 pcs.)
- 6-Floor (1 pc.)
- 7-Side Support (2 pcs.)
- 8-Motor anchorage (2 pcs.)
- 9-Support Wheels (4 pcs.)
- 10-Suspension and safety wire ropes (2 pcs.)
- 11-Anchor plate (2 pcs.)
- 12-Plate lift support.
- 13-Wire rope guide plate.



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6-Assembly

6.1-Efforts due to suspended loads

The reaction in the hook of the wire ropes (suspension and safety) of suspended platform in the points of anchorage is:

	E.lift 500
Reacción no mayorada (R)	1250 kg

According to UNE-EN 1808, the anchor point must withstand the reaction with a safety factor 3.

A qualified person must carry out the test or load test and be responsible that the structure where the equipment is anchored, has sufficient capacity to withstand the stresses due to suspended loads.

ACCESUS recommends performing a load test on your special suspension structure to verify that the anchors are suitable. ACCESUS can provide this service and issue a certificate of test of load if you wish it.

6.2-Configurations / maximum lengths

The 3m. suspended platform 45° inclined plane is a special cabin of length 3m and width 700mm. The following tables describe configurations, load capacity and idle weight.

LOADING CAPACITY

elevator device	Platform length(m)	3
e.lift® 500	Loading capacity (kg)	240
	Number of people	2
	Empty weight (kg)	460

6.3-Suspension assembly.



¡DANGER!

<p>Hurts for wire ropes manipulation.</p>	<p>Danger of cuts and scratches.</p>
<p>Risk of wounds and injuries</p>	<p>Danger of death due to fall of objects, fall from different level and / or breaks.</p>
<p>due to fall of objects, fall from different level and / or breaks.</p>	<ul style="list-style-type: none"> -Before assembling the wire ropes, make sure that the suspension or davit structure has sufficient capacity to withstand the loads due to the suspended loads described in section 6.1 of this manual. -Use suitable PPE: harness, protective gloves, safety boots, protective helmet, etc. - Only the cables specified by the manufacturer must be used. - Ensure that the diameter of the wire rope corresponds to that indicated on the plate of the E.lift 500 and securichute 500, that the length of the wire rope is enough for the height of the work to be performed and that the tip is correct. -Avoid the formation of curls in the wire ropes. -Place the platform heavily under his suspensions.

6.3.1-Installation of suspension.

The 3 mts.suspended platform 45°inclined plane, is suspended from two anchor plates that meet the specifications described in the standard UNE-EN1808 and European Directive 2006/42 / CE.

Anchor plates are lifting accessories that have been designed:

-To anchor the hooks of the wire rope of a suspended platform..

The originality of these plates is its simple design, which allows, once installed easily, use them with great security.

This plate transmits the loads transmitted by the suspended platform. to the existing structure.

One board must be installed per pair of wire ropes. A total of 2 plates are required for the suspension of the 3 mts. platform 45° inclined plane.

6.3.2-Wire rope installation

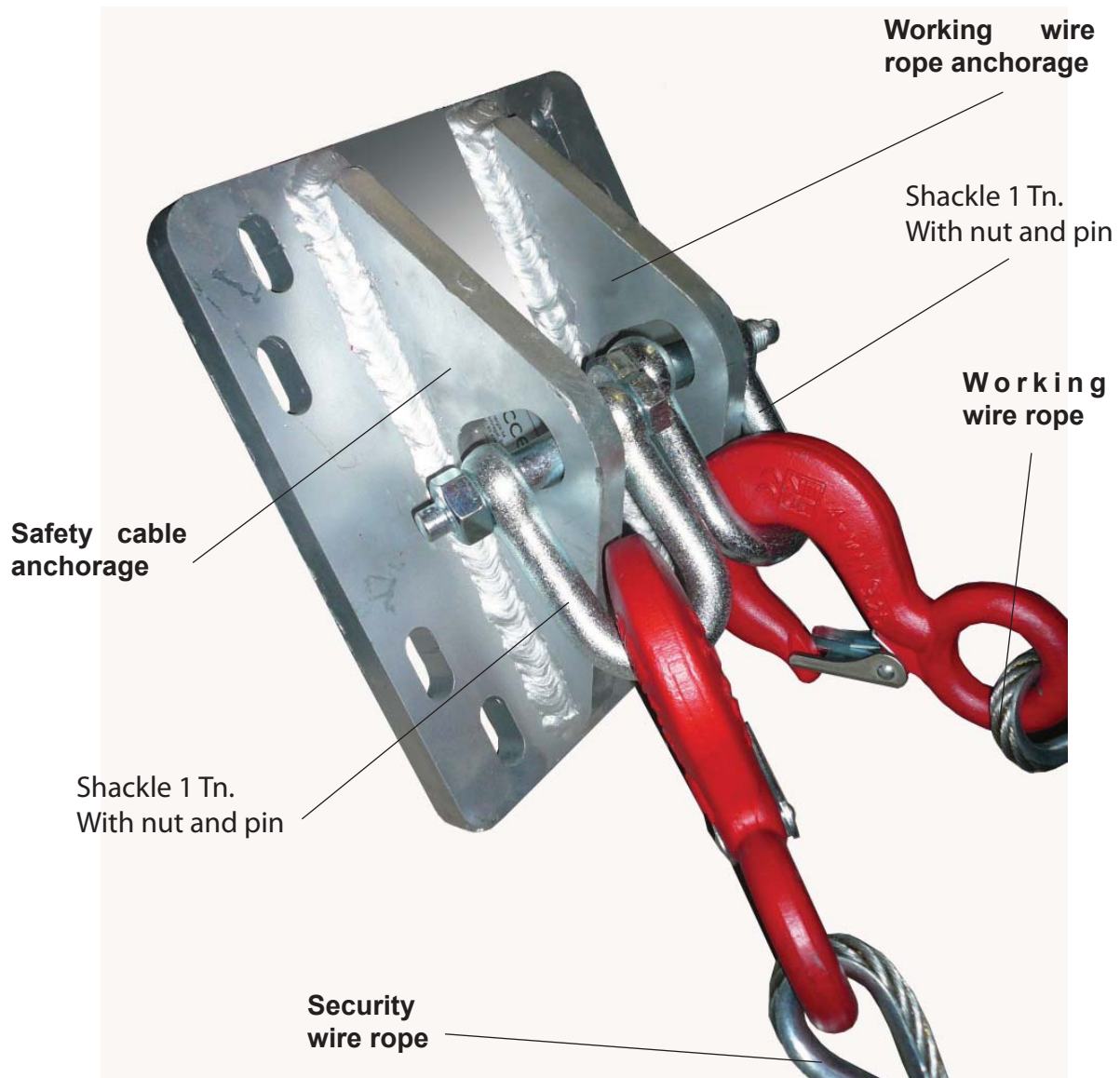
For the installation of the wire ropes two operators are needed: one on the platform and the second on the level of the suspension. The latter must be equipped with a harness that is anchored to a strong enough anchor point.

1-Unroll the lifting and safety wire ropes from the ground by lifting them with a rope, do not let them fall for them to unwind.

2-Hook the wire ropes to the ears of the plates separately for the lift and safety wire rope. The hook fastening must be perfectly closed.

It is mandatory to use these two independent anchor points.

3-By means of 1 shackle of 1 Tn with nut and pin, we will mount the cables as shown in the image.



6.4-Platform assembly

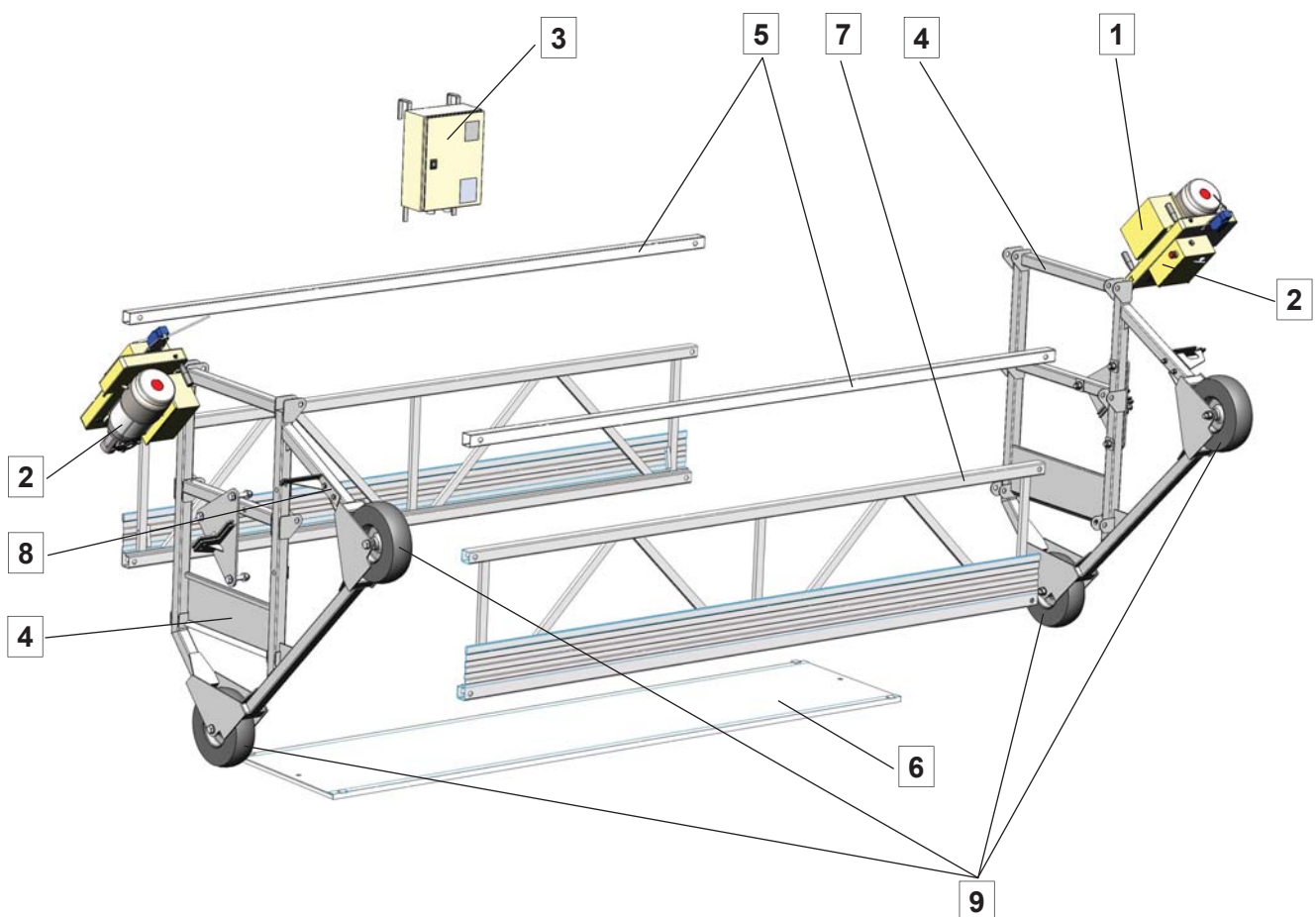


¡IMPORTANT!

