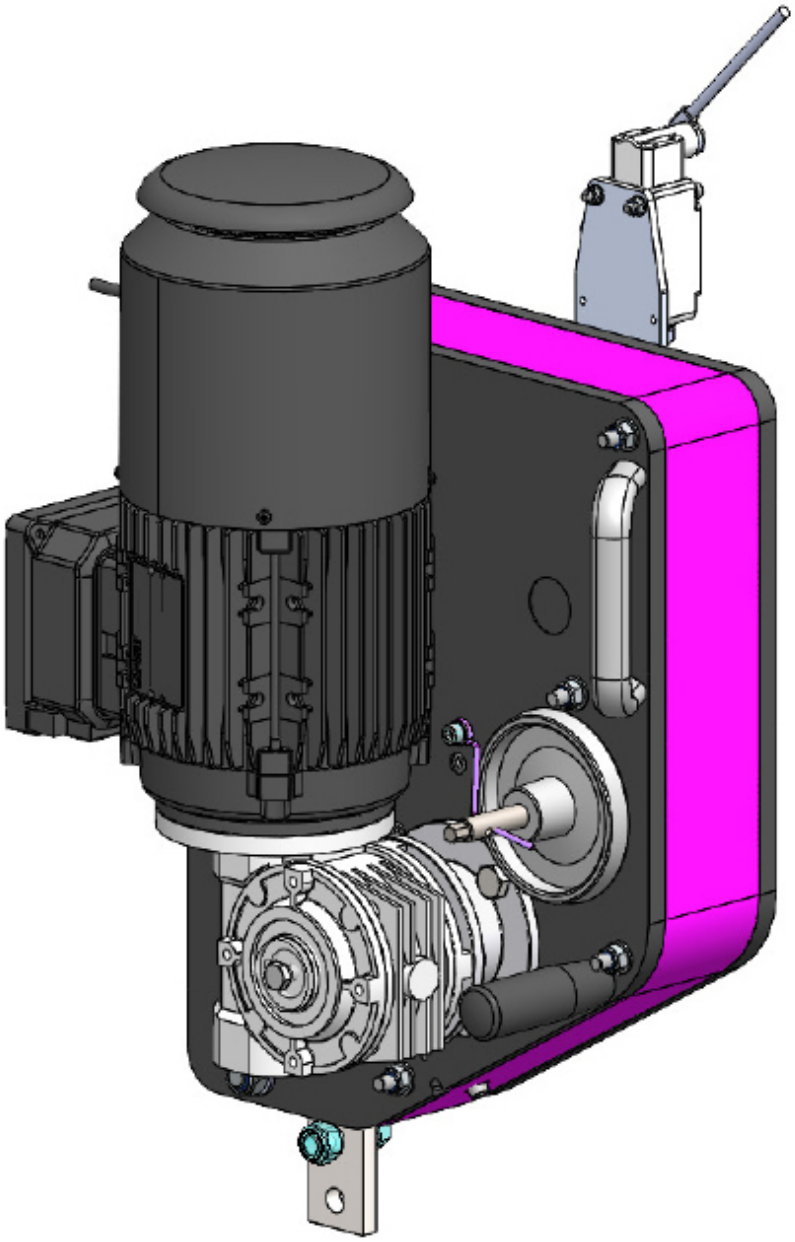
accesus

ACCESUS LEVA



TRANSLATION OF THE ORIGINAL INSTRUCTION MANUAL

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

Index:

DANGER!

Risk of injury and injury from falling objects, failure, misapplication and/or misuse.	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 safety utilization of the equipment.

1-Information for this manual

Date of edition:	**Manufacturer:**
2nd Edition: 09/2023	**ACCESUS GROUP, S.L.** C/ Energia 54 08940 Cornellà de Llobregat (Barcelona) Telf.: (+34) 93 475 17 73 www.accesus.es accesus@accesus.es
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2-Symbols used in this manual

DANGER!

Type and origin of danger	Result: for example 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 the described machine. This operating instructions manual must be accessible to workers every time. Request more copies if it is necessary.

ACCESUS GROUP 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, demanding the documentation through address described at section 1 of this instructions manual. Please, check our website: www.accesus.es.

3.1-Glosary 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.

TSP Temporary Suspended Platform.

Exploiter The responsible for both the regulatory operation of the installation of the device and compliance with maintenance intervals and repair works.

4-Previous instructions and warnings

• The equipment may only be used by authorised, properly trained and mentally fit persons. The equipment must be kept out of the reach of unauthorised persons.

• Before installing and using the equipment, it is essential, for safe and efficient operation, to read and assimilate the contents of this manual and to proceed in accordance with its instructions. Likewise, before commissioning, read the various labels attached to the equipment.

• This manual must be kept in good condition and be available to any operator using the equipment.

• If labels are lost or damaged, they must be replaced before putting the equipment back into service. Other manuals and labels can be provided on request.

• 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.

•Do not use the equipment 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.

• Do nott 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.

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

• In addition to the instructions given in this manual, the manufacturer declines all responsibility for the consequences of disassembly of the equipment or any modification or manipulation beyond his control, in particular in the case of replacement of original parts with parts of a different origin.

• The equipment is calculated for a life span of 10 years. This life is based on using the platform in accordance with the instructions in this manual for up to 200 hours per year and on the condition that annual inspections are carried out.

• Do not use the equipment in severe conditions such as atmospheric extreme conditions, corrosive environments, magnetic fields, explosive atmospheres (ATEX), works under tension, works in confined spaces, etc.

• Do not use the TSP to manipulate loads whose nature could lead to dangerous situations (example: molten metal, acids, radioactive materials, etc).

• Only original approved cables may be used. Please note the type and diameter of the cables.

• The cable, the components in contact with the cable and the hoists must not be soiled with construction materials such as concrete, epoxy resin or other adhesives. Protect the equipment from soiling. In heavily soiled environments, brushes and accessories must be used to clean the cable.

• When sandblasting or water blasting in the vicinity of the hoist, protect the hoist against damage to its function.

• Check the condition of the cable according to section 8.4.1 of this instruction manual.

• Clean equipment regularly.

• Check all bolts for correct tightness at regular intervals. Self-locking nuts must not be reused, they must be replaced.

• Replace damaged components or have them repaired by a technician. Repairs may only be carried out by an authorised workshop or by ACCESUS.

• Cleaning of the cable with high-pressure water is prohibited.

• A dirty cable causes premature wear or destruction of the cable, the lifters and the components in contact with the cable.

• Do not lubricate the cable with lubricants containing disulphide (Molycote).

• Observe the safety data sheets of the lubricant manufacturers.

• Observe the transport, storage and cleaning instructions given in section 7.6 of this instruction manual.

• The fasterners must be suitable in acoordance with the information in this instruction manual and the applicable standars/guidelines.

• The motors may become hot during use. Do not touch the motors.

• During operation: Do not pick up the cable, do not handle the cable inlet or outlet.

• Work on electrical equipment may only be carried out by a qualified electrician or by traine personnel under the direction and supervision of a qualified electrician in accordance with the applicable standards and electrotechnical regulations.

• When carrying out welding work, the national occupational safety and health and safety regulations must be observed.

• Do not use without the plugs on the motor. Moisture ingress can impair brake function.

• **In some EU countries, a commissioning examination by an approved body is compulsory at the start of each new construction project.**

- In order to cover risks arising from improper use, it is necessary for operators to use personal protective equipment (PPE) to prevent falls. See section 8.1 of this instruction manual.

4.1-Indications for the Operator

• The operator is responsible for drawing up an emergency rescue plan and informing all operators and supervisors thereof. The emergency plan must be written down and kept together with this instruction manual.

• The operator is responsible for ensuring that personnel are trained in all measures stipulated in the rescue plan by means of drills under safe conditions.

• The operator is responsible for the availability of instruction manuals and for ensuring proper operation of the device.

• Warning and identification labels must be placed in a location where they are clearly visible at all times. Missing or no longer legible labels must be replaced.

• The operator is responsible for the operation of the installation and for ensuring that regular maintenance is carried out.

• A minimum weight is required for emergency lowering.

• The operator or manufacturer of the installation must ensure that the emergency lowering load is sufficient in all situations and that the maximum working load is not exceeded.

• The operator is obliged to keep the maintenance logbook.

• Within the European Union, the European Directive 89/391/EC is in force. The national occupational safety regulations applicable in the country of the operator must be observed.

• Provide appropriate personal protective equipment such as: protective gloves, hearing protection and fall protection.

• In any case provide sufficient illumination of the workplace.

• These operating instructions must be handed over to the personnel in charge. The documents must be accessible at all times.

• The operator of the installation is responsible for the choice of the method of attachment and the appropriate lashing possibilities.

• The fasteners must comply with the instructions in this manual and the applicable standards/guidelines.

• If original spare parts are not used, safe operation cannot be guaranteed. This applies in particular if original cables are not used. In this case, the warranty claim against the manufacturer becomes invalid. In case of CE-certification, this becomes invalid.

• Please note the permissible temperature range.

