

UPDINAMIC srl
Via Modigliani, 22
37045 LEGNAGO (VR)

USER MANUAL

Rev. 03.02 – 18/09/2019

DL4 / CM4 / DL4-MAG GOODS LIFT

ORIGINAL INSTRUCTIONS

SERIAL NUMBER:

THE FOLLOWING MANUAL AND ITS ATTACHMENTS LISTED MUST BE KEPT IN THE
TECHNICAL ROOM BY THE OWNER:

- ☒ MACHINE BOOKLET
- ☒ MACHINE USER MANUAL
- ☒ ELECTRICAL PART MANUAL
- ☒ MAINTENANCE MANUAL



ATTENTION

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ATTENTION

The machine must not be put into service until the user has read and understood the entire contents of this manual.

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1. DEFINITIONS

DEFINITIONS AND MACHINE COMPONENTS

Refer to EN 292, EN 81-1, EN 81-2, EN81-3, prEN 81-41, EN81-28 for definitions of terms used in this manual, as well as the definitions below.

Maintenance:

All operations necessary to ensure the safe and expected functioning of the system and its components after installation is completed and throughout its life cycle.

Maintenance includes:

- lubrication, cleaning, etc. (with the exception of the external parts of the lift shaft and cleaning the inside of the cabin).
- the controls;
- the operator's rescue operations (only in the case with the SPB system);
- calibration and adjustment operations;
- repairs or replacements of components that may be due to wear or tear and which do not alter the characteristics of the system.

The following are not considered maintenance operations:

- the replacement of main components such as the duct, roof, cabin, control panel, etc.,
- the replacement of the system,
- modernization of the system, including modification of any of the system's characteristics (e.g. speed, stroke, flow rate, dimensions, etc.)
- Rescue operations carried out by firefighters.

Maintenance Organization:

A company or part of a company where maintenance personnel carry out maintenance operations on behalf of the owner of the plant.

Competent person in charge of maintenance:

A trained and instructed person (see EN ISO 9000), qualified by knowledge and practical experience, provided with the necessary instructions and supported in the maintenance organization to enable the required maintenance operations to be carried out safely.

Manufacturer:

Natural or legal person who takes responsibility for designing, manufacturing and marketing both the safety components for the lift and the machine itself.

Installer:

A natural or legal person who assumes responsibility for installing goods-only lifts and lifts with and without an operator on board.

Plant:

Fully installed goods lifts and goods lifts with or without operator on board.

Plant Owner:

Natural or legal person who has the power to dispose of the system and who is responsible for its use and operation.

Emergency:

This is an abnormal situation in which the person inside the elevator may require assistance from outside.

Broken down:

This is a situation where the safe use of the platform for its intended purpose is limited or impossible.

Repair:

Replacement or repair of defective and/or worn components.

Notified body:

This is a body recognized by one of the Member States, pursuant to the provisions of the Machinery Directive; they are notified bodies responsible for monitoring the procedures set out in the Machinery Directive for the commissioning and monitoring of the operation of systems.

2. MACHINE DEFINITIONS

Goods lift:

Car lifting system with or without operator on board

Goods lift:

lifting system for goods with or without operator on board

Platform:

Structure composed of a supporting platform in chequered sheet metal and a steel frame.

Cart:

Metal frame to which the platform is fixed, equipped with 4 bearings for sliding inside the guides.

Guides:

Metal structure anchored to the wall, composed of two "C" profiles for the sliding of the trolley.

Technical compartment:

Department outside the lift shaft where the machine's electrical panel and hydraulic power unit are located.

SPB System:

System that allows the safe movement of the lift with the presence of the operator on board, provided with all the measures for emergency situations.

SDE System:

System for lowering the freight elevator to the lower floor even in the event of a power failure.

DL4 / CM4 / DL4-MAG:

Lifting device, also known as a "Dynamic Lift," with four columns anchored to two opposing load-bearing walls. It can be used as a freight lift with or without an operator on board.

Movement can take place inside a shaft with or without an external landing, protected by appropriate perimeter barriers.

The platform is equipped with side railings on the long sides and photoelectric barriers on the access sides.

On the upper floors, the lift shaft is accessible only through electromechanically controlled landing doors. If there is an external landing, a weather-proof cover is recommended.

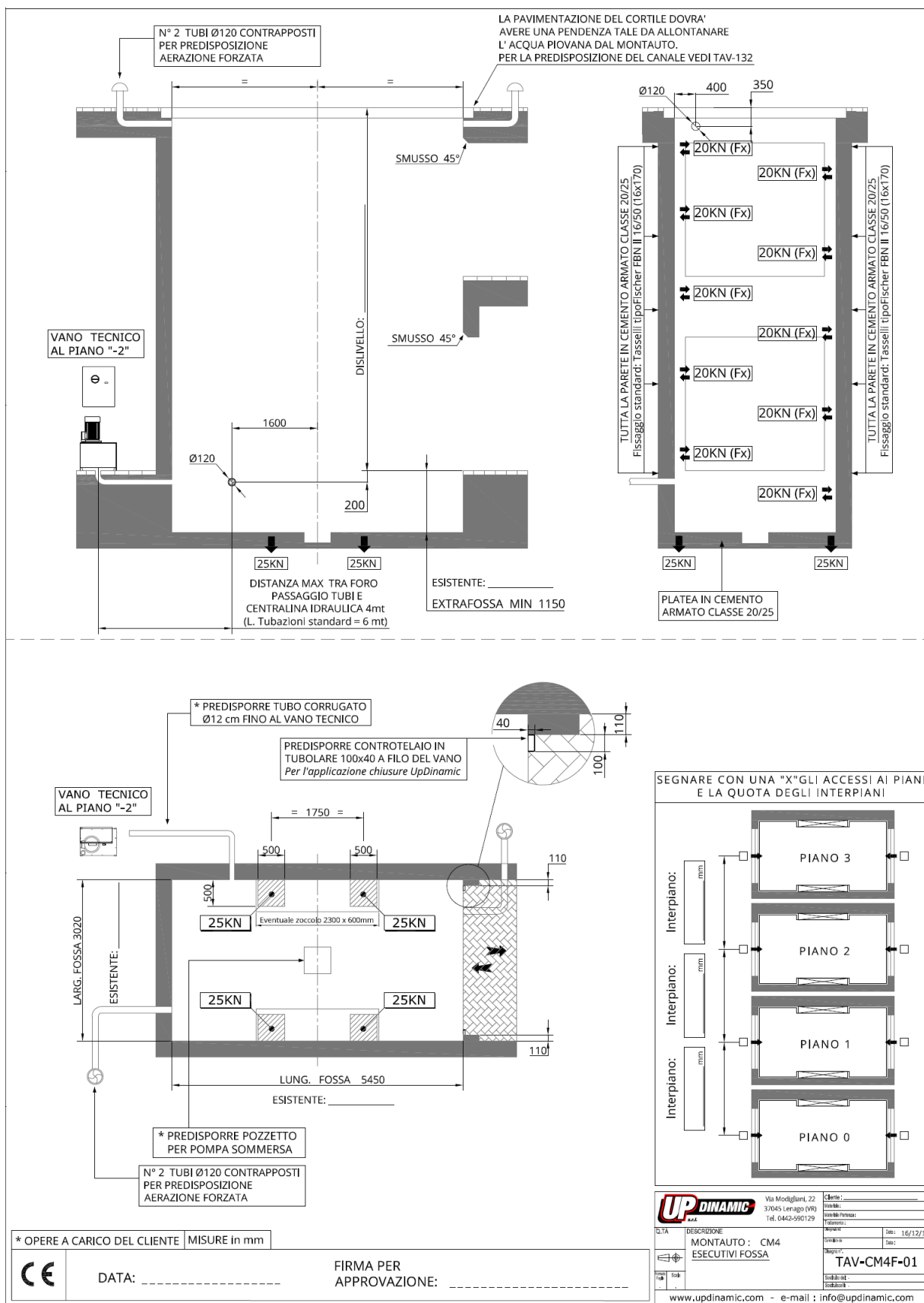
The DL4 version is configured as a simple platform appropriately protected with railings on the guide side.