Risk of wounds and injuries due to fall of objects, fall from different level and / or breaks.

Danger of death due to fall of objects, fall from different level and / or breaks.

-Before assembling the wire ropes, make sure that the suspension or davit structure has sufficient capacity to withstand the stresses due to suspended loads.



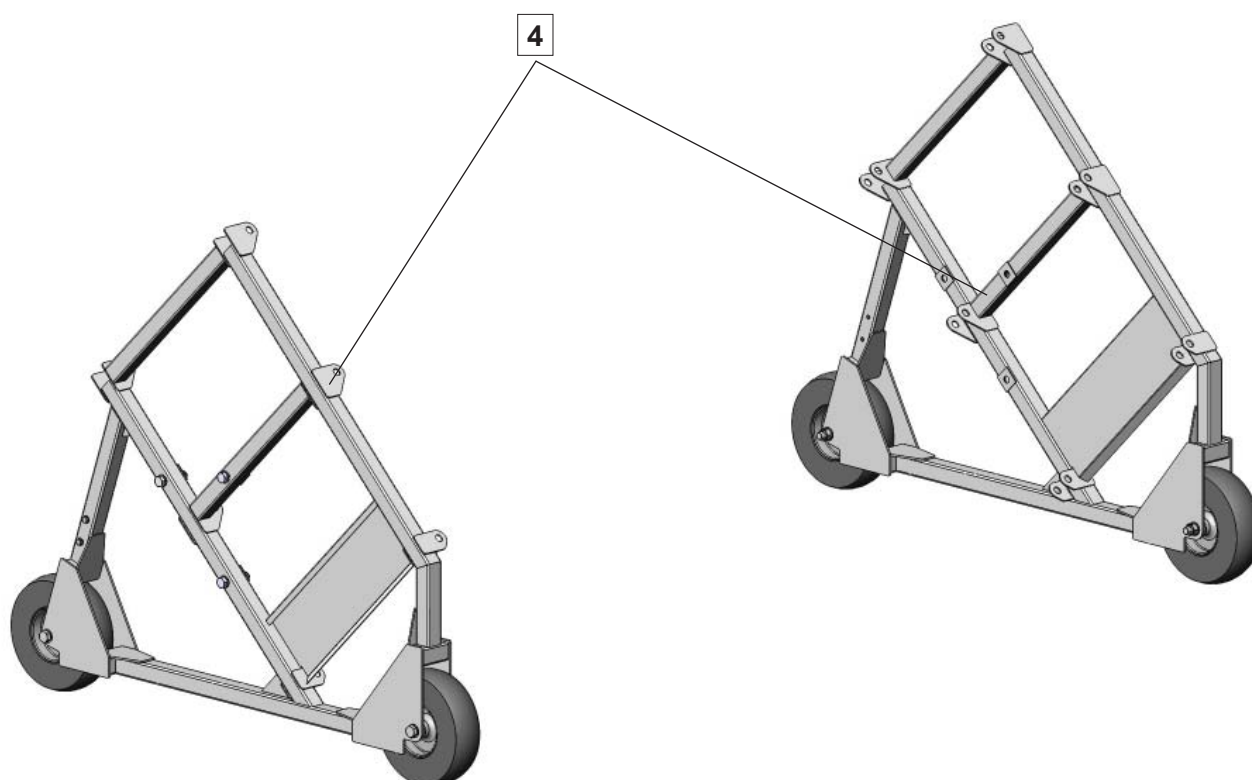
Necessary material:

Fixed and ratchet wrenches for hexagonal screw M10, M12, M16 and 2 people. The following table shows the required bolts and the correct tightening torque:

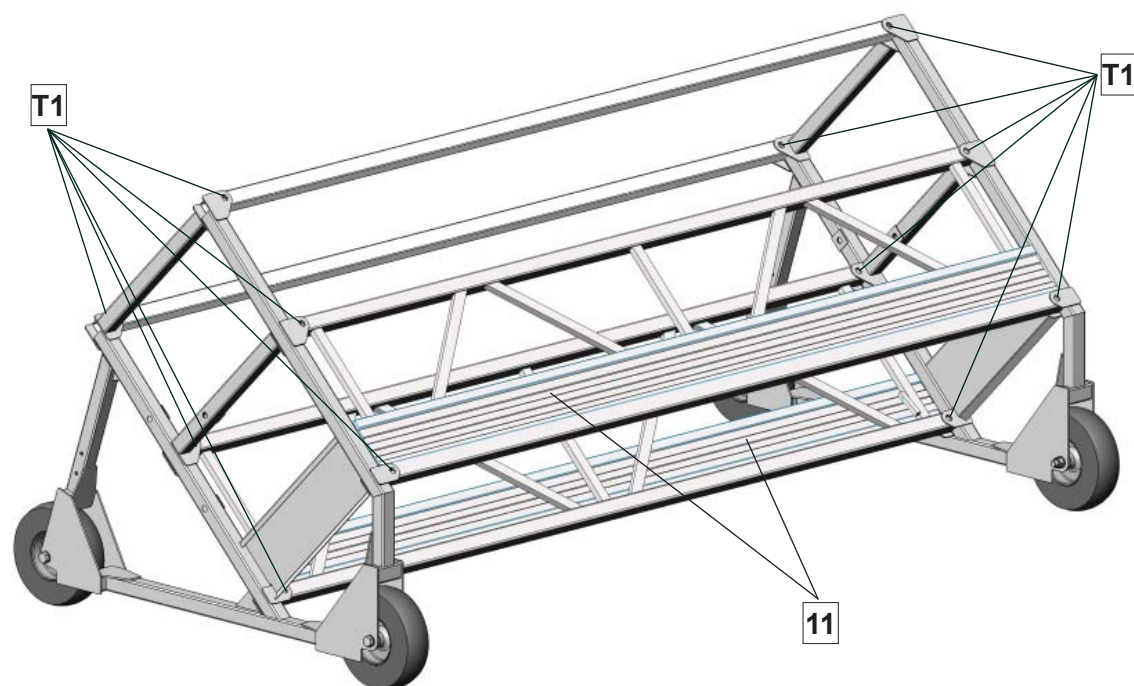
	DESCRIPTION	TORQUE	UNIT.
T1	Accesus pins		16
T2	Screw DIN931 M16x110 8.8 + Nut DIN985 + 2 Washer DIN125	153 Nm	4
T3	Screw DIN933 M12x40 8.8 + Nut DIN985	62 Nm	4
T4	Screw DIN931 M10x90 8.8 + Nut DIN985 + 2 Washer DIN125	36 Nm	4

The assembly of the platform step by step is described below:

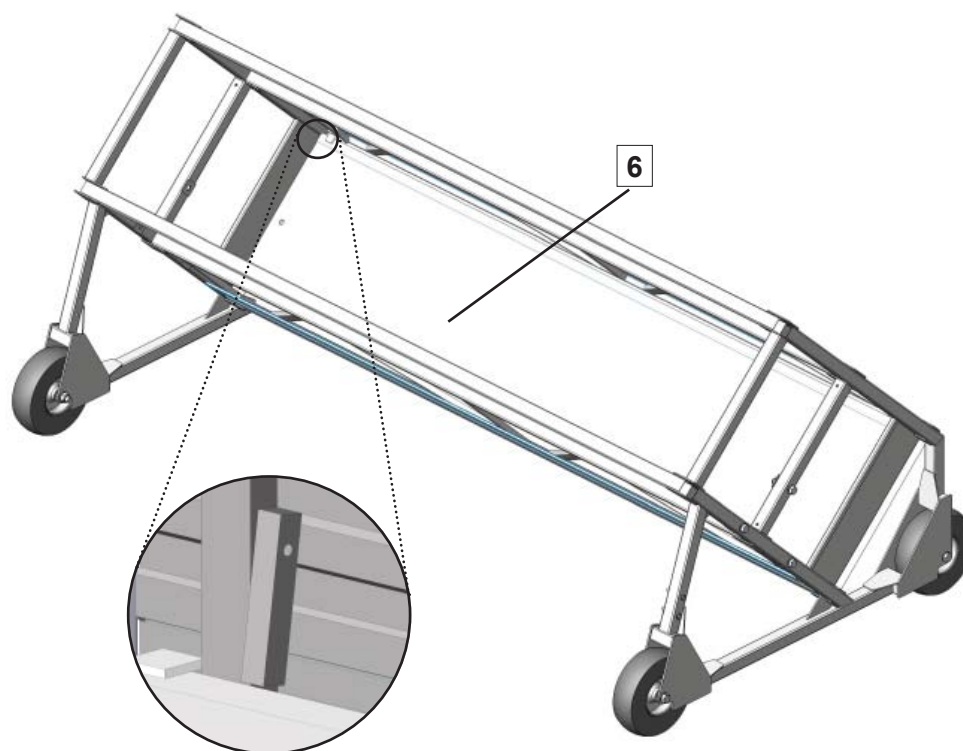
1-Place the stirrup side panel (4) on the ground and rest on the wheels.



