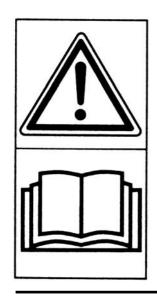


ELECTROMECHANICAL VEHICLE HOIST





Art. 199/GAMMA

INSTRUCTIONS FOR USE, MAINTENANCE AND SPARE PARTS Blank page for layout purposes





DICHIARAZIONE CE DI CONFORMITÀ ai sensi dell'Art. 12, paragrafo 3., lettera a), della Direttiva 2006/42/CE EC DECLARATION OF CONFORMITY in accordance with Art. 12, paragraph 3.,letter a), Directive 2006/42/EC EG-KONFORMITÄTSERKLÄRUNG gemäß des Art. 12, Paragraph 3., Buchstabe a), der Richtlinie 2006/42/EG DÉCLARATION CE DE CONFORMITÉ conformément à la Directive 2006/42/CE, Art. 12, paragraphe 3., lettre a)

DECLARACIÓN CE DE CONFORMIDAD con arreglo al Art. 12, paràgrafo 3., letra a) de la Directiva 2006/42/CE

Noi/We/Wir/Nous/Nosotros:

OMCN S.p.A. via Divisione Tridentina 23, 24020 Villa di Serio (Bergamo), ITALIA

dichiariamo sotto la nostra esclusiva responsabilità che il prodotto

declare, with sole responsibility on our part, that the product erklären unter unserer alleinigen Verantwortung, daß das Produkt déclarons, sous notre entière responsabilité, que le produit declaramos bajo nuestra exclusiva responsabilidad que el producto

Sollevatore elettromeccanico per veicoli

Electromechanical vehicle hoist Elektromechanische Hebebrücke für Fahrzeuge Élévateur électromécanique pour véhicules Elevador electrohidráulico para vehículos

Art. 199/GAMMA

Matricola Serial number Kennummer Matricola

al quale questa dichiarazione si riferisce è conforme alle seguenti disposizioni legislative:

to which this declaration refers conforms to the following legislative dispositions: auf die sich diese Erklärung bezieht entspricht den folgenden rechtlichen Vorschriften: auquel cette déclaration se réfère est conforme aux dispositions législatives: al que se refiere esta declaración es conforme a las siguientes disposiciones legislativas:

Direttiva 2006/42/CE (Sicurezza macchine)

Directive 2006/42/EC (Safety of machine) Richtlinie 2006/42/EG (Maschinensicherheit) Directive 2006/42/CE (Sécurité des machines) Directiva 2006/42/CE (Seguridad de la maquina)

Direttiva 2006/95/CE e successive modifiche (Bassa tensione)

Directive 2006/95/EC and subsequent modifications (Low voltage) Richtlinie 2006/95/EG und folgende Änderungen (Niederspannung) Directive 2006/95/CE et modifications successives (Basse tension) Directiva 2006/95/CE y sucesivas modificaciones (Baja tensión)

Direttiva 2004/108/CE e successive modifiche ed integrazioni (Compatibilità elettromagnetica)

Directive 2004/108/EC and later modifications and additions (Electromagnetic compatibility) Richtlinie 2004/108/EG und darauffolgenden Änderungen und Ergänzungen entspricht (Elektromagnetische Kompatibilität) Directive 2004/108/CE et toute modification et intégration successive (Compatibilité électromagnétique) Directiva 2004/108/CE y sucesivas modificaciones y ampliaciones (Compatibilidad electromagnética)

Norma EN 1493:1998+A1:2008 - Vehicle lifts (O.J. of 08.09.2009)

Standard EN 1493:1998+A1:2008 - Vehicle lifts (O.J. of 08.09.2009) Norm EN 1493:1998+A1:2008 - Vehicle lifts (O.J. of 08.09.2009) Norme EN 1493:1998+A1:2008 - Vehicle lifts (O.J. of 08.09.2009) Norma EN 1493:1998+A1:2008 - Vehicle lifts (O.J. of 08.09.2009)

Sono state utilizzate le seguenti norme e specificazioni tecniche:

The following standards and technical specifications have been used: Es wurden folgende Normen und technische Spezifikationen verwendet: On a utilisé les normes et les spécifications techniques suivantes: Se han utilizado las siguientes normas y especificaciones técnicas:

EN 349:1993+A1:2008 EN ISO 12100-1:2003 EN ISO 13857:2008 EN 60204-1:2006 EN ISO 3746:2009 EN ISO 12100-2:2003 EN ISO 14121-1:2007 EN 61000-6-1:2007 EN ISO 11202:2009 EN ISO 13849-1:2008 EN 55022:2006 EN 61000-6-3:2007

Il sollevatore è stato fabbricato in conformità a quanto previsto dall'Allegato VIII, paragrafo 3., della Direttiva 2006/42/CE

The lift was built according Annex VIII, paragraph 3., Directive 2006/42/EC

Die Hebebühne war gemäß der Anlage VIII, Paragraph 3 der Richtlinie 2006/42/EG hergestellt L'élévateur a été fabriqué suivant ce qui est prévu par l'Annexe VIII, paragraphe 3., Directive 2006/42/CE El elevador se ha costruido según lo previsto por lo anexo VIII, paràgrafo 3. de la Directiva 2006/42/CE

Nome ed indirizzo della persona autorizzata alla costituzione del fascicolo tecnico:

Name and address of the person authorised to compile the technical file:

Name und Anschrift der Person, die bevollmächtigt ist, die technischen Unterlagen zusammenzustellen:

Nom et dresse de la personne autorisée à constituer le dossier technique:

Nombre y dirección de la persona facultada para elaborar el expediente técnico:

PAOLO CORTINOVIS, via Divisione Tridentina 23, 24020 Villa di Serio (Bergamo), ITALIA

Luogo e data: Place and date:

Ort und Datum: Lieu et date: Lugar y fecha:

Villa di Serio (BG),





Special attention must be paid when referring to this handbook when one of the following symbols is met; they show the presence of hazardous conditions or situations of greater or less importance:



DANGER

Lack of compliance with this signal causes serious health risks: death or permanent injuries over a medium to long-term period.



Lack of compliance with this signal can cause serious health risks: death or permanent injuries over a medium to long-term period.



Lack of compliance with this signal can cause personal injuries or damage to the lift.



The instructions contained in this handbook must be read and fully understood before carrying out any work on the lift.

TERMINOLOGY AND DEFINITIONS (Annex I, Directive 2006/42/CE)

- «Danger»: potential source of injury or damage to health.
- «Hazardous area»: any area inside and/or near the machine where the presence of a person at risk endangers his/her safety and health.
- «Person at risk»: anyone found entirely or partly in a hazardous area.
- «Operator»: the person(s) responsible for installing, starting up, adjusting, servicing, cleaning, repairing and transporting the machine.
- «Intended use»: use of the machine according to the user instruction manual.
- **«Specialized technician»:** person assigned by the manufacturer to carry out special maintenance operations requiring training and specific skills in mechanics and oil hydraulics.

The specialized technician is acquainted with all the possible hazards on the machine and the necessary procedures in order to avoid injury to himself or others during these maintenance operations.

«User»: anyone who purchases or uses the machine (e.g. for renting, leasing or under loan) in accordance with the manufacturer's instructions.

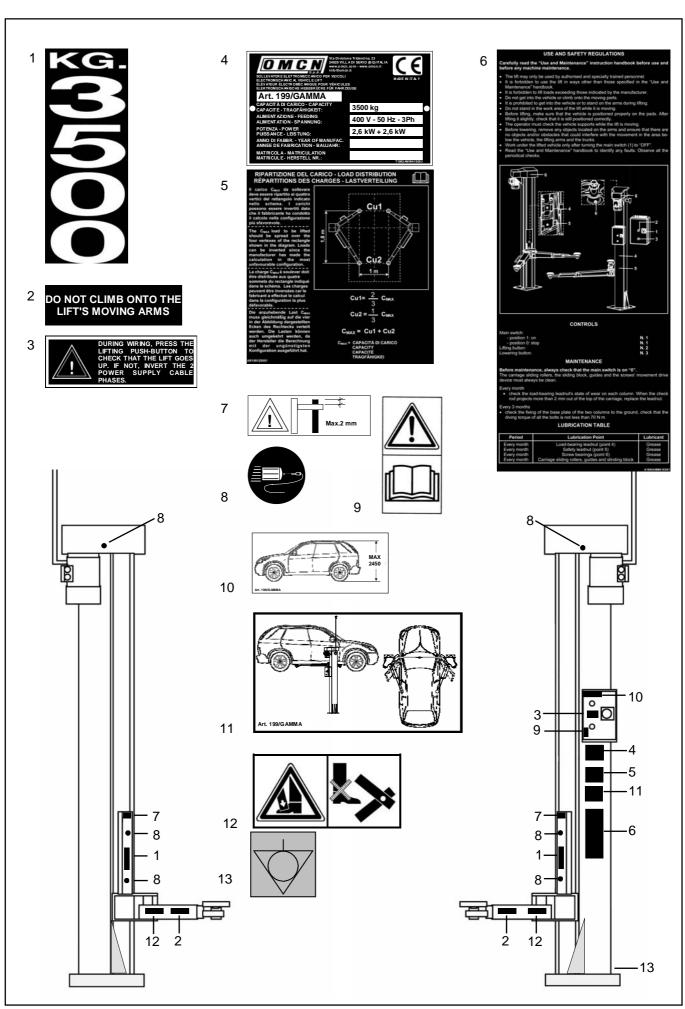
Before use, place on the lift the adhesive labels enclosed with this handbook, as shown in FIG. 1, stringently maintaining the correspondence of the numbering; before applying pictograms, thoroughly clean the application area. Labels 4 and 5 are applied beforehand by the manufacturer.



Failure to apply the labels will lead to the expiration of the guarantee conditions and relieve the manufacturer of all and any responsibility for possible damage caused by using the lift.

If one or more lift adhesive labels are damaged, missing or illegible, ask OMCN S.p.A. for the relevant position number for the replacement.

Fit the replacement label according to the diagram given in FIG. 1.



RIPARTIZIONE DEL CARICO - LOAD DISTRIBUTION RÉPARTITIONS DES CHARGES - LASTVERTEILUNG

Il carico C_{MAX} da sollevare deve essere ripartito ai quattro vertici del rettangolo indicato nello schema. I carichi possono essere invertiti dato che il fabbricante ha condotto il calcolo nella configurazione più sfavorevole.

The C_{MAX} load to be lifted should be spread over the four vertexes of the rectangle shown in the diagram. Loads can be inverted since the manufacturer has made the calculation in the most unfavourable configuration.

La charge C_{MAX} à soulever doit être distribuée aux quatre sommets du rectangle indiqué dans le schéma. Les charges peuvent être inversées car le fabricant a effectué le calcul dans la configuration la plus défavorable.

Die anzuhebende Last C_{MAX} muss gleichmäßig auf die vier in der Abbildung dargestellten Ecken des Rechtecks verteilt werden. Die Lasten können auch umgekehrt werden, da der Hersteller die Berechnung mit der ungünstigsten Konfiguration ausgeführt hat.

Cu1 Cu2

$$Cu1 = \frac{2}{3} C_{MAX}$$

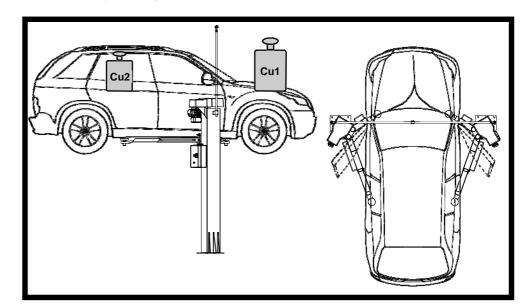
$$Cu2 = \frac{1}{3} C_{MAX}$$

$$C_{MAX} = Cu1 + Cu2$$

C_{MAX} = CAPACITÀ DI CARICO CAPACITY CAPACITÉ TRAGFÄHIGKEI

C_{MAX} = Capacity 3500 Kg

AR19912S001



The load distribution diagram in FIG. 2 complies with the specifications in regulation EN 1493 + A1.

- It is recommended to load the vehicle on the lift so that its heaviest part is over the short arms.
- When the dimensions (width by length) of the load's support rectangle make it necessary to change the
 arms' length, it is compulsory to equally lengthen or shorten all the arms by using the removable extensions, so that they are long enough to support the load.

INSTRUCTION MANUAL FOR USE, MAINTENANCE AND SPARE PARTS

TRANSLATION OF THE ORIGINAL INSTRUCTIONS

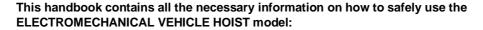
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- 21.10. Installation report and functional inspection



1.0. INTRODUCTION

- This INSTRUCTION manual FOR USE, MAINTENANCE AND SPARE PARTS are an integral part of the product. Keep it carefully so that it can be referred to during the life of the same product.
- If it gets lost or damaged, ask for a copy from OMCN S.p.A.
- If the ownership of the lift changes, this handbook must also be supplied with the same lift.
- This manual must be kept for the entire product life of the lift; it must not be tampered with and must be kept in a dry, cool place.
- Contact OMCN S.p.A. for any doubt relative to the assembly, setting up, use and maintenance of the lift.
- Failure to observe the instructions provided in this manual null and voids the warranty conditions and releases the manufacturer from any liabilities due to damages caused by lift use.
- Before performing any operation on the lift it is mandatory to scrupulously read the instructions contained in this handbook since it contains important information relative to safety of use, maintenance, assembly and setting up of the lift.
- In addition to the instructions contained in this manual, you must follow all the guidelines and legal provisions regarding workplace safety and prevention in force in the country where the machine is being used.
- The handbook should be kept right next to the machine so that authorized staff can refer to it during startup, use, servicing and cleaning.
- OMCN S.p.A. cannot be held responsible for direct or indirect injury or damage to persons, animals or things caused by the failure to observe the instructions contained in this handbook.