4.2-Responsibility of the plant manufacturer

• The manufacturer of the installation is responsible for the design, manufacture, assembly and commissioning of the installation, for its approval and for issuing the EC declaration of conformity.

• The ACCESUS products included in the scope of delivery must be carefully selected by the system manufacturer, used and installed in accordance with the instructions in these operating instructions.

• The information and instructions contained in these operating instructions must be integrated into the operating instructions for the system and supplemented by system-specific data. It is not sufficient to simply hand over these operating instructions.

• If necessary, a detailed static and dynamic test report must be attached.

• The maintenance record of the installation must contain data on the maintenance of the product and accessories. If necessary, a detailed static and dynamic test report must be attached.

IMPORTANT:

If you have to entrust the equipment described in this manual to subcontracted or similar personnel, check and apply your obligations under the applicable national regulations on safety at work, particularly with regard to checks and tests prior to commissioning.

RISK ASSESSMENT:

According to 92/57/CEE, each contractor shall prepare a Safety and Health plan at work which analyses, studies, develops and supplements the previsions contained in the study or basic study, based on their own system of execution of the work.

5-Description of equipment

5.1-Area of application

The LEVA hoist is designed for lifting and lowering personnel hoists as well as combination hoists for lifting persons and loads.

The product is suitable for the following operating conditions:

-For temporary or permanently installed installations.

-Permissible temperature range, see table section 5.3.

DANGER!

Danger of serious accidents	Danger of cuts and scratches. Risk of death due to falling objects, falling from a different level and/or breakage.
	- 24-hour operation is prohibited. -Operation in explosive areas is prohibited. -Operation in corrosive environments is prohibited. -Operation in the vicinity of open flames or in extremely hot environments is prohibited.

Any use different from what is indicated in this manual will be considered improper. Accesus Suspended Platforms is not liable for any damages that may occur in this regard. The risks shall be borne exclusively by the operator. Proper use also includes the observance of all instructions in this manual, in particular compliance with the installation and maintenance instructions.

5.2-Healt and safety requirements

The LEVA hoist is an equipment manufactured in accordance with directive 2006/42/EC.

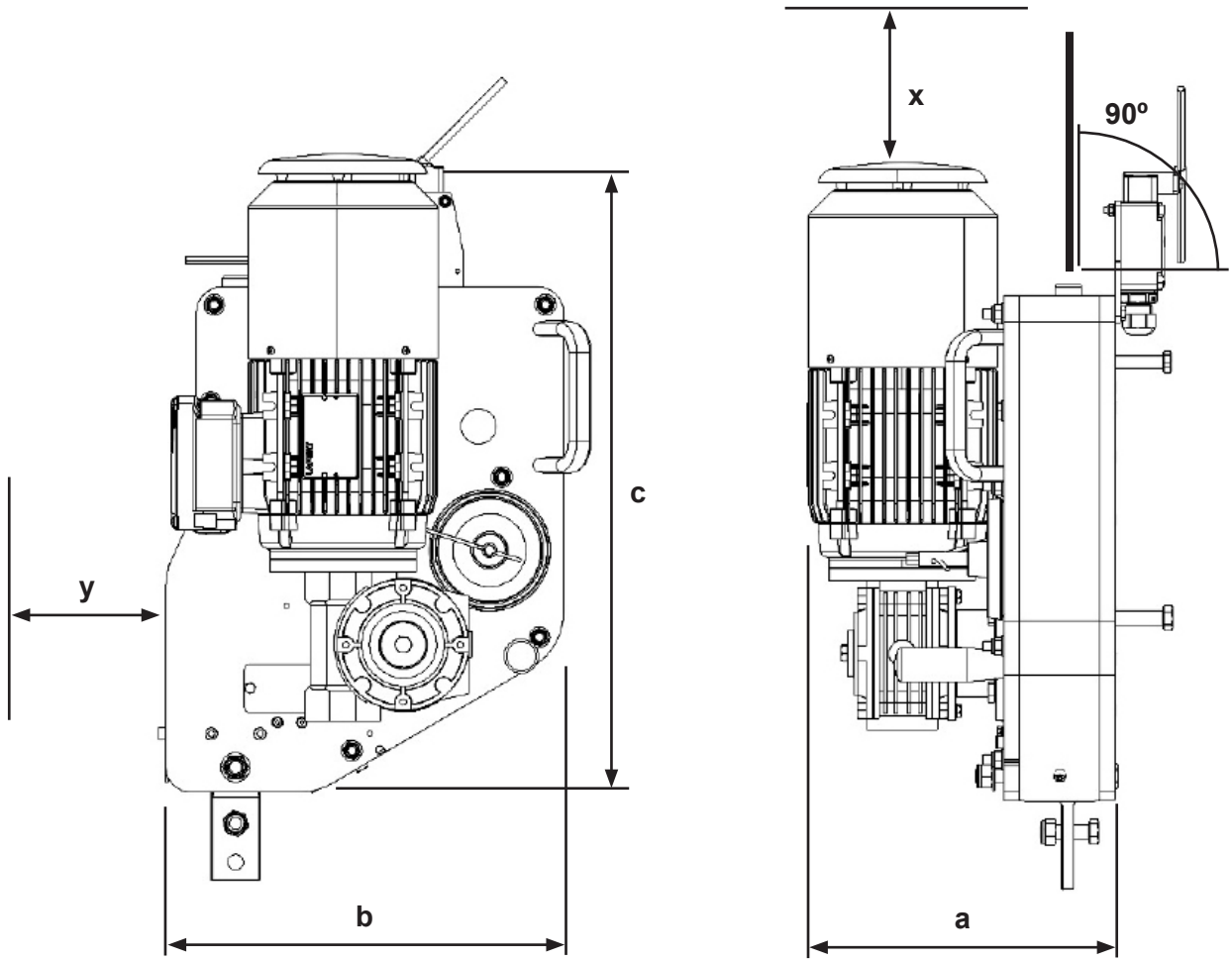
The machinery may not be put into service until the machine into it has to be incorporated complies as a whole with the provisions of Directive 2006/42/EC and the relevant national legal exemption from the implementation of the Directive in national legislation and the corresponding declaration of conformity has been issued.

-In the case of machinery for lifting loads, the operator or manufacturer of the plant must carry out a risk assessment in accordance with Annex I of Directive 2006/42/EC. EN 14492-1 must be taken into account in the planning of the installation.

-In the case of machinery for the lifting of persons or persons and goods referred to in Annex IV No 17 to Directive 2006/42/EC, the operator or manufacturer of the installation must carry out a conformity assessment procedure in accordance with Article 12(3) or (4) of that Directive. EN 1808 must be taken into account in the planning of the installation.

5.3-Características técnicas

Type	Leva 500	Leva 501	Leva 502
WLL (kg)	500	500	500
P engine (kW)	0.75	0.75	1.1
Voltage (V)	380-415 3~	220-240 3~	220-240 1~
I nominal / ignition (A)	3/11A	4/12 A	6/15 A
Frequency (Hz)	50/60	50/60	50
Weight (kg)	43	43	43
Dimension a (mm)	253	253	253
Dimension b (mm)	327	327	327
Dimension c (mm)	500	500	500
Tº of use (ºC)	-10 / +55	-10 / +55	-10 / +55
Operating speed (m/min)	8	8	8
Emergency descent speed (m/min)	4,5	4,5	4,5
Ø and type of cable (mm)	Ø8,3 - 5x19 o 5x26, with a synthetic soul	Ø8,3 - 5x19 o 5x26, with a synthetic soul	Ø8,3 - 5x19 o 5x26, with a synthetic soul
Minimum cable breaking load (kg)	4800	4800	4800
Noise emitter (dB(A))	70	70	72
A1-A2 (mm)	32	32	32
Screw A1-A2	M12 8.8 Ø12,5	M12 8.8 Ø12,5	M12 8.8 Ø12,5
X (mm)	~250	~250	~250
Y (mm)	~250	~250	~250



5.4-Operation

- Leva is a winch for transporting people or people and goods. The winch is driven by an electric motor.

- The winches can be raised and lowered as well as pulled in the pulling direction of the rope.

- Operation is via a control box or central control.