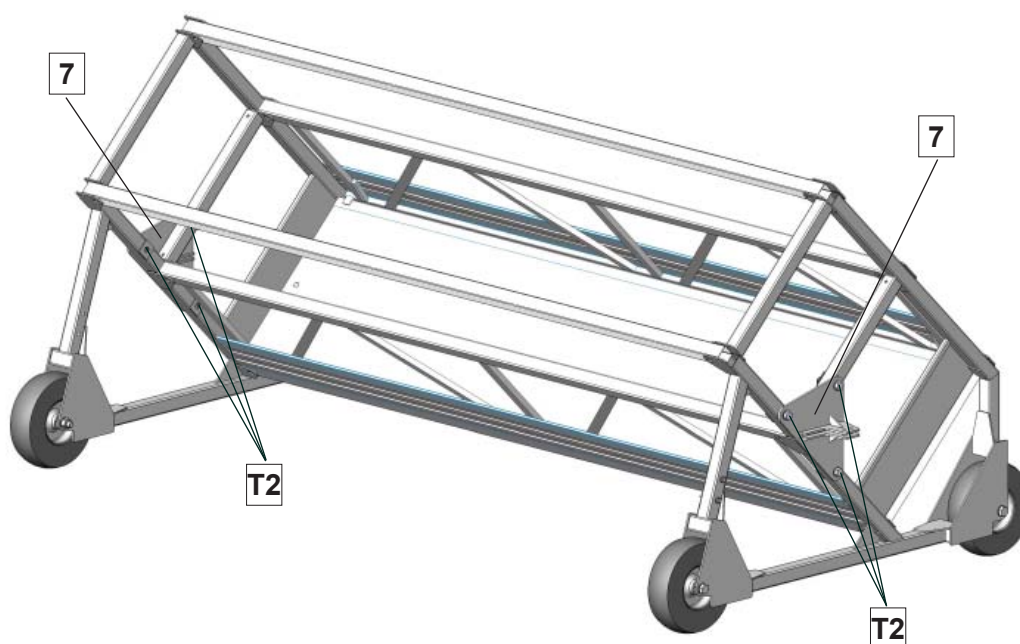
2-Attach the two stirrup side panel with the lateral supports (7) by means of 4 pins T1 by support.



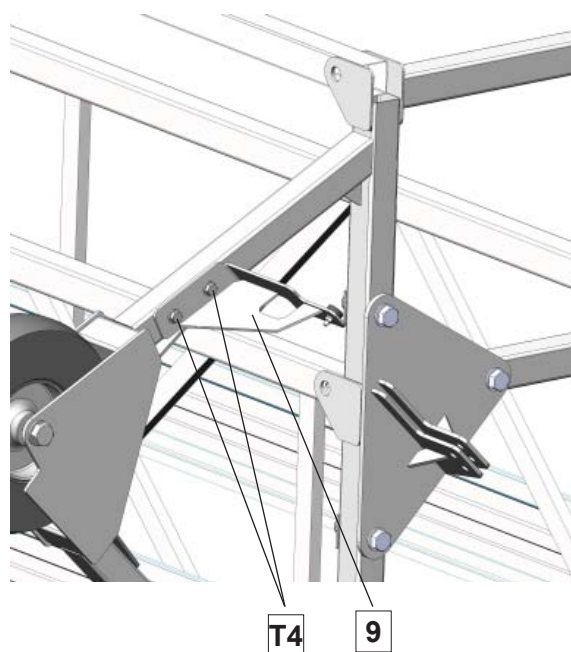
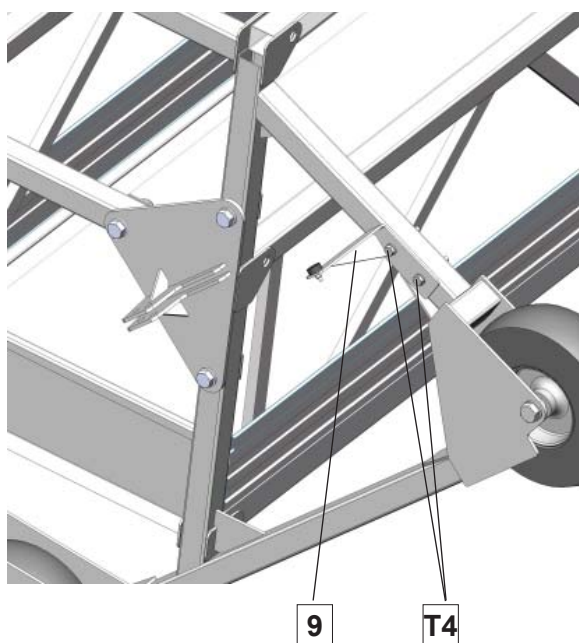
3-Position the floor (6) and secure it with the 4 stops.



4-Fit the motor anchors (8) and fasten it with 3 screws T2 by anchor.

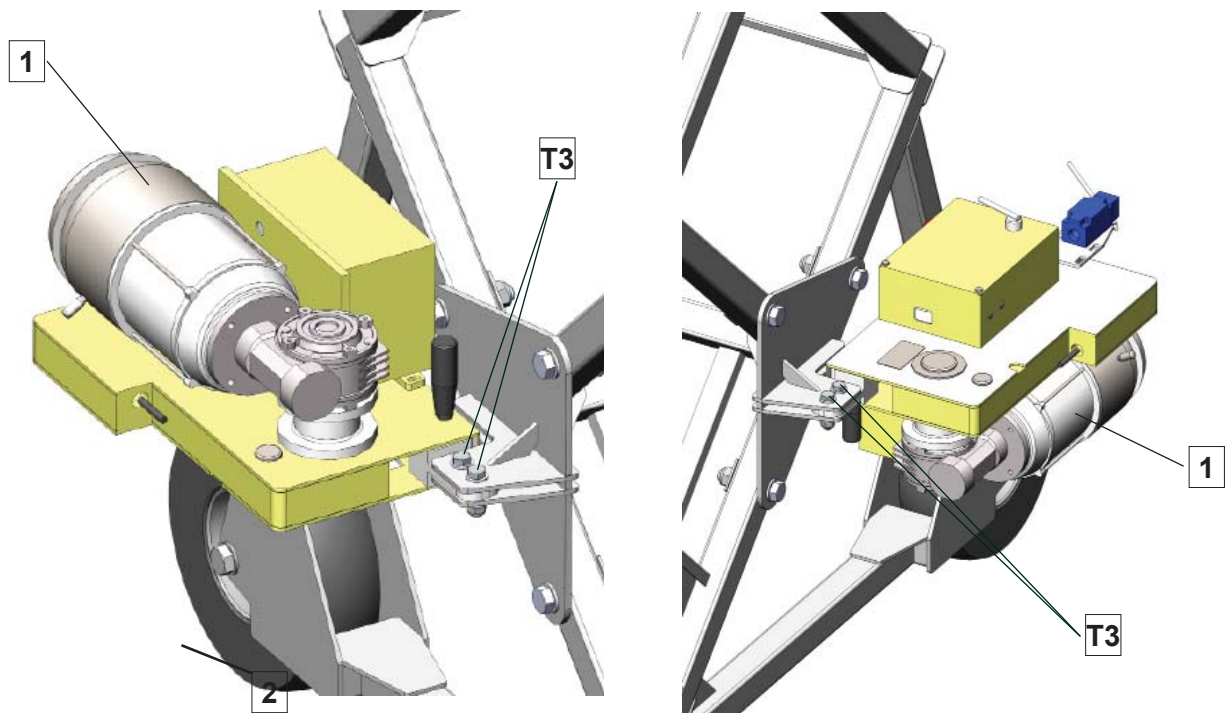


5-Fit the engine supports (9) and fasten them with 2 T4 screws per anchor.



3M PLATFORM 45° INCLINED PLANE

6-Next install the elevators in the anchors by means of 2 screws T3 by each elevator. Each elevator is positioned so that the most protruding part of the engine relative to the anchors will face toward the outside of the platform, each rotated 180 degrees relative to the other elevator.



6.5-Electrical equipment

In the case of the 3M PLATFORM 45° INCLINED PLANE equipped with an electric lifting device e.lift500 and its corresponding electrical cabinet.

Make sure that the power outlet is compatible with the electrical cabinet.

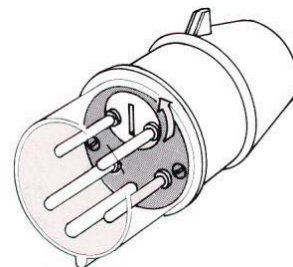
There are two types of standard power supply:

- Threephase 400 V 50 Hz
- Monophasic 230 V 50 Hz

- The power supply must be protected by a 16 mA differential circuit breaker, 30 mA.
- The section of the wires of the power cable between the floor and the platform must be compatible with the power of the appliances and the length of the power cable (see table).