Art. 199/GAMMA

produced by:

WARNING

OMCN S.p.A. - Via Divisione Tridentina, 23 - 24020 Villa di Serio (BG) - Italy.

This handbook describes the following:

- · summary of indications for marking
- necessary conditions of use
- instructions on transport and start-up
- the main technical characteristics
- information regarding the workstation and controls
- instructions for safe use
- · warnings on improper or unauthorized use
- · the instructions about maintenance operations
- indications regarding noise level
- operating diagrams
- diagram of spare parts

Furthermore, the final pages in this booklet must be used as a Control Register to record the following:

- transfers of ownership
- routine maintenance operations
- periodic checks and inspections
- replacement of components, structural elements, safety devices or parts thereof

For the purposes of this handbook, the terms "Machine" and "Lift" shall be used to substitute the term "Electromechanical vehicle hoist".

OMCN S.p.A. declines all and any responsibility for possible damage to people or things caused by incorrect behaviour and/or use of the machine due to incorrect understanding of the translation of this document with respect to the original Italian version.

The manufacturer has launched the lift on the market, along with:

- · user handbook,
- EC mark,
- EC compliance statement.





1.1. General description

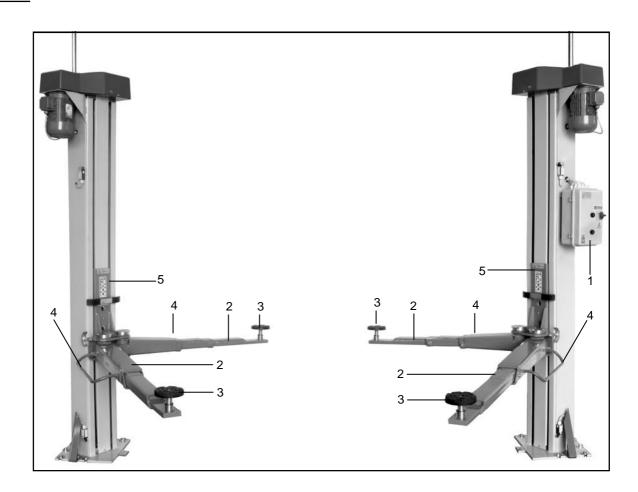
Art. 199/GAMMA is a two post lift for vehicles, fixed, electromechanically powered, designed and constructed to be used as described in paragraph 2.0. - Specific use.

Each column is equipped with a lift carriage with telescopic support arms.

The lifting and lowering of the carriages is done by a drive system with worm screws and an electric motor on the upper end of the column.

The control panel and the switchboard are located on the control column.

FIG. 2A



- 1) Control box
- 2) Telescopic arm
- 3) Pad
- 4) Footrest protection
- 5) Carriage

2.0. SPECIFIC USE

Intended use lists the admitted uses for which the manufacturer designed and constructed the machine.

Only the strict observance of admitted uses guarantees safe device use for the operator and exposed personnel. For this reason, reasonably foreseeable improper use has been identified by the manufacturer according to his experience in lift use.

For this reason, in addition to foreseen use, some but not all reasonably foreseeable improper uses are listed in the following paragraphs.

2.1. Foreseen use

The lift was designed and constructed to lift four-wheel vehicles not weighing over the rated capacity listed on the manufacturer's identification plate (FIG. 3), observing load distribution and the manufacturer's instructions.

The rated capacity of this lift is: 3500 kg.



Any uses not explicitly indicated in this manual are considered improper and hence prohibited: the manufacturer cannot be held liable for direct or indirect damage or injury to persons, animals or things caused by incorrect use of the lift

2.2. Improper use

Some but not all examples of reasonably foreseeable improper use are listed below.

It is forbidden the lifting of:

- · motor vehicles with a weight exceeding the capacity of the lift,
- persons or animals,
- motor vehicles carrying people and/or animals,
- motorcycles, motorcycles with sidecars or similar vehicles,
- · three-wheel vehicles,
- special vehicles such as: forklift trucks, agricultural machinery and tractors, excavating machinery (diggers, excavators, bulldozers, etc.),
- motor vehicles carrying potentially dangerous material (flammable, explosive or corrosive materials, etc.),
- machinery or materials in general (for use as a freight elevator or lifting board).
- materials or objects (processed pieces, tools, etc.),
- vehicles using accessories not supplied by OMCN S.p.A.

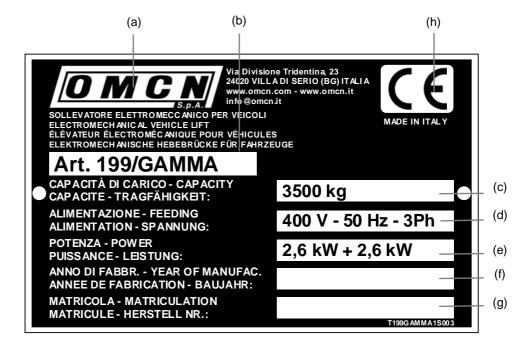


2.3. Name plate



Tampering with or removing the machine identification plate is strictly prohibited. Always keep the plate clean so that the listed data is always legible.

FIG. 3



Every lift has a manufacturer's nameplate (FIG. 3) placed on the machine according to the indications given in FIG. 1.

The manufacturer's nameplate shows the following information:

- a) General information, manufacturer's complete address.
- b) Lift model.
- c) Lifting capacity.
- d) Power supply in V and frequency in Hz.
- e) Motor capacity kW.
- f) Year of manufacture.
- g) Serial number.
- h) EC Marking.



Keep strictly to the general safety and accident-prevention regulations listed below.

THE LIFT MAY ONLY BE USED:

- The lift may only be used by authorised responsible staff in good health who have been specially trained to use the lift and are acquainted with all the risks involved.
- The lift may only be used by operators who have completely read, understood and taken in all the information given in this handbook.
- The lift may only be used inside closed rooms that are free from atmospheric agents: snow, rain and wind, etc.
- The lift may only be used by one operator. It may not be used by two or more people at the same time.

IT IS COMPULSORY:

- It is compulsory to check that the lift's environment is well-illuminated and ventilated (a sufficiently lighted place but one not subject to dazzling or intense light).
- It is compulsory to check that the floor on which the lift is to be installed is solid, flat, perfectly level and able to support the maximum planned loads.
- It is compulsory to position the lift away from sources of heat or devices emitting electromagnetic radiation.
- It is compulsory to position the lift so that the lift's working area is not exposed to hazardous movements by parts of other machines that are working.
- Before operating the lift, it is compulsory to make sure that the installed safety devices are in perfect working order.
- It is compulsory to check that the fitted safety devices work perfectly before using the lift.
- It is compulsory to check before lifting that the vehicle has been positioned on board the lift with its
 heavier part on the short arms side.
- It is compulsory to position the lift's load-bearing arms with the supporting plates at the lifting
 points specially provided on the vehicle: the correct lifting points for each vehicle are provided by the
 vehicle's manufacturer.
- Before lifting or lowering, it is compulsory to check the stability of the system of the vehicle's lift (see the load distribution table, FIG. 2).
- It is compulsory to check when lifting the vehicle that the arm locks are engaged correctly.
- It is compulsory when lifting the vehicle to stop movement after the first 200 mm and check the vehicle's stability on the supporting plates, before continuing lifting.
- It is compulsory to check during lifting or lowering that the vehicle is perfectly stable on the supporting plates.
- Before entering the hazardous area, it is compulsory to turn the lift off setting the locking switch to "0" (OFF).
- After lifting the vehicle and before starting any work on it, it is compulsory to set the locking switch to "0" (OFF).
- It is compulsory to check that the dismantling of the lifted vehicle components does not unbalance the load (see the load distribution table, FIG. 2).
- Before lowering, ensure that there are no objects and/or obstacles that could interfere with the
 movement in the area below the vehicle, the lifting arms and the trucks.
- During operation, **it is compulsory** to check that there are no hazardous conditions for persons at risk: should there be such persons, stop any movement immediately and keep them away.
- In the event of irregular or anomalous sounds, it is compulsory to stop all operations immediately
 and find the cause of the anomaly. If in doubt, avoid any improper operations and contact the
 manufacturer's technical service centre.
- Use only original OMCN spare parts for maintenance operations. The manufacturer cannot be held
 responsible for any damage caused by the use of unoriginal fittings. The use of non-original spare
 parts will instantly invalidate the warranty.



IT IS FORBIDDEN:

- It is forbidden to use the lift improperly or incorrectly; it should be used exclusively for the purpose
 described in paragraph 2.0. SPECIFIC USE.
- It is forbidden to use the lift to lift materials or objects of any kind (such as processed pieces, tools, etc.).
- It is forbidden to lift containers for transportation or to use the lift as a freight elevator.
- It is forbidden to use the lift with loads exceeding the weights indicated on the manufacturer's nameplate (FIG. 3) placed on the machine: follow the load distribution table placed on the lift (and shown in FIG. 2). Take account of any additional loads present on the vehicle to be lifted.
- It is forbidden to use the lift for washing vehicles.
- It is forbidden to climb onto or remain on the support elements of the lift or to use same lift for transporting oneself.
- It is forbidden to climb aboard the vehicle both during the movement stages and when the vehicle is being lifted.
- It is forbidden to cause the vehicle to sway during lift ascent and descent.
- It is forbidden to leave the operating machine unattended for any reason without cutting off the power supply beforehand using the switch.
- It is forbidden to remove the guards or tamper with any of the safety devices fitted on the lift.
- It is forbidden to use the lift in environments where flammable or explosive vapours or gas mixtures may develop.
- The lift must never be used if the room temperature is below 5°C or over 40°C.
- It is forbidden to tamper with or modify the lift: any tampering or modifications to the lift automatically and immediately nullifies the guarantee and relieves the manufacturer of any liability for direct or indirect injury caused by such tampering or modifications.
- Do not use accessories not suppliable by OMCN S.p.A.

3.1. Clothing and personal safety devices

To use the lift in safe conditions, adequate clothing must be used for the lift and working environment:

- do not wear loose clothes, ties, scarves or similar garments that could get caught up in the lift's movable parts.
- keep long hair out of the way and sleeve ends tight; avoid wearing watches, rings, necklaces or other objects that may cause injury.
- use suitable gloves and protective footwear. If the noise level in the working environment reaches 85 dB (A), wear earmuffs or other hearing protection devices.

In all cases, refer to working environment safety regulations of the country where the lift is being operated.

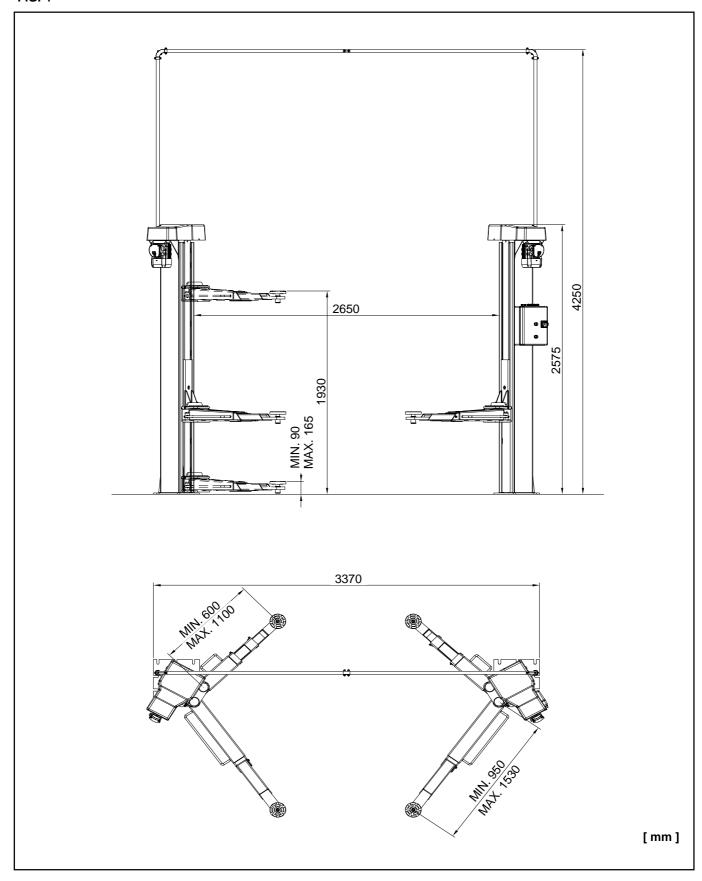
3.2. Sound Level The lift has been subjected to noise level tests.

The tests were carried out on lift equipped with its standard components.

The noise produced by the lift when working is lower than 70 dB(A).



14



Model	Capacity [kg]	Motor	Motor capacity [kW]	Weight [kg]
Art. 199/GAMMA	3500	Three-phase, 400 V, 50 Hz	2,6 + 2,6	820

5.0. TRANSPORT

The lift must be transported using the wooden crate in which the two columns (FIG. 5) and all the other parts of the lift must be introduced. Furthermore, the crate must be handled using lifting equipment with a capacity greater than the weight of the lift (for the entity of the weights see FIG. 5 - 5A).



During transport it is compulsory to firmly fix the crate (or the packed lift) so as to prevent movement on the bed of the vehicle or means of transport. If a fork lift truck is used for handling the crate, pick them up and lift as shown in FIG. 5.