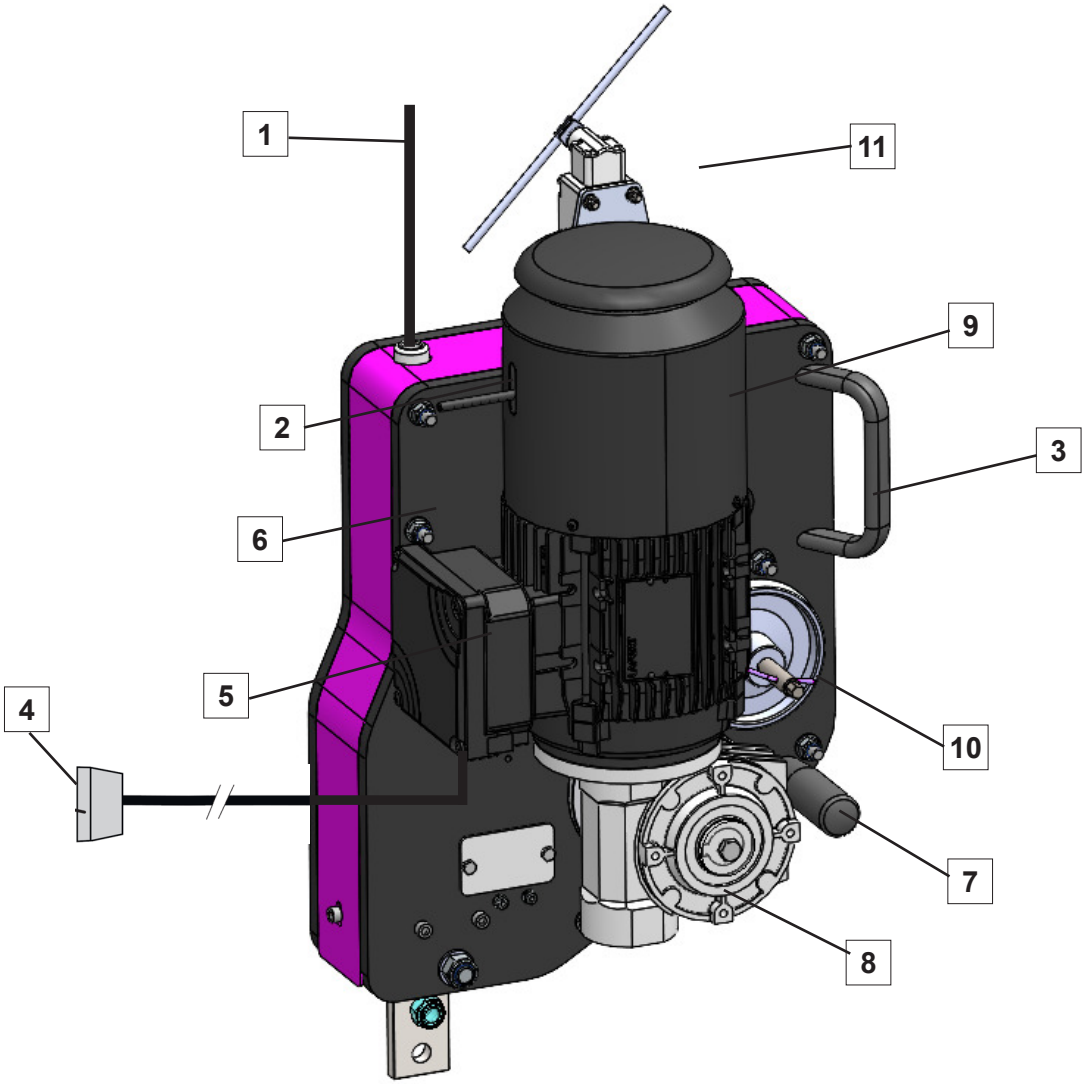
- The electromagnetic service brake (spring-applied brake) closes automatically when the UP or DOWN travel control device is released or when there is a power failure.

- The rescue handwheel allows the winch to be manually raised in the event of a power failure or if the fall arrester is activated.

- The Leva winch is equipped with an overload detector.

- The lifting force limiter is automatically triggered when the set overload is reached. The upward travel of the winch is switched off.

5.5-Main components



Nº	Title
1	Cable
2	Emergency lowering lever
3	Handle
4	Plug-in connector to the control system (optional)
5	Connection box
6	Transmission
7	Carrying handle
8	Gearbox
9	Electric motor
10	Rescue flyer
11	Emergency end switch (only the bracket in the picture)

5.6-Safety devices

A- Main brake:

A main brake operates in the event of a power failure or when the operator stops pressing the UP or DOWN buttons.

B- Overload detector:

The overload detector is triggered automatically when the set load is reached. The upward movement of the winch is prevented.

NOTE

If adjustment of the preset overload limit is necessary, request the procedure from ACCESUS by one of the means indicated in section 1.

C- Upper limit switch:

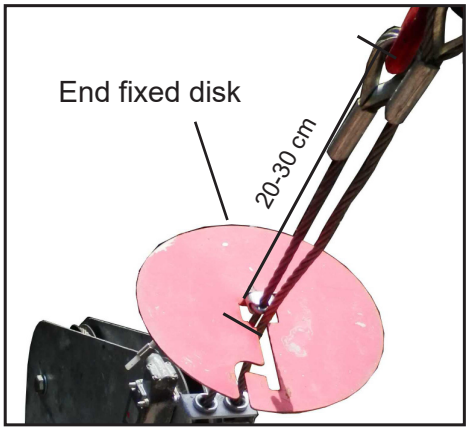
The upper limit switch stops the ascent when actuated.

The platform stops rising when the limit switch touches the disc or the limit stop fixed on the cables.

The downhill manoeuvre is still possible.

In case of failure, it has a second contact (see 5.6.D) which cuts off all movements of the platform.

The end fixed disk must be installed, on the safety wire, 20-30cm below the height of the wire rope hook.



D- Upper limit switch last (integrated in the upper limit switch):

The upper limit switch stops all movements when actuated.

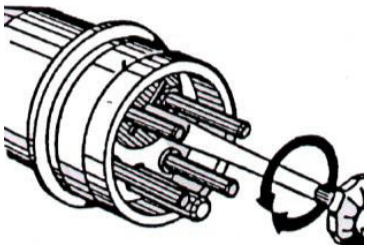
E- Hour meter:

The operating hours can be read from the hour meter to determine when the next overhaul is due.

F- Phase detector:

For three-phase equipment, a device located in the control cabinet controls the direction of the phases. This phase monitor cuts off the power supply in the event of a bad connection.

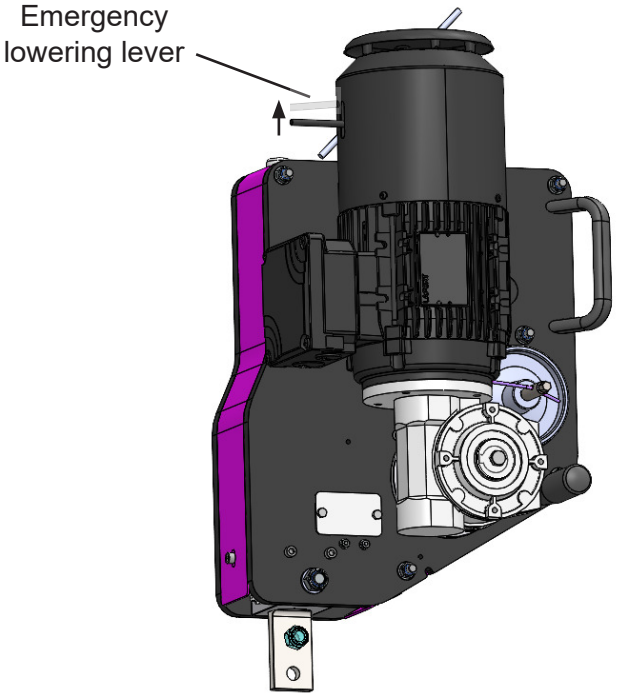
The phases can be reversed at the CEE power supply socket by a 180° rotation of two contacts with a screwdriver.



D-Emergency lowering:

The winch is equipped with a manual system that allows the winch to be lowered in case of power failure.

The emergency lowering lever allows descent at a controlled speed as long as the winch is connected to a suitable control cabinet.



DANGER!

Incompatible control cabinet	Danger of serious accidents.
	-An incompatible control cabinet must not be used. -The use of an incompatible control cabinet may cause the speed control system to malfunction during the emergency lowering manoeuvre.

5.7-Fixing

General:

- Check whether components and accessories are complete.

- Check for damage.

- Check the correct tightening torque of all screw connections.

- Replace damaged components or have them repaired by a technician. Repairs may only be carried out by a specialist workshop or by Accesus.

Data on the strength of the bolts are given in the table in section 5.3.

Observe the instructions in section 6.2. A.

Se pueden utilizar bulones o pasadores de la misma resistencia y seguridad que la de los tornillos.

Fastening with two screws with DIN985 safety nuts. Replace screws and/or nuts if they are not in perfect condition.

Fixing by means of holes other than A1 and A2 as shown in section 5.3 is prohibited.