Electric hose length mm ²	50 m	100 m	200 m
Threephase 380-400V	2.5	2.5	2.5
Monophasic 230V	2.5	4	6
Minimum section mm ² (per electric driver) for 2 e.lift 500			

- Fix the electrical cabinet on the handrail.
- Connect the power wire of the electrical cabinet to the power supply hose via the 16A CEE socket. The hose should be attached to the platform by a clamp or mesh attached to cables. For heights greater than 100m, verify the stress that the wire supports.
- Connect the e.lift to the electrical cabinet, check the correct operation of the appliance. Before the start of each working day, it is mandatory to check the correct functioning of the emergency stop.
 - The equipment is protected with a phase control system so if it does not work try changing the phases with a screwdriver, see image.
 - Grounding is done through the power supply line. The earthing function must be checked (check the protective cable and insulation). Additional measures will be necessary if necessary.
 - If necessary, a generator with a power equivalent to three times the rated power of the winch (generator power [kVA] = number of winches x rated capacity of winches [kW] x 3) can be used. The generator must be grounded by the operator. The earthing function must be checked (check the insulation protection).



6.6-Introduction of the wire ropes in the platform.

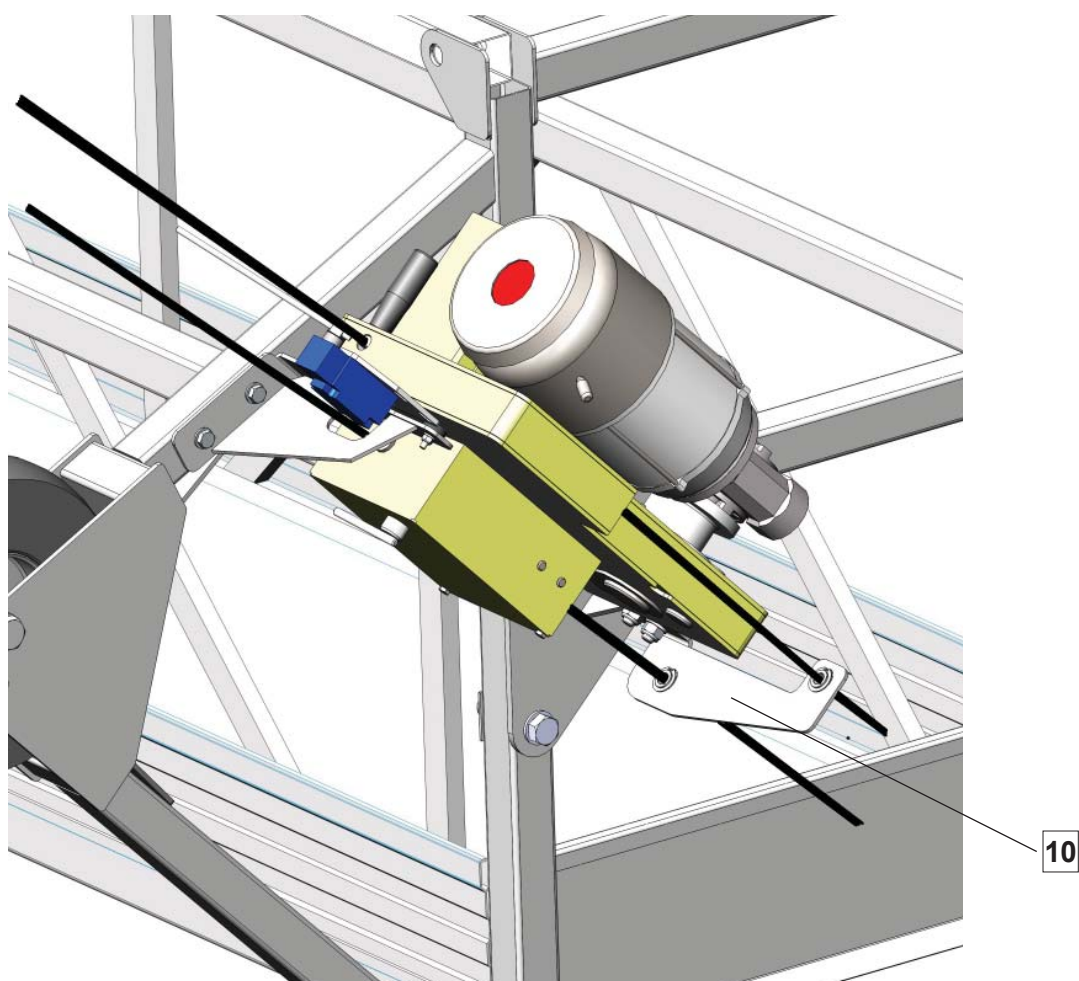


¡DANGER!

<p>Hurts for wire ropes manipulation.</p>	<p>Danger of courts and scratches.</p>
<p>Risk of wounds and injuries due to fall of objects, fall from different level and / or breaks.</p>	<p>Danger of death due to fall of objects, fall from different level and / or breaks.</p>
	<ul style="list-style-type: none"> -Use protective gloves to handle wires. - Only the cables specified by the manufacturer must be used. - Ensure that the diameter of the wire rope corresponds to that indicated on the plate of the E.lift 501 and securichute 600, that the length of the wire rope is enough for the height of the work to be performed and that the tip is correct. -Avoid the formation of curls in the wire ropes. -Place the platform heavily under his suspensions.

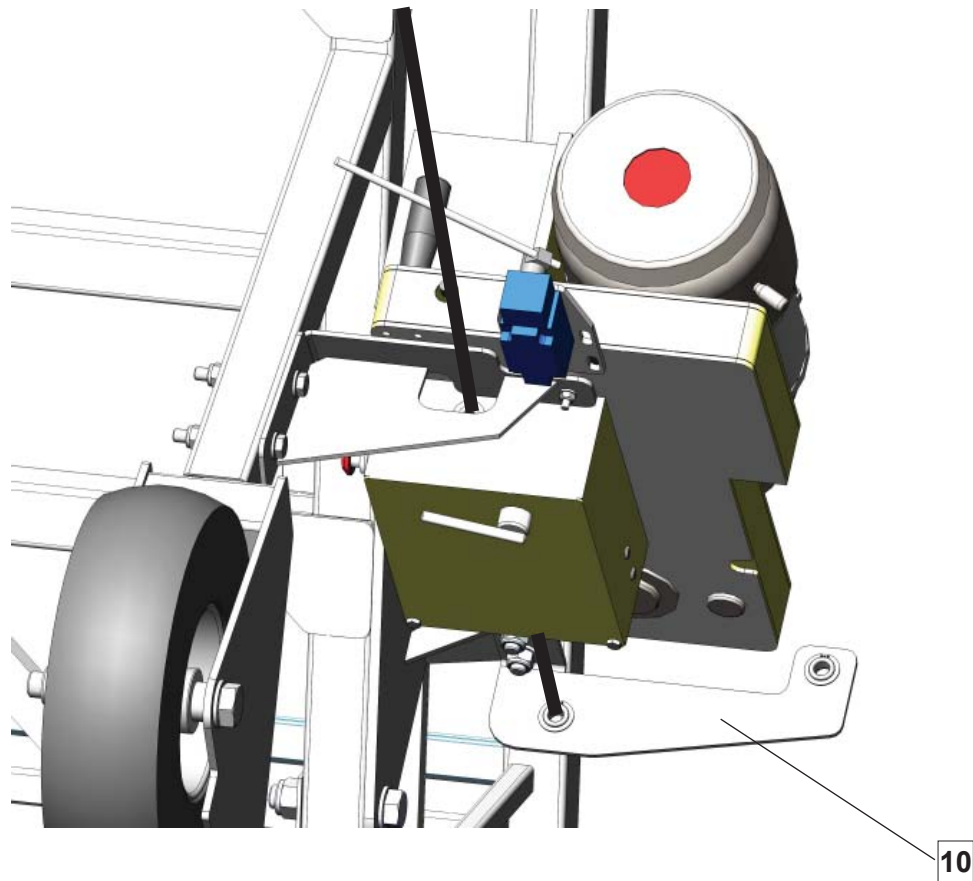
6.6.1-Introduction of the suspension wire rope.

- 1- Insert the tip of the cable into the elevator until it stops.
- 2- Turn the elevator selector to select one or the other elevator.
- 3- Press up and continue pushing the wire rope by hand until the elevator pulls the wire rope by itself.
- 4- Pass the wire rope through the wire rope guide (10).
- 5- Press upwards until the cable is slightly taut.



6.6.2-Introduction of the secondary wire rope.

- 1- Before to seep the secondary wire rope into the pulleys you have to verify that is not rolled with the suspension wire rope.
- 2 - Lock the emergency button of the securichute by pressing and turning it.
- 3- Push the reset lever down.
- 4- Insert the tip of the wire rope through the securichute and tighten it slightly.
5. Unlock the emergency button by turning it.
- 6- At the cable outlet through the fall arrest, pass it through the guide plate.
- 7- Attach a 20kg counterweight to the safety wire rope, by means of clips.



6.7-Test run



¡DANGER!

Risk of wounds and injuries due to fall of objects, fall from different level and / or breaks.	Danger of death due to fall of objects, fall from different level and / or breaks.
	-Do not stay under suspended loads. -If necessary, block the danger zone.

When performing the following tests, the equipment must be loaded with the maximum useful load, in order to be able to check the operation of the safety devices.

6.7.1-Check the service brake

- Connect the lift upwards until the wire rope is tightened.
- Lightening the load approximately 1m
- Stop the movement
- Turn it down
- Stop the movement

The stopping distance must not exceed 10cm. The lift must hold the load.

- Download the load and unscrew the cable
- Stop the elevator

The elevator must hold the wire rope.

If the lift does not hold the load, the wire rope and / or the travel stop is more than 10cm, have the elevator checked and repaired by ACCESUS or an ACCESUS authorized workshop.

6.7.2-Check the operation of the emergency stop

- Connect the lift upwards until the wire rope is tightened.
- Press EMERGENCY STOP.

The power supply to the motor must be switched off immediately. The elevator must hold the wire rope.

6.7.3-Check the operation of the securichute fall arrester (see section 11.4)

Verify that the securichute 600 ensures the attachment to the wire rope.