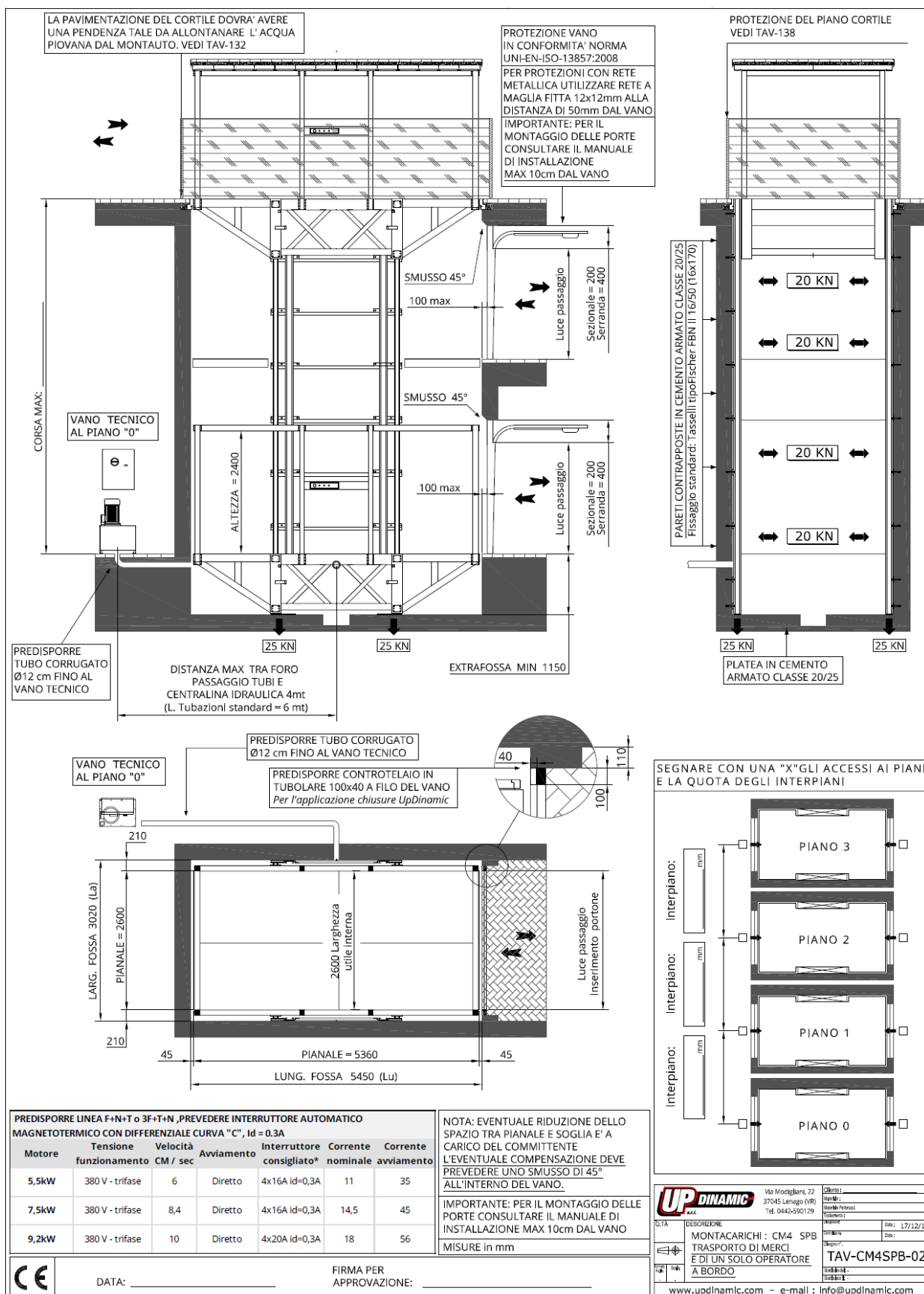
The CM4 version is equipped with a full cabin and closing roof with open-air landing.

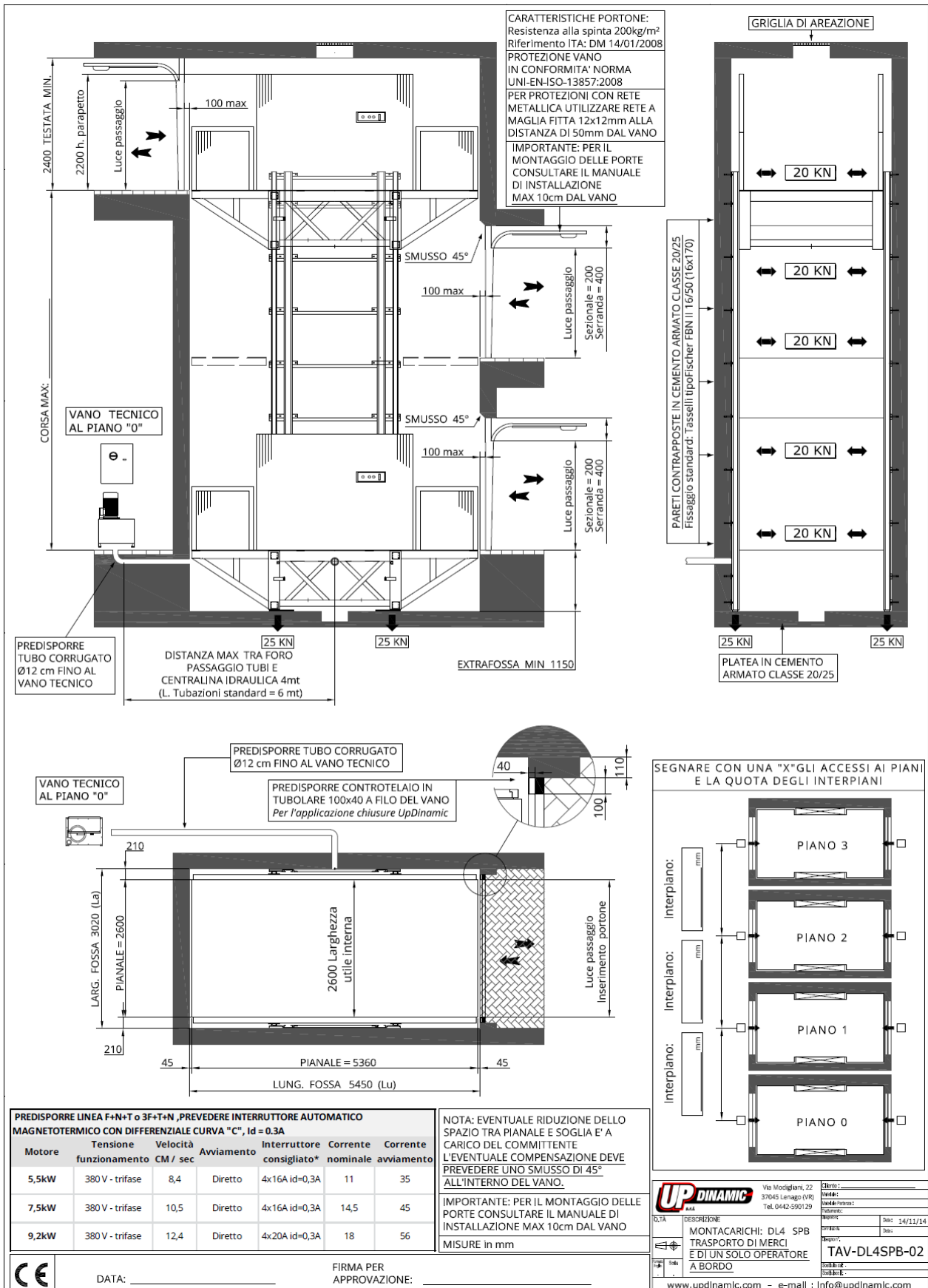
**ATTENTION**

Use the platform only for the intended use agreed upon during the sale phase: Goods Lift or Freight Lift, with or without a person on board.