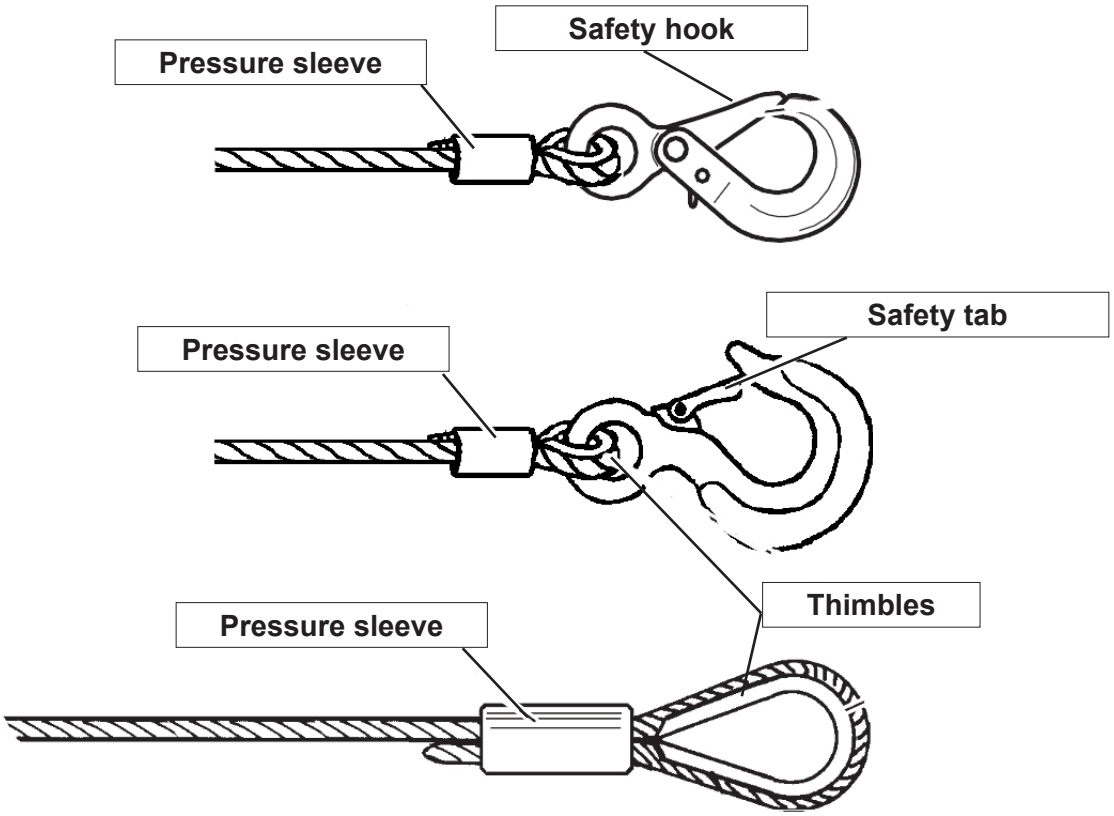
5.8-Cables

DANGER!

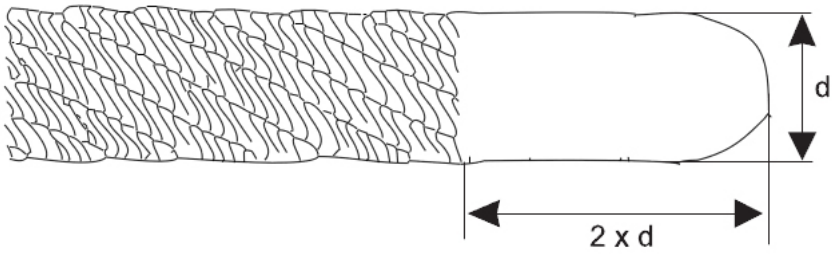
Incorrect cable or cable with incorrect diameter	Danger of falling objects injuries from falling objects and malfunctions
	-Use only original cables approved by Accesus with the correct cable diameter and specified construction. -If the load cannot be guided, anti-rotation cable must be used. -You can refer to the cable diameter and construction specified in the table in section 5.3.

Cable construction characteristics:

A-THIMBLE OR HOOK



B-MOUSE TAIL TIP



6-Assembly and commissioning

6.1-Directives and standar

The product complies with the following directives and standards:

- Machinery Directive 2006/42/EC

- EN ISO 12100:2010

- EN ISO 13849

- EN 60204

- Machinery for lifting persons or persons and goods (passenger transport):
  EN 1808:1999 + A1:2010

- Machines for the lifting of loads (material transport):
  EN 14492-1:2006 + A1:2009

- Directive 2006/95/EC has been complied with according to Annex I No 1.5 of Directive 2006/42/EC with regard to its security objectives.

The operator or the plant manufacturer is responsible for ensuring that the machine is used within the limits specified in this manual. The aforementioned directives and standards must also be observed by the operator or the plant manufacturer for the machine where Leva has to be incorporated.

6.2-Pre-assembly checks

A-Checking of brackets and suspension points:

The arrangement of the construction elements for fastening the product must be carried out in accordance with the applicable directives and standards (see 6.1. Directives and standards).

When designing the suspension construction, the total suspended load for the specific application must be taken into account. The total suspended load is the static load exerted on the suspension system and consists of the payload, the dead weight of the hoist, the additional equipment, the wire ropes and the control and connection lines.

If necessary, a test report describing the static and dynamic tests in detail must be attached.

B-Verification of the installation site:

Observe the required mounting space according to the picture and table in section 5.3.

C-Verifications of components and accessories:

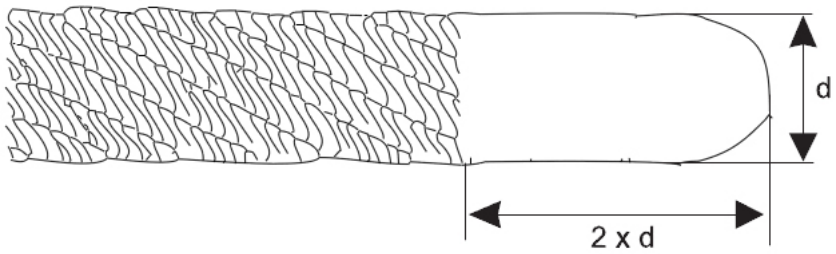
General:

- Check whether components and accessories are complete.
- Check for damage.
- Check the correct tightening torque of all screw connections.
- Sustituir los componentes dañados o hacerlos reparar por un técnico. Las reparaciones solo deben ser realizadas por un taller especializado o por Accesus.

Cable:

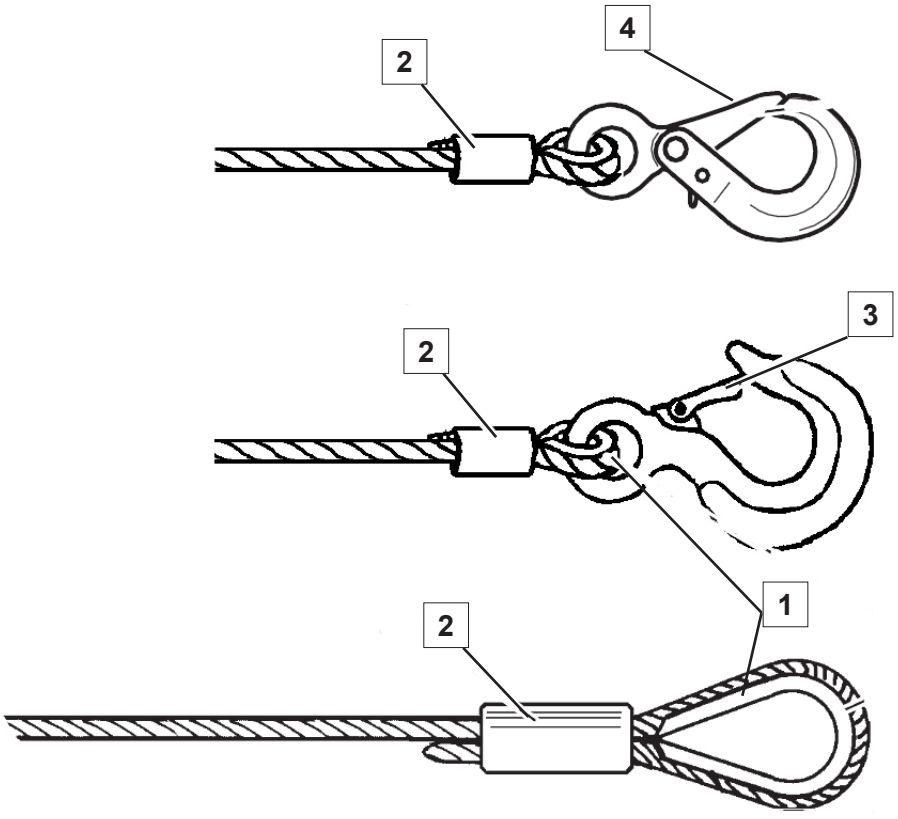
- Check whether the cable diameter and type of construction are suitable for the product and the specific application case. See section 6.
- Loading must be guided by the customer. If the load cannot be guided by the customer, an anti-rotation cable must be used.
- Check whether the cable length is sufficient. The load must be able to move safely to the start and end positions.
- Check for visible damage along the entire length of the cable. See examples:

– Check the cable end according to the following picture:



- Clean periodically.

- Check the thimble (1) and the pressure sleeve (2) for damage (see picture below).



- Cables with hooks:
check that the hook and safety catch (3) are intact, see Fig. 19.

- Cables con gancho de seguridad:
check that the safety hook (4) closes correctly and that the locking mechanism works.

Fasteners:

Anchor bolts or bolts must be of 8.8 quality or equivalent. Two bolts should be used per winch.

DANGER!

High-strength galvanised bolts can become brittle and break	Danger of serious accidents
	-Do not use high strength galvanised bolts / screws (10.9 or 12.9) for anchoring. -Use screws with resistance 8.8.