- Press the emergency button of the securichute 600. The jaws must close automatically and it must be impossible to pull the cable upwards manually.
- Research the securichute 600 by actuating the reset lever. The safety wire rope must be able to move freely by the securichute.

6.7.4-Check the operation of the detectors

A-Check the upper limit switch, see section 7.6.

- Display the limit switch manually

-The upward movement must be stopped, the winch must hold the load and the descent must be possible.

B-Check the phase control relay, see section 7.7

If the phase control relay does not disconnect the drive when it is first connected and the drive is moved in the correct direction with the UP button, everything is correct. If the direction is not correct or the phase control relay switches off the drive, use the phase inverter, see 7.7.

End of the check: Record the result of the checks in the log book.

7-Security

To ensure correct and safe operation of personnel, the e.lift 500 lifting platform is equipped with the following safety devices:

7.1-Safety devices integrated in the lift e.lift500

a) A main brake acts in the event of a power failure or when the operator stops operating the UP or DOWN buttons.

b) An electromagnetic overload detector cuts off the power supply in the event of an overload on the platform or that it overlaps with a projection during the ascent.

The overload is indicated by a lamp, optionally by the acoustic alarm (H1) of the electric cabinet.

c) An upper limit switch stops the lift as soon as the stem touches the top stop.

7.2-Safety devices integrated in the electrical cabinet

In case of emergency, the platform movement can be stopped immediately by pressing the “emergency button” (S0) of the electric cabinet.

Once the cause of the emergency has disappeared or has been removed, turn the push-button in the direction indicated by the arrows, press the GREEN running button (S1). Finally return to the cabinet and use the RISE (S3) or DOWN (S4) selector.

Some electrical cabinets are provided with a contact that cuts off the power to the highest elevator. The operator continues to press UP or DOWN: The elevator that has stopped automatically, will continue its movement as soon as the platform recovers the horizontal position. In the same way, in lowering the power of the lower elevator. The operator continues to press UP or DOWN: The elevator that has stopped automatically, will continue its movement as soon as the platform recovers the horizontal position.



7.3-Fall arrest device.

When the platform is running the secondary wire rope pass freely into the gags.

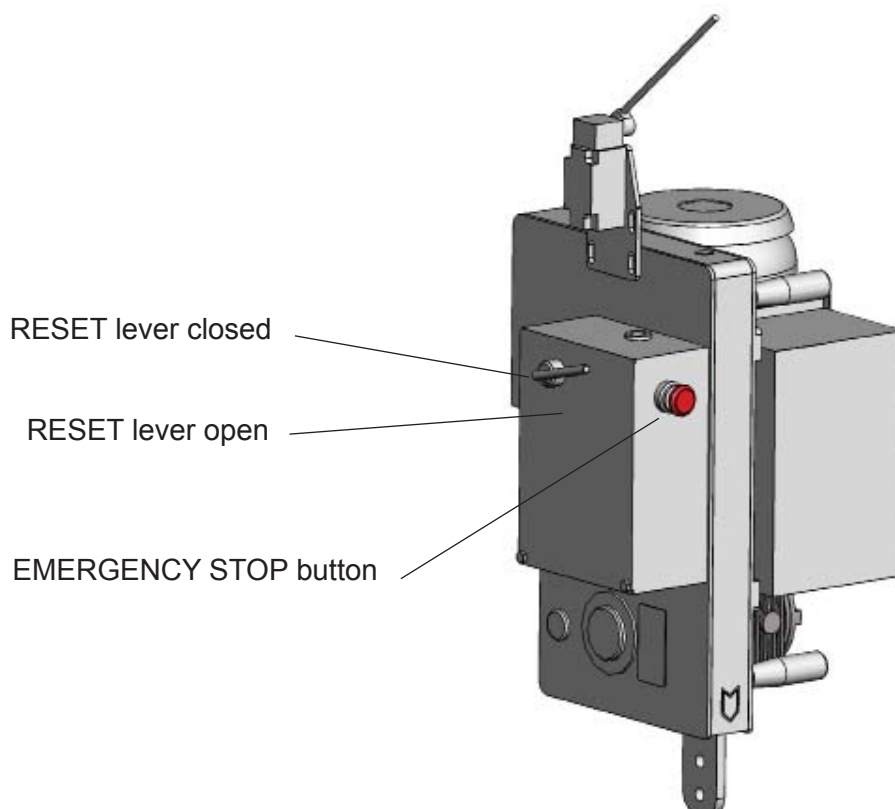
If the secondary wire rope is blocked it might be due to the following reasons:

- a) Rupture of the hoisting wire rope,
- b) Failure of the hoist
- c) Any problem with the hoist that causes an increase of the velocity,
- d) A crash,
- e) STOP EMERGENCY button is blocked,
- f) Gags not reset.

For blocks a) and b), a special emergency operation must be carried out.

For locks c), d), e) and f) the operator must restart the working cable by means of the lift. Move up a few centimeters unlock the EMERGENCY STOP button by turning it and operate the Sécuritéchute REAR lever until it is in the open position.

In case of slip of the elevator the operator can stop the platform by pressing the EMERGENCY STOP button of the Sécuritéchute.



Set of e.lift500 + securichute 500

7.4-Overload safety device e.lift500

The overload safety device integrated at the hoist stops completely the platform in this cases:

- a) Overload or incorrect load distribution at the platform,
- b) The platform has an obstacle during the ascent.

The overload is indicated by a lamp, optionally by the acoustic alarm (H1) of the electric cabinet.

7.5-Top and last limit switch e.lift500

The rise of the platform stops when the limit switch touches the disk or the end stop limit fixed on the wire rope.

The lowering maneuver is still possible.

In case of failure, it has a second contact that cuts off all movements of the platform.

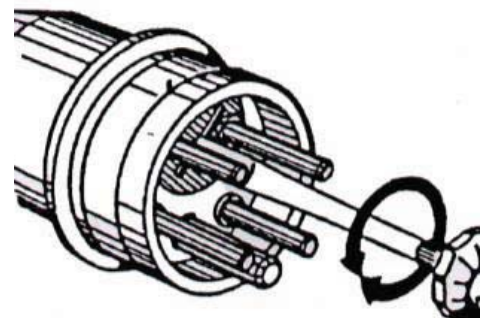
The limit stop must be installed below the hook and / or safety rope hook height.



7.6-Phase controller.

The three-phase equipments has a device which controls the direction of the phases. It is placed at the electric cabinet. This phase controller stops the power supply in case of an erroneous connection.

It's possible to invert the phases at the CEE connector by rotating 180° with a screwdriver.

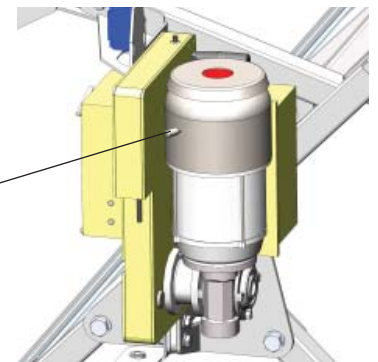


7.7-Emergency descent e.lift500

The powered hoists are equipped with a manual system that allows the descent of the platforms in case of no power supply.

The lever of emergency descent allows to descend with a controlled velocity in every moment.

EMERGENCY DOWN drive



7.8-Acoustic and luminous bleeper, optional.

The platform is equipped with a flashing LED, located in the elevator, which indicates at all times the position of the platform and that is in motion.

The ACOUSTIC alarm (H1) of the electrical cabinet can be used to send a distress signal or warning to other operators. This signal is activated with the EMERGENCY ARROW (OS) locked and simultaneously acting on the RISE (S3) and DOWN (S4) pushbuttons.

8-Operating the platform.

8.1-Preliminary checks.

a) Only cables specified by ACCESUS must be used. It is convenient to replace them if any of the faults indicated in section 11.2.3 are observed.

b) Check the proper functioning of the lift, the brake, fall arresters, limit switches, overload system, emergency stop, acoustic warning, etc.

c) Check the safety of the installation of the suspensions or davits and ensure that no components or counterweights have been removed. Particularly check the attachment and attachment of lifting and safety wire ropes.

d) Ensure that the suspensions are in place with respect to the platform.

e) Make sure that the load on the platform does not exceed the load allowed and that there is no accumulation of snow, ice, garbage, or surplus of materials on it. A.

f) In order to cover risks arising from misuse, the use of personal protective equipment (PPE) is mandatory for operators:

OPTION 1:

Use of EN361 harnesses and fall arresters EN352-2 with the corresponding lifeline with a length equal to or greater than that of the wire rope.

The lifeline, to which the operator will be attached by means of the fall arrester, must always be anchored to a resistant element independent of the platform and suspension.

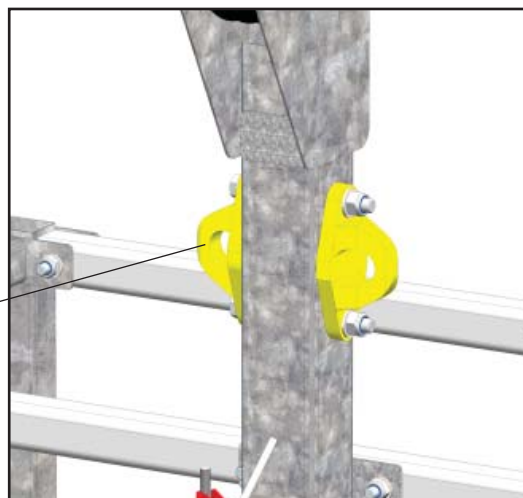
OPTION 2:

Use of EN361 harnesses and anchoring sling (EN354) with absorber (EN355) anchored to one of the anchor points (EN795) provided by the platform (availability of anchor point EN795 depends on model and configuration).