FIG. 5

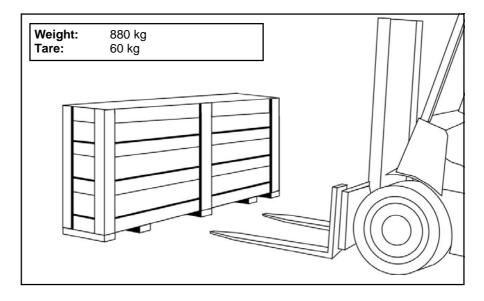
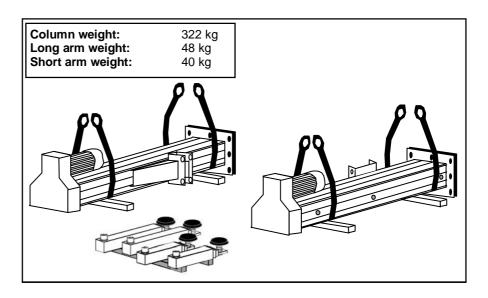


FIG. 5A



If the wooden crate is not used for transporting the lift, the columns must be packed separately in bubble wrap to protect all the lift components during transport and handling.

Transport the packed lift as follows:

- Protect the control panel from bad weather and handle it with care.
- Protect the corners and ends of the component to be transported using suitable materials (bubble wrap or cardboard).
- Do not use metal cables for lifting purposes.
- Sling the machine with belts of at least 2500 mm long, with adequate capacity for the weight to be moved.



6.0. UNPACKING

After unpacking, check that the machine and control devices are perfectly intact and have not been damaged during transport.

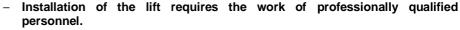
Notify the manufacturer of any missing parts within 8 days of delivery.

If in doubt, do not use the lift and contact your authorised dealer for technical assistance.

The materials used for packing (plastic bags, expanded polystyrene, nails, screws, timber, etc.) represent a potential source of danger: they must not be left within the reach of children or animals!

It is recommended to keep the packing material for future transport. If these materials are to be disposed of, they should be taken to the specific collection points in compliance with local regulations.

7.0. ASSEMBLING AND SETTING AT WORK



- Even simple operations on the electric part require professionally skilled workers.
- It is forbidden to install the lift on yielding or uneven surfaces.
- It is forbidden to install the lift in environments where flammable or explosive vapours or gas mixtures may develop.
- It is compulsory to position the lift inside closed rooms away from the elements, such as: snow, rain and wind, etc.
- It is compulsory to position the lift away from sources of heat or devices emitting electromagnetic radiation.
- It is compulsory to check that the environment where the lift is to be set is ventilated and well-illuminated.
- Previously check that the height and characteristics of the ceiling of the room where the lift is to be installed are such as to guarantee complete ascent of the lift, even with particularly tall vehicles aboard.
- Before moving the various component parts of the lift it is compulsory to verify the entity of the weights to be moved and that the lifting equipment to be used is capable of bearing these weights.



7.1. Installation area

The following tools are required for setting the lift at work:

- series of hexagonal wrenches and Allen wrenches from 6 a to 24 mm and CH46 wrench
- anchor drill (drilling Ø 18 mm)
- spirit level
- three-phase electric cable with minimum section of 4 mm² three poles + earth.

When identifying the area, account must be taken of the overall size of the lift (see § 4.0. – TECHNICAL DATA), the practicable space for the operator around the perimeter of the machine must be taken into consideration (keep a clear distance of at least 800 mm between all parts of the lift and possible walls or any other equipment to allow the required maintenance and control operations).

The lift must be installed in a room with sufficient space from floor to ceiling (at least 5000 mm) to leave place to the tube supporting the electrical wires connecting one column to the other.

Account must also be taken of the space needed for vehicle ascent and descent operations. The lift must be installed so that the operator can see the whole of the machine and the surrounding area from the control post so as to be able to check that, in that area, there are no exposed people and/or objects that could interfere with the lift's movements and be a source of danger.

Minimum requisites for the floor on which the lift is to be installed

The lift must be installed on a flat, level and regular concrete floor without expansion joints or cuts.

This surface must bear all the forces transmitted by the columns in its most loaded conditions: it must have minimum resistance of at least 35 N/mm² which is equal to 35 RcK.

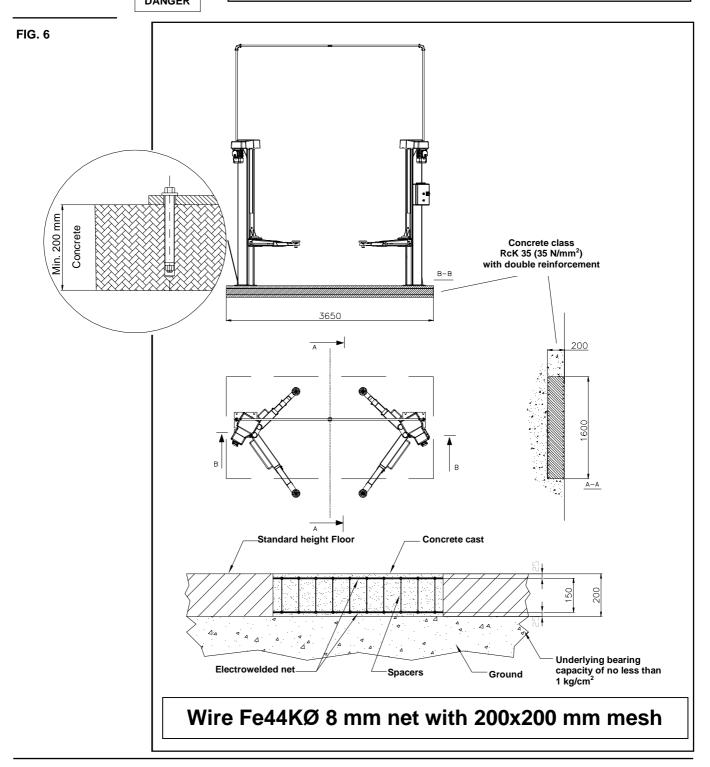
The depth of the concrete layer must ensure a good holding of anchors and have a good consistency, equalling at least 200 mm.

The above characteristics must be guaranteed over a minimum area of 3650 mm x 1600 mm (FIG. 6).





It is prohibited to install the lift on surfaces with different characteristics to those described above such as, for example, yielding or uneven surfaces or ones not perfectly level.



7.2. Columns positioning

After unpacking the machine parts, follow the instructions below in order to assemble the lift.

Table 1 shows the weights of the principal components of the lift so that they can be handled correctly during the lifting stage:

TABLE 1

WEIGHT TABLE			
Column	322 kg		
Long arm	48 kg		
Short arm	40 kg		

- Move the columns to the place of installation using handling equipment suited to their weight (see TABLE 1). Place the columns horizontally on the floor, so that the arm carriage is facing upwards (FIG. 7).
- Check that the level (distance between arm carriage and baseplate) given in FIG. 7 is approximately 800 mm for both columns. If this is not the case for one or both columns, use hexagonal wrench CH46 on the hexagon of the corresponding leadnut at the top of the column (FIG. 8) and turn it until the correct carriage level is reached.

FIG. 7

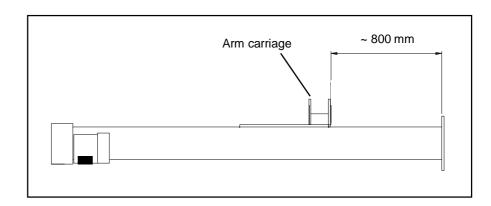
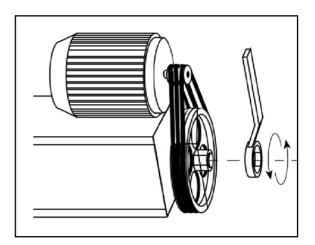
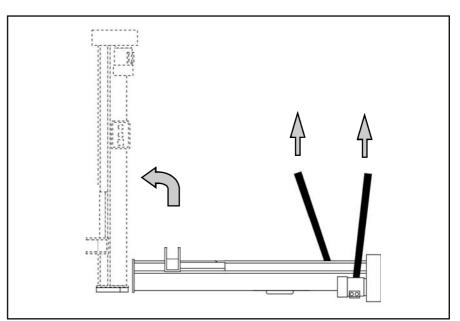


FIG. 8



• Lift the columns to a vertical position: this must be done by lifting the column from the motor side as show in FIG. 9; use lifting belts of adequate capacity for the weight of the column for this purpose (see TABLE 1): do not use chains or apparatus that may damage the columns.

FIG. 9





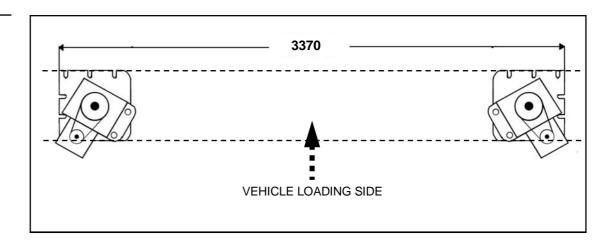
The columns must be supported until they have been firmly fixed to the floor using all the respective anchor bolts!

- Position the two aligned columns at the distance shown in FIG. 10.
- Use a spirit level to set the two columns vertically to the floor and, if necessary, inserting spacers between floor and baseplate where there are empty spaces, so as to have uniform support.



The columns must be perfectly vertical with the floor (check with the spirit level) without any swinging.

FIG. 10



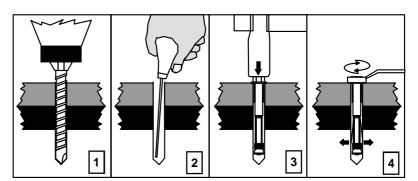
7.3. Columns fixing

The columns can then be fixed.

Fix each column to the flooring using the expansion bolts provided (7 expansion bolts with washer for each column) as described below.

- Using a drill with the same diameter as the anchor bolts supplied (Ø 18 mm), drill a hole (1 FIG. 11) in the bolting points (7 bolting points for each column, FIG. 12) on each column baseplate.
- Clean the holes (2 FIG. 11).
- Push each anchor bolt into each hole with gentle hammer-blows (3 FIG. 11).
- Tighten the bolts with a dynamometric wrench calibrated to 70 N·m (4 FIG. 11).
- If this value fails to tighten the bolts, it may be caused by incorrect drilling (diameter too large) or insufficient consistency of the concrete foundation.

FIG. 11





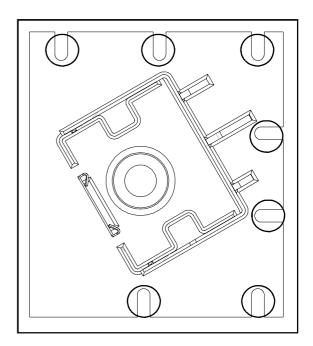


FIG. 12. Column bolting points.



- It is compulsory to fix the columns carefully to the floor since defective fixing could cause very serious accidents!
- The use of compressed air screwdrivers for tightening up the anchor bolts is prohibited.
- Check that the anchor bolts are still all tight after 10 runs at full load.
- It is compulsory to check every 3 months that the anchors have not loosened!
- If you are not sure about the type of flooring or where to install the lift, contact your authorized dealer for technical assistance.
- The manufacturer cannot be held liable for any damage caused by the failure to follow the above instructions.

7.4. Fixing the overhead cable duct

- Unpack the tubes for passing the cables overhead and join the parts on the ground, as shown in FIG. 13. Tighten the elbow sleeve screws (3 FIG. 13) and central coupling (4 FIG. 13).
- The electric cable is already fitted inside the tubes, so check that it protrudes from the end of the duct for the same length. Check that each electric wire is labelled with the identification number for wiring to the electric terminal blocks of the two columns.
- Fit the two vertical ducts (3 FIG. 14) in their supports (2 FIG. 14): first insert the electric wires coming out of the tubes, then fully insert the tubes in the supports so that they reach the bottom wire of the supports themselves. Fix the ducts in place by tightening the screws (4 FIG. 14).



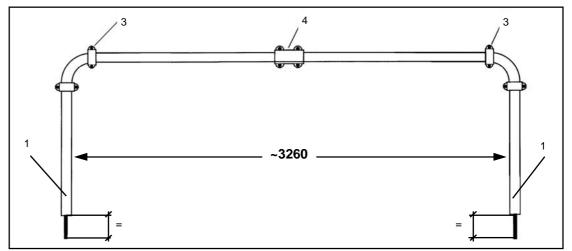
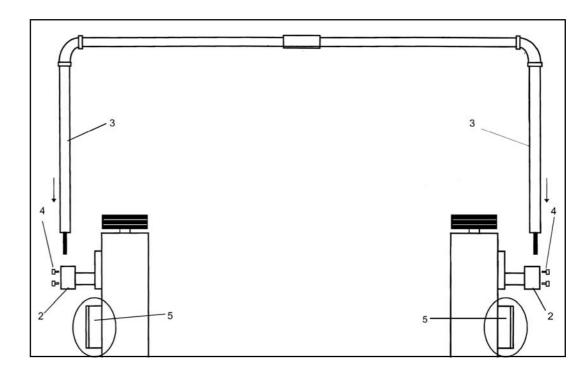


FIG. 14

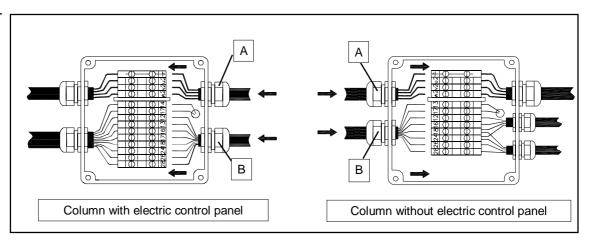


7.5. Wiring



- Even simple operations on the electric part require professionally skilled workers.
- Before carrying out any operations, it is compulsory to check that the devices to be serviced are safely disconnected from the power supply.
- Remove the lid of the two electric junction boxes (5 FIG. 14).
- On each column, fit the two cables coming from the duct in the electric junction box's empty cable gland (A and B FIG. 15); proceed as follows for each cable:
 - unscrew the gland nut
 - first thread the wire through the nut, then through the gasket, then through the gland
 - connect the electric wires to the terminals of the electric junction box's terminal board: each wire
 must be connected to the corresponding numbered terminal. Make sure the numbers on the
 tags of the electric wires correspond with those on the electric junction box's terminal
 board!
 - tighten the gland nut after having made the connections.