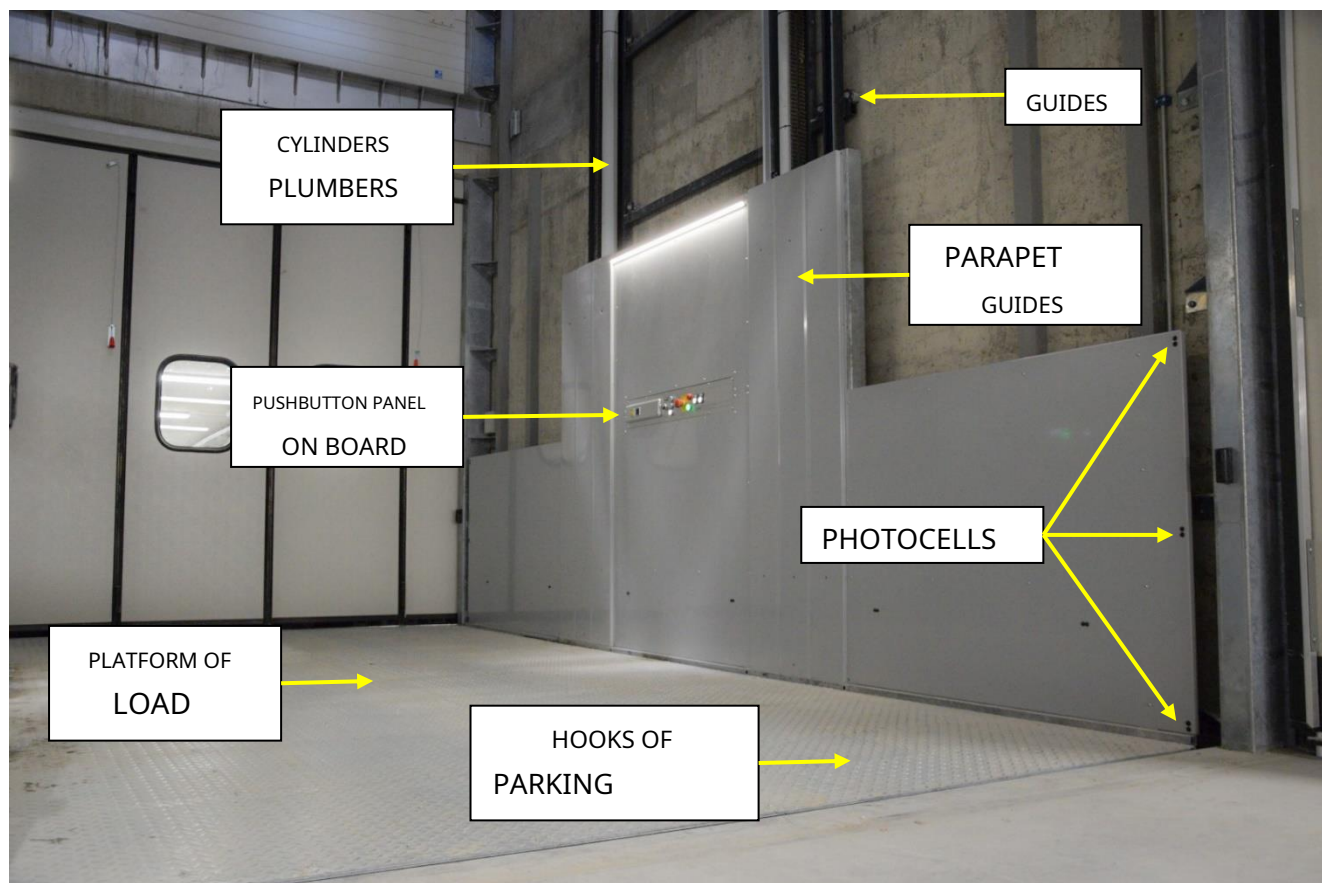
3. MACHINE DIAGRAM







4. MACHINE COMPONENTS



5. MACHINE PARAMETERS

MODEL	MIN platform [mm]	MAX platform [mm]	Flow rate [kg]	Max. Speed [m/s]	Stops	MAX Race [m]
DL4-CM4	2500x1000	5500x2800	3000	0.15	5	16
DL4-MAG	2500x1000	6000x3000	4000	0.15	5	16

6. OWNER'S OBLIGATIONS



ATTENTION

Compliance with the instructions provided in this document will allow the machine to operate safely during handling, installation, operation and maintenance, while ensuring its proper functioning and profitability.

UPDINAMIC Srl declines all responsibility for damage to property and/or persons resulting from negligent use of the machine or failure to comply with the instructions contained in this manual.



ATTENTION

Only authorized personnel may use the machine. The owner must ensure that any person authorized to use the machine has read and fully understood this manual and is therefore familiar with how to use the machine safely. Safe use is guaranteed only by strictly following the instructions in this manual.

Any person authorized to use the machine must be in possession of a copy of the manual.

Commissioning of the plant

The system cannot be used or commissioned until the installation company has issued the test report. Following the issuance of the test report, the system owner is required to comply with all relevant national standards or other regulations, as well as the related provisions regarding system maintenance. In any case, scheduled maintenance is required from the moment the system is commissioned for the first time.

In Italy, to report a newly installed machine, please refer to the extract from the following decree:

SUBJECT: Provisions regarding the installation and maintenance of freight elevator systems

Pursuant to Presidential Decree 30-4-1999 n. 162, as amended by Presidential Decree 23/2017, we hereby inform you that the company selected for installation must meet the required technical and professional qualifications, letter "f" in reference to Presidential Decree 30-4-1999 n. 162. Furthermore, in relation to art. 12, "Commissioning of elevators and freight lifts for private use", the commissioning of freight lifts and freight lifts not intended for a public transport service is subject to notification by the owner or his legal representative to the competent municipality or the competent autonomous province according to its statute.

We also inform you that pursuant to art. 15 "Maintenance" of the aforementioned decree:

For the purposes of maintaining the system and ensuring its normal operation, the owner or his legal representative are required to entrust the maintenance of the entire lift or freight elevator system to a person with a certificate of qualification or to a specialized company or a community operator with equivalent specialization who must provide the service by means of qualified personnel.

The maintenance technician periodically carries out the following according to the system's needs:

- A) to check the proper functioning of the mechanical and hydraulic devices
and electrical, in particular doors and locks;
- B) to check the state of conservation of the ropes and chains;
- C) normal cleaning and lubrication operations of the parts.

The maintenance technician takes care of the freight elevators at least once a year.

The maintenance company and the owner must inform each other of any interventions to be carried out in order to constantly guarantee the correct functioning of the platform in complete safety and in compliance with current regulations.

Furthermore, the owner has the duty to:

- ensure that the building in which the system is installed has an organisation that can guarantee an immediate response to emergency calls, effectively and without delay;
- take appropriate measures to ensure that the system is not used in an improper manner or in a manner other than that set out in the user manual attached to this booklet;
- Avoid opening the floor doors, which should only be done by authorized and qualified personnel.
- ensure that when the system is first put into service, the installer carries out all the checks and tests required by current regulations and records the inspections;
- make sure that the following documentation is provided by the installer when the machine is put into service: Machine booklet, user manual,

maintenance manual and further documentation in reference to specific national provisions;

- shut down the system in case of dangerous situations;
- Provide a suitable ladder in the utility room to reach the lift pit in case of maintenance by a specialized technician.

The owner has the duty to inform the maintenance organization:

- in case of system failure;
- in case of changes in the environment directly connected to the system;
- after having taken the system out of service following a dangerous situation
- before any modification to the system or the surrounding environment directly connected to the system;
- before inspections, checks, work carried out by third parties on the system or on the environment directly connected to it;
- before taking the system out of service for a prolonged period.
- before putting the system back into service after a prolonged period of outage;
- the access routes to be used and the evacuation procedures for the building in the event of a fire;
- the place where the access keys to the restricted areas are located;
- the people who must accompany the maintenance technician to the system;
- PPE to be used on access routes;

7. EMPLOYER'S OBLIGATIONS

Extract from Legislative Decree 81/2008

Art. 71.

Employer's obligations

8. Without prejudice to the provisions of paragraph 4, the employer shall ensure that:

1) work equipment whose safety depends on the installation conditions is subjected to an initial inspection (after installation and before putting it into service) and to an inspection after each assembly on a new construction site or in a new installation location, in order to ensure its correct installation and proper functioning;

11. In addition to the provisions of paragraph 8, the employer shall subject the work equipment listed in Annex VII to periodic inspections, with the frequency indicated in the same Annex. The first of these inspections is carried out by ISPESL, and subsequent inspections by the local health authorities. The inspections are costly, and the costs of carrying them out are borne by the employer.

12. To carry out the checks referred to in paragraph 11, the Local Health Authorities and ISPESL may avail themselves of the support of authorized public or private entities. Authorized private entities acquire the status of public service representatives and report directly to the public body responsible for the function.

13. The procedures for carrying out the periodic checks referred to in Annex VII, as well as the criteria for the authorization of the public or private entities referred to in the previous paragraph, are established by decree of the Minister of Labor and Social Security and the Minister of Health, after consulting the Permanent Conference for Relations between the State, the Regions, and the Autonomous Provinces of Trento and Bolzano, to be adopted within twelve months of the date of entry into force of this decree.

14. By decree of the Minister of Labour and Social Security, after consulting the Ministers of Health and Economic Development, in agreement with the Permanent Conference for Relations between the State, Regions and the Autonomous Provinces of Trento and Bolzano, and after consulting the Advisory Commission referred to in Article 6, amendments shall be made to Annex VII regarding the list of work equipment to be subjected to the checks referred to in paragraph 11.

Annex VII

Equipment checks

Equipment	Intervention/periodicity
Lifting equipment with a capacity exceeding 200 kg of fixed materials, operating in particular sectors of use such as: construction, steel, ports, mining, with a year of manufacture no older than 10 years	Biennial checks
Lifting equipment with a capacity exceeding 200 kg, fixed type materials, operating in other sectors, with a year of manufacture no earlier than 10 years	Three-yearly checks

**ATTENTION**

Modifications not authorized in writing by UPDINAMIC Srl technical personnel could compromise the safety of using the lift and in any case invalidate the warranty.

**DANGER**

Contact UPDINAMIC Srl technical assistance for extraordinary maintenance of the CityCube CMC-CL-CMF-CMF goods lift.

8. WARRANTY

The machine is covered by a warranty against manufacturing defects for a period of 24 (twenty-four) months from the date of issue of the external inspection report. Upon installation/purchase, the purchaser must inspect the machine and immediately report any damage caused by handling and/or transportation. The warranty is void for damage caused by improper use of the machine and failure to follow the instructions in this manual.

Unless otherwise agreed to in the contract, for customers with a VAT number, the warranty period is valid from the date of issue of the test document and covers manufacturing defects for the following 12 months for electrical equipment and mechanical carpentry.

For private customers, the warranty period starts from the date of issue of the testing document and covers manufacturing defects for the following 24 months for electrical equipment and mechanical carpentry.

The warranty period indicated is subject to the stipulation of a contract for inspection and preventive maintenance operations every six months.

Upon installation/purchase, the purchaser must inspect the machine and immediately report any damage caused by handling and/or transportation. The warranty is void for damage caused by improper use of the machine and failure to follow the instructions in the user manual.

The warranty only covers the replacement of parts deemed defective at our sole discretion. The warranty is void in the event of improper use and/or maintenance. The warranty excludes material transportation costs, travel expenses, transfers, and the cost of our technicians' travel time, which are always the responsibility of the Customer.

The warranty period starts from the date of delivery of the materials.

This warranty is not valid if the machine:

- has been damaged due to incorrect use, intentionally damaged, improperly tested.
- has been damaged as a result of failure to follow the instructions or prescriptions given in the manual for this product.
- has not been maintained or repaired in strict accordance with the instructions given in this manual.
- has been damaged due to the use of parts, accessories or elements not explicitly approved by UPDINAMIC Srl for specific use with the machine in question.
- has been altered or modified in any way.
- It was damaged following natural disasters such as earthquakes, floods, etc. etc.
- was installed by unqualified personnel and/or not explicitly authorized by UPDINAMIC Srl

The terms of this guarantee do not affect your statutory rights as a consumer.

Warranty conditions may vary depending on the country in which the lift was purchased.

9. GENERAL WARNINGS

This manual describes the instructions for use and safety, with the aim of providing the user with all the information relating to the use of the system.

This manual is an essential part of the machine and must be carefully stored with it. If it is damaged or lost, a duplicate must be requested from the manufacturer, who will provide a copy. The contents of this manual comply with Directive 2006/42/EC.

It is therefore recommended:

- read all instructions before using the machine for the first time;
- to therefore scrupulously carry out each operation described, adhering to the required safety regulations;
- keep a copy of this manual in the immediate vicinity of the machine installation site, so that it can be consulted by the operator at any time if necessary.

UPDINAMIC Srl declines all responsibility for damages caused to persons or things due to:

- failure to comply with these rules and instructions;
- the change of destination;
- improper use of the machine;
- any modifications made without the consent of the manufacturing company.

When reading this manual, pay attention to the symbols listed below.



DANGER

Standards and/or instructions marked with this symbol concern safety. This sign warns that if the described operations are not performed correctly, the operator is exposed to the risk of possible injury, long-term damage, or death.

**ATTENTION**

Standards and/or instructions marked with this symbol concern safety. This type of warning indicates hazards to which personnel operating the machine are exposed. Failure to follow instructions marked with this symbol could damage the machine, posing a risk to personnel.

**PROHIBITED**

The rules and/or instructions marked with this symbol concern actions that **THEY MUST NOT** must be strictly followed. Failure to comply with these rules could damage the machine and/or cause serious danger to the operating personnel.

IMPORTANT**IMPORTANT**

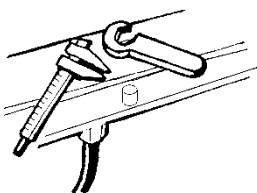
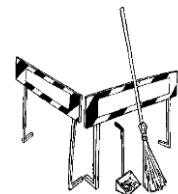
This type of warning indicates that special care must be taken during cleaning and/or maintenance operations. Failure to comply with these instructions could damage the machine and/or cause serious danger to the user or others.

10. BASIC SAFETY RULES

Personnel responsible for inspection, maintenance, and assembly operations must have the necessary qualifications. In Italy, the installation company must meet the required technical and professional qualifications, letter "f" in reference to Presidential Decree 30-4-1999 no. 162. The owner/operator of the machine must ensure that anyone who may have access to the control devices has read this manual and the attached maintenance manual in their entirety and fully understands its contents. It is also important that the operator enforces the regulations and/or requirements applicable to the installation location.

ATTENTION

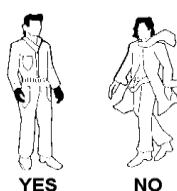
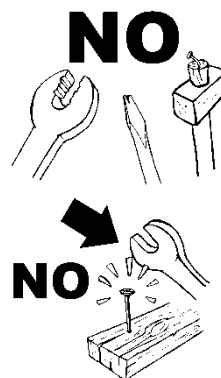
The work environment must be kept clean and tidy. In particular, danger zones must be properly demarcated.

**ATTENTION**

Tools and materials for use must not be left on the machine (or in any case in positions where they could interfere with the mechanical movements of the lift) or where they could fall and cause damage to people and/or things.

ATTENTION

Each tool should be used only for its intended purpose and in the manner most appropriate for that purpose. Any damaged or poorly maintained tool is a potential source of danger.



ATTENTION

Wearing loose-fitting clothing (e.g., scarves, ties, etc.) can be dangerous. Always wear clothing that fits snugly.

ATTENTION

Oil or grease on the floor must be removed immediately to avoid any risk of slipping or falling.



11.INTENDED USE

The DL4 / CM4 / DL4-MAG is a lifting device for vehicles or goods (depending on the intended use at the time of sale), designed exclusively to transport a vehicle and/or non-flammable material on a load carrier that moves along rigid guides and connects defined levels. The machine is designed to operate at an ambient temperature between -25°C and +40°C. The maximum capacity of the Dynamic Lift is 3000 kg, or 4000 kg in the DL4-MAG version.



DANGER

Do not overload the lift under any circumstances. The rated lift load is the maximum total weight that can be loaded on the lift and does not refer to...



DANGER



PROHIBITION

Do not place concentrated loads exceeding 1500 kg on the platform.



DANGER

Use only original accessories and spare parts explicitly approved by UPDINAMIC Srl for use with the Dinamic Lift.

The use of the Dinamic Lift is reserved for persons aged at least 18 years, requires having read and understood this manual and requires compliance with the following rules:

must be used only for the purpose for which it was built;

the electrical connection must be made to a protected power supply network in accordance with current safety regulations;



DANGER



PROHIBITION

The use of the Dinamic Lift by minors under 18 years of age is not permitted.

The use of the Dinamic Lift while under the influence of alcohol or drugs is not permitted.



DANGER



PROHIBITION

The machine must be used exclusively for the purpose for which it was sold (stated in the contract).

12. UNAUTHORIZED USE

It is explicitly emphasized that the Dinamic Lift is not an elevator.

For the model with SPB system only, the possibility of transporting the operator close to the control station is provided.

In particular, it is explicitly forbidden to use the Dinamic Lift to lift people (with the exception and limited to the cases foreseen by the operator on board), to use it as scaffolding, to wash vehicles or to exert compressive forces on external objects.

Any accessories or additional components installed or used with the lift must be included in the weight lifted. UPDINAMIC Srl assumes no responsibility for any damage to property, persons, or the lift that may result from improper use and/or use contrary to the instructions in this manual.

**DANGER**

PROHIBITION

Do not use the Dinamic Lift to move flammable objects.

**DANGER**

PROHIBITION

Do not use the Dinamic Lift with LPG-powered vehicles unless they are equipped with a gas detector and related alarm system.

**DANGER**

PROHIBITION

Do not use the Dinamic Lift as a storage facility for goods or materials of any kind.

**DANGER**

PROHIBITION

Do not use the Dynamic Lift before switching off the vehicle engine and applying the parking brake.

**DANGER****PROHIBITION**

Do not operate the control devices without having full visual control of the Dinamic Lift.

**DANGER****PROHIBITION**

Before moving the system, ensure that perimeter barriers protecting the compartment are present and that all required safety systems are functioning.

**DANGER****PROHIBITION**

With the exception of the SPB model, it is strictly prohibited to transport people on the machine. For the SPB model only, it is strictly prohibited to transport people other than the operator on the machine.

13. RISKS ARISING FROM NON-COMPLIANCE WITH SAFETY REGULATIONS AND REGULATIONS

Failure to comply with safety rules and regulations could damage the appliance, cause harm to operators and/or the environment, and void the machine warranty. Damage resulting from failure to comply with safety regulations may result in:

- Machine malfunction;
- Risks and/or dangers from electrical and mechanical voltage;

**DANGER PROHIBITION**

Never use the machine before checking that all emergency devices (limit switches, horn, etc.) are properly mounted, connected, and functioning.

RESIDUAL RISKS

All the phases involved in the manufacturing process of the Dinamic Lift - Design, construction, choice of materials and final control - have been carried out by UPDINAMIC Srl paying the utmost care and attention in order to guarantee the highest mechanical and engineering quality and the

Product compliance with the most stringent safety standards. It is, however, important to note that, despite:

- the attention paid during the design phase;
- the care and control given to the manufacturing process;

Some risks, due to the specific type of work to be performed, cannot be completely eliminated with the aid of protective systems. These risks are listed below. It is therefore essential that the operator be informed of them and use the machine with the utmost caution. The user must familiarize himself with the controls and operations described in this manual to use the machine safely. This manual must always be kept with the machine so that it can be consulted immediately in the future.

PINCHING, SHEARING

This hazard is present during normal operation, emergency situations and maintenance phases.

The moving parts are equipped with appropriate guards that reduce the risk of crushing.



DANGER PROHIBITION

Even if the possibility of transporting the operator on board is foreseen, it is forbidden to move from the control area during the transfer to the floors.

Do not touch, clean or lubricate moving parts.



CRUSHING

This hazard is present during normal operation, emergency situations and maintenance phases.

To perform maintenance/repairs, it may be necessary to access the pit where the machine is located. Inside the pit, there is an emergency switch that deactivates the machine's power supply, and safety struts for use when parking underneath the platform.

Before carrying out any maintenance operation, it is necessary to disconnect the power supply to the machine and, using a padlock (not supplied with the machine), lock the main switch, preventing it from being reactivated.

**DANGER**

Before carrying out any maintenance and/or cleaning operation, completely lower the platform, unload the lift, raise the safety struts, make sure that there is no pressure in the hydraulic lines and disconnect the power supply from the machine.

LOSS OF STABILITY

This hazard exists during normal operation, emergencies, and maintenance. The user must ensure that the equipment is correctly positioned on the platform, according to the requirements indicated in this manual. The lifting chains are sized so that even if one of the four pairs were damaged, the remaining three would still be able to support the load. Should this occur, sensors would detect the anomaly, allowing only safe lowering and disabling the ascent until the damaged components are repaired.

**DANGER PROHIBITION**

Do not overload the lift. The nominal lift load, understood as the maximum total weight that can be loaded on the loading platform, is 3000 kg, or 4000 kg for the DL4-MAG model. The maximum permitted unbalance between front and rear is 60% and 40%.

Do not place concentrated loads exceeding 1500 kg on the platform.

Any other use of the lift is not permitted, was not considered in the design phase and could compromise the safety of the machine.

**DANGER**

Before using the lift, carry out a visual inspection of it, verifying in particular that the safety devices are not damaged. Do not operate for

There is no reason to lift the lift if you notice even the slightest damage.

DANGERS DUE TO THE PRESENCE OF ELECTRICITY

This hazard exists during normal operation, emergency situations, and maintenance if the electrical system connections and/or the electrical system itself do not comply with locally applicable safety regulations.

The electrical connection must be carried out by a licensed electrician in accordance with local regulations.

Before making any connections, disconnect the power supply. The wiring diagram and the panel labels provide the necessary connection information and the required power supply values.



DANGER

Before connecting the lift to the power line and/or before carrying out any maintenance operation, check that the main switch is in the OFF (0) position.



DANGER

Do not connect the machine to the power line until you have verified that the line fully complies with all applicable local safety regulations. Also, verify that the power line can supply the required power and that it is equipped with a grounding circuit and a protective circuit.

The machine requires protection from the effects of lightning during use and must therefore be equipped to discharge any electrical discharges to the ground.



DANGER

The earth electrode may not be sufficient to discharge adequately in the event of a collision with high voltage cables or lightning.

GENERAL DANGERS

The following hazards are present during normal operation, emergency situations and maintenance phases.

**DANGER**

To avoid possible shearing/crushing risks, any operation may only take place when there is maximum visibility of the box, taking maximum care to ensure that people, animals or things are not standing or passing within or near the perimeter of the machine.

**DANGER**

To avoid possible explosion risks, it is recommended not to use the machine with LPG-powered vehicles, with the exception of models equipped with a gas detector and related alarm system.

**DANGER**

To avoid potential fire hazards, it is prohibited to use the machine to handle flammable substances or liquids of any kind. Immediately remove any fluids from the loading platform.

However, it is recommended to provide a fire extinguisher housing near the machine: The full efficiency of the extinguisher is guaranteed only if it is serviced in the manner and within the timeframes required by current legislation.

**DANGER**

The machine's intended and predictable operation is intermittent and not continuous. However, under certain operating conditions, the accessible surface of the motor could reach potentially dangerous temperatures. Before carrying out any maintenance operation, wear appropriate personal protective equipment (protective gloves).

The main source of noise emission of the machine is the electric motor, which has a noise level declared by the manufacturer $L_{aeq}=84$ dBA. The risks due to the emission of airborne noise are therefore reduced to a minimum level.

**ATTENTION**

Under expected operating conditions, the risks due to airborne noise emissions are not significant. However, in particular operating conditions, the noise emitted by the engine could reach potentially dangerous exposure levels. Before carrying out any maintenance operation, equip yourself with adequate personal protective equipment (ear muffs).

The vibrations emitted by the machine under the intended working conditions are not significant. Specifically, the total vibration value to which the hand-arm system is exposed does not exceed 2.5 m/s^2 .

14.MAKING MODIFICATIONS AND ASSEMBLING NON-ORIGINAL PARTS

It is forbidden to make modifications, apply spare parts and accessories not authorised by the machine manufacturer.

**DANGER**

Only original UPDINAMIC Srl spare parts have been tested and approved for specific use with the Dinamic Lift. The use of non-original spare parts, or parts not approved by UPDINAMIC Srl for specific use with the Dinamic Lift, not only voids the warranty but could also compromise the machine's safety features.

11. SIGNAGE



DANGER

The machine user must be able to recognize all the pictograms on the machine and fully understand their meaning.

Safety pictograms must not be defaced, damaged, or removed from the machine. The machine owner and/or the person in charge of operating it must immediately replace any pictogram that is damaged or even partially illegible.

The following pictograms are present inside the cabin and on the control panel:



Danger: Follow the correct installation/maintenance procedures indicated in the manuals. Installation/maintenance permitted only to trained and authorized personnel.



Warning: moving parts



DANGER

Do not overload the machine



Prohibition on cleaning/lubricating moving parts



DANGER

Do not remove safety devices



Parking of gas-powered vehicles is prohibited (unless a suitable gas detector and alarm system have been installed).



Make sure that the power supply line complies with the applicable safety requirements.



Emergency button identification signal



Prohibition on transporting people, excluding the operator (only for SPB models)



No crossing the fence, freight elevators in motion.



Please note: replace the UPS batteries every 2 years to keep the emergency system operational.



There is voltage inside the panel, to remove the voltage first disconnect the UPS



The selector enables the emergency maneuver, and allows the operator to descend even in the event of a power failure.

The emergency maneuver is to be understood as an exceptional operation to be used only in the event of a lack of motive power.

Use the emergency maneuver only if

strictly necessary. Never operate the machine using an operating procedure that could disable the emergency devices (limit switches, horn, etc.).



Warning: Tripping hazard



Parking of gas-powered vehicles is prohibited (unless a suitable gas detector and alarm system have been installed).



Caution: hot surface

15. MACHINE IDENTIFICATION DATA

The following information is indelibly shown on the metal plate attached to the machine:

- Manufacturer's name
- Machine designation
- Machine serial number
- CE logo
- Machine model
- Production status
- Year of production

 
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PIATTAFORMA DI SOLLEVAMENTO MODELLO
PORTATA MAX kg
N° DI SERIE
ANNO DI COSTRUZIONE

For any requests for intervention or spare parts, we recommend always citing the data shown on the identification plate.

16. USE OF THE SYSTEM

Below is a list of useful information for the correct use of the system and for understanding the devices and instructions made available to users.

Standard controls and signals are distinguished from optional controls and signals, indicated by the symbol (□), which will be considered present only with a crossed out symbol.



ATTENTION

Always check that there is enough space around the material being handled to ensure correct use of the lift.



DANGER

Do not use the lift in conditions of poor or no lighting

17. EXTERNAL CONTROLS, SIGNALS AND DEVICES

STANDARD PUSHBUTTON PANEL

FLOOR CALL BUTTON:



This is a white illuminated button or a blue illuminated selector for calling the lift to the floor where the operator is present. External control is by "impulse".

The button will be disabled if:

- the freight elevator is on the same floor as the control room
- the freight elevator is already moving.
- The freight elevator has started an internal operation
- For 5 seconds after the end of the maneuver from inside
- For 5 seconds after closing a floor door
- A security guard intervened

Wait for the freight elevator to arrive before starting loading and unloading the goods.

FLOOR SEND BUTTON:

This is a white illuminated button or a blue illuminated selector for sending the lift to the floor where the operator is present. External control is by "impulse".

The button will be disabled if:

- the freight elevator is on the same floor as the control room
- the freight elevator is already moving.
- The freight elevator has started an internal operation
- For 5 seconds after the end of the maneuver from inside
- For 5 seconds after closing a floor door
- A safety device has been activated or a door is open.

Please wait for the freight elevator to arrive before starting loading and unloading.

STOP BUTTON (red):

This is an emergency stop command, to be used only in case of necessity, if the operation being performed by the lift is deemed unsafe.

Before resetting the button, secure the system. **LED ON BUTTON**

the LED on the call or send button provides the following indications: a) Off: the lift is off or is on another floor in rest conditions.

b) On: the lift is stopped at the floor indicated by the button.

c) Slow flashing: the lift is carrying out the ascent or descent manoeuvre.

d) Fast flashing: indicates that the stop button has been pressed or is

If a door is forced open during movement, the lift stops and waits for safety conditions to be restored before accepting further commands.

PUSHBUTTON PANEL WITH AUTOMATIC DOORS

FLOOR CALL BUTTON



This is a white illuminated button for calling the elevator to the floor where the operator is present. External control is a "pulse" type.

The button will be disabled if:

- the freight elevator is on the same floor as the control room
- the freight elevator is already moving.
- The freight elevator has started an internal operation
- For 5 seconds after the end of the maneuver from inside
- For 5 seconds after closing a floor door
- A security guard intervened

Wait for the freight elevator to arrive before starting loading and unloading the goods.

FLOOR SEND BUTTON:

This is a white illuminated button for sending the lift to the floor where the operator is present. External control is a "pulse" type.

The button will be disabled if:

- the freight elevator is on the same floor as the control room
- the freight elevator is already moving.
- The freight elevator has started an internal operation
- For 5 seconds after the end of the maneuver from inside
- For 5 seconds after closing a floor door
- A safety device has been activated or a door is open.

Please wait for the freight elevator to arrive before starting loading and unloading.

STOP BUTTON (red):

This is an emergency stop command, to be used only in case of necessity, if the operation being performed by the lift is deemed unsafe.

Before resetting the button, secure the system.

OPEN/CLOSE DOOR BUTTON (yellow):

This is an impulse command to manage the opening/closing of the floor door with a loading platform present on the floor.

LED ON BUTTON

the LED on the call or send button provides the following indications: a) Off: the lift is off or is on another floor in rest conditions.

b) On: the lift is stopped at the floor indicated by the button.

c) Slow flashing: the lift is carrying out the ascent or descent manoeuvre.

d) Fast flashing: indicates that the stop button has been pressed or is

If a door is forced open during movement, the lift stops and waits for safety conditions to be restored before accepting further commands.

☐ RFID BADGE (Optional)



It is a device to protect against intrusion and to allow access to the controls only to authorized persons. It consists of an RFID receiver placed near the controls. A special coded card "swiped" on the receiver activates the controls for 30 seconds. Within this time, the operator must give a command to the goods lift.

In this case the buttons will be "vandal-proof illuminated buttons".

- DOOR OPENING CONTROL

Attention: the locking systems are components EXTERNAL to the assembled system, their use is not included in this manual.

Consult the manufacturer's use and maintenance manual.

REPORTS

FLASHER (Optional)



The yellow or red flashing light is placed in an area clearly visible from the control area, and provides the following indications:

- Off: The lift is off or in another location.
plan in rest condition.
- On: The freight elevator is stopped on the upper floor.
- Slow flashing: the lift is carrying out the ascent or descent maneuver.
- Fast flashing: indicates that the button has been pressed

If the stop button is pressed or a door has been forced open during movement, the lift is stopped and waits for safety conditions to be restored before accepting further commands.

DEVICES

☐ PHOTOCELLS:

The control photocells located on the perimeter of the garage are active during the movement of the lift and interrupt its movement if they are triggered.



DANGER

Photocells are safety devices. Do not operate the machine until you have verified that they are installed and functioning correctly.

18. CONTROLS, SIGNALS and DEVICES ON BOARD THE MACHINE

GOODS LIFT CONTROLS

☐ SPB PUSHBUTTON PANEL



ATTENTION

Disable the SPB keypad if safe use of the machine with a person on board is not guaranteed (e.g. in the event of a UPS system failure).

- Key selector

This switch enables/disables the internal button panel; by setting the selector to OFF and removing the key, the SPB button panel can be disabled. In this case, the machine can only be controlled via the external button panels.

- Control joystick

Through this device it is possible to control the operation of the machine from inside, both uphill and downhill.

The device is of the "hold-to-hold" type and the lift stops when released. To continue movement, press the joystick again in the desired direction.

If provided for by the optional extras, operating the joystick in the longitudinal direction activates the opening of the external accesses to the floors when the machine is in position and safe.

- STOP BUTTON (red color)

This is an emergency stop command, to be used only in case of necessity, if the maneuver the operator is performing is deemed unsafe.

Before resetting the button, secure the system.

- Key selector for emergency operation

This selector enables the emergency maneuver, and allows the operator to descend even in the event of a power failure.



DANGER

Before and during each work cycle, check that the safety devices are working correctly.

Stop using the machine and call UPDINAMIC Srl technical assistance immediately if the safety devices do not appear to be working as required.

- Emergency descent button

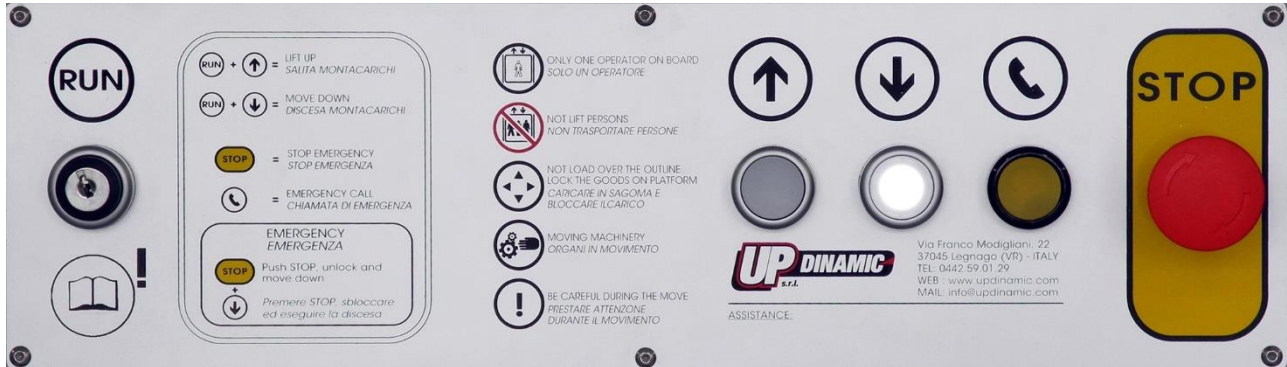
This button is activated - lighting up - only when the emergency button is pressed.

When the emergency lowering button is activated, it is only possible to descend to the lower floor in an emergency and in safety, by holding it down until the machine comes to a complete stop on the lower floor.

If external access control is also provided, this system is also operational in an emergency via a special power supply unit (UPS).

GOODS LIFT CONTROLS

FLOOR SEND BUTTON + RUN CONTROL:



This is a white illuminated button for calling the lift to the destination floor and a key selector with return.

The internal command is a “hold-to-run” command with a double held command: the system will accept the command only if the floor button and the “RUN” key selector are activated simultaneously, within a fraction of 1 second.

The command must be held until the loading platform reaches the desired level.

ATTENTION: during the uphill movement the system always goes beyond the arrival floor and then automatically performs a low-speed downhill positioning manoeuvre.

Release the command only when the floor button light becomes solid.

The button will be disabled if:

The lift is on the same floor as the control. A safety device has tripped or a door is open.

Please wait for the freight elevator to arrive before loading and unloading the goods.

INTERNAL CONTROLS HAVE PRIORITY OVER EXTERNAL CONTROLS

STOP BUTTON (red):

This is an emergency stop command, to be used only in case of necessity, if the operation being performed by the lift is deemed unsafe.

Before resetting the button, secure the system.

GSM EMERGENCY BUTTON (GREEN OR YELLOW):

This is a pulse command that sends a distress message via a GSM control unit to the telephone numbers pre-selected during installation.

GSM TELEASSISTANCE



The emergency call system is an independent system that includes an on-board button panel that, when the emergency button is pressed, immediately launches the call to the emergency call center of the company that carries out maintenance on the machine (*) via the GSM dialer or landline.

CABIN COURTESY LIGHT

This is a 18W – 24V DC white fluorescent neon lamp, managed by the lift program.



To keep the on-board light always on, press the emergency stop button.

GSM EMERGENCY BUTTON (GREEN OR YELLOW):

This is a pulse command that sends a distress message via a GSM control unit to the telephone numbers pre-selected during installation.

GSM TELEASSISTANCE

The emergency call system is an independent system featuring an on-board button panel. When pressed, the GSM dialer sends a call to the emergency call center of the company responsible for maintaining the machine (*). The device is equipped with an intercom that allows communication with the operator in the engine room from the cabin.

REPORTS

☐ COURTESY LIGHT

This is an 18W white fluorescent neon lamp, managed by the freight elevator program.

Or a 24V DC LED strip.



DANGER

Do not use the lift in conditions of poor or no lighting

☐ GREEN/RED POSITIONING LIGHT

When this option is provided on the machine, we will have a photoelectric barrier dedicated to controlling one or two accesses of the machine.

This device works in two different ways:

Car stopped at the floor:

In this case, the barrier(s) only function as a signal to ensure that the car is correctly centered inside the machine; this condition is signaled by the green LED light coming on, while if the red light is on, it means that the car is not positioned correctly.

Machine in motion:

If during the movement of the machine a barrier (or one of the two barriers) is hit, the machine stops immediately as this condition suggests that the car inside the machine was not correctly positioned or moved during the movement and obviously this causes a dangerous condition or possible damage to the transported car.

DEVICES

☐ OPTICAL BARRIERS:

Placed flush with the garage landing, they protect against the risk of shearing during the ascent and control the protrusion of the car outside the contour.

19. OPERATION

The system is autonomous, and only requires electricity to power the hydraulic power unit and the control panel, which is located at a safe distance from the machine.

The following conditions must be met to start the machine:

- Closing of the gates determined by the electric locks, present on the access floors.
- Emergency button unlocked
- Obstacle-free photocells on board the platform
- Platform in correct position to reach the floor (0,1,2,3)
- Intervention on the controls of one of the push-button panels to operate the machine.



The goods must be loaded within the overall dimensions of the platform, which the operator must have clearly visible during handling where possible or remain nearby to interrupt movement in the event of anomalies.



Any operation must take place in conditions of maximum visibility of the platform where possible, taking maximum care to ensure that people, animals or objects are not stationed or passing near the perimeter of the platform.



The goods must be loaded so that the operator on board has at least 40cm of space between the control panel and the goods.



Permitted load position during handling.



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MOVEMENT

The lifting and lowering movements of the mobile mechanics are carried out by means of a hydraulic lifting cylinder and chain transmission.

If the machine is not activated, act on the main switch on the electrical panel.

INSTRUCTIONS FOR USE FROM THE OUTSIDE

When the platform is positioned on another floor, the button for the desired call floor will be off. Press the call button for the desired floor with an impulse action; the light on the button will begin to flash (slowly flashing), and the LED will remain solid when the loading platform reaches the call floor.

Open the external protections on the access floor, place the load on the loading platform, ensuring that it does not protrude beyond the usable space of the loading platform.

Exit the loading platform and close the guards, allowing the inserted electric locks to give the consent for the machine to be operated.

Wait 5 seconds (busy time) and press the button of the desired destination floor with a pulse, the LED will start flashing throughout the descent/ascent until the light signal on the destination floor button turns on.

Remove the load and close the guards, wait 5 seconds and the lift is ready to receive a new command.

INSTRUCTIONS FOR USE FROM THE INSIDE

Open the external guards on the access floor and place the load on the loading platform, ensuring that it does not protrude beyond the usable space of the loading platform. Close the guards again, allowing the inserted electric locks to activate the machine.



From this moment on, a 5-second "busy time" is activated, during which the external controls are deactivated and the operator inside the compartment can reach the internal control panel without the risk of unexpected movements.

Simultaneously press the desired destination floor send button and the RUN command, holding the command down, until the floor is reached. During the maneuver, the external controls are deactivated until the operator on board repositions the loading platform to a different floor.

The operator on board can stop the maneuver and reverse the direction at any time. Once at the floor, open the external protections and unload the goods from the loading platform and close the protections again.



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CYCLE INTERRUPTIONS

- When the interruption of the ascent or descent cycle is caused only by the release of the deadman command and if no anomaly has been detected by the inclinometer sensor, no incorrect px reading or limit switch, then the maneuver can be resumed normally or reversed to change the direction of translation simply by acting on the same deadman command.
- When the interruption of the ascent or descent is caused by: an incorrect px reading, limit switch, by the intervention of the inclinometer sensor or the emergency button, once the normal operating conditions have been restored it is possible to resume the ascent or descent maneuver normally, only after having reset the system with the emergency button or the electrical panel (removing and restoring the voltage).



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LACK OF ELECTRICITY:

In the case of the SPB version (with person on board), the system is equipped with a UPS to allow certain maneuvers even in the event of a power failure:

LOADING PLATFORM ON THE FLOOR:

The UPS keeps the locks active, so it will be possible to open the floor locks.

LOADING PLATFORM DURING DESCENT:

The UPS will keep the cycle active and bring the system to the floor without the need for further commands. Once it reaches the floor, it will power the lock to allow the floor door to be opened.

LOADING PLATFORM DURING ASCENT:

The system will stop; you will need to release the up controls (if operating from the lift) and reverse the cycle, lowering the lift to return the platform to the lower floor. Once it reaches the lower floor, it will power the lock to open the landing door.

NB: in the event of a power failure ALL functions will be active,
EXCLUDING THE CLIMBING MANOEUVRE.

PROLONGED MACHINE DOWNTOWN

If you need to stop the machine for a prolonged period of time, the following precautions must be taken:

- Disconnect the system from energy sources (electrical system) and use the appropriate signals on the electrical panel;
- Protect electric motors by avoiding wrapping the components in plastic materials to prevent condensation from forming.

To avoid damage caused by machine out of service and to avoid corrosion and humidity damage to electric motors and devices during long periods of out of service, proceed as follows:

- Equipment must be placed in dry, well-ventilated spaces;
- The condition of the stored equipment must always be checked.

STARTING UP ENGINES AFTER A PERIOD OUT OF SERVICE

For motors stored in a humid environment for extended periods, the insulation value may decrease. This is primarily due to the lack of operating temperature, which keeps the motor components dry. For safety reasons, before restarting the machine, the insulation must be restored to the correct values through a drying process. For recommissioning, contact support.

PERIODIC CHECKS BY THE OWNER

In his own interest, the owner must necessarily periodically carry out the following checks and tests of the system in addition to those entrusted to the maintenance organization:

- Complete machine travel (ascent and descent) evaluating variations in the quality of the travel, damage to the equipment, checking in particular:
 - floor doors
 - precision stopped at the floors
 - floor buttons
 - emergency button
 - alarm device (where present)
 - safety signs

IMPROPER, NON-PERMITTED USES AND CONTRAINDICATIONS FOR USE OF THE MACHINE

The machine must be used exclusively for the purposes described in this manual. Any use other than that stated, not understood, or not deducible from this manual is to be considered prohibited.

It is strictly forbidden to use the machine for any purpose not expressly provided for in this manual.

No operation requiring manual action on the machine is contemplated.

NOISE

The mechanical and electromechanical elements present on board the cabin and inside the lift shaft are developed with specific anti-noise provisions, therefore the noise level in the cabin is at a level $LpA < 70$ dB (A).

The only source of noise is the hydraulic unit located in the technical room. In this area, the noise level one meter away from its source is $LpA = 72.3$ dB.

TROUBLESHOOTING

Any mechanical or electrical component can be subject to failure, the risk of which is reduced if the required maintenance is performed. This is a list of possible failures and the resulting remedies:

Pos.	Broken down	Possible cause	Remedy	Problem solved	Further verify
1	The machine is in bulk	General average	Contact the assistance		
2	The machine is in bulk	Drive improper button emergency mushroom	Perform the maneuver of reset general		
3	The machine is in bulk	Electrical blackout	Perform the maneuver of reset general		
4	Shock and damage or of the freight elevator		Contact the assistance		
5	The Freight Elevator it doesn't arrive at end of the race	Circuit leak hydraulic	Contact the assistance		

20. PERIODIC CHECKS BY THE OWNER

To reduce the effects of wear and tear, an inevitable consequence of use, proper and regular maintenance is essential. This type of maintenance not only extends the life of the lift, but is also essential for its safe use.



DANGER

Clean the machine regularly, removing any debris that could, over time, cause malfunctions and hazards. Wipe up any spilled liquids on the cargo area as soon as possible.



DANGER

After any maintenance and/or cleaning operation, before using the machine again, make sure that all safety devices are fitted, that they have not been damaged and that they are working correctly.

The owner must periodically carry out the checks required by current legislation by relying on an authorized maintenance company.



DANGER

Modifications not authorized in writing by UPDINAMIC Srl technical personnel could compromise the safety of using the lift and in any case invalidate the warranty.



DANGER

Contact UPDINAMIC Srl technical assistance for extraordinary maintenance of the Dinamic Lift DL4 CM4 goods lift.

At the same time, the general state of wear of the machine must be periodically checked by carrying out a complete run (up and down) and paying attention to any

Changes in ride quality or damage to equipment. In particular, the following must be checked:

- the correct functioning of the landing doors,
- the precision of the stop at the floors,
- the correct functioning of the floor buttons,
- the correct functioning of the cabin buttons,
- the correct functioning of the emergency button,
- the correct functioning of the alarm device (if present),
- the correct functioning of the GSM tele-assistance device (if present),
- The presence of safety signals

The hydraulic oil level in the power unit reservoir

Use only oils equivalent to those listed below and recommended by UPDINAMIC Srl for specific use with Dinamic Lift.

**DANGER**

It is absolutely recommended to completely replace all hydraulic oil and clean the tank every 500 days of use of the lift and in any case every 5 years. Used oil must be disposed of in accordance with current regulations.

**DANGER**

The lift's lowering speed is factory-set and may be significantly reduced if the machine operates at particularly low ambient temperatures—below 10°C. This is not a defect; the effects of low temperatures can be minimized by using a low-viscosity oil. Contact UPDINAMIC Srl technical support for information on the most suitable type of oil to use.

If none of the above oils are available, use an oil with a viscosity of 46 cSt at 40°C according to ISO 3448-ISO VG 46.

Producer	Oil
Wladoil	Engine HY SY
Aral	Vitamin GF 46
BP	HLP 46
It	Nuto 46
It	Hydraulioil 46
Fine	Hydran 46
Klockner	Rando oil HDA 46
Raab karcher	Aval Vitamin GF 46

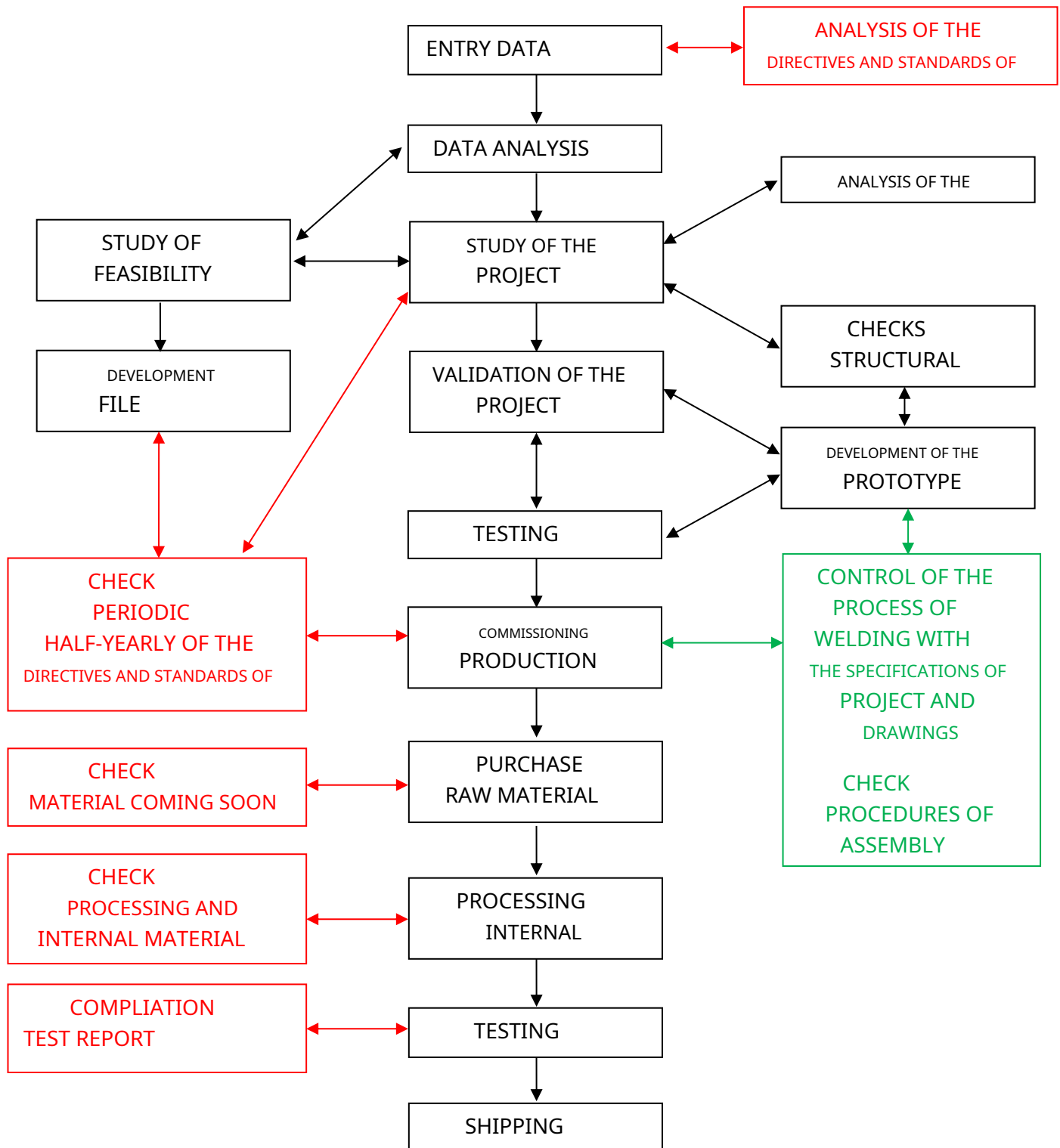
21. TROUBLESHOOTING

Any mechanical or electrical component can be subject to failure, the risk of which is however reduced if the planned maintenance is carried out.

This is the list of possible faults and the consequent remedies:

Pos.	Broken down	Possible cause	Remedy	Problem isolated	Further verify
1	The machine is stuck	General average	Contact the assistance		
2	The machine is stuck	Drive improper button mushroom of emergency	Unlock mechanically the mushroom, resume the maneuver		
3	The machine is stuck	Electrical blackout	Restore electricity and use regularly		
4	Shock and damage to the box		Contact the assistance		
5	The freight elevator does not reaches the end of the race	Circuit leak hydraulic	Contact the assistance		

DESIGN/PRODUCTION AND STANDARDS CONTROL PROCEDURE





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22. ASSISTANCE

For any inquiries, please contact the system maintenance company or our Sales and Assistance Service.

TECHNICAL ASSISTANCE CENTER

UPDINAMIC Srl

Via Modigliani, 22

37045 Legnago (VR)

Tel. 0442 / 590129 Fax

0442 / 599091

info@updynamic.com

23. REPAIRS AND SPARE PARTS

Important

IMPORTANT: For repairs, contact qualified and authorized personnel.



DANGER

Use only original accessories and spare parts explicitly approved by UPDINAMIC Srl for use with the Dinamic Lift.

If you need to request technical information or spare parts from our Sales and Assistance Service, always specify the data shown on the identification plate.



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24. DECLARATION OF CONFORMITY



UPDINAMIC Srl, a company operating in the construction of automated parking systems and freight elevators, with registered office at Via Modigliani, 22 – 37045 – Legnago (VR), registered in the company register of the Verona Chamber of Commerce and Industry and VAT number 03584130235. ISC. REP. ECON. AMMMIN. 348256
DECLARES UNDER ITS OWN RESPONSIBILITY THAT THE NEW MACHINE:

- named	Dinamic Lift lifting platform			
- model	<u>-DL4</u>	<u>-CM4</u>	<u>-DL4-MAG</u>	= <u>-SPB</u>
- freshman				
- built in the year				

Function: Lifting device for goods and people with fixed capacity,
connecting various planes with vertical translation on rigid guides.

It complies with the prototype for which it was issued by ECO Certifications (Certification Body)
Notified No. 0714) the EC certificate of conformity No. _____ pursuant to the Annex
IX (plus internal control on the manufacture of the machine referred to in Annex IV, point
17) of the Machinery Directive 2006/42/EC and which complies with the requirements set out in:

- Machinery Directive 2006/42/EC;
- Electromagnetic Compatibility Directive 2014/30/EU;

The following harmonized standards were used in the design:

UNI EN ISO 12100:2010

UNI EN ISO 13857:2020

UNI EN 13854:2020

IEC EN 60204-1:2018

It is further declared that:

Pursuant to Annex II of the Machinery Directive 2006/42/EC, "The technical file of the machinery referred to in Annex VII is available at the manufacturer's premises" and the person responsible for updating it is Mr. Oscar Donà.

Please note that the machine must not be put into service until compliance with all applicable regulations in force in the country of installation has been ascertained.

Legnago, there ____/____/____,

UPDINAMIC Srl
Via Modigliani 22
Legnago (VR)
The Sole Director
(Albino Donà)



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