In addition all operators must be equipped with all the necessary PPE:

- harness
- 1.5m anchor cable with absorber
- safety gloves
- security boots
- helmet with barbell
- suitable work clothes

Anchor points



g) It is recommended to indicate the dangerous lower zone that could be the object of an eventual fall of tools or materials used in the platform. This recommendation becomes mandatory when the public can have access to this area.

h) The equipment is intended to be used in well-lit areas either naturally or artificially. In case of artificial lighting, the operator must be able to have sufficient illumination.

i) Ensure that the ambient temperature is between -10°C and $+55^{\circ}\text{C}$.

j) Never work with the platform in case of strong wind (over 50 km / h) or storm.

k) When the work is finished, the person in charge of the work must put the platform in a position out of service and cut off the power supply and / or take the appropriate measures to avoid any abusive use.

Está prohibido :

- a) Utilizar la plataforma sin el cable de seguridad y sin el anticaídas.
- b) Anular, puentear, las seguridades (sobrecarga, final de carrera, etc.).
- c) Sobrecargar la plataforma.
- d) Que las cargas circulen por encima del personal.
- e) Descender la plataforma abriendo manualmente el freno del elevador E.lift, cuando el descenso eléctrico es posible.

In some countries of the European Union, an examination of the putting into service at the beginning of the work by an authorized body is obligatory.

8.2-Admitted loads

¡IMPORTANT!

The loads shall be calculated as follows:

- the first and second person are calculated with a weight of 80 kg + 40 kg of material, while for the following persons 80 kg each have been taken into account.

The load should be evenly distributed over the whole platform.

LOAD CAPACITY

Elevator device	Platform length (m)	3
e.lift® 500	Load capacity (kg)	240
	Number of people	2
	Empty weight (kg)	450

8.3-Boarding / disembarking areas

Whenever possible, boarding and / or disembarking at the lower level.

To carry out the boarding and / or disembarking in a different level to the inferior one the following guidelines must be followed:

-The operator must have the approval of the safety officer of the work to carry out the maneuver of landing at a level other than the lower.

-The operator must be equipped with PPE's suitable for the maneuver to be performed: Harness, double anchorage sling with absorber, helmet with barbell, and all necessary PPE.

-The operator must at all times be anchored to an anchorage point sufficiently resistant and conforming to the EN795 standard, during the maneuver of landing and until it is located in a safe zone protected by handrail.

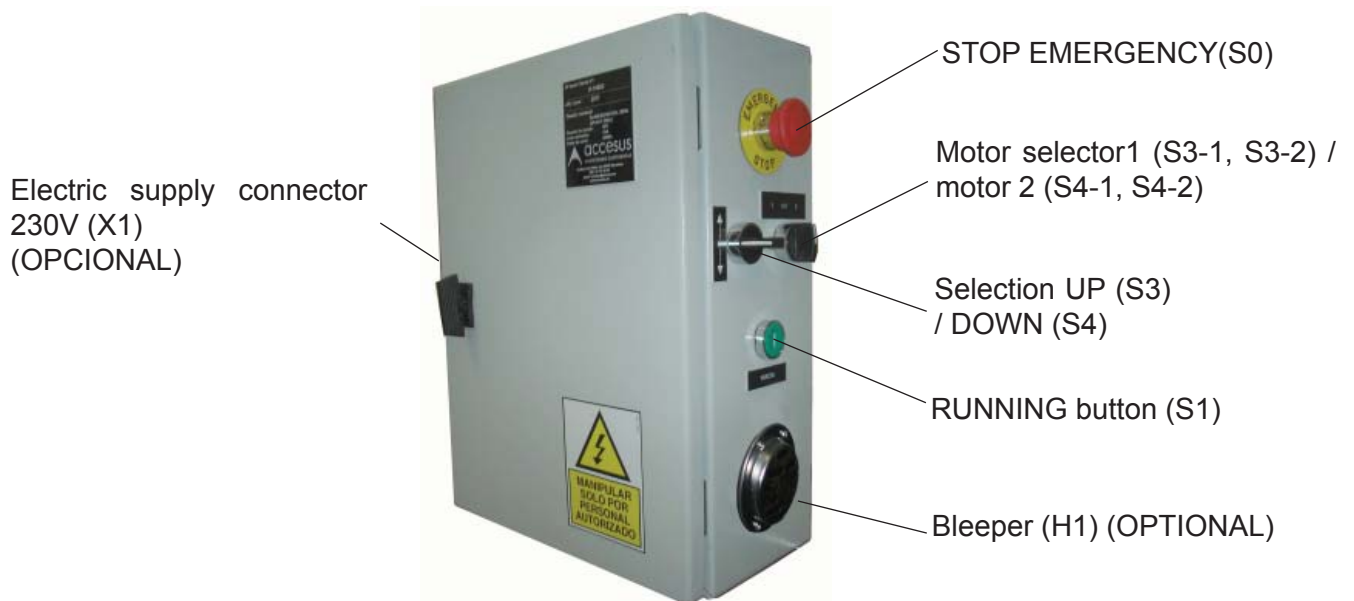
- It is forbidden to perform this maneuver alone.

8.4-Electrical controls

En caso de emergencia se puede detener el movimiento de la plataforma inmediatamente pulsando la “seta de emergencia” (S0) del armario eléctrico.

Una vez desaparecida o eliminada la causa de la emergencia, girar el pulsador en el sentido que indican las flechas, pulsar el botón VERDE de marcha (S1). Finalmente volver al armario y usar el selector de SUBIDA (S3) o BAJADA (S4).

Algunos armarios eléctricos están provistos de un contacto que corta la alimentación del elevador más alto. El operario sigue pulsando SUBIDA o BAJADA: El elevador que se había parado automáticamente, proseguirá su movimiento en cuanto la plataforma vuelva a recuperar la posición horizontal. Del mismo modo en bajada corta la alimentación del elevador más bajo. El operario sigue pulsando SUBIDA o BAJADA: El elevador que se había parado automáticamente, proseguirá su movimiento en cuanto la plataforma vuelva a recuperar la posición horizontal.



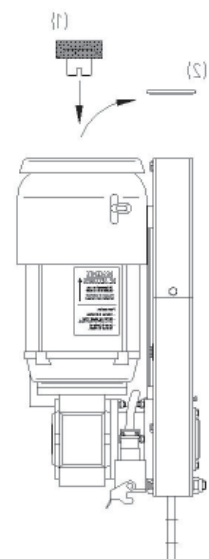
8.5-Manual emergency descent

It is forbidden to descend the platform by manually opening the e.lift lift brake, when the electric descent is possible.

The electric elevators are equipped with a manual emergency lowering system in the event of a power failure.

- a) Turn off the power by disconnecting the power supply.
- b) Lift the emergency lowering lever on the back of the elevator without opening the service brake. The platform descends by its own weight and its speed is limited and controlled automatically.
- c) If the platform does not descend on its own, the initial impulse should be given by releasing the handwheel (1) on the drive shaft after removing the plastic cap (2).
- d) The platform stops as soon as the brake lever is released.
- e) Once the platform on the ground, remove the steering wheel and put it back in the electrical cabinet. Put the plastic cap on top of the engine.

In case of overload a manual emergency descent is prohibited.



8.6-Action in case of blocking of the securichute

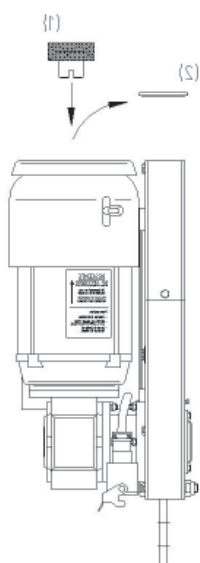
En caso de bloqueo del securichute proceder de la siguiente forma:

In case there is power supply.

Press UP on the electrical cabinet until the working cable is in tension. Open the securichute reset lever. You can continue working normally.

In case there is NO power supply.

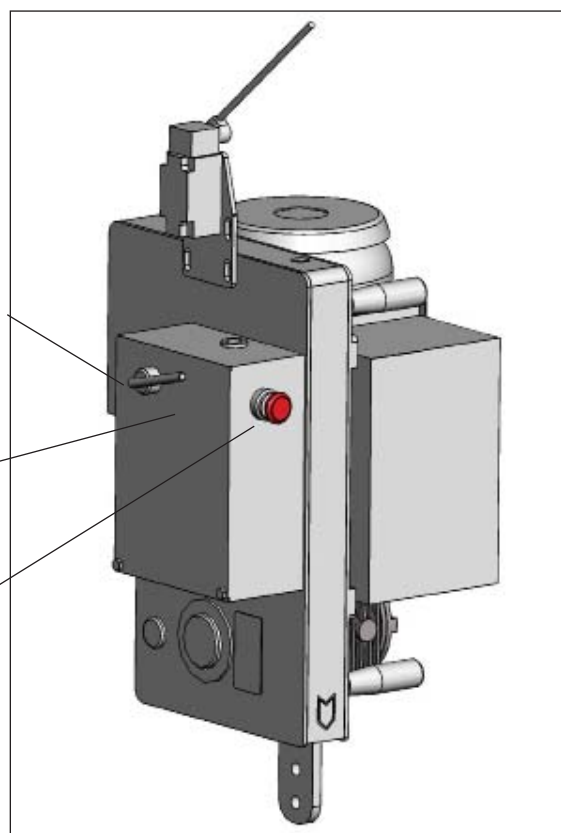
Remove the plastic cap (2). Turn the handwheel (1) on the drive shaft clockwise at the same time as opening the engine brake by lifting the lever without force until the working cable is in tension. Open the securichute reset lever. You can continue working normally.



RESET lever closed

RESET lever open

EMERGENCY STOP button



Set of e.lift500 + securichute 500

8.7-Request for help with an acoustic warning device, optional.