Supply hose:

- Check whether the length is sufficient..

- Check whether the cable cross-section is sufficient for the planned length (see section 6.4.).

- Check the entire length of the cable for recognisable damage.

6.3-Assembly

- Assembly may only be carried out by trained personnel.

-The workplace must be sufficiently illuminated.

6.3.1- Fixing of the apparatus

DANGER!

Inadequate fixation	Danger of death by falling. Danger of injury from falling objects.
	-Only attach the winch to the specified boreholes and with the specified fasteners. -The cable must pass through the winch with a vertical displacement.

Anchor bolts or bolts must be of 8.8 quality or equivalent. Two bolts must be used per winch.

DANGER!	
High-strength galvanised bolts can become brittle and break	Danger of serious accidents
	-Do not use high strength galvanised bolts / screws (10.9 or 12.9) for anchoring. -Use screws with resistance 8.8.

Observe the instructions in section 5.7.

6.3.2- Electrical connection

DANGER!	
Danger due to electric current	Danger of serious accidents.
	-Electrical work and connections must comply with the national regulations of the country. -The electrical connection may only be carried out by specialised electricians. -To avoid electrical hazards, the electrical connection must be carried out according to the instructions in this manual.

DANGER!

Danger from unauthorised use	Danger of serious accidents.
	-The operator must make the electrical connection in such a way that the winch can be secured against unauthorised use. These measures may include: - lockable emergency connection device. - lockable main switch. - key switch. - removable operating device.

The electrical connection must be carried out by the operator in accordance with EN60204-32.
Make sure that the power supply socket is compatible with the one in the control cabinet.

• The power supply must be protected, upstream of the socket, by a 16 A 30 mA differential circuit breaker (FI or RCD).

• The wire cross-section of the power supply hose between the floor and the platform must be compatible with the power of the equipment and the length of the power supply cable (see table).

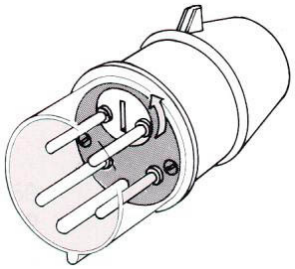
			Minimum cross-section mm2 (per conductor) for LEVA			
	Max. vel. cable		**20 m**	**50 m**	**100 m**	**200 m**
LEVA 500 THREE-PHASE 380-400V 50-60Hz	8m/min	Un cabrestante	1.5	1.5	1.5	2.5
		Dos cabrestantes	1.5	1.5	2.5	2.5
LEVA 501 THREE-PHASE 220-240V 50-60Hz	8m/min	Un cabrestante	1.5	1.5	2.5	2.5
		Dos cabrestantes	1.5	2.5	2.5	2.5
LEVA 502 SINGLE.PHASE 220-240V 50Hz	8m/min	Un cabrestante	1.5	2.5	4	6
		Dos cabrestantes	2.5	4	6	16

• Fasten the control cabinet to the railing.

• Connect the power supply cable from the electric cabinet to the power supply hose by means of a CEE 16A connector. The hose must be fixed to the platform with a pin. For superior heights to 100 m you have to verify the efforts admitted by the cable.

• Connect the Leva hoist to the electric cabinet and check the correct running of the device. Before a working day is obligatory to check the stop emergency.

• The device is protected with a system of phase control relay. If this device doesn't work try to reverse the phases with a screwdriver. See attached image.



• Earth wire is done through the power supply line. The earthing function must be checked (check the protective cable and isolation). Optionally additional measures will be necessary.

• If necessary, a generator with a power equivalent to three times the rated power of the winch (nominal power of the generator [kVA] = number of winches x nominal capacity of the winches [kW] x 3) can be used. The generator must be grounded by the operator. The earthing function must be checked (check the isolation protection).

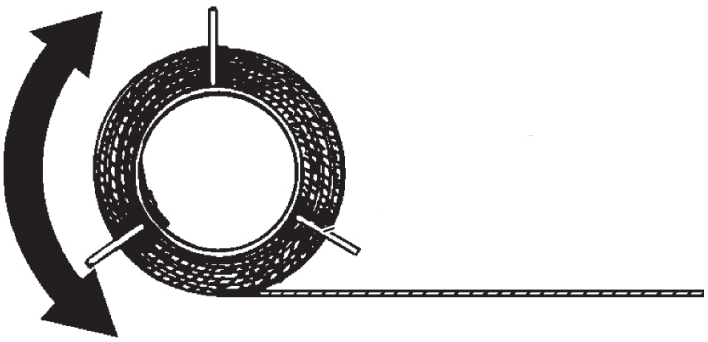
6.4-Cable installation

DANGER!

Damage due to cable handling. Danger due to inadequate fastening and/or damage to the cable. Danger due to entrapment	Danger of cuts, scratches and entrapment. Risk of death due to falling objects, falling from a different level and/or breakage.
	-Wear protective gloves when handling cables. -Only cables specified by the manufacturer should be used. -Make sure that the diameter of the cable corresponds to that indicated in the table in section 5.3, that the length of the cable is sufficient for the height of the work to be carried out and that the tip is correct. -The cable must hang freely. -Do not touch the cable when the winch is in operation. Do not grab the winch inlet or outlet. -Pay attention to loops. -Keep an adequate distance from the cable.

- If the attachment point for the rope is above the winch, the rope must be secured before it is inserted into the winch.

-Uncoil the cable, avoiding the formation of loops during handling.



- Insert the end of the cable as far as possible into the winch.

- Operate the winches in the pulling direction.

- Continue sliding the cable until it pulls on its own and comes out of the opposite opening.

- Provide a free exit of the cable, so that the loose end can avoid twisting.

- If necessary, pass the loose cable rope through a cable sheave or other suitable cable guide so that it does not run over edges and become damaged.

- Lay the loose wire rope in a suitable manner so that no loops or knots can form.

- Fit the upper limit stop disc, as described in section 5.6.C. of this manual.

6.5-Functional test

DANGER!

Risk of injury from falling objects, falling from a different level and/or breakage.	Danger to life due to falling objects, falling from a different level and/or breakage.
	-Do not remain under suspended loads. -If necessary, block off the danger zone.

Check the service brake

- Connect the lift upwards until the wire rope is tightened.
- Raise the load approximately 1m
- Stop the movement.
- Move it down.
- Stop de movement.
  The stopping distance must not exceed 10cm. The elevator must hold the load.
- Download the load and loosen the wire rope.
- Stop the elevator.
  The elevator must hold the wire rope.

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

Check the operation of the detectors

A- Check the UPPER limit switch, see section 5.6.C.
- Shoot 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 last limit switch (see section 5.6.D.).
-Manually trip the switch. The electrical supply to the motor must be disconnected immediately.
-The winch must hold the rope. Neither upward nor downward movement must be possible.

C- Check the phase control relay, see section 5.6.F.
-If the phase control relay does not disconnect the drive when it is fi rst 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 disconnects the drive, use the phase inverter, see 5.6.F.

Check operation 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.

Check emergency lowering operation

- Raise the load approximately 0.5m.
- Stop the movement.
- Carry out an emergency descent maneuver.
  The emergency lowering speed must be constant around 4.5m / min.
- Stop movement.
  The stopping travel must not exceed 10cm. The hoist must hold the load.
  If the stopping travel is greater than 10cm and/or the lowering speed is greater than 6m/min and/or uncontrolled, have the lift checked and repaired by Accesus or a workshop authorised by Accesus.

End of check: Record the result of the checks in the logbook.

7-Security

7.1-Preliminary checks

a) The user must be trained in the use of the appliance.

b) Every day, check that there is no dirt adhering to the cable and, if necessary, clean it.

c) Carry out the function test every day. See section 6.5.

d) Record the result of the checks in the logbook.

7.2-Use

DANGER!

Crushing.	Danger of injury: crushing, entrapment, burns.
Entrapment. **Burns.**	-When moving, do not extend any part of the body out of the lift car. -Controlling obstacles and protruding objects. -Do not touch the cable when the winch is in operation. Do not grasp the winch inlet or outlet. -Check engine plugs for proper seating. -The motors can become hot during operation. Do not touch the motors.

DANGER!

The load or lifting equipment may catch and fall.	Danger of falling! Danger of injury from falling objects.
	-Check the load, hoist and wire rope constantly. -Before starting work, agree on visual signals. -If there is no visual contact, use mobile phone or radio. -Do not stay under suspended loads. -Mark the danger zone. -Secure and secure snagged or jammed loads.

DANGER!

Overloads that can lead to malfunctions	Danger of falling! Danger of injury from falling objects.
	-When loading the hoist, observe the maximum permissible load. -Do not release firmly seated or locked loads by pulling on the winch. - Do not pull loads obliquely with winches for lifting and lowering. - Avoid excessive jerking (e.g. short pulses to the motor).

DANGER!

Moisture can affect brake performance	Danger of falling! Danger of injury from falling objects.
	-Check that the engine plug is correctly fitted. -Do not clean products in contact with the cable with a high-pressure cleaner.

DANGER!

