

DELIVERY OF DOCUMENTATION

Data relative to the machine, to be included in the use and maintenance manual:

- Name of the machine:
- Model: DL2 Smart DL2 Smart SPB
 DEC 1 DEC 2 MAG 1 MAG 2
- Registration number:
- Built during the year:

ATTACHMENTS:

Declaration of conformity	<input type="checkbox"/>
Owner's obligations, Employer's obligations, Form to be filed at the council authority (facsimile)	<input checked="" type="checkbox"/>
Machine manual	<input checked="" type="checkbox"/>
User manual	<input checked="" type="checkbox"/>
Maintenance manual	<input checked="" type="checkbox"/>
Putting the electrical system into service	<input checked="" type="checkbox"/>
Installation manual	<input checked="" type="checkbox"/>
Plastic identifying plates	<input checked="" type="checkbox"/>

Updynamic S.r.l.

Please return the present sheet countersigned for confirmation of receipt of the documents to fax number 0442-599091 or to email address: info@updynamic.com

SIGNATURE ON RECEIPT (the Customer)

The company UPDINAMIC S.r.l., which operates in lifting equipment sector, with its registered offices in: Via Modigliani, 22 - 37045 - Legnago (VR), enrolled in the records of the Chamber of Commerce of Verona and tax number 03584130235. Enrolled at the EAREgister 348256.

THE LATTER DECLARES UNDER HIS OWN RESPONSIBILITY THAT THE NEW MACHINE:

- Model
- Identification
- Registration number
- Built during the year:

Function: Lift apparatus for things and persons with fixed capacity connecting various floors with vertical translation on rigid guides.

It complies with the prototype for which the ECO Certificazioni (Notified Body No. 0714) issued the CE Certificate of conformity n°. _____ in accordance with Annex IX (plus internal control on manufacture of the lift according to Annex IV, point 17) of Machinery Directive 2006/42/CE and which respects the requirements of:

- Machinery Directive 2006/42/EC;
- Directive 2014/35/UE;
- Directive 2014/30/UE;

during design partial reference was made to the following harmonized standards, in particular:

- UNI EN ISO 12100 parts I - II; Standard UNI 14010; UNI EN ISO 13857:2008 EN 349; EN 60204-1;

It is furthermore declared that:

In accordance with Annex II of Machinery Directive 2006/42/EC "The technical file of the lift according to Annex VII is available at the offices of the manufacturer" and the person responsible for its updating is Mr. Oscar Donà.

It is specified that the lift may not be put into service until compliance with all the applicable regulations in force in the country of installation has been ascertained.

Legnago, ____/____/____,

UPDINAMIC S.r.l.
Via Modigliani, 22
Legnago (VR)
Sole Director
(Albino Donà)



UPDINAMIC S.r.l.

Via Modigliani, 22
37045 LEGNAGO (VR)

MACHINE MANUAL

Rev. 00.00 - 27/07/2020

DL2 SMART MODEL

(machine for transporting goods only or
goods with an operator)

INSTALLED IN THE PROPRIETOR'S BUILDING:

IN _____ N° _____
COUNCIL
AUTHORITY _____
MODEL _____
SERIES _____
COMPANY LEGAL REPRESENTATIVE: _____

ANY SUBSEQUENT CHANGES OF SYSTEM OWNER:

THE OWNER MUST KEEP THIS MANUAL AND THE ATTACHMENTS LISTED BELOW IN
THE OWNER'S UTILITY SHAFT:

- INSTALLATION MANUAL
- MACHINE USER MANUAL
- ELECTRICAL PART MANUAL
- MAINTENANCE MANUAL

Space reserved to the office

FAC SIMILE COMMUNICATION PUTTING IN SERVICE CAR LIFTS AND GOODS LIFTS IN COMPLIANCE WITH ARTICLE 12 D.P.R. 162/99

TO THE COUNCIL AUTHORITIES
OF _____
—

The undersigned:

born in on _____

resident in _____ in _____ n° _____

Tax code telephone
.....

In the capacity of: owner Company legal representative
_____.

building administrator

COMMUNICATES

That in the building located in _____ a private service system has been installed and put into service CAR LIFT GOODS LIFT
Having the following characteristics of

SPEED. < 0.15 m/s

CAPACITY _____ kg

TRAVEL _____ m

NUMBER OF STOPS _____

ACTIVATION TYPE HYDRAULIC ELECTRICAL

The above-mentioned system was installed by the company UPDINAMIC s.r.l. with Head Office in Via Franco Modigliani, 22 – 37045 San Pietro di Legnago, and with system no.

The constructor (for goods lifts only) is UPDINAMIC s.r.l. with Head Office in Via Franco Modigliani, 22 – 37045 San Pietro di Legnago.

Maintenance of the system is entrusted to the Company _____ with head office in _____ regularly authorised in accordance with D.M. 37/08 (ex L. 5/3/1990 n° 46).

The subject entrusted to carry out periodic visits, in accordance with art. 13, clause 1. D.P.R. 162/99, is _____ with Head Office in _____ who has accepted the responsibility.

Attached:

1. Copy of the declaration of conformity of art. 6, clause 5, of Law DPR 162/99;
2. Copy of the deed of acceptance of the company charged with periodic inspections.

We await your reply in relation to the serial number assigned by this office to the system within 30 days from receiving this communication, in pursuance of art. 12, clause 3, DPR 162/99.

(place),

Signature

WARNINGS FOR THE CUSTOMER:

1. The present communication must be sent to the Council Authority that is competent for the territory within 10 days from the date of the CE declaration of conformity of the plant.
2. Copy of the present communication of the owner to the competent Council Authority as well as a copy of the following communication from the competent Council Authority office or its legal representative - relating to the serial number assigned to the system - they must be attached to the system book (register or technical file) kept in the room or space housing the machinery, ready for use for periodic tests and for the affixing of the serial number on the regulation plate posted in the system cabin (art. 16, clauses 1 and 3, DPR 162/99).

INFORMATION IN PURSUANCE OF ARTICLE 13 OF LAW 30.06.2003, no.196

We inform you that:

- the data declared by you is reserved by dint of the existing regulations, and will be used by the Council offices for the purpose of the procedure for which reason they are requested and subsequently for the purposes relating to the management of any further consequent and connected procedures;
- the treatment of the data is carried out with both paper instruments and on digital supports available in the offices;
- the data will be kept at the headquarters of the Council Offices and will be communicated to the personnel of the Council Authority and other public employees involved in the procedure;
- providing the data is compulsory for the purposes of the requirements requested for the exercising of the activities at issue in accordance with the existing regulations;
- the eventual, total or partial, refusal to supply the reserved data may lead to the impossibility of carrying out the requested acts;
- the responsible person for treatment of data is.....;
- You are entitled to the rights set down in articles 7 and 8 of Law D.Lgs.vo 30.06.2003, no. 196, among which the right to access to data relating to you, as well as some complementary rights, among which the right to demand rectification, updating, completing or cancelling of erroneous incomplete data or data gathered in terms not allowed by the law, as well as the right to oppose treatment of this data for legitimate reasons.

CONSENT TO TREATMENT OF PERSONAL DATA

Having received the above information - in particular relating to the rights granted me by articles 7 and 8 of Law no. 196/03 - I consent to its use, including communication of my personal data, by the owner of its use for the purposes of and within the limits indicated by the regulation.

(legible signature of interested party)

The machine has been designed in compliance with the following Directives:

- Machinery Directive 2006/42/EC;
- Low Voltage Directive 2014/35/UE;
- Electromagnetic Compatibility Directive 2014/30/UE;

The machine is therefore supplied complete with the documentation as required by these Directives.

The constructor has designed the machine with the intention of guaranteeing safe conditions of use: removing the electrical safety devices and the guards provided by the manufacturer will severely compromise the safety conditions of the machine. In addition, the installation, power supply and maintenance instructions must be strictly followed for proper use of the machine.

The machine must be used in accordance with its intended use as specified by the manufacturer in the user manual included with this book; it is therefore recommended to carefully read through this manual before shipping, installation and putting into use of the equipment.

Maintenance entails a few simple operations that can be carried out by the qualified machine operator having the legal requirements and trained for use of the machine. In order to get the longest life and the best operating economy out of the machine, it is recommended to strictly follow the rules contained in this document and the relative manuals attached.

The manufacturer cannot be held responsible for failures, accidents or other problems due to inobservance of (or failing to apply) the instructions contained in the user manual and the maintenance manual. This also applies to making modifications and changes or installing unauthorised accessories.

This book, the user manual and the maintenance manual constitute an integral part of the machine. It is essential to keep it intact and in the utility shaft of the system, so that it is easily retrievable during the whole working life of the machine, even in the case of transfer of the machine to another user. They must also be easy and immediate to consult by the operators and maintenance personnel; for this reason they must be kept in the vicinity of the equipment.

CAREFULLY READ AND KEEP THIS USE AND MAINTENANCE MANUAL.

TO REQUEST COPIES OR UPDATES OF THE BOOK OR MANUAL, CONTACT:
UPDINAMIC S.r.l. Via Modigliani 22, 37045 Legnago VR (ITALIA)
Tel. 0442-590129 – Fax 0442-599091 – E mail info@updinaric.com

DESCRIPTION OF THE MACHINE

Lift systems designed for vertical transport of goods and persons with stops on several underground or above ground floors, with the bearing structure made of C-shaped metal members supplied with combined slide bearings. The platform is driven by two hydraulic cylinder connected to a double-chain transmission.

The system enables stopping for up to 4 floors, intervening in the case of high floor with a locking system to guarantee personal safety in loading and unloading goods.

Model	Capacity
	Kg
DL2 SMART	3000
DL2S-DEC1	2500
DL2S-DEC2	2000
DL2S-MAG1	3500
DL2S-MAG2	4000





GENERAL

Model:

DL2 Smart DL2S-DEC1 DL2S-DEC2 DL2S-MAG1 DL2S-MAG2

Set-up:

STD - only goods SPB - with person on board

Serial number:

Year of installation:

2019 2020 2021 2022 2023

Maximum capacity (kg):

4000 3500 3000 2500 2000

Travel [mm] (max 16m):

Speed [m/s]:

< 0.15

Floors served:

2 3 4 5

Accesses:

1 access 2 accesses 3 accesses

Platform dimensions [mm]:

Standard: Depth. 3000mm; Width. 6000mm

Personalizzata: Depth. _____mm Width. _____mm

EXTERNAL PROTECTIONS AND COMPONENTS

Protection guards on the upper floor:

- Gate or door with external electric lock
- Door with integrated Kronenberg electric lock
- Door with integrated Prudhomme electric lock
- Door with integrated Tieffe electric lock
- Door with certified integrated electric lock _____
-

Other _____

Floors guards:

- Gate or door with external electric lock
- Door with integrated Kronenberg electric lock
- Door with integrated Prudhomme electric lock
- Door with integrated Tieffe electric lock
- Door with certified integrated electric lock _____
-

Other _____

Command:

No. pushbutton panels: _____

- Deadman pushbutton panel
- Pulse pushbutton panel

UTILITY SHAFT

Location on the floor:

- 0 +1 _____

max distance from the lift shaft 4m.

Environment:

- Closed Protected _____

Utility shaft dimensions:

Width _____ Depth: _____ Height: _____

Access mode:

- Direct Indirect for rooms of common use/ownership

Lighting:

Lighting in proximity of the control unit: _____ LUX [≥ 200 LUX]

Lighting in proximity of the electric panel _____ LUX [≥ 200 LUX]

Type of ventilation opening:

- Cabinet grille towards a ventilated environment and connected to the outside
- Opening the cabinet and connecting tube with the outside
- System subject to regulations as regard fire prevention

PREPARE A LINE PH+N+T (GND) or 3PH+N+E ,PROVIDE AUTOMATIC MAGNETOTHERMIC BREAKER CURVE "C" WITH DIFFERENTIAL , Id = 0.3A						
Motor	Tension- functioning	Speed CM / sec	Starter	Suggested switch*	Rated current	Current starter
5,5kW	240 V - 3Ph	8,5	Direct	3x20A id=0,3A	17	51
	400 V - 3Ph		Direct	4x16A id=0,3A	10	30
9,2kW	240 V - 3Ph	15	Direct	3x32A id=0,3A	28	84
	400 V - 3Ph		Direct	4x20A id=0,3A	17	51
11kW	240 V - 3Ph	15	Direct	3x40A id=0,3A	34	102
	400 V - 3Ph		Direct	4x25A id=0,3A	20	60

MOTOR AND ELECTRIC CIRCUIT

Series set-up components:

On board machine:

- Double proximity sensor on the carriage for the floor landing
- Proximity sensor on the carriage for deceleration
- Mechanical limit switch for control of chain elongation
- Inductive proximity switches for safety hooks control
- Complete pushbutton panel for SPB system (only SPB)
- Load control photocells (only SPB)
- Programmed electronic card
- PLC Logic

External components:

- Call button on each floor
- Emergency stop button
- LED on button

Utility shaft/lift shaft:

- Deceleration solenoid
- Descent solenoid
- Ascent solenoid
- Hydraulic control unit and electric panel

Optional components (see set-up):

External components:

- External electric locks with pin interlock
- Standard Doors
- Door with integrated Kronenberg electric lock
- Automatic doors

Emergency descent system components

On board machine:

- Emergency descent solenoid



HYDRAULIC SYSTEM

Gear pump:
capacity _____ cc/g

Hydraulic fluid type oil W.Engine HySy 32/B:

Density at 15° Kg/l: 0.858
cSt viscosity at 40°C: 32
Englar viscosity at 50°C: 3.2
Viscosity index: 100
Pour point °C: -33
Flammability VA °C: 192
Aniline point: 96
DIN 51 524 HLP classification: 32

Max. pressure: 160 bar

Suspension organs (rod diameter as a function of the travel):

- | |
|--|
| <input type="checkbox"/> DL2 Smart
2 hydraulic cylinder (d. min. rod 60mm) with check valve Rexroth type
VEI-8A-2A-06-NC-S-M
2 Flayer type AL666 19.05mm Renold, tensile strength 120 kN |
|--|

SHAFT TRAVEL

Reinforced concrete construction
Lift shaft dimensions [mm]:

- | |
|---|
| <input type="checkbox"/> Standard: Depth. 3320mm; Width. 6100mm |
| <input type="checkbox"/> Customised: Depth. _____ Width |

Max height difference between floors [mm]:

- | |
|--|
| <input type="checkbox"/> Standard: 3000 |
| <input type="checkbox"/> Customised: _____ |

SAFETY DEVICES INSTALLED

MODELS DL2S STD, DL2S SPB, DL2S-DEC1, DL2S-DEC2, DL2S-MAG1 e DL2S-MAG2

Double lifting chain

Check valves

Rexroth VEI-8A-2A-06-NC-S-M (or equivalent, see Technical File)

Max. pressure: 350 bar

Maximum load capacity: 40 l/min

Pilot: electrical 24VDC

Check: proximity switches

N°4 Safety electro-mechanical hook

Electric-mechanic device integrated in the machine system, checked by an inductive proximity switch

Mechanical limit switch for control breaking chains:

Spring device controlled by a mechanical limit switch, it controls the loosening of each individual chain

GENERAL SAFETY PROTECTIONS FOR ALL MODELS

Electric locks:

Pizzato FS2896D024-F (or equivalent, see Technical File)

Protection grade IP66

Operating temperature: -25°C / 60°C

Voltage: 24VDC

Absorbance: 1A

Mechanical duration: 800,000 cycles

Retaining force: 1100 N

Extraction force: 30

On board Photocells:

LN1056.C + PS2003.1.A.5.B

Protection grade: IP30

Voltage: 12-24V DC

Absorbance: 130 mA

Max beam length: 0,1 - 6 mt

External photocells:

*Trifo11 - Fadini**

Protection grade: IP55

Voltage: 12-24V DC

Absorbance: 55-35 mA

Max beam length: 6m

**Replaceble with: Orbita 57,Fit 55, Polo 44, Difo 33*



CHECK LIST GOODS LIFT INSTALLATION

Address of the place where the system is installed:	Installation company:
System model:	Operator:
Serial number:	Signature:

CROSS THE BOX ONLY IF THE CHECK HAD A POSITIVE OUTCOME

STRUCTURE

- USE BOLTS/SCREW ANCHORS SUPPLIED BY UPDINAMIC
- THE ANCHORING STRENGTH OF THE BOLTS / SCREW ANCHORS ON THE LOAD-BEARING WALL/STRUCTURE HAS BEEN CHECKED
- TIGHTNESS OF THE BOLTS/SCREW ANCHORS HAS BEEN CHECKED WITH A TORQUE WRENCH ACCORDING TO THE TECHNICAL DATA SHEET OF THE MANUFACTURER
- THE CHAINS HAVE CORRECTLY BEEN INSTALLED WITH THE PINS AND SPLIT PINS PROVIDED BY UPDINAMIC
(in the case of 2 chains, both chains must be tensioned to balance the load)
- THE ANTI-TURNOVER BOLTS HAVE BEEN FITTED AT THE END OF THE GUIDES
(to prevent the carriage from slipping off the guides, not used for the RT model)
- THE MAXIMUM TRAVEL OF THE SYSTEM HAS BEEN CHECKED (overlimit)
- THE MECHANICAL SUPPORTS ON EACH FLOOR ARE STABLE AND SECURE
- THE MECHANICS OF THE HOOKS IS SMOOTH AND WELL GREASED
- THERE ARE NO DANGEROUS RECESSES IN THE SHAFT
(offsets, beams, rods or any other object installed subsequently, e.g. door handles)
- THE PHOTOCELLS HAVE BEEN FITTED ON THE OPEN SIDES (Mandatory only for system with operator on board)
- ON EACH FLOOR, IF THE SPACE BETWEEN THE WALLS AND THE PLATFORM AND BETWEEN THE LANDING AND PLATFORM IS BETWEEN 20mm AND 150mm, THERE MUST BE A BEVEL ON THE WALL
- ON EACH FLOOR, IF THE SPACE BETWEEN THE WALLS AND THE PLATFORM AND BETWEEN THE LANDING AND THE PLATFORM IS MORE THAN 150mm, THERE MUST BE AN UNOPENABLE GUARD DURING MOVEMENT

SYSTEM

- THE TUBES AND CABLES HAVE BEEN POSITIONED SO THAT THEY CANNOT BE DAMAGED
- THE ASCENT SPEED IS LESS THAN 15 cm/s
- THE DESCENT SPEED IS LESS THAN 15 cm/s
- THE EMERGENCY STOP BUTTON STOPS THE SYSTEM IN ANY CONDITION
- THE ELECTRIC LOCKS ARE POWERED ONLY IF THE PLATFORM IS AT THE CORRESPONDING FLOOR
- THE ELECTRIC LOCKS HAVE CORRECTLY BEEN INSTALLED AND COUPLING IS MECHANICALLY SAFE
- THE DOORS OPEN ONLY IF THE PLATFORM IS AT THE CORRESPONDING FLOOR
- THE SYSTEM DOES NOT FUNCTION IF THE DOORS ARE OPEN
- THE DOORS AND THE PERIMETER GUARDS ARE SOLID WITH BLIND WALLS OR DENSE WIRE MESH
- ALL THE LIMIT SWITCHES PRESENT FUNCTION PROPERLY
- ALL THE SEND AND CALL BUTTONS CORRESPOND
- ALL THE WARNING LIGHTS CORRESPOND
- THE CABLE THAT REACHES THE MOVABLE PART IS FIRMLY SECURED WITHOUT THE RISK OF ENTANGLEMENT
- THE SYSTEM STOPS IF IT PASSES BEYOND THE PHOTOCELLS FITTED ON THE OPEN SIDES (only for the systems with photocells)
- THE DOORS HAVE BEEN INSTALLED LEVEL
- THE DOORS ARE INSTALLED AT MAXIMUM 10cm FROM THE SHAFT WITH THE POSSIBILITY OF OPENING THEM FROM THE INSIDE
- THE DOORS OPEN TOWARDS THE OUTSIDE
- THE RESET PROCEDURE HAS BEEN CHECKED
- THE SAFETY STRUT AND THE EMERGENCY STOP IN THE PIT HAVE BEEN INSTALLED PROPERLY (strut may not be present)
- OVERLOAD TEST: SYSTEM CAPACITY + 10%:

FINAL LOAD TEST:

WEIGHT USED FOR THE TEST: Kg PRESSURE REGISTRATION bar

UTILITY SHAFT

- POSITION THE CONTROL UNIT AND THE ELECTRIC PANEL IN A TECHNICAL AREA NOT ACCESSIBLE TO UNAUTHORISED PERSONS
- THE TECHNICAL AREA MUST BE PROVIDED WITH LIGHTING
- THE TECHNICAL AREA MUST BE VENTILATED

NOTE:

The installer declares having read and understood the instructions in this installation manual and that all the installation operations have been carried out accordingly.
In order to receive the Certificate of Conformity and the CE marking to be applied on the system, send the present document with photographs of the completed installation attached via fax, e-mail or normal mail.

Date:	Customer Signature:
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