In case of emergency or need to request help.

The ACOUSTIC alarm (H1) of the electrical cabinet can be used to send a distress signal or warning to other operators. This signal is activated with the EMERGENCY ARROW (OS) locked and simultaneously acting on the UP (S3) and DOWN (S4) pushbuttons.

SOS is the most commonly used distress signal. It is transmitted by a succession of three short pulses, three long and three short pulses, in the form of a single continuous code.

8.8-Disassembling wire ropes



¡DANGER!

Hurts for wire ropes manipulation. Risk of wounds and injuries due to fall of objects, fall from different level and / or breaks.	Danger of cuts and scratches. Danger of death due to fall of objects, fall from different level and / or breaks.
	<ul style="list-style-type: none"> - Before proceeding to the dismantling of the cables and during the whole maneuver, make sure that the danger zone is free of people. -Use suitable PPE: harness, protective gloves, safety boots, protective helmet, etc. -Avoid the formation of loops in the handling of cables. -Use intercoms for the coordination of maneuvers between the operators at the base and the level of the suspension.

For the disassembly of the wire ropes, 2 operators are needed, one in the area of the suspension or davit and one in the base of the platform support zone.

- a) Lower the platform to the ground and loosen the wires sufficiently.
- B) Remove the lifting wire rope from the appliance by pressing the “down” button, or manually.
- c) Remove the safety wire rope from the fall arrester.
- d) Move the davit or suspension towards the interior of the roof of the building.
- e) At the base start to correctly wind the lifting, safety and guide wire in their reels.
- f) The operator on the deck uncouples the wire rope from the suspensions one by one and with a rope of adequate length let him descend to the ground. Do not drop wire ropes in free fall.
- g) The operator located at the level of the platform begins to correctly wind the lifting and safety wire rope in their corresponding winders.

8.9-Dismantling the platform



¡DANGER!

Risk of wounds and injuries due to fall of objects, fall from different level and / or breaks.	Danger of death due to fall of objects, fall from different level and / or breaks.
	-Use suitable PPE: harness, protective gloves, safety boots, protective helmet, etc. -Keep the area in order

Two people are required to dismantle the platform. Dismantling shall be carried out according to the means of transport to be used.

The disassembly process is the reverse of the assembly described in section 6.3 of this user manual.

9-Residual risks not covered in the conception of the TSP

- The platform is not equipped with an anti-collision device that automatically cuts the lift or lower in the event of a collision with an obstacle.

The operator must visually verify if any obstacles are likely to collide with the platform in its travel.



¡DANGER!

- The SECURICHUTE fall arrester is not equipped with a device that automatically cuts the lift or lower in case of blockage.

The operator must visually check if the SECURICHUTE is locked and perform the maneuvers described in this manual to unlock it.

- The noise level generated by the e.lift® electric motor is max. Of 65dB (A) at 1m distance.
- Never work with the platform in case of winds exceeding 50 km / h (14 m / sec)
- It is forbidden to work in case of strong winds or storms.

10-Troubleshooting



¡DANGER!

Risk of injury, injury and death from falling objects, falling to different levels, breakage and / or electrical contact.	Danger of death due to falling objects, falling to different levels and / or breakage. Danger of death through electric contact.
	- Stop work immediately. -Determining the cause and solving the fault. -Before performing the work proceed to disconnect the EEC power supply from the platform. The operator must be able to verify at all times that the outlet is disconnected.

The following are the instructions for the identification and location of faults for repair for platforms equipped with e.lift500 electric lift.

Faults	Probable causes	Solution
The device does not work when put into service	-Lack of current. -The phases are inverted	-Check the electrical supply by an electrician. -Invert phases, see section 7.7.
The motor runs on the rise, but the cable does not enter the device.	-The tip of the cable is not well rounded. -Driving of the pulley or the clamping system.	-Use an appropriate cable with the correct tip. - Check the device for ACCESUS.
The engine runs for a moment but then stops. The overload buzzer is activated.	Platform with overload.	Lower the platform to the ground and discharge the excess load.
The e.lift rises upwards but the platform does not rise.	- Significant voltage drop. - Rotation of some element of the kinematic chain.	-Check the available voltage or section of the power cables. -Check the device for ACCESUS.
The e.lift elevator works in ascension but with difficulties.	- Significant voltage drop. -The service brake is closed.	-Check the available voltage or section of the power cables. -The brake lining is worn. Make it replace. -The brake is badly regulated, have it checked by ACCESUS.
The e.lift rises for a long time on rise and then stops. The engines are hot.	Thermal protection has been activated.	Wait for the engine to cool down and if it is possible to partially discharge the platform.
The e.lift riser operates in descent but the platform does not go down.	Securichute or Securistop blocked.	See section 8.7
The lift e.lift operates normally and then stops.	Power failure or power failure.	Check the presence of current.
The e.lift lifter does not work on an ascent.	Upper limit switch failure.	Check the limit switch by an electrician.
The e.lift starts slowly.	Single-phase motor: the starting capacity is defective or the centrifugal switch has defects.	The elevator must be inspected by ACCESUS.
The operator receives discharges when touching the platform.	Fault in the earth circuit or protection in line source.	Do not use the platform and have the electrical system checked by an electrician.
It is not possible to operate the Securichute fall arrest lever by hand.	Mechanical breakdown.	Replace the securichute and send to repair by ACCESUS.

11-Maintenance



¡DANGER!

Risk of injury, injury and death from falling objects, falling to different levels, breakage and / or electrical contact.	Danger of death due to falling objects, falling to different levels and / or breakage. Danger of death through electric contact.
	<ul style="list-style-type: none"> - Stop work immediately. -Determining the cause and solving the fault. -Before performing the work proceed to disconnect the EEC power supply from the platform. The operator must be able to verify at all times that the outlet is disconnected.

11.1-Annual review

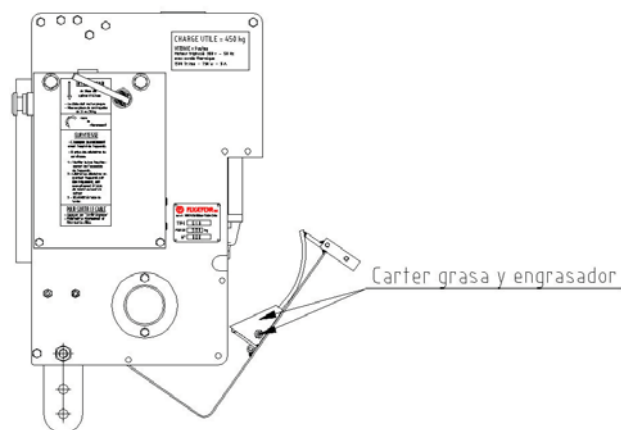
The equipment covered by this instruction manual must be checked annually by the ACCESUS maintenance department or by an ACCESUS authorized repairer.

11.2-Periodic maintenance

The simple maintenance tasks listed below can be assigned to unqualified personnel.

11.2.1-Lubrication of the lift attachment pulley e.lift

- a) Open the rear crankcase, see image.
- b) Clean the adhesion wheel (dirt, rope wear, sand, etc.).
- c) Replace grease in the grease trap.
- d) Clean dirt.
- e) Check the function of the limit switch.



11.2.2-Cable greasing

Lift cables should be cleaned and greased regularly. To do this use IGP SHP 50 grease or equivalent and distribute it by means of a cloth along the length of the cable.

11.2.3-Replacing wire ropes

Only the cables recommended and supplied by ACCESUS guarantee the operation of the lifts in complete safety.

The wire rope has a nominal diameter of 8.3mm, a hook with a safety catch at one end and a free end rounded at the other. The cable has an identification plate that identifies the origin, diameter and length.

The wire ropes must be replaced in the following cases:

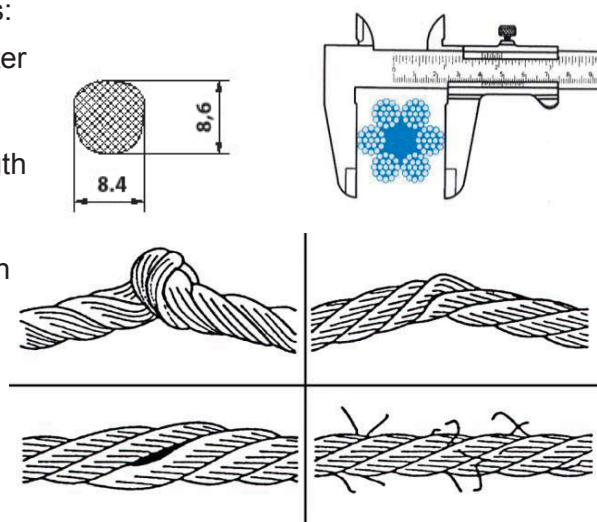
a) Reduction of diameter. Minimum diameter 7.4mm (for wire ropes with nominal diameter 8.3mm).

B) Rupture of more than 10 threads over a length of 25 cm for the wire rope Ø8,3 mm.

C) Deformations in basket or rupture of one of the wire ropes of the cable.

d) Cable crushed, untwisted.

e) Strong oxidation.



11.2.4-Securichute fall protection controls

Regularly check the proper functioning of fall arresters.