Welding work presents special risks	Danger of serious accidents
	-When carrying out welding work, the national occupational safety and health and safety regulations must be observed. -Never use the hoist or winch as discharge to ground.

IMPORTANT

Insufficient length of supply hose	Damage to the winch
	-Use a hose of sufficient length. -Control the hose during movement.

DANGER!

Unsecured loads	Danger of serious injury from falling objects and/or falls from different levels.
	-Securing loads against falling. -In the case of lifting persons, a secondary device must be installed to prevent fall hazards. For example a double cable system, the system on the other cable must be capable of retaining the platform.

- Connect the CEE connection and switch on the existing main switch on site.
- Turn the EMERGENCY STOP button to the right.
- Press gear.
- Hook the load.
- Be sure to close the safety latch.
- The maximum permissible load of the winch must be taken into account.

NOTE

Load swinging during standstill can cause the overload to trip. If the overload is disconnected when the load stops swinging there is no overload.

- Operate the winch upwards until the rope is taut.

-Operate upwards until the load is lifted / pulled to the desired level / position.

- Lower to lower/loosen the load. Avoid manoeuvres with successive impulses.

- When ascending and, above all, descending, check the slack in the rope.

- If damage, loops or knots in the rope are detected, stop immediately.

- To stop the movement: release the button.

- If the winch does not stop:
    - Press the emergency button.
    - If it does not stop, cut off the power supply to the winch (by disconnecting the power supply socket).
    - Have the equipment checked by a qualified electrician or maintenance personnel authorised by Accesus.

7.2.1- Action in the event of an emergency stop

- Unlock the emergency button by turning it.

- Press the run button.

7.2.2- Phase detector activation

- Turn the phase inverter on the CEE connector 180° (see section 5.6.F.).

7.2.3- The upper last limit switch has been activated

- Check why the upper last limit switch has been activated.

- If the problem is solved and it is no longer active, press the run button.

- If it is still activated, make an emergency descent until the upper last limit switch is released and press the run button.

7.2.4- Emergency lowering

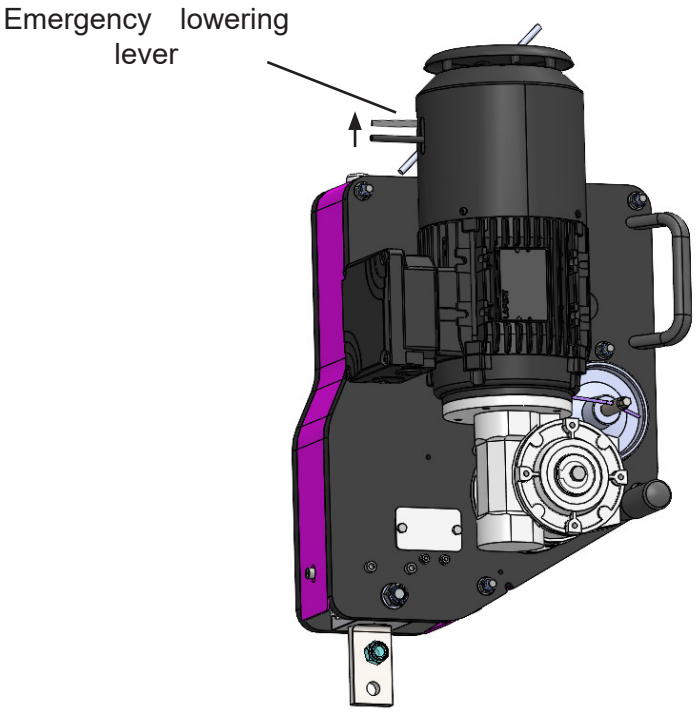
For rescue in case of power failure, the hoist can be lowered manually.

DANGER!

Danger of falling	Danger of serious injury from falling objects and/or falls from different levels.
	-Manual lowering is only possible in an emergency. -In case of overload, do not perform emergency manual lowering. The lowering speed control system may not brake the load. -Never make an emergency descent without the control cabinet connected. The speed control system will not brake the load.

- Pull the lever upwards and hold it:
  The load drops.

- To brake, release the lever.



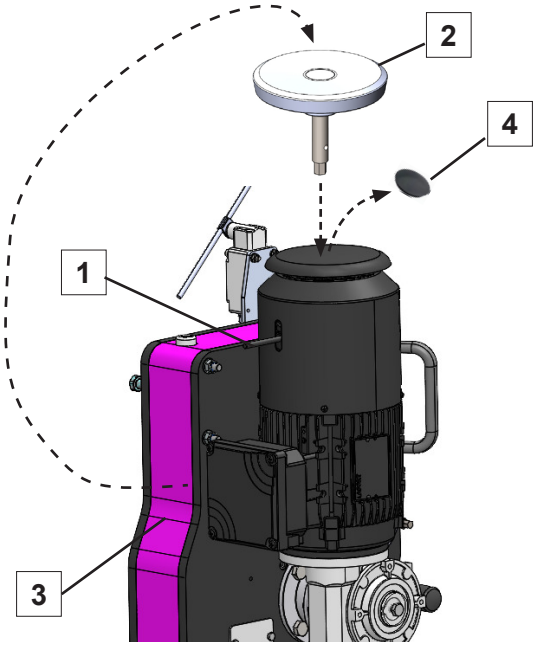
7.2.5- Emergency manual lifting

For rescue in case of power failure, the hoist can be lowered manually.

DANGER!	
Danger of falling	Danger of injury from falling objects and/or falls from different levels.
	-Manual lowering is only possible in an emergency. -In case of overload, do not perform emergency manual lowering. The lowering speed control system may not brake the load. -Never carry out the manoeuvre without the control cabinet connected. The speed control system will not brake the load.

DANGER!	
Motors may be hot	Danger of burns.
	-Do not touch the electric motor.

- Remove the plug (4)
- Remove the lift handwheel (2) from its holder (3).
- Push the handwheel (2) onto the motor shaft until it clicks into place.
- Turn the handwheel (2) with one hand and at the same time pull the lever (1) upwards.
- **To release the handwheel (2), the lever (1) must first be released.**
- Remove the flywheel (2) from the motor shaft and secure it in its holder (3).
- Replace the plug (4) and check that it is correctly fitted.



DANGER!	
Moisture brake malfunction	Danger of injury from falling objects and/or falls from different levels.
	-Make sure that the plug (4) is correctly fitted. If not, correct it.

7.3-Foreseeable misuse

Any warranty or liability claims for personal injury or damage to property are excluded if they are due to one or more of the following causes:

- Unregulated use of the product, accessories or supporting means belonging to the product
- Operation with a dirty cable
- Operation without limit switches (hoisting winches)
- Use in ATEX zones or explosive atmospheres
- Maintenance intervals not respected
- Cleaning with a high-pressure cleaner
- Improper assembly, commissioning, operation, maintenance and repair
- Operation with an electrical connection that does not comply with the requirements of these instructions
- Faulty inspection of parts of the device and its accessories subject to wear and tear
- Reparaciones realizadas de forma inadecuada y no autorizada
- Use of non-original spare parts
- Modifying the settings of safety devices
- Use with overload
- Direct lashing of the load to the pulling rope or to the carrying rope (ropes without thimbles or hook)
- Disaster or force majeure
- The manufacturer accepts no liability for damage caused by alterations and modifications to the products.
- Defective or damaged products, accessories or lifting devices may not be used.
- Load on the no-load side of the winch with more than 100 kg (e.g. by pre-tensioning the rope)
- Moving downwards by manual emergency lowering (only allowed in case of emergency)

7.4-Disassembly

DANGER!	
Damage due to cable handling. **Risk of injury from falling objects, falling to a different level and/or breakage.**	Danger of cuts and scratches. Danger to life due to falling objects, falling from a different level and/or breakage.
	-Before dismantling the cables and during the entire operation, make sure that the danger zone is clear of people. -Use appropriate PPE: harness, protective gloves, safety boots, safety helmet, etc. -Avoiding the formation of loops in cable handling. -Use intercoms for the coordination of manoeuvres between the operators at the base and the operators at the suspension level.

- Place the load on the floor.
- Press down and pull the cable out of the hoist.
- Pull the socket out of the hoist.

DANGER!	
Electric shock	Danger to life by electric shock.
	-Disconnect the hoist from the power supply by unplugging the hoist’s power socket.

- Coil the cable according to the coiling rings or coilers to prevent loops from forming and rendering the cables unusable.

Cable on reel ring

Cable on reel

- Dismantle the lift mounting

7.5-Decommissioning

7.5.1- Interruption of work

During a break, the working area shall be secured as follows:

- Place the lifting equipment on the floor or block off the area below the suspended load.
- Interrupt the power supply and secure the winch against unauthorised use.

7.5.2- Temporary Detention

If the winch is not needed for several days or weeks but remains mounted on site, it must be secured as follows:

- Place the lifting equipment on the floor or block off the area below the suspended load.

- Secure the load lifting device against tilting (e.g. fastening to the structure).

- Raise the unloaded cable so that it is out of reach of people.

- Interrupt the power supply and secure the winch against unauthorised use.