FIG. 15





7.6. Connections to the power line



- Even simple operations on the electric part require professionally skilled workers.
- Before carrying out any operations, it is compulsory to check that the devices to be serviced are safely disconnected from the power supply.
- The control board must be wired to the mains via a distribution board provided by the user. The distribution board should be equipped with a disconnecting switch, protection device against overcurrents and differential switch (Adequate circuit breaker): it is forbidden to connect the control board directly to the mains of a factory or workshop!
- IT IS STRICTLY FORBIDDEN TO MAKE ANY JUNCTIONS ON THE MAINS LINE!
- Before making the connections check that the data relative to the electricity power supply shown on the lift's rating plate (FIG. 3) correspond to the characteristics of the distribution board provided by the user.
- Carry out the lift's earthing connection.

The lift is equipped with an attachment for an external earthing connection, identified with the symbol in FIG. 15A applied to it: carry out the earthing connection according to the regulations in force, using an electric cable, covered and marked with the yellow-green colours and with an appropriate section.

FIG. 15A



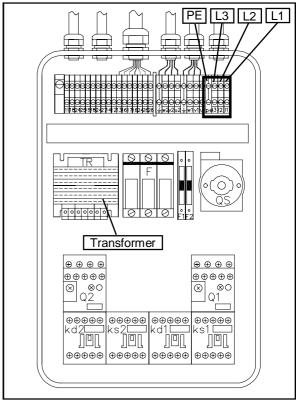
Check that the voltage is correct for operation (400 V, 50 Hz).

Connect the line wire including the earth wire to the terminals marked L1 - L2 - L3 - PE on the terminal board (1 FIG. 16) inside the electric control unit.

Use electrical wires not smaller than 4 mm² when working on 230 V power; use electrical wires not smaller than 2,5 mm² when working on 400 V power. Use tripolar plug + earth, wires not longer than 10 m in both occasions.

Longer cables must be larger in section, so contact OMCN's technical service for information on the right section for the cable length.

FIG. 16

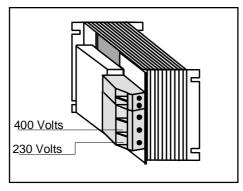


When 230 Volts needs to be supplied, follow the instructions given below.

- In the transformer installed on the electric panel (FIG. 16) disconnect the wire connected to the terminal marked with value 400 and connect it to the terminal marked with value 230 (FIG. 17).
- For each column: remove the motor terminal board cover, them remove the contact bar block nuts and reverse the position of the bars themselves, installing them in a horizontal position (FIG. 18). Screw the nuts back on.
- Replace the protection fuses (see § 14.0. CONTROL PANEL COMPONENTS) with others of suitable value supplied, on request, by the technical assistance department of OMCN S.p.A.



FIG. 17, 18





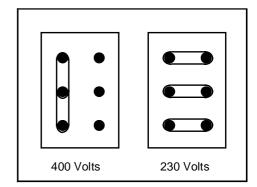
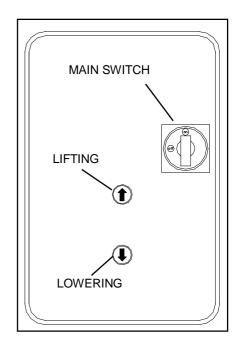


FIG. 18. Motor terminal board

7.7. Starting up

- Switch on at the mains.
- Set the main switch (FIG. 19) on the electric panel to "ON".
- Press the "LIFTING" push-button briefly (FIG. 19) and check that both carriages rise, then press the "LOWERING" push-button briefly (FIG. 19) and check that both carriages go down. If, however, one of the following incorrect operating situations occurs:
 - 1) one carriage rises and the other lowers or
 - 2) both carriages lower proceed as described below.

FIG. 19





In both cases, before intervening, the power must be cut off using the knife switch of the user's electric distribution panel and then switching the main switch to "OFF" (FIG. 19).

1) One carriage goes up and the other goes down

- after having powered down, open the hatch of the electric control panel, disconnect two phases
 of the motor power supply cable of the trolley that goes down (Motor 1 or Motor 2, FIG. 20) and
 reverse their positions, then retighten the screws of the terminals involved;
- close the control panel hatch and power up using the distribution panel knife switch, then set the main switch to "ON";
- check that both carriages rise when the "LIFTING" push-button is pressed briefly and that both carriages lower when the "LOWERING" push-button is pressed briefly.



2) Both carriages descend

- after having powered down, open the control panel, disconnect two phases of the power supply cable coming from the factory distribution panel (FIG. 20) and reverse their positions, then retighten the screws of the terminals involved;
- close the control panel hatch and power up using the distribution panel knife switch, then set the main switch to "ON";
- check that both carriages rise when the "LIFTING" push-button is pressed briefly and that both carriages lower when the "LOWERING" push-button is pressed briefly.



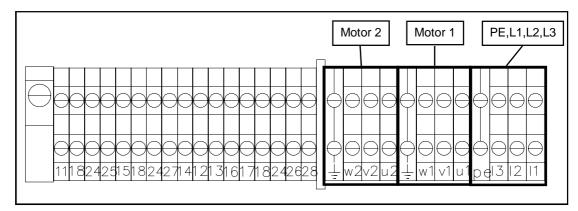


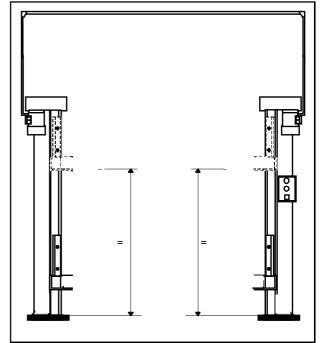
FIG. 20. Electric control unit terminal board

- Once the lift raising and lowering correct operation check has been completed, bring the carriages to the end of upward travel by pressing the "LIFTING" push-button, holding it down until each carriage has reached its end of upward travel.
- Check again that the two carriages are at the same height from the ground (FIG. 21); if not, use hexagonal wrench CH46 on the hexagon of the leadnut at the top of the column (FIG. 8), then turn until the correct height for the carriage is reached.
- Make 2 complete upward and downward travels to check that the lowering limit switch trips as normal before the carriages reach the end of travel.
- Having made all the electrical connections it is compulsory to make an instrument test of the continuity of the protection circuit before the machine is put into service.



Non-continuity of the protection circuit can, in the case of a breakdown in the electric circuit, cause very serious health risks which may also be fatal in more serious cases.

FIG. 21

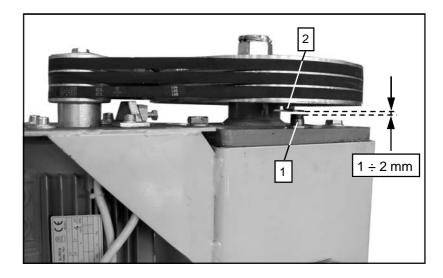


7.8. Mounting the belt drive cover

A sensor for controlling carriage movement (1 FIG. 22) is installed on the head plate of each column, a striker plate (2 FIG. 22) for recording the number of screw turns is installed on the pulley: the sensor and striker plate are fitted and calibrated by the manufacture during the test stage.

The correct distance between the striker plate and the sensor is approximately $1 \div 2$ mm: check this distance and, if it is not the case, the height of the striker plate can be adjusted by screwing or unscrewing it.

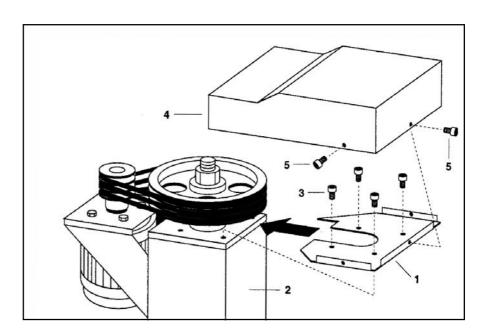
FIG. 22



Assemble the protections for each column as follows.

- Install the support (1 FIG. 23) on the head plate (2 FIG. 23) of the column, fixing it with the screws provided (3 FIG. 23) to be screwed into the respective holes located on the plate itself.
- Install the protection (4 FIG. 23) on the support and fix it with the screws (5 FIG. 23) in the holes provided.

FIG. 23



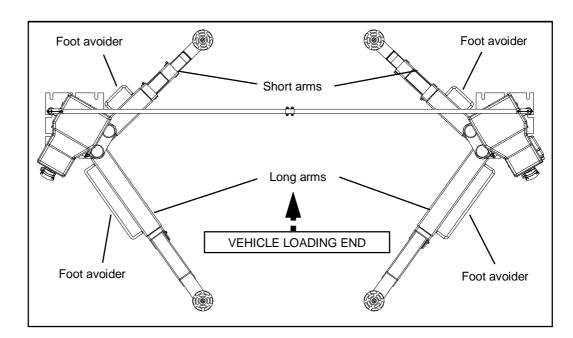
7.9. Mounting the load-bearing arms

The telescopic load-bearing arms must be installed on the carriages of the lift as shown in FIG. 24: the long arms at the end where the vehicles will be loaded onto the lift and the short ones at the other end. In all cases the foot avoider device must be turned towards the outside of the lift as shown in FIG. 24. Proceed as follows for correct assembly of the four arms.



- Handle the telescopic arms using means adequate for their weight (short arm 40 kg, long arm 48 kg).
- Handling the arms lifting them from the foot avoider is prohibited: danger of falling!

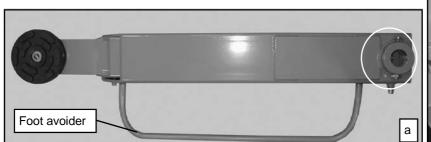
FIG. 24



- Bring the carriages to approx. 1 m from the ground by pressing the lifting or lowering push-button.
- · For each arm:
 - remove the three stop screws prefitted to the arm (a FIG. 25),
 - extract the pin inserted in the carriage from its housing (b FIG. 25),
 - insert the arm in the housing in the carriage (a FIG. 26),
 - refit the pin previously extracted, pushing it fully home so that, once inserted, the three notches present on the body of the pin coincide with the three holes present in the arm (b FIG. 26),
 - fully screw in the three stop screws (c FIG. 26) previously removed, so as to fix the pin.
 Check two or three times that, when the head of the pin is extracted manually from its housing (d FIG. 26), the corresponding arm rotates freely and that, on the contrary, it remains locked in position when the head of the pin is fully inserted in its housing (e FIG. 26).

FIG. 25

26



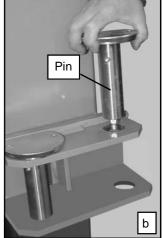
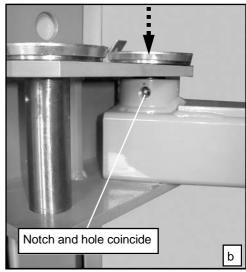


FIG. 26







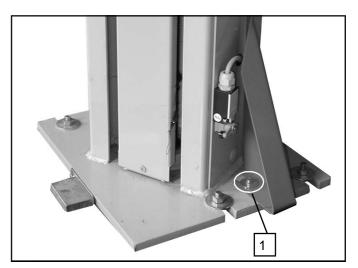




7.10. Mounting the foot guards

Two foot guards are provided with the lift, one for each column. Fix the foot guards to the baseplates of each column from the long arm side, using the screw prefitted to the base plate itself (1 FIG. 27), as shown in FIG. 27.

FIG. 27





The following operations may only be carried out by a specialized technician.

- Lower the carriages using the "LOWERING" push-button and check that the lowering limit switches
 (FIG. 29) of both columns cut in, stopping the respective carriages at a distance of approximately 5
 mm from the baseplate (FIG. 28) and that all four locking pins move to a position that allows all the
 lifting arms to rotate freely. Should the distance be different for one or both carriages, register the
 position of the corresponding lowering limit switch using the special register provided on the fixing of
 the limit switch lever.
- Make a short lift and check that the four locking pins reclose to lock the lifting arms again.

FIG. 28

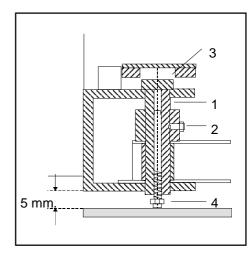
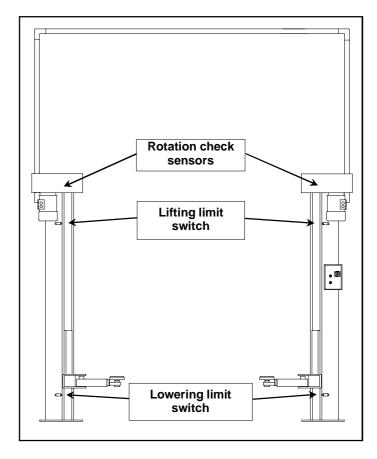


FIG. 29



The synchronization of the movement of the two arm-holder carriages is controlled by an electronic board on the electric control panel. Through two sensors, each located on the upper plate of the two columns (FIG. 22), the system controls the number of revolutions of the transmission screws and corrects possible inequalities within an allowed tolerance. When it trips, it stops the fastest screw motor, allowing the other carriage to reach the correct position.

During lifting and lowering, the arm carriages are under constant control. One of the two may stop and start again immediately if the alignment correction trips: this stop proves that the lift is operating as normal.

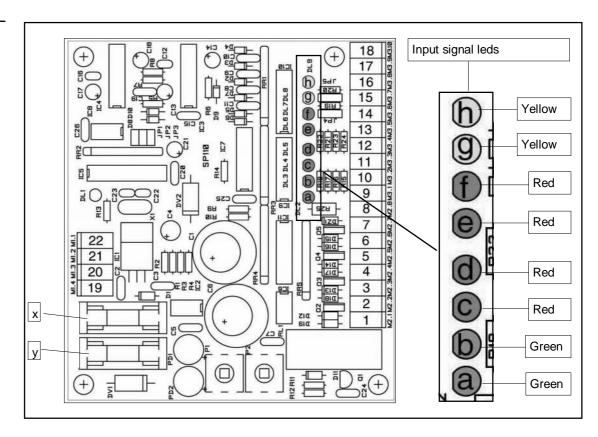
The lifting and lowering limit switches on the two columns (FIG. 29) reset the counts every time they are pressed.



- Even simple operations on the electric part require professionally skilled workers.
- Consult the manufacturer if the check of any of the functions listed below does not have a positive outcome.

The electronic board inside the control panel, on the push-button hatch, is fitted with a set of LEDs that are used to check the efficiency of the board itself and of the electric components installed on the lift.

FIG. 30



Leds a and b allow you to check that the LIFTING and LOWERING push-buttons function properly. Check that:

- green LED (a) comes on when the LIFTING push-button is pressed.
- green LED (b) comes on when the LOWERING push-button is pressed.

Also check that:

- red LED (c) comes on when the arm-bearing carriage of the column with the electric control panel reaches the lifting limit switch.
- red LED (d) comes on when the arm-bearing carriage of the column without the electric control panel reaches the lifting limit switch.

In particular check that:

- red LED (e) comes on when the arm-bearing carriage of the column with the electric control panel reaches the lowering limit switch.
- red LED (f) comes on when the arm-bearing carriage of the column without the electric control panel reaches the lowering limit switch.

The yellow LEDs (g) and (h) must blink regularly during arm-bearing carriage lifting and lowering movements; they show correct operation of the 2 proximity switches: (g) for the column with the electric control panel and (h) for the other respectively.

If no lift movement occurs and the LEDs on the board do not light up when the LIFTING or LOWERING push-button is pressed, a check must be made of the efficiency of the two fuses (x) and (y) on the board itself and of that of the two fuses F1 and F2 (6 FIG. 41).



7.12. Continuity test



Non-continuity of the protection circuit can, in the case of a breakdown in the electric circuit, cause very serious health risks which may also be fatal in more serious cases.

When the lift has been assembled and all the electrical connections made, it is mandatory to make an instrumental test of the continuity of the equipotential protection circuit according to the regulations in force before the lift is put into service.

7.13. Qualifications for use

Before delivery, the manufacturer conducted static and dynamic tests to ensure that the lift operates in safety conditions.

Tests were conducted using the test coefficients set by EN 1493:+ A1 standards. For this reason the user needs not conduct load tests in the place of use to check suitability.

In any case, should, for any reason, load tests be conducted on the lift, these must be conducted observing the procedures and load distributions listed in paragraph 20.0. - INSPECTION TESTS for this Booklet.



DANGER

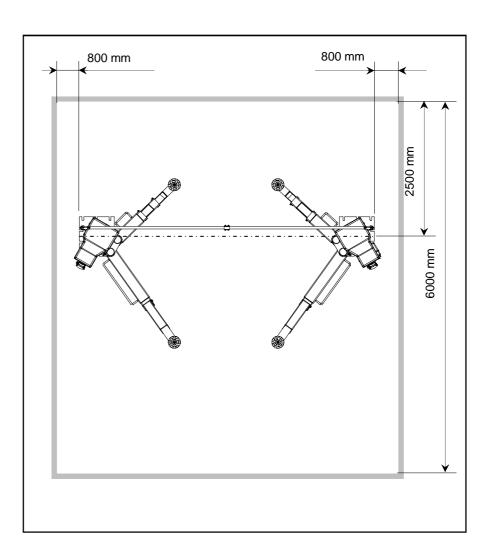
The tests must only be made by specialized technical personnel. OMCN S.p.A. cannot take responsibility for damage or injury to people, animals or things caused by the machine due to incorrect loading or overloading.



8.0. HAZARDOUS LIFT AREA

Before using the lift, mark the operating area with yellow lines that must be visible from a distance, drawn on the ground as shown in FIG. 31. The yellow lines' width must be 100 mm.

FIG. 31





When using the lift check that nobody is inside the operating area; if not so, stop all lift movement.

9.0. OPERATION



Failure to apply the following instructions could lead to the expiration of the guarantee conditions and relieve the manufacturer of all and any responsibility for possible damage caused by using the lift.

- Once the lift has been installed, check that the floor fixing anchor bolts are all tight after the first 10 runs at full load.
- It is compulsory to check every 3 months that the anchors bolts have not loosened!
- This lift may only be used by authorized personnel: its use by personnel not acquainted with the instructions contained in this handbook is strictly forbidden.
- Make a daily check of the correct insertion of the arm locking pins.

- It is prohibited to use the lift and persist with the control buttons when the leadnut wear indicator shows excessive wear of the leadnut itself.
- Before lifting, ensure that the area above the vehicle is free of impediments and/or obstacles that could interfere with the movement.
- Work under the lifted vehicle only after turning the main switch to "0" (OFF).
- Before lowering, ensure that there are no objects and/or obstacles that could interfere with the movement in the area below the vehicle, the lifting arms and the trucks.
- For any requirements or assistance, please contact the authorised centres only and ask for original parts: the list of spare parts is included in this handbook.
- It is prohibited to lift loads of a weight greater than the rated capacity of the lift as shown on the manufacturer's rating plate (FIG. 3).
- Position the vehicle to be lifted on board of the lift in compliance with the load distribution table (FIG. 2).
- In the event of a block of the lift's movements, an emergency lowering operation can be performed. This is done by following the instructions given in § 9.4. Emergency lowering – or contact the OMCN S.p.A. technical office for more detailed instructions.



Arm lock

9.1.

Inside each of the pins connecting the arms to the carriage there is a mechanical device (arm lock) for locking the corresponding arm. This device cuts in automatically whenever the lifting phase starts, after which it remains cut in until the arms are returned to the ground (lowering limit switch).

When the arm-bearing carriages are not in the lowering limit switch position and there is no load on the lift, one of the 4 arms can be rotated by manually pulling the head of the corresponding pin upwards (d FIG. 26): this allows the locking device to be cut out. The locking device cuts in automatically as soon as the head is replaced into its housing.

9.2. Lifting

- With the carriages fully lowered load the vehicle to be lifted between the two columns, from the vehicle load end (the one corresponding to the long arms, see FIG. 32) so that the load distribution table (FIG. 2) is respected and the heavier part of the vehicle is at the short arm end.
- Register the length of the removable lifting arms so that the pads are positioned below the lifting points for lifting the vehicle.

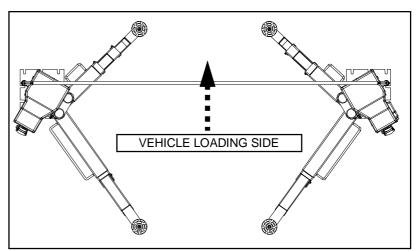
Note: the correct lifting points for lifting any vehicle are provided by the manufacturer.



WARNING

To obtain correct support for the load it is mandatory to lengthen or shorten all arms using removable extensions by the same amount.

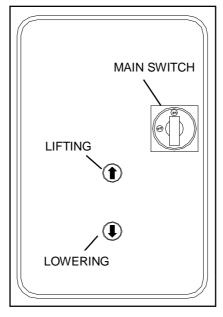
FIG. 32



L199GAMMA1ES003

- Regulate the height of the four pads according to the height of the grip points of the vehicle to be
 lifted: the regulation of the pads must be such that when all the pads are in contact with their
 respective lifting points and that, once lifted for a few centimeters, the vehicle is parallel to the
 ground.
- · Set the main switch (FIG. 33) to ON.
- The "LIFTING" button (FIG. 33) is a maintained action button: pressing it starts the movement, releasing it stops the movement immediately.
- Press the "LIFTING" button and stop lifting after a few centimeters, then check the correct positioning of the pads in correspondence with the vehicle's lifting points and the stability of the vehicle itself of the pads.
 - The lifting phase can be continued if the above conditions are met.
- If the "LIFTING" button is kept pressed, the lifting phase stops due to the lifting limit switch cutting in when the lift has reached its maximum height: when the lift is taken to its maximum height it is mandatory to keep the "LIFTING" button pressed until both carriages reach the lifting limit switch, tripping the respective switches. This realigns the carriages automatically.

FIG. 33, 34





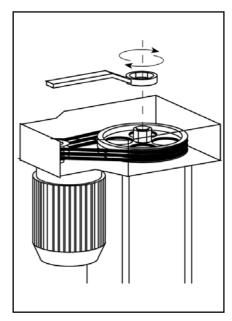


FIG. 34

9.3. Lowering

- The "LOWERING" button (FIG. 33) is a maintained action button: pressing it starts the movement, releasing it stops the movement immediately.
- After having checked that the area below the raised vehicle and the area below the lifting arms are
 free of objects and/or obstacles that could interfere with lowering, press the "LOWERING" button to
 start lowering.
- Keeping the "LOWERING" button pressed, the lowering phase stops due to the cutting in of the
 lowering limit switch: when the lift is lowered completely it is mandatory to keep the
 "LOWERING" button pressed until both arm-bearing carriages have reached the lowering
 limit switch, tripping the respective switches. This realigns the carriages automatically.

9.4. Emergency lowering

In the event of power failure, you can lower the lift manually by turning the nut (close to the transmission screw) anti-clockwise inside each column cover using the hexagonal wrench CH 46 (FIG. 34).



When lowering the arm carriages alternately, take the greatest care not to create a distance of more than 100 mm between them: danger of the raised load falling!



10.0. SAFETY DEVICES

The lift is equipped with the following safety devices that protect the operator and the machine.

- The lift's controls are hand-held (with operator present), so movement is immediately interrupted as soon as the relative buttons are released.
- Power supply line sectioning is activated by a yellow and red switch (main switch, FIG. 33).
- The emergency stop is activated by the main switch, which is also the disconnecting switch.
- Synchronization of the movement of the arm carriages is done by an electronic device that compares the number of transmission screw turns (detected by two turn counter sensors installed on the upper plate of the two columns) and corrects possible inequalities automatically. This device stops the lift movements if an obstacle is found underneath the lifting arms or arm carriages.
- Automatic reset of the turns count relative to the two transmission screws at the lowering and lifting limit switches: this device counts the number of screw turns.
- Mechanical device located on the load-bearing leadnut's wear control; excessive wear or breakage
 of the load-bearing leadnut may block the movement of the screws, requiring the leadnuts of all
 columns to be replaced.
- Foot-guards: a fixed foot-guard protection is installed on the baseplate of each column. Each arm is also fitted with its own foot avoider.
- Mechanical arm stop: cuts in automatically whenever a lifting from the ground phase starts within 20 mm of lifting, after which it remains cut in until the arms are returned to the ground (lowering limit switch). This mechanism keeps the vehicle stable when it is being lifted.
- Parachute device: a safety leadnut, normally unloaded, cuts in automatically if the load-bearing leadnut should break, preventing the arm carriage from falling.

Removal or tampering with the safety devices relieves the manufacturer of all and any responsibility caused by or referable to these actions and constitutes an infringement of European regulations.

11.0. ROUTINE MAINTENANCE

Routine maintenance includes all cleaning, lubricating, greasing and tuning operations that need to be carried out regularly at fixed intervals to ensure that the machine operates correctly and that the safety devices installed on the lift are in perfect working order.

All those operations not mentioned below are considered extraordinary operations, which may only be carried out by the manufacturer.

Your attention is also drawn to the importance of the periodic check to be made on your lift, annual check (see Periodic check report). Periodic checks and inspections must always be conducted by specialised OMCN S.p.A. personnel or our specifically trained personnel.



WARNING

- The maintenance operations described below must be carried out by technical personal specializing in the specific sectors of mechanics and electrical technology.
- The times indicated below are conditioned by various factors, such as environmental conditions (presence of dust), intense use, frequent temperature changes, etc. In such cases, these times should be reduced accordingly.
- All cleaning and maintenance must be carried out in safe conditions. To this end, before starting any work on the lift, section it off from the power sources by turning the main switch to "OFF" and padlocking it.
- Removing the column-casings or the casings located on the upper plates of the columns is a dangerous operation. It must be performed by responsible personnel trained for the risks involved and only after having turned the main switch to "OFF".
- If during maintenance and inspection operations, enclosures or sheet metal covers are removed, make sure the fastening screws are not misplaced; after having carried out said operations, reassemble the enclosures using all the previously removed screws, otherwise use of the lift is prohibited.

To ensure that the machine operates correctly and efficiently, follow the instructions below.

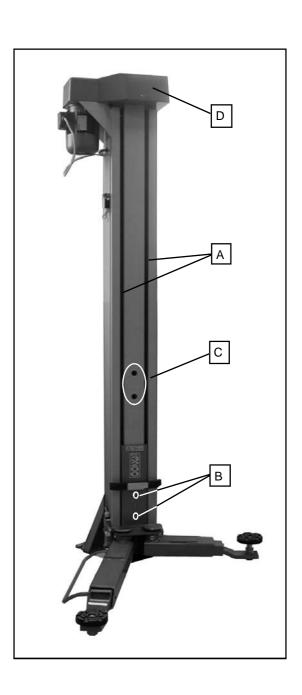
The devices transmitting movement to the screws (pulleys and transmission belts), the carriage sliding rollers (inside the columns) and the sliding guides (inside the columns) must be kept constantly clean. Use TEXACO GREASE L EP 1 all-purpose grease (or equivalent) for all greasing operations.



Every month

For each column, through the free space between the screw protective casing and the column's plate (A FIG. 35), the reference rod for checking the wear of the load-bearing leadnut in correspondence with the upper part of the carriage (FIG. 36A). When the reference rod protrudes from the upper limit of the carriage by over 2 mm (as in FIG. 36B) the load-bearing leadnuts of both columns must be replaced. If you use the lift for more than the indicated limit, this leads to total wear of the load-bearing leadnuts and the "leadnut wear" safety mechanical device trips, preventing you from using it until the load-bearing leadnuts are replaced.

FIG. 35





- If the reference rod of one or both columns indicates wear of the relative load-bearing leadnut, do not use the lift until it/they are replaced.
- If there is excessive wear in one or both load-bearing leadnuts, a mechanical safety device will stop the movement of the relative carriage when it is approximately 500 mm above floor level: if this happens, do not persist with the control buttons and do not use the lift until the load-bearing leadnuts have been replaced.

FIG. 36A, 36B

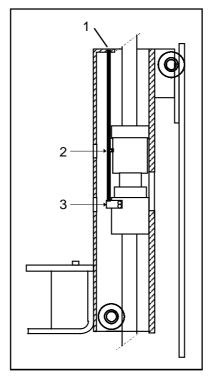


FIG. 36A. Reference rod (1) flush with the carriage: load-bearing leadnuts not worn.

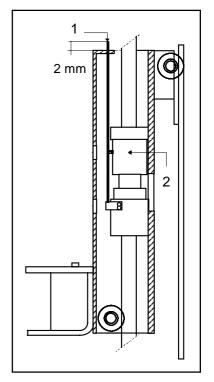
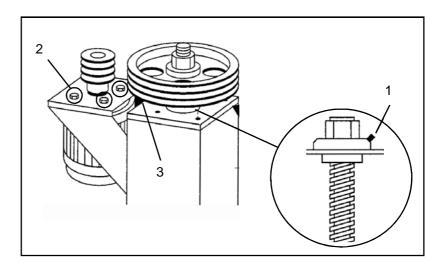


FIG. 36B. Reference rod (1) protrudes by 2 mm: load-bearing leadnuts to be replaced.

- For both columns: grease the load-bearing leadnuts (2 FIG. 36A) and the safety ones (3 FIG. 36A) through the specific grease nipples. It is unnecessary to remove the column protection casing to do this: stop the carriages when the two holes provided in the carriages (B FIG. 35) align with the two holes present in the casings (C FIG. 35) so that it is easy to access the grease nipples.
- For both columns: remove the casings installed at the top of the column and inject all-purpose grease in the specific grease nipples on the transmission screw support flange (1 FIG. 37), below the pulley.
- Check that belts are in good condition and the tension is correct.

FIG. 37



Every 3 months

- Check that the two columns are securely bolted to the ground and that the anchor bolting torque is at least 70 N⋅m.
- Grease the sliding guides of the wheels (inside the column) and the wheels themselves through the free space between the screw protective casing and the column's plate (A FIG. 35): each carriage has 4 wheels.

12.0. TROUBLESHOOTING TABLE



The interventions must be carried out by technical staff specialized in mechanics and electrical engineering.

Symptom	Possible cause	Remedy
The lift fails to move	Main switch to "OFF"	Set the switch to "ON"
	Main switch fuses are disconnected	Replace the fuses
	Transformer fuses blown	Replace the fuses; should the problem persist call your retailer for technical assistance
	Fault in the electric system	Call your dealer for technical assistance
	The mechanical safety device cuts in due to excessive wear in the load-bearing leadnuts	Have the load-bearing leadnuts replaced by the OMCN S.p.A technical assistance service
The lift does not raise the vehicle to the maximum height (until the lifting limit switch trips)	The movement transmission belt of one or more columns is slack	Loosen the 4 motor holding screws (2 FIG. 37) and tension the transmission belt by tightening the screw on the motor support bracket (3 FIG. 37) to eliminate any slippage. Retighten the 4 motor holding screws
	Electric power supply line with insufficient voltage	Have the power supply line and electric control unit input voltage of the lift checked by a technician
	Incorrect power supply cable section	Have the section of the power supply cable checked by a specialized technician and adapt it if necessary
The lift rises and descends unevenly (in jerks)	Carriage sliding rollers worn	Check the condition of the carriage rollers: call the OMCN S.p.A. technical service for a replacement
	Carriage levelling control devices out of position	For each column: check the correct fixing of the turn counter sensor and the striker plate, put it back in position if necessary (§ 7.8., FIG. 22)
Noise from the transmission screw when the carriages of the two columns are in	Insufficient leadnut and roller guide lubrication	Carry out routine maintenance as described in § 11.0ROUTINE MAINTENANCE
motion	Load-bearing leadnut over worn	Check the level of wear in the load-bearing leadnut as described in § 11.0: if excessive, have both load-bearing leadnuts replaced by the OMCN S.p.A. technical assistance service
	Carriage rollers worn	Check the condition of the carriage rollers (4 rollers per carriage): call the OMCN S.p.A. assistance service for a replacement
	Impurities or dirt on the slideways	Remove the front protective guard and clean the slideways thoroughly. Grease before refitting
Columns vibrate too much without a load	Lift installed on an irregular surface	Take steps to level the floor on which the lift is installed
The carriage on one column stops frequently during operation	Speed indicator sensor out of position	For each column: check the correct fixing of the turn counter sensor and the striker plate, put it back in position if necessary (§ 7.8., FIG. 22)
	Malfunction in the electronic board for carriage alignment control	Contact the technical department of OMCN S.p.A.

If problems persist even after applying the above solutions, contact OMCN S.p.A. and avoid any non-specific operations. **Only purchase original spare parts.** The list of spare parts is included in this instruction handbook.



FIG. 38

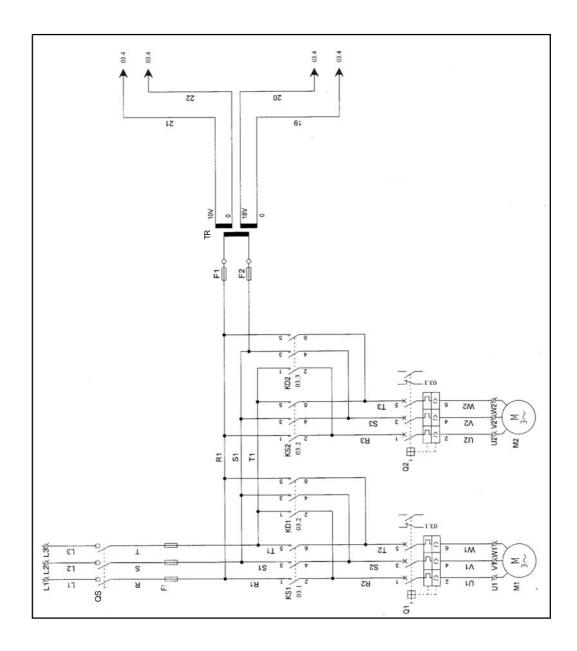
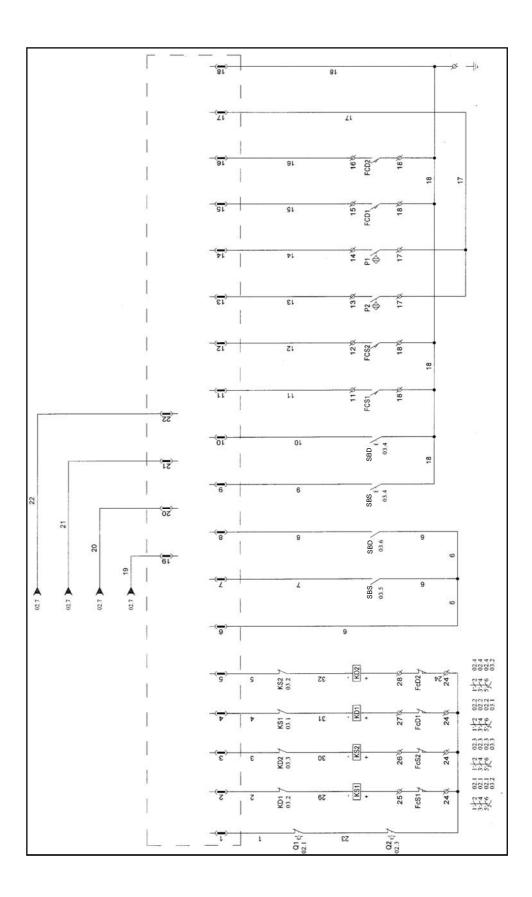




FIG. 39

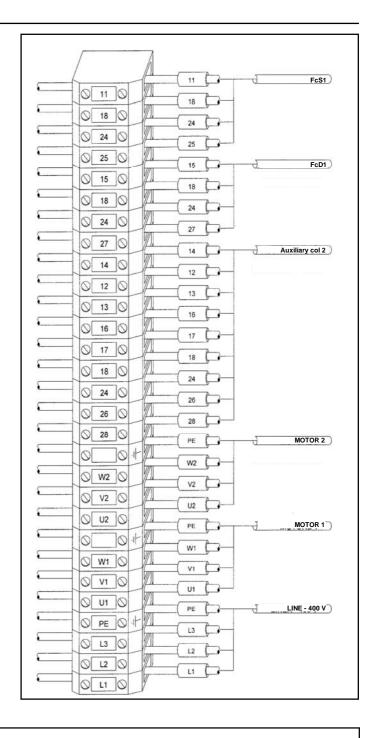




Even simple electrical operations require professionally qualified staff.

13.1. Terminal board

FIG. 40





Even simple electrical operations require professionally qualified staff.

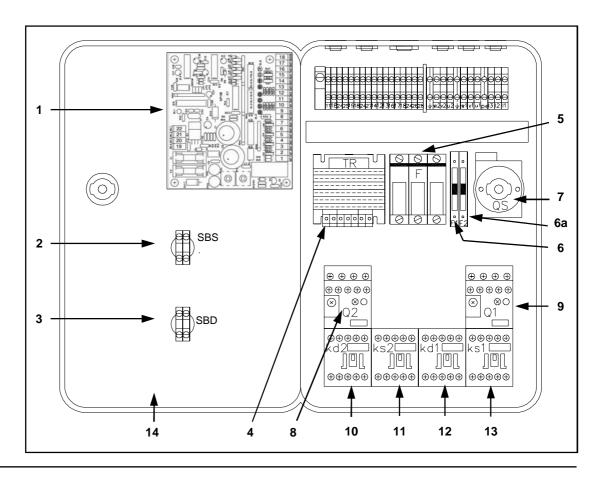
13.2. Electric diagram of components

00	MARCO SOL	E4 E2	Transformer protection fuees 1A
QS	Main switch	F1-F2	Transformer protection fuses 1A
F	25A line fuses	TR	Transformer
KS1	Lifting contactor - column 1	FcS1	Lifting limit switch - column 1
KD1	Lowering contactor - column 1	FcS2	Lifting limit switch - column 2
KS2	Lifting contactor - column 2	FcD1	Lowering limit switch column 1
KD2	Lowering contactor - column 2	FcD2	Lowering limit switch column 2
Q1	Thermal relay column 1	SBS	Lifting push-button
Q2	Thermal relay column 2	SBD	Lowering push-button
M1	Motor - column 1	P1	Proximity switch - column 1
M2	Motor - column 2	P2	Proximity switch - column 2

Note: the column fitted with the electric control unit is n° 1.

14.0. CONTROL BOARD SPARE PART TABLE

FIG. 41



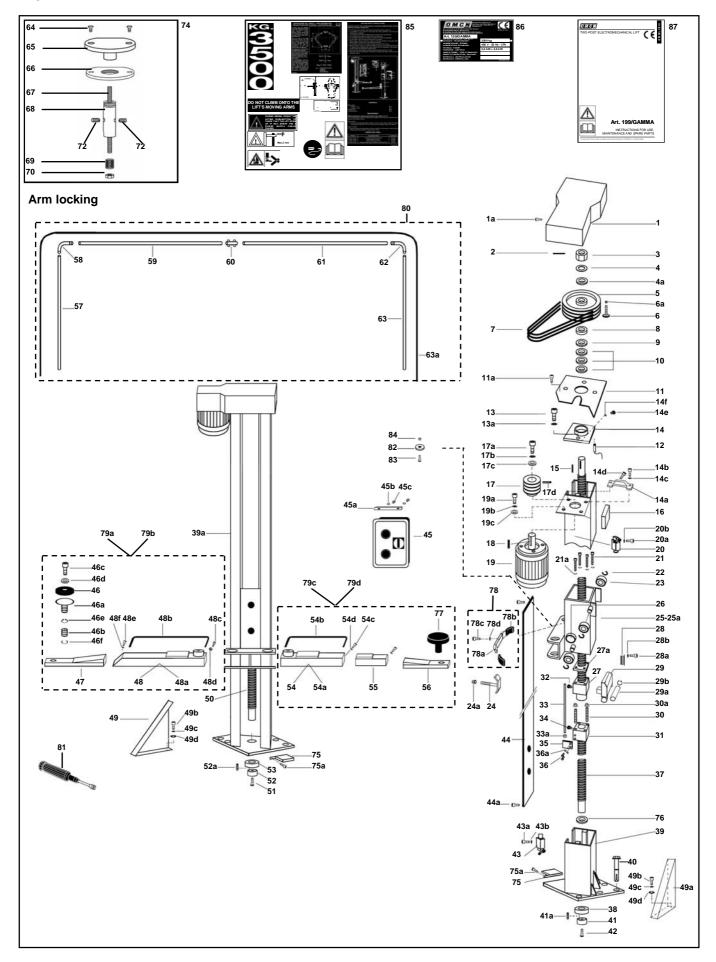
14.1. Control board spare part list

REF.	NAME	ORDER CODE
PANEL	Electric panel complete	OMCAABX000019
1	Electronic board for alignment control	OMCAABN000156
	Lifting button complete - SBS	OMCELRC199G02
2	Lifting button (only button)	OMCAABP000010
	Auxiliary contact NA	OMCAABP000009
	Lowering button complete - SBD -	OMCELRC199G02
3	Lowering button (only button)	OMCAABP000010
	Auxiliary contact NA	OMCAABP000009
4	Transformer	OMCAABN000055
_	Fuse - F - 10x38 25A aM	OMCAABN000054
5	Fuse-holder 3P 10x38	OMCAABN000053
	Fuse - F1 - 5X20 1AT	OMCAABN000072
6	Fuse-holder	OMCAAFW 000009
0-	Fuse - F2 - 5X20 1AT	OMCAABN000072
6a	Fuse-holder	OMCAAFW 000009
7	Main switch - QS	OMCAABP000040
8	Thermal relay motor column 2 - Q2	OMCAABP000007
9	Thermal relay motor column 1 - Q1	OMCAABP000007
10	Lowering contactor column 2 - KD2	OMCAABP000006
11	Lifting contactor column 2 - KS2	OMCAABP000006
12	Lowering contactor column 1 - KD1	OMCAABP000006
13	Lifting contactor column 1 - KS1	OMCAABP000006
14	Perforated box	OMCAABV000002



Even simple electrical operations require professionally qualified staff.

FIG. 42



15.1. Lift spare parts list

REF.	NAME	ORDER CODE
1	Motor housing	OMCAAAK000001
1a	Screw	OMCAABQ000014
2	Fastpin	OMCAABQ000234
3	Nut	OMCAABZ000004
4	Washer	OMCAABQ000025
4a	Washer	OMCAAAE000003
5	Screw pulley	OMCAAAV000026
6	Sensor striker plate	OMCAAAD000166
6a	Nut	OMCAABQ000039
7	Belt	OMCAABB000005
8	Bearing	OMCAAAN000001
9	Spacer	OMCAAAW000018
10	Thrust bearing	OMCAAAP000001
11	Housing base	OMCAABG000026
11a	Screw	OMCAABQ000014
12	Turn counter sensor	OMCAADW000003
13	Screw	OMCAABQ000012
13a	Washer	OMCAABQ000035
14	Plate	OMCAARC199U08
14a	Belt tightener	OMCAAAV000003
14b	Screw	OMCAABQ000009
14c	Washer	OMCAABQ000030
14d	Screw	OMCAABQ000072
14e	Greaser	OMCAABZ000005
14f	Washer	OMCAADA000043
15	Key	OMCAABQ000021
16	Junction box	OMCAACV000004
17	Motor pulley	OMCAAAB000048
17a	Screw	OMCAABQ000028
17b	Washer	OMCAABQ000086
17c	Washer	OMCAABQ000060
17d	Dowel	OMCAABQ000209
18	Key	OMCAABQ000518
19	Motor	OMCAABE000004
19a	Screw	OMCAABQ000009
19b	Washer	OMCAABQ000030
19c	Washer	OMCAABQ000059
20	Lifting limit switch	OMCAARCFC1G00
20a	Screw	OMCAABQ000008
20b	Washer	OMCAABQ000055
21	Screw	OMCAABQ000329
21a	Washer	OMCAABQ000252

REF.	NAME	ORDER CODE
22	Snap ring	OMCAABQ000251
23	Guide block	OMCAAAF000006
24	Limit switch cut-in lever	OMCAAAV000011
24a	Nut	OMCAABQ000053
25	Column arm-bearing carriage with the electric control panel	OMCAARCDE0009
25a	Column arm-bearing carriage without the electric control panel	OMCAARCDE0010
26	Diskette	OMCAAAF000003
27	Load-bearing leadnut	OMCAAAD000001
27a	Vibration-proof spacer	OMCAAAL000048
28	Spring	OMCAABT000001
28a	Screw	OMCAABQ000122
28b	Washer	OMCAABQ000019
29	Wear safety device	TES0002500001
29a	Pin	OMCAAAW000016
29b	Snap ring	OMCAABQ000064
30	Screw	OMCAABQ000067
30a	Nut	OMCAABQ000053
31	Safety leadnut	OMCAAAF000002
32	Greaser	OMCAABZ000005
33	Wear check rod	OMCAABQ000444
33a	Nut	OMCAABQ000232
34	Greaser	OMCAABZ000005
35	Wear check rod lever	OMCAAAZ000103
36	Screw	OMCAABQ000069
36a	Washer	OMCAABQ000070
37	Drive screw	OMCAABW000001
38	Bearing	OMCAAAQ000002
39	Column with electric panel	OMC0002500025
39a	Column without electric panel	OMC0002500125
40	Anchor	OMCAABQ000002
41	Bearing washer	OMCAAAZ000137
41a	Dowel	OMCAABQ000409
42	Screw	OMCAABQ000333
43	Lowering limit switch	OMCAARCFC1G00
43a	Screw	OMCAABQ000008
43b	Washer	OMCAABQ000055
44	Front dust retainer guard	OMCAABG000028
44a	Screw	OMCAABQ000058
45	Control board	OMCAABX000019



REF.	NAME	ORDER CODE
45a	Bracket	OMCAAAE000002
45b	Washer	OMCAABQ000201
45c	Nut	OMCAABQ000087
46	Pad	OMCAAAL000013
46a	Pad bearing plate	OMCAAAE000112
46b	Reduction bushes	OMCAACN000001
46c	Screw	OMCAABQ000036
46d	Washer	OMCAABQ000042
46e	Snap ring	OMCAABQ000043
46f	Ring	OMCAABQ000219
47	Long arm extension	OMCAARCGA0003
48	Column long telescopic arm with electric panel	OMCAARCDE0001
48a	Column long telescopic arm without electric panel	OMCAARCDE0002
48b	Foot moving guard	OMCAARC199U49B
48c	Screw	OMCAABQ000395
48d	Nut	OMCAABQ000132
48e	Screw	OMCAABQ000207
48f	Washer	OMCAABQ000030
49	Column foot-guard without electric panel	OMCAABG000010
49a	Column foot-guard with electric panel	OMCAABG000011
49b	Screw	OMCAABQ000037
49c	Washer	OMCAABQ000019
49d	Washer	OMCAABQ000059
50	Drive screw	OMCAABW000001
51	Screw	OMCAABQ000333
52	Bearing washer	OMCAAAZ000137
52a	Dowel	OMCAABQ000409
53	Bearing	OMCAAAQ000002
54	Column short telescopic arm with electric panel	OMCAARCDE0004
54a	Column short telescopic arm without electric panel	OMCAARCDE0005
54b	Foot moving guard	OMCAARC199U58B
54c	Screw	OMCAABQ000207
54d	Washer	OMCAABQ000030
55	1 st short arm extension	OMCAARCDE0006
56	2 nd short arm extension	OMCAARCGA0004
57	Vertical cable duct	OMCAARC199GK57
58	90° coupling	OMCAABN000023

REF.	NAME	ORDER CODE
59	Horizontal cable duct	OMCAARCGA0011
60	Straight coupling	OMCAABN000024
61	Horizontal cable duct	OMCAARCGA0011
62	90° coupling	OMCAABN000023
63	Vertical cable duct	OMCAARC199GK57
63a	Overhead connection cables kit	OMCAABX000070
64	Screw	OMCAABQ000058
65	Plate	OMCAAAW000013
66	Toothed flange	OMCAAAW000004
67	Internal bar	OMCAAAB000845
68	Pin	OMCAAAB000846
69	Spring	OMCAABT000009
70	Nut	OMCAABQ000057
72	Lock dowel	OMCAABQ000032
74	Complete arm lock	OMCAARCDE0008
75	Arm locking opening base	OMC0000020003
75a	Screw	OMCAABQ000014
76	Splashguard washer	OMCAAAM000007
77	Complete rubber pad	OMCAARC199U51
78	Door cover complete	OMCAARC199U66
78a	Bracket	OMCAAAD000012
78b	Rubber	OMCAAAL000006
78c	Screw	OMCAABQ000014
78d	Washer	OMCAABQ000019
79a	Column complete long telescopic arm with electric panel	OMCAARCGA0005
79b	Column complete long telescopic arm without electric panel	OMCAARCGA0006
79c	Column complete short telescopic arm with electric panel	OMCAARCGA0007
79d	Column complete short telescopic arm without electric panel	OMCAARCGA0008
80	Complete overhead connection kit	OMCAARCGA0010
81	Grease pump	OMCAAAI000001
82	Sliding block	OMCAAAB000762
83	Screw	OMCAABQ000085
84	Nut	OMCAABQ000655
85	Complete set of adhesives	A199GAMMA1ES001
86	Metal plate	T199GAMMA1S003
87	Instruction manual	L199GAMMA1ES003

16.0. SETTING ASIDE AND RESTARTING THE LIFT

If the lift is set aside for long periods, disconnect all power supply sources and protect all those parts that might get damaged by dust deposits (control panel, transmission screw and transmission parts in general).

When the lift is put back into service after a long period of inactivity, it is mandatory to carry out complete and careful cleaning, therefore grease all the parts referred to in the maintenance paragraph with new grease. Finally carry out a careful check of the operation of the lift and the safety devices and check the condition of the motor – screw transmission belts.

17.0. SCRAPPING THE MACHINE

When it is decided to stop using this machine, or at the end of its life cycle, it is recommended to make it inoperable by disconnecting it from any power source and removing the grease and lubricants from the parts involved. Eliminate any deposits in hidden points.

Since the lift must be disposed of as special waste, dismantle it into homogeneous parts and carry out the disposal in compliance with the local regulations in force.

18.0. ACCESSORIES UPON REQUEST

In order to improve machine performance, and at the same time make its use safer and practical, OMCN S.p.A. offers a series of accessories which are adaptable to the machine models found in the booklet.

OMCN's catalogue lists all the accessories that can be used on each machine model.

Specific instructions for using the accessory safely are supplied with the accessory, and not mentioned in the handbook for the sake of brevity.

19.0. HOW TO ORDER SPARE PARTS

The authorised dealer must be given the following data to order a spare part:

- Lift model.
- Lift serial number, Instruction handbook code reported in the centre of each page.
- The code of the spare part required.

20.0. FACTORY TEST

This lift has been assembled and set at work by the manufacturer on its premises. The following components of the safety devices and moving parts have been tested:

- 1) Carriage sliding check inside the column slideways.
- 2) Operating test on lifting limit switch.
- 3) Operating test on leadnut wear device.
- 4) Operating test on automatic alignment device.
- 5) Lowering limit switch functional test.
- 6) Operating check on arm lock (sliding and engagement in place).
- 7) Magnetothermal switch calibration in relation to motor size.

During inspection, the lift was subjected to the following load tests:

- Static load test: A load of over 150% of the nominal load was placed in the most unfavourable position on the lift and left for a sufficient length of time.
- Dynamic load test A load of over 115% of the nominal load was placed on the lift in the most unfavourable position. The test load was lifted several times without stopping.



20.1. Static overload test

Lift platform load distribution is 2:1 and 1:2 and meets the clauses indicated in standard EN 1493 + A1 point 5.6.4.2.

Tests were conducted with support arms extended to create a load rectangle sized 1000 mm x 1800 mm pursuant to the standard.

Lift conformation:

The lift is fitted with the accessories for use and the arms extended.

Load capacity: $C_{MAX} = 3500 \text{ kg}$ Test coefficient CPs = 1,5

Standard test load: $Cs = 1.5 \times C_{MAX} = 1.5 \times 3500 \text{ kg} = 5250 \text{ kg}$

Load distribution:

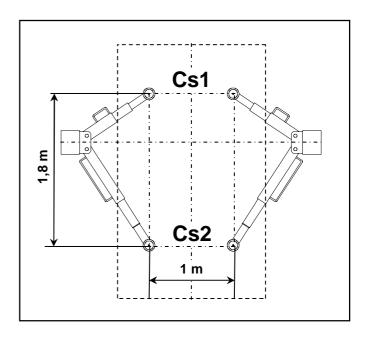
Cs1 = 2/3 x CPs = 3500 kg Cs2 = 1/3 x CPs = 1750 kg Cs = Cs1 + Cs2 = 5250 kg

Tests were conducted by initially placing a load on the lift with rated load capacity (3500 kg) at maximum height and then applying the load difference (first 583 kg on one side and, then, 1167 kg on the opposite side) required to reach the test load so as not to cause dynamic effects or abnormal overloads on one of the two sides of the lift.

Static test 1

The test was conducted by distributing loads as indicated in FIG. 43, with CS1 on the part where the short support arms are located.

FIG. 43



Lift conformation during testing:

fully lifted to upper limit stop of the arm carriages (maximum height). Loads were progressively applied to the structure using a sliding bridge crane to avoid dynamic effects.

Loads were kept on the structure for 60 minutes.

Test results:

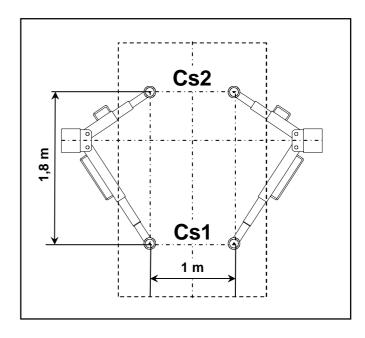
no permanent deformation were found with the test load was released.



Static test 2

The test was conducted by distributing loads as indicated in FIG. 44, with CS1 on the part where the long support arms are located. The most unfavourable condition is created for the lift structure with this distribution.

FIG. 44



Lift conformation during testing:

fully lifted to upper limit stop of the arm carriages (maximum height). Loads were progressively applied to the structure using a sliding bridge crane to avoid dynamic effects.

Loads were kept on the structure for 60 minutes.

Test results:

no permanent deformation were found with the test load was released.



20.2. Dynamic overload test

Lift platform load distribution is 2:1 and 1:2 and meets the clauses indicated in standard EN 1493 + A1 point 5.6.4.2.

Tests were conducted with support arms extended to create a load rectangle sized 1000 mm x 1800 mm pursuant to the standard.

Lift conformation:

The lift is fitted with the accessories for use and the arms extended.

Load capacity: $C_{MAX} = 3500 \text{ kg}$ Test coefficient CPd = 1,15

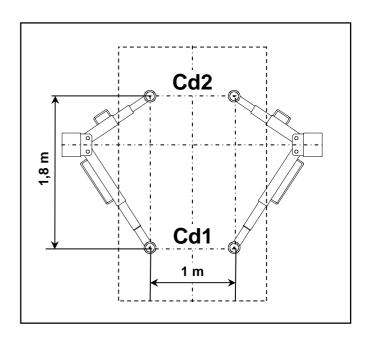
Standard test load: $Cd = CPd \times C_{MAX} = 1,15 \times 3500 \text{ kg} = 4025 \text{ kg}$

Load distribution:

Cd1 = 2/3 x CPd = 2683 kg Cd2 = 1/3 x CPd = 1342 kg Cd = Cd1 + Cd2 = 4025 kg

The test was conducted by placing the test loads on the lowered lift. The dynamic test was limited to the sole conditions indicated in FIG. 45, and thus with Cd1 on the part where the long support arms are located, since it is more unfavourable for the lift.

FIG. 45



Lift conformation during testing:

Loads were progressively applied with a sliding bridge crane with the lift almost completely lowered to the ground.

The test load was fully lifted and lowered 3 times.

Test results:

no permanent deformation were found with the test load was released.

The operations and suitability of the various devices installed on the lift were checked with the dynamic test.



21.0. CONTROL REGISTER

21.1. Instructions for use

The instructions in this Register are provided pursuant of the legal provisions known at machine market introduction (or sale) date.

New safety regulations may be introduced after the machine is put into operations. These could change the user's responsibilities. Thus, despite the content of this Register, the user should also meet the new regulations.

The tables in this Register have been prepared to record the following events that concern machine working life:

- Machine identification data.
- Machine delivery to the first owner.
- Transfers of ownership.
- Registration of routine maintenance operations.
- Periodic checks and relevant registration.
- Machine part replacements (Mechanical, electrical and structural).

21.2. Register storage instructions

This Control Register is an integral part of the machine. It must be preserved and accompany the machine for its entire working life until final demolition. We suggest you periodically photocopy the content of this Register to preserve the registrations of inspections, service and track troubleshooting.

21.3. Regulatory references

This Control Register is issued by OMCN S.p.A., the manufacture of this device, as per Directive 2006/42/EC appendix I point 4.4.2., letter b).

21.4.

Manually fill out the identification plate below listing:

Device identification data

a) the year of manufacture,

b) Serial number.

Original data are listed on the identification plate affixed to the machine:

FIG. 46



21.5. First sum or data	The machine was sold	to		
First owner data	Company:			
	with registered offices i	n:, st	reet name:	
			(or order confirmation), with the technic ctions for use supplied with the machine.	cal, functiona
1.6. Ownership transfer	Machine ownership w	as transferred to		
egistration	Company:			
	with registered offices in	n:, street n	ame:, on date:	
		ginally foreseen as indic his Register.	p, the technical, functional and dimensiated in the Instructions for use and that a The purchaser	
	(legal repres	sentative)	(legal representative	e)
outine maintenance	MAINTENANCE TECHNICIAN'S	, observe the listed sche	dules. NOTES	
ON DATE	SIGNATURE	CHECK DATE	NOTES	

PERFORMED ON DATE	TECHNICIAN'S SIGNATURE	NEXT CHECK DATE	NOTES





Furthermore every time that exceptional events intervene that could have consequences for the security of the machine, of which account obbligations to health and safety matters in the workplace and in the country in which the machine is being used. Periodical controls have the aim of ensuring good working condition and perfect efficiency for security purposes of the present for example repairs, incidents or prolonged periods of inactivity it is still compulsory to carry out an extraordinary control machine, such controls must be carried out and registered by personnel qualified in a specific manner to carry out the said task. is compulsory to carry out all of the following controls described with at least annual frequency (every 12 months), taking into

PERIODIC TESTS REPORT									
The purpose of this report is to record the operations carried out during the periodic check of the lift. Compilation is the responsibility of the authorized personnel making the check.									
Your attention is drawn to the importance of the check to be made on your lift periodically. Periodic checks and inspections must always be conducted	ə:		e:	e:	ə:		e:		ə:
WARNING by specialised Civicia S.p.A. personner or our specifically trained personner.		:	atur					:	atur
TESTING AND CONTROL OPERATIONS	Date Sign	Date	Sign	Date Sign	Date Sign	Det-	Date	Date	Sign
Main switch operational									
Lifting button operational									
Lowering button operational									
Correct arm carriage movement with respect to the control buttons									
Check on the correct working of the support devices									
Correct lifting limit switch operation									
Correct lowering limit switch operation									
Check on the load-bearing leadnut mechanical wear signal device									
Visual check of the wear in the load-bearing leadnuts									
Visual check of the wear in the transmission belt									
Correct arm insertion and lock hold operation									
Correct telescopic arm sliding									
Check on the correct operation of the automatic alignment device									
Correct check rotation sensors operation									
Tightness of the anchor bolts fixing the columns to the floor and uniform loading									
Column levelling and correct installation									
Check on the presence of lubricating grease in the load-bearing leadnuts and carriage sliding guides									
Check on the correct assembly of the foot-guards									
EC data plate check									
Check on the position of the adhesive labels									
DATE OF NEXT CHECK									

Periodical controls have the aim of ensuring good working condition and perfect efficiency for security purposes of the present machine, such

WARNING

It is compulsory to carry out all of the following controls described with at least annual frequency (every 12 months), taking into account obbligations Furthermore every time that exceptional events intervene that could have consequences for the security of the machine, of which for example repairs, controls must be carried out and registered by personnel qualified in a specific manner to carry out the said task. to health and safety matters in the workplace and in the country in which the machine is being used.

incidents or prolonged periods of inactivity it is still compulsory to carry out an extraordinary control.

PERIODIC TESTS REPORT The purpose of this report is to record the operations carried out during the periodic check of the lift. Compilation is the responsibility of the authorized personnel making the check.									
Your attention is drawn to the importance of the check to be made on your lift periodically. Periodic checks and inspections must always be conducted by specialised OMCN S.p.A. personnel or our specifically trained personnel.	ature:	ature:	ature:	ature:	: ature:	afure:	: ature:		ature:
TESTING AND CONTROL OPERATIONS	Date: Sign:	Sign			Date: Sign:	Date: Sign:	Date:	Date	unlic
Main switch operational			<u> </u>						
Lifting button operational									
Lowering button operational									
Correct arm carriage movement with respect to the control buttons									
Check on the correct working of the support devices									
Correct lifting limit switch operation									
Correct lowering limit switch operation									
Check on the load-bearing leadnut mechanical wear signal device									
Visual check of the wear in the load-bearing leadnuts									
Visual check of the wear in the transmission belt									
Correct arm insertion and lock hold operation									
Correct telescopic arm sliding									
Check on the correct operation of the automatic alignment device									
Correct check rotation sensors operation									
Tightness of the anchor bolts fixing the columns to the floor and uniform loading									
Column levelling and correct installation									
Check on the presence of lubricating grease in the load-bearing leadnuts and carriage sliding guides									
Check on the correct assembly of the foot-guards									
EC data plate check									
Check on the position of the adhesive labels									
DATE OF NEXT CHECK									



21.9.
Repairs and part
replacement
registration
(Mechanical,
electrical and
structural)

Descri	iption:		
Cause	(s):		
Replac	cement:		
Notes:	:		
Date:		Technician's signature:	
	The company in charge of replacement	The User	
	(The manager)	(The legal representative)	
Descri	iption:		
Cause	r(s):		
Replac	cement:		
Notes:	:		
Date:		Technician's signature:	
	The company in charge of replacement	The User	
	(The manager)	(The legal representative)	
Descri			
Cause	(s):		
Replac	cement:		
Notes:	:		
Date:		Technician's signature:	
	The company in charge of replacement	The User	
	(The manager)	(The legal representative)	
Descri	iption:		
Cause	(s):		
Replac	cement:		
Notes:	:		
Date:		Technician's signature:	
	The company in charge of replacement	The User	
	 (The manager)	(The legal representative)	





21.10 - INSTALLATION REPORT AND FUNCTIONAL TEST

MOD	EL: Art			
SERI	AL NUMBER:	INS	TALLATION DATE:	
fur 2) Th joi 3) Th 4) Wi	nctional test and acceptancis report was filled out exently signs with the installer e joint signature of point 2 th this report, the installe	s to register operations carried out while sece. clusively by the installer in triplicate, one eafor the purpose of acceptance of the abovervalidates the lift's warranty contract. r declares to have correctly carried out the se, maintenance and spare parts manual en	ich for the manufacturer, the deal- mentioned lift. installation and functional test in	er and user, who
5.0		TESTING AND CONTROL OPERATION	NS	CARRIED OUT
5.1	Main switch operational			
5.2	Lifting button operational			
5.3	Lowering button operation	nal		
5.4	Correct arm carriage mov	ement with respect to the control buttons		
5.5	Check on the correct worl	king of the support devices		
5.6	Correct lifting limit switch	operation		
5.7	Correct lowering limit swit	ch operation		
5.8	Check on the load-bearing	g leadnut mechanical wear signal device		
5.9	Correct arm insertion and lock hold operation			
5.10				
	·			
	Check on the correct operation of the automatic alignment device			
	·			
	Tightness of the anchor bolts fixing the columns to the floor and uniform loading			
	Column levelling and correct installation			
	Check on the presence of lubricating grease in the load-bearing leadnuts and carriage sliding guides Check on the correct assembly of the foot-guards			
		,		
	Check on the correspond	ence of the EC data plates with the declarati	on or conformity	
NOTE				
	•	User's stamp and signature	Installer's stamp a	and signature



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21.10 - INSTALLATION REPORT AND FUNCTIONAL TEST

MODEL: Art			
SERI	AL NUMBER:	INSTALL	ATION DATE:
fur 2) Th joi 3) Th 4) Wi	nctional test and acceptan is report was filled out ex ntly signs with the installer e joint signature of point 2 th this report, the installe	s to register operations carried out while setting toce. clusively by the installer in triplicate, one each for for the purpose of acceptance of the abovementic validates the lift's warranty contract. r declares to have correctly carried out the instal se, maintenance and spare parts manual enclosed	the manufacturer, the dealer and user, who oned lift. Ilation and functional test in their entirety as
5.0		TESTING AND CONTROL OPERATIONS	CARRIED OUT
5.1	Main switch operational		
5.2	Lifting button operational		
5.3	Lowering button operation	nal	
5.4	Correct arm carriage mov	vement with respect to the control buttons	
5.5	Check on the correct wor	king of the support devices	
5.6	Correct lifting limit switch	operation	
5.7	Correct lowering limit switch operation		
5.8	Check on the load-bearing leadnut mechanical wear signal device		
5.9	Correct arm insertion and lock hold operation		
5.10	Correct telescopic arm sliding		
5.11	Check on the correct operation of the automatic alignment device		
5.12	·		
5.13	·		
	Column levelling and corr		
	Check on the presence of lubricating grease in the load-bearing leadnuts and carriage sliding guides		
	Check on the correct ass		
		ence of the EC data plates with the declaration of	conformity
NOTE	:S		
		User's stamp and signature	Installer's stamp and signature



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21.10 - INSTALLATION REPORT AND FUNCTIONAL TEST

MODEL: Art				
SERIAL NUMBER:		INSTALLATION DATE:		
 INSTALLATION DATE:				
5.0		TESTING AND CONTROL OPERA	TIONS	CARRIED OUT
5.1	Main switch operational			
5.2	Lifting button operational			
5.3	Lowering button operatio	nal		
5.4	Correct arm carriage mov	vement with respect to the control buttons		
5.5	Check on the correct wor	king of the support devices		
5.6	Correct lifting limit switch	operation		
5.7	Correct lowering limit switch operation			
5.8	Check on the load-bearing	ng leadnut mechanical wear signal device		
5.9	Correct arm insertion and lock hold operation			
5.10	Correct telescopic arm sl	iding		
5.11	Check on the correct operation of the automatic alignment device			
5.12	·			
5.13	Tightness of the anchor b	polts fixing the columns to the floor and ur	iform loading	
5.14	Column levelling and cor	rect installation		
5.15	Check on the presence o	f lubricating grease in the load-bearing lea	adnuts and carriage sliding guides	
5.16	Check on the correct ass	embly of the foot-guards		
5.17	Check on the correspond	lence of the EC data plates with the decla	ration of conformity	
5.18				
NOTE	:s			
		User's stamp and signature	 Installer's stamp a	and signature





24020 VILLA DI SERIO (BG) ITALY

Via Divisione Tridentina, 23
Tel: 035/423.44.11 a.r.
- Customer Fax (Italy) 035/423.44.41 – 035/423.44.42
- Export Fax +39/035/423.44.49

OMCN/INTERNET:

http://www.omcn.com http://www.omcn.it e-mail: info@omcn.com e-mail: info@omcn.it

Dealer's stamp:	•