If the fall arrester does not operate properly when performing the following tests, it must be replaced immediately and sent to the manufacturer or an authorized repairer for inspection.

a) Daily verification:

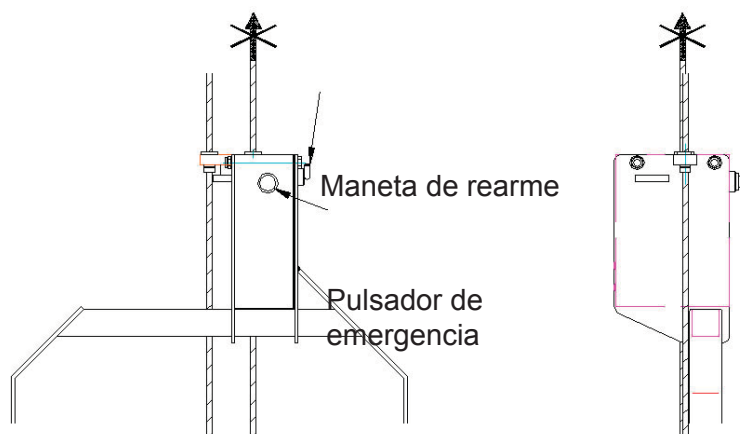
Check that the Sécourichute secures the fastening to the safety wire rope.

- Press the emergency button of the Sécourichute.

The jaws should close automatically and it should be impossible to pull the wire rope up manually.

- Reset the Sécourichute by actuating the reset lever.

The safety cable must be able to move freely through the Sécourichute.



b) Periodic verification.

With the platform resting on the ground.

- Pull the safety cable upwards with a dry blow.

The Sécourichute must assume immediately the subjection to the cable. Repeat this operation at least 3 times in a row.

- Reset the Sécourichute by actuating the reset lever.

12-Spare parts

12.1-3 mts. platform 45° inclined plane

Indicate the platform model and serial number, as well as the description of the part.

12.2-Elevator e.lift.

Indicate the model and serial number of the elevator, as well as the description of the part.

12.3-Securichute fall protection.

Indicate the model and serial number of the fall arrester, as well as the description of the part.

12.4-Electrical cabinet.

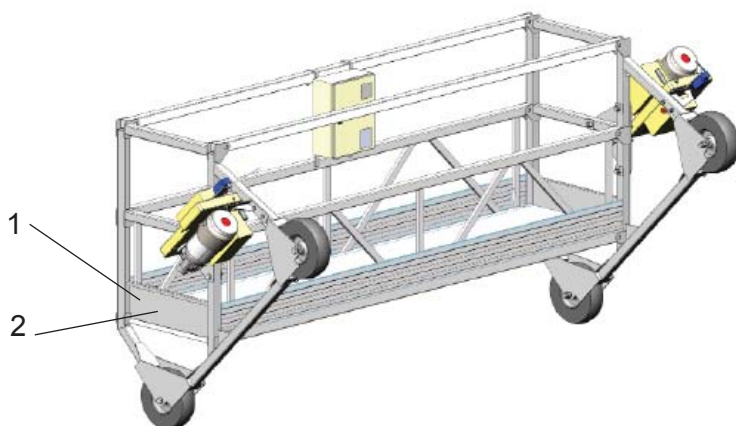
Indicate the model and serial number of the electrical cabinet, as well as the description of the part.
The electrical diagram is located inside the electrical cabinet.

12.5-Anchor plates.

Indicate the model and serial number of the anchor clamp, as well as the description of the part.

12.6-Machine labels

Check that the labels are in place.



Identification label (2)

Model:

3M PLATFORM 45° INCLINED PLANE

Serial n°:

211043-1701



Manufacturing Year: 2017

Load capacity (kg)	240
Number of people	2
Empty weight (kg)	330



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PLATAFORMAS SUSPENDIDAS

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08940 Cornellà de Llobregat (Barcelona)

Tel.: (+34) 93 475 17 73

accessus@accessus.es

www.accessus.es

Warning label (2)

WARNINGS OF USE

- This platform is intended for professional use. Only persons who have received adequate training and are suitable for work at height are authorized to use it.
- For safety in your application, it is imperative that the operator knows and applies the instructions indicated in the instruction manual delivered with the platform.
- Never exceed the maximum permissible load or the maximum number of persons indicated on the load plate fixed to the platform.
- Stop the work and place the platform on the ground if the wind speed, measured in the place that is most exposed to it, exceeds 50km / h if it is an unguided platform, and 60km / h if it is a guided platform. Do not work in stormy weather.
- With rain, check the e.lift's engine brake to avoid slipping.
- Before each commissioning, the equipment must be checked by a competent person.
- The unit must be serviced once a year.



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PLATAFORMAS SUSPENDIDAS

13-Disposal and environmental protection

Reusable materials have been used for the manufacture of the apparatus. The apparatus must be subjected to a regulatory elimination for subsequent dismantling. It must be carried out correctly according to the waste directive 75/442 / EEC which is the one applied in the European Union.

According to Directive 2002/96 / EC, the manufacturer is obliged to recover and manage certain pneumatic and electronic components. The components in question are identified on the nameplate with the following symbol:



14.1-Daily Inspection Report

This inspection report is for guidance, in no case will Accesus be responsible for the content, or annotations.

It is obligatory to read and assimilate the instructions in the user manual before proceeding with the use or maintenance of the platform.

Responsible for the inspection		
Company		
Date		
Place		
Indicate the serial number of the machine and all its components.		
	Model	Serial N°
Platform		
Lift		
Fall arrest device		
Electric cabinet		
Wire rope	Length:	Length:

Ref.	Description	OK	NO OK		Observations
			Repairable	Not repairable	
1	Platform				
1.1	Cleaning				
1.2	Welding				
1.3	Handrail				
1.4	Floor				
1.5	Limit switch				
1.6	End plate				
2	Lift 1				
2.1	Cleaning				
2.2	Noise				
2.3	Vibrations				
2.4	Plug				
3	Lift 2				
3.1	Cleaning				
3.2	Noise				
3.3	Vibrations				
3.4	Plug				
4	Fall arrest device 1				
4.1	Cleaning				
4.2	Emergency button				
5	Fall arrest device 2				
5.1	Cleaning				
5.2	Emergency button				

3M PLATFORM 45° INCLINED PLANE

Ref.	Description	OK	NO OK		Observations
			Repairable	Not repairable	
6	Electric cabinet				
6.1	Emergency button				
7	Wire rope 1				
7.1	Hook and hook fastening				
7.2	Deterioration				
8	Wire rope 2				
8.1	Hook and hook fastening				
8.2	Deterioration				
9	Wire rope 3				
9.1	Hook and hook fastening				
9.2	Deterioration				
10	Wire rope 4				
10.1	Hook and hook fastening				
10.2	Deterioration				
11	Electric hoses				
11.1	Plugs and connectors				

In case of detecting one or more nonconforming points, the platform must be immobilized and prevented from being used until the defects detected are solved.

14.2-Periodic inspection report

This inspection report is for guidance, in no case will Accesus be responsible for the content, or annotations.

It is obligatory to read and assimilate the instructions in the user manual before proceeding with the use or maintenance of the platform.

Responsible for the inspection		
Company		
Date		
Place		
Indicate the serial number of the machine and all its components.		
	Model	Serial N°
Platform		
Lift 1		
Lift 2		
Fall arrest device 1		
Fall arrest device 2		
Electric cabinet		
Wire ropes	Length:	Length:
Wire ropes	Length:	Length:

Ref.	Description	OK	NO OK		Observations
			Repairable	Not repairable	
1	Platform				
1.1	Cleaning				
1.2	Welding				
1.3	Handrail				
1.4	Floor				
1.5	Limit switch				
1.6	End plate				
2	Lift 1				
2.1	Cleaning				
2.2	Engine crankcase				
2.3	Connection box				
2.4	Brake operation				
2.5	Noise				
2.6	Vibrations				
2.7	Screws				
2.8	Plug				
3	Lift 2				
3.1	Cleaning				
3.2	Engine crankcase				

3M PLATFORM 45° INCLINED PLANE

Ref.	Description	OK	NO OK		Observations
			Repairable	No repairable	
3.3	Connection box				
3.4	Brake operation				
3.5	Noise				
3.6	Vibrations				
3.7	Screws				
3.8	Plug				
4	Fall arrest device 1				
4.1	Cleaning				
4.2	Emergency button				
5	Fall arrest device 2				
5.1	Cleaning				
5.2	Emergency button				
6	Electric cabinet				
6.1	Emergency button				
6.2	End plate				
7	Wire rope 1				
7.1	Diameter				
7.2	Hook and hook fastening				
7.3	Deterioration				
7.4	Broken thread				
7.5	Tip				
8	Wire rope 2				
8.1	Diameter				
8.2	Hook and hook fastening				
8.3	Deterioration				
8.4	Broken thread				
8.5	Tip				
9	Wire rope 3				
9.1	Diameter				
9.2	Hook and hook fastening				
9.3	Deterioration				
9.4	Broken thread				
9.5	Tip				
10	Wire rope 4				
10.1	Diameter				
10.2	Hook and hook fastening				
10.3	Deterioration				
10.4	Broken thread				
10.5	Tip				

Ref.	Description	OK	NO OK		Observations
			Repairable	No repairable	
11	Electric hoses				
11.1	Plugs and connectors				
11.2	Corte				
11.3	Splices				
11.4	Clamping flange				
11.5	Proper section				

In case of detecting one or more nonconforming points, the platform must be immobilized and prevented from being used until the defects detected are solved.

The lifting device, the fall arrester and the central cabinet must be checked by Accesus once a year.



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PARA TRABAJOS
EN ALTURA



HARNESS

- Approved harnesses with front and / or back anchor, with or without positioning belt, fireproof, suitable for suspension work, designed for women, with high visibility ...
- High-end harnesses from € 55.



SLINGS

- Available with or without connectors, adjustable, double, with or without energy absorber, flame retardant, rope or elastic band ...
- Slings with different lengths and prices from 6 €.



FALL ARREST AND DESCENDERS

- Fall arrest of rope, retractable fall arrest of cable of steel, retractable fall arrest with rescuer, descensores of emergency with crank for ascent ...
- Fall arrest with length of cable up to 60 m.

Request it by phone on 93 475 17 73
Or through the email accessus@accessus.es
You can also download it at:
www.accessus.es/es/catalogos





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