7.5.3- Permanent decommissioning

- Dismantle the product and its accessories (see 6.4).

- Clean the outside of the product and store it.

7.6-Transport and storage

7.6.1- Transport

General transport information:

- Avoid damage during transport.

- In the case of heavy components, use suitable means of transport or transport between two people.

Winch:

- On site, the winch can be transported using the handles. The winch can be transported by two people.

- For transport in a vehicle, use a transport box. Secure the winch or transport box with securing straps.

Cables:

- Transport the cable in reeling rings or reels.

7.6.2- Storage

General storage conditions:

- Dry place (max. 75% relative air humidity)

- Dust-free.

- Uniform ambient temperature

Cable storage conditions:

- Lightly greased.

- No crushing, pressure or tensile load.

- Protect cables from direct sunlight, chemicals, dirt and mechanical damage.

8-Maintenance

8.1-Authorised maintenance personnel

¡PELIGRO!	
Danger due to improperly carried out repair and/or maintenance work	Danger of serious injury from falling objects and/or falls from different levels.
	- Maintenance work requiring the product to be opened may only be carried out by the following: - Accesus - Accesus Authorised Workshops - Maintenance personnel trained and certified by Accesus

8.2-Necessary checks

A wirtten proof is required for both the annual and extraordinary checks. The cucks must be recorded in the enclosed logbook.

Before each use
Before each use, the correct condition must be checked (see section 6.5.).

Annual security review
The safety check should be carried out once a year.

The safety check may only be carried out by authorised maintenance personnel, see 8.1. Authorised maintenance personnel. Depending on the conditions of use (e.g. operation in an environment with a high degree of soiling) an intermediate check may be necessary.

Depending on the operating and environmental conditions (added load, dirt on the rope, etc.), the winch pulley can wear prematurely. If it is worn, it must be replaced.

General repair of the winch must be carried out by Accesus or by a workshop authorised by Accesus.

8.3-Hour meter

The hour meter is located in the hoistway junction box. The hourmeter counts the time as hours when the lift is in up or down motion.

DANGER!	
Electric shock	Danger to life by electric shock
	Disconnect the hoist from the power supply by unplugging the hoist's power socket -Disconnect the socket. -Open the junction box. -Read the hour meter. -Record the working hours in the logbook.. -Close the junction box.

8.4-Maintenance intervals

Observe the maintenance work and intervals described below:

Interval	Work	Execution
Diary	-Check the lift attachment. -Check for dirt on the cable. -Functional test, see section 6.6.	User
Weekly	-Check cable, see section 6.2. -Check connection hose and control hose	User
1 time per year	-Complete safety check of the equipment.	ACCESUS or a workshop authorised by ACCESUS
When necessary	-Clean, lubricate and/or replace the cable, see section 8.4.1. -Clean the hoist, see section 8.4.3. -Limpiar los finales de carrera, lubricar el accionamiento de los finales de carrera.	Una persona nombrada y formada por el explotador

8.4.1- Cables

Only cables recommended and supplied by ACCESUS guarantee the operation of the hoists.

Cleaning: If necessary, dry-brush dirty cables and, if necessary, re-grease them. NEVER CLEAN CABLES WITH HIGH-PRESSURE WATER!

Greasing: The lifting ropes must be greased regularly. For this purpose, use multi-purpose grease or oil and spread it over the entire length of the rope with a cloth.

NEVER LUBRICATE THE CABLE WITH LUBRICANTS CONTAINING DISULPHUR (e.g. Molycote)!

8.4.1.1-Replacement of cables

Only cables recommended and supplied by ACCESUS guarantee safe operation of the lifts.

Ehe cable has a nominal diameter of 8.3mm, a hook with safety lock at one end and a free rounded end at the other end. The cable has a nameplate identifying the origin, diameter and length.

Cables must be replaced in the following cases:

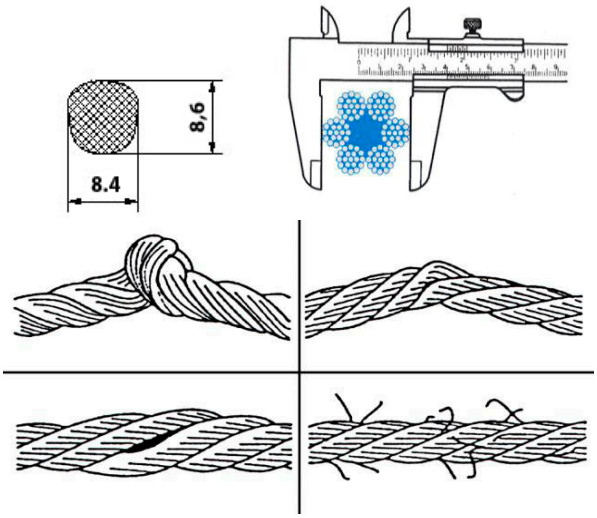
a) Diameter reduction. Minimum diameter 7.4mm (for cable with nominal diameter 8.3mm).

b) Breakage of more than 10 wires over a length of 25 cm for cable Ø8.3 mm.

c) Deformations in the basket or breakage of one of the cable strands.

d) Cable crushed, stranded.

e) Strong oxidation.



8.4.1.2-Repair of cable ends

The repair of the tip can be carried out by the user or sent to Accesus or an authorised Accesus workshop.

If you need information on how to carry out a tip repair, please contact Accesus.

8.4.2- Power supply and control electrical hose

In the event of damage to the insulation and/or connections, the cables must be replaced by a qualified electrician, Accesus or an authorised workshop.

8.4.3- Lift

No maintenance is required on the motor, gear and brake until the annual service interval is reached.

-In case of soiling, clean the outside.
-Keep the brake free of oil and grease.

NEVER CLEAN WITH PRESSURISED WATER!

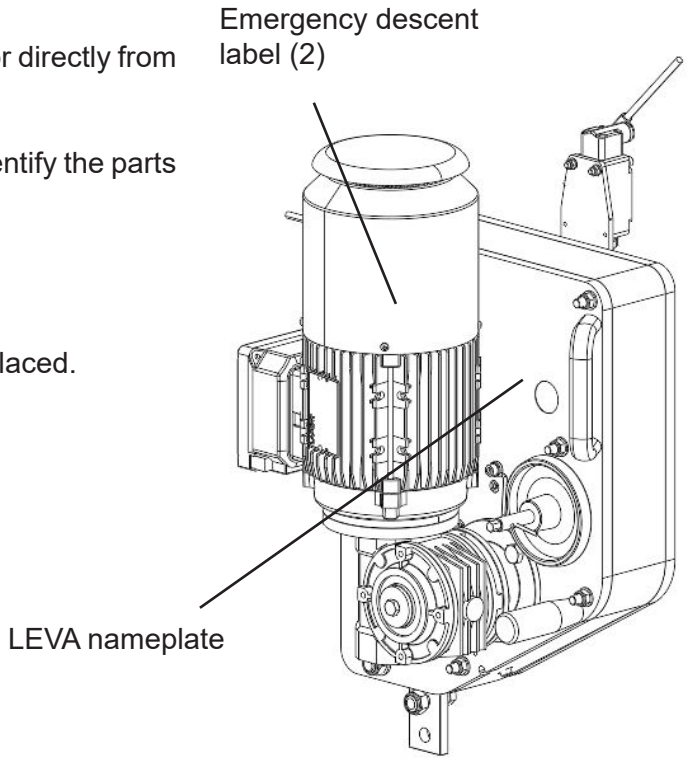
8.5-Spare parts

Request spare parts list from your supplier or directly from Accesus..

You will find the information necessary to identify the parts on the type plates.

8.6-Type plates

Missing or illegible nameplates must be replaced.



(1) Identification labels

LEVA

Elevador eléctrico
Electric traction hoist

Type:	**LEVA 500**
3~ 380-400V	**(50/60Hz)**
Weight Load Limit (WLL) Capacidad máxima de carga	**500** kg
Cable original LEVA wire rope Ø	**8,3** mm
Vel.nominal speed	**8** m/min
Año fabric./ Year of manuf.:	**2023**
Serial number:	**XXXXXXX**

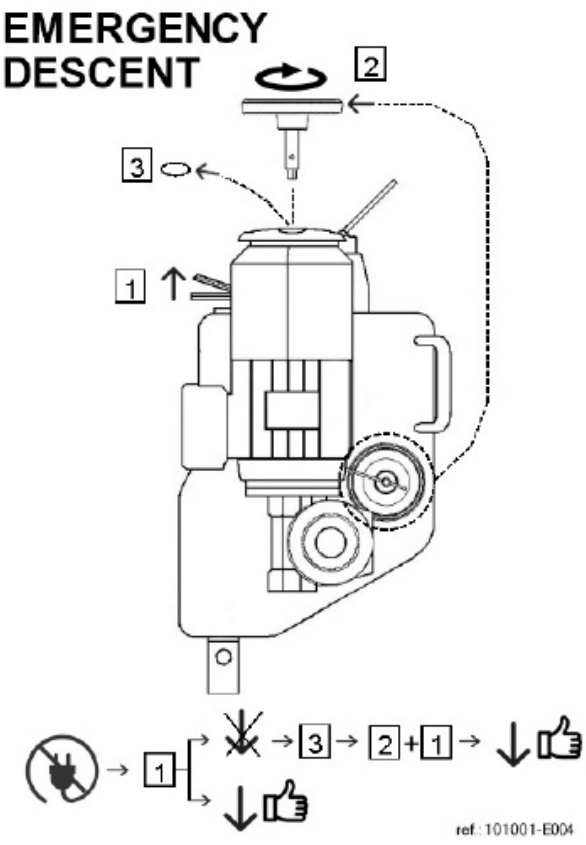
Fabricante / manufacturer:

accesus
c/Energia 54
08940 Cornellà de Llobregat, Barcelona-SPAIN
Telf.: (+34) 93 475 17 73
accesus@accesus.es www.accesus.es

NFC

ref.: 101001-E001

(2) Emergency descent label



8.7-Fault identification/repair

Request the spare parts list from your supplier or directly from Accesus.

You will find the information necessary to identify the parts on the type plates.

DANGER!

Danger due to improperly carried out repair and/or maintenance work	Danger to life from falling objects, falling from a different level and/or breakage. Danger to life due to electrical contact.
	-Stop work immediately. -Before carrying out any work, disconnect the CEE power supply socket from the platform. The operator must be able to check at all times that the socket is disconnected. -Determine the cause, remedy the fault or act as described below.

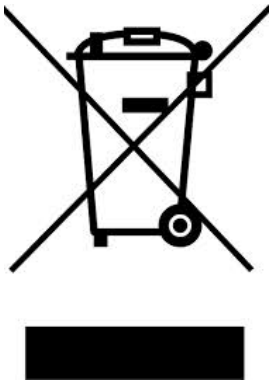
Break-down	Probable reason	Solution
The motor does not rotate	-The brake without power is disconnected or out of order. -The temperature sensor is activated. -The overload is activated. -The motor has a mechanical fault. -The contactor in the hoist is out of order or disconnected. -The general contactor of the control box is out of order or disconnected. -The limit switch is activated. -Fault in the control circuit. -Fault in the power circuit. -Power supply fault. -Humidity “jams” the brake on the motor.	-Reconnect the brake or change it. -Wait for a drop in temperature. -Reduce the load. -Check the motor. -Reconnect or replace it. -Reconnect or replace it. -Have a competent person check it. -Check. -Have a competent person check it. -”Tap” gently on the motor spindle while-pressing on the control buttons.
The hoist-does not rise	-The grooved pulley is worn or dirty. -The starting condenser and the centrifugal coupler are disconnected or out of order (only for a single phase hoist) -The temperature sensor is activated. -The overload is activated. -The motor is blocked. -The contactor on the hoist is out of order or disconnected. -The limit switch is activated. -Fault in the control circuit. -Fault in the power circuit.	-Verification. -Verification. -Wait for a drop in temperature. -Reduce the load. -Check. -Verification (maintenance). -Reconnect or replace it. -Have a competent person check it.
The hoist does not descend	-The fall-prevention system is engaged -The temperature sensor is activated -The overload is activated -The lack of load is activated (optional) -The motor is blocked -The contactor in the hoist is out of order or disconnected -Fault in the control circuit -Fault in the power circuit	-Verification -Wait for a drop in temperature -Reduce the load -Check then press the red button of each hoist. -Check the motor -Reconnect or replace it -Have a competent person check it

The motor is powered but stalls chugging)	-The brake without power is disconnected or out of order. -The starting condenser and the centrifugal coupler are disconnected or out of order (only for a single phase hoist). -The motor is blocked. -Fault or one phase missing in the power circuit -Supply lead section too small	-Reconnect the brake or change it -Verification -Verification (maintenance) -Check the power supply -Replace the power cable
The hoist does not lift the load	-The grooved pulley is worn or dirty. -The permanent condenser is out of order. -The starting condenser and the centrifugal coupler are disconnected or out of order (only for a single phase hoist) -The temperature sensor is activated -The overload is activated. -Fault or one phase missing in the power circuit. -Supply lead section too small.	-Verification -Verification -Verification -Wait for a drop in temperature -Reduce the load -Check the power supply -Replace the supply lead
Current too high	-The brake without power is disconnected or out of order. -The permanent condenser is disconnected or out of order. -The motor is blocked.	-Reconnect the brake or change it. -Reconnect the condenser or change it. -Verifications (maintenance).
Slow sliding	-The grooved pulley is worn or dirty. -The brake without power is worn. -The adherence system is worn or dirty.	-Verification. -Replace the brake. -Verification.
Uncontrolled manual descent	-The manual lowering condenser is worn.	-Replace the condenser. -Check the contactor in K1 and K2.
Manual descent not possible	-The brake without power is jammed. -The fall-prevention system is jammed. -The load below the hoist is too little to initiate the movement	-Verification. -Use the hand wheel.

9-Disposal and environmental protection

The equipment is made from recyclable materials. If the equipment is later scrapped, it must be disposed off correctly. The national versions of the waste legislation Directive 75/442/CEE apply within the European Union.

In accordance with Directive 2002/96/CE, the manufacturer is obliged to take back and dispose of specific pneumatic and electronic components. The following symbol is used on the nameplate of such components to identify them:



10-Model declaration of conformity

Declaración CE de incorporación Conforme al anexo II. 1. B de la Directiva Máquinas 2006/42/CE	EC Declaration of incorporation According to annex II 1, B of European Directive 2006/42/EC	Déclaration de incorporation CE Conformément à l'annexe II 1, B de la directive européenne 2006/42/CE
Modelo / Model / Modèle:	**LEVA**	**Nº Serie / Serial Nº / Nº en série** **XXXXXX**
El fabricante: / **The manufacturer: /** **Le fabricant:**	**ACCESUS PLATAFORMAS SUSPENDIDAS, S.L.** **C/Energia 54, 08940 Cornellà de Llobregat (Barcelona) – SPAIN** **Telf.: (+34) 93 475 17 73 - Email: accesus@accesus.es - Web: www.accesus.es**	
Declara que la cuasi maquina mencionado, cumple con las disposiciones 4.1.2.3, 4.1.2.4, 4.1.2.5, 4.1.2.6, 4.1.3, 4.2, 4.3, 4.4 y 6.1 del anexo I de la Directiva Europea 2006/42/CE. La documentación técnica descrita en el anexo VII parte B de la directiva 2006/42/CE ha sido elaborada. Esta documentación puede ser enviada por correo ordinario o electrónico en respuesta a una solicitud justificada de las autoridades nacionales. La cuasi maquina no se puede utilizar mientras que la máquina final en la cual está incorporada no sea declarada conforme a la Directiva de máquinas 2006/42/CE. Cumple también las disposiciones aplicables de las siguientes normas armonizadas:	Declares that the quasi-machine mentioned, complies with provisions 4.1.2.3, 4.1.2.4, 4.1.2.5, 4.1.2.6, 4.1.3, 4.2, 4.3, 4.4 and 6.1 from annex I of the European Directive 2006/42/EC on machinery. The technical documentation described in Annex VII Part B of Directive 2006/42/EC has been prepared. This documentation can be sent by regular or electronic mail in response to a justified request from the national authorities. The quasi machine can not be used while the final machine in which it is incorporated is not declared in accordance with the Machinery Directive 2006/42/EC. Complies also with all applicable requirements of the following harmonized standards:	Déclare que la quasi-machine mentionnée est conforme aux dispositions 4.1.2.3, 4.1.2.4, 4.1.2.5, 4.1.2.6, 4.1.3, 4.2, 4.3, 4.4 et 6.1 de l'annexe I de la directive européenne 2006/42/CE. La documentation technique décrite à l'annexe VII, partie B, de la directive 2006/42/CE a été préparée. Cette documentation peut être envoyée par courrier ordinaire ou électronique en réponse à une demande justifiée des autorités nationales. La quasi-machine ne peut pas être utilisée alors que la machine finale dans laquelle elle est incorporée n'est pas déclarée conformément à la directive machines 2006/42/CE. Conforme aux dispositions des normes harmonisées suivantes:
EN 1808:2015.		
Los datos de la persona facultada para elaborar el expediente técnico son: The person authorized to compile the technical file is: Les données de la personne autorisée à constituer le dossier technique sont les suivants:		Unai Rodriguez c/Energia 54 08940 Cornellà de Llobregat
Nombre: / Name: / Nom:	Unai Rodriguez	Firma del apoderado declarante / Signature of the empowered person / Signature du déclarant:
Cargo: / Charge: / Bureau:	Responsable Técnico / Technical manager / Directeur technique	
Lugar y fecha: / Place and date: / Lieu et date:	Cornellà de Llobregat, 15/05/2021	

accesus
PLATAFORMAS SUSPENDIDAS

11-Machine history

Indicate the serial number of the machine and all its components.

Machine or component	Serial no.
LEVA	
Date of commissioning	

Date	Maintenance according to section 8	Status of the machine OK	Condition of the machine NOT OK	Identification and signature of the person in charge

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