



Liftern Otomasyon Teknolojileri A.Ş.  
Necip Fazıl Bulvarı, Keyap B2 No:31  
34775 Yukarı Dudullu Ümraniye - İstanbul

Tel : +90 216 382 1242  
Faks : +90 216 420 3042  
Email : [info@liftern.com](mailto:info@liftern.com)

# Hallmarks

Hallmarks

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### Ease of operation

Liftern controllers are designed to be taken to operation in the shortest time. Along with the detailed schematics, a quick installation guide is available inside each controller. This step by step guide goes beyond the schematics and puts the system in default action easily.

### Quality

Liftern Analytics is the core of quality assurance system. Each controller is physically and functionally test-ed after production. The test goes beyond just motor connection; down to auto-tuning and even indicator compatibility. The resulted production quality complies with international quality standards.

### Flexibility

Our standard models are designed to support by default most common machines, doors, indicators available in market. Our tailor-made controllers also available to support the most different scenarios and country specific features, functions. just name your scenario, and leave the rest to us. Exceptional Customer Service  
Liftern After-Sales Department is the central contact for any technical queries. The philosophy is simple: "focusing over service" before anything else. Your expectation is what the most matters. That is why the most attentive, unbureaucratic, proactive, and friendly assistance is provided any time you need it. Our service professionals are available on live support by hotline, online and in field when needed.



Liftern is an expert company in designing and producing lift controllers. The principal mission of the organisation is to create modern, accurate and intact controller solutions for international lift industry. With an experience over 10 years, Liftern's engineering team designs optimum controllers bringing together the state-of-art technology and handcraft.

In Liftern, a lift control solution is available for every imaginable application; from a standard lift, to the requirement of most demanding and individual project. All demands are conceived carefully and designed down to the last detail.

Flawless application of EN standards is one of the basic hallmarks of Liftern's philosophy. The controller system is produced in convenience to the respected regulations and keeping in mind easiness of verification during commissioning. Where applicable, local regulations are also examined and perceived carefully then reflected onto the controller.



There are more than 75 different component types in a standard lift. They all need to work in perfect harmony to achieve the passenger come to the desired floor. The timing, extend of function and synchronisation are mandatory for this mission. That is why, a complete maestro is crucial to conduct all these components; the controller.

In this sense, we named our models after famous composers and maestros of all times. Just like these maestros conducted large orchestras and created timeless masterpieces, each Liftern controller is explicitly produced for conducting all components in an elevator, governing and monitoring them to achieve their desired functions.



### Your Benefits

- Inverter choices
- Internet monitoring
- Programmable I/O's
- Can-Bus communication
- Easy start-up

*"Strauss-D" model is available in two pieces for MRL systems where the in-stallation is inside door frame and shaft top.*

Strauss offers higher level functionality and flexibility for gearless motors. With the cho-sen inverter, it gives the full power and ability to your system. On top of the features of its brother Amadeus, it also features remote brake test functions and feeds the motor to use all benefits of gearless technology.

### Technical Data

- ARL 500 processor
- Zetadyn - Fuji Frenic - ADrive inverter choices
- Schneider contactors
- 0.5 - 2.5 m/s speeds
- For gearless motors
- EN 81-1 A3 compatible
- Serial connection with halfway box
- 48 stops support
- Can-Bus communication
- Upto 8 lifts group function
- 14 programmable inputs & outputs
- Call cancellation
- Automatic rescue system (optional)

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In some projects, the basics are just not enough. Amadeus controllers offer higher technology for a decent price for projects with gearbox machines. The programmable inputs & outputs provides possibility for project specific functions and flexibility. Internet monitoring function enables interacting with controller and supervising problems remotely at all times.

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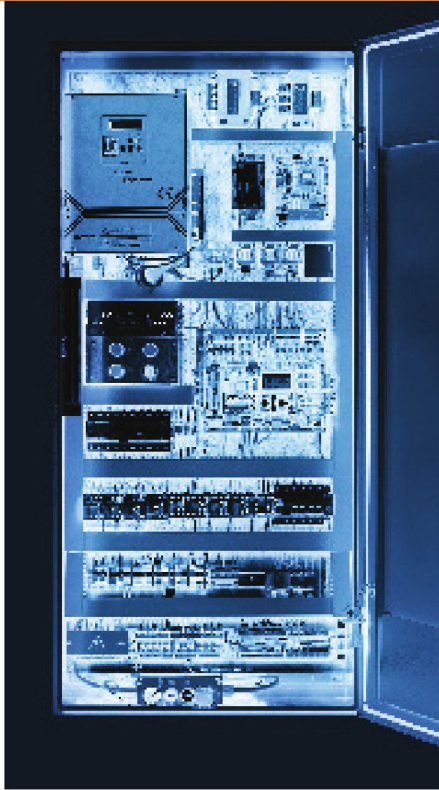
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## Test



### Liftern Analytics

One of basic hallmarks of all our products is the testing procedure called "Liftern Analytics". Each controller is tested systematically in 9 steps:

- Switch gear test
- Deactive wiring test
- Active wiring test
- Revision speed test
- Open-loop full speed test
- Auto-tuning
- Close-loop full speed test
- Automatic rescue system test (if applicable)
- Lift simulation test

In this sense, the controller is ready for start-up in your lift, free of all human or hardware originating faults.



### You just plug in a TV. Why not a lift controller?

The most difficult part of lift installation has always been the controllers and wiring harness. The compatibility of inverter and motor, proper connection of cables and wires, adjustment of parameters, inconsistent electric schemes are some of the most frequent headaches. Many different components available in the market make it even more confusing. In Liftern, the set-up processes are designed to be as short and easy as possible. When bought as a set with motor, fixtures and prewiring, each part is verified and tested for harmonious functionality before dispatching. The controller and drive are auto-tuned, synchronized, all prewiring harness are prepared by sockets in order to minimize the installation work. Built-in diagnostics guide the installer to prevent any mistakes. Moreover, understandable guidelines and installation manuals are enclosed in order to facilitate the adjustment and activation of lift functions.



#### Your Benefits

- Very easy installation
- Programmable I/O's
- Direct start-stop
- A3 Compatibility
- Interaction with controller remotely inside the shaft

Steinberg uses ARCODE as the heart of controller, which embeds the processor and inverter unit in a single device. This controller is for high level projects with the need of richest functionality, flexibility and comfort by direct start-stop functions. From fine-tuning to maintenance, the handheld unit with LCD screen is with you in any place of shaft.

#### Technical Data

- ARCODE processor with integrated inverter
- Integrated EMC filter
- 0.5 - 4 m/s speeds
- For gearbox machines
- EN 81-1 A3 compatible
- Can-Bus connection with halfway box
- Upto 64 stops
- Can-Bus communication with indicators
- Upto 8 lifts group function
- Direct start and stop
- Automatic rescue system (optional)

#### Your Benefits

- Very easy installation
- Cost effective
- EN 81-2 compliance



Nixdorf is the state-of-art gearless controller using ARCODE system. Embedding the advantages of direct start-stop, it assures maximum travel comfort. The installation and commissioning is "on the fly". Because, all the settings and adjustments are done using a single handheld unit. This unit is connected to controller, halfway box, COP and even the LOP's. So, the installer can adjust the floor level standing alone inside the cabin.

#### Technical Data

- ARL 300 processor
- 0.5 - 1.6 m/s speeds
- For gearbox machines
- EN 81-1 A3 compatible
- Serial connection with halfway box
- Upto 16 stops down collective, 9 stops full collective support (extension to 24 stops)
- 7 segment - Binary - Gray indicator output compatibility
- Upto 4 lifts group function
- Open and close loop functionality
- Electronic monostable switches
- Automatic rescue system (optional)





Your Benefits

- Very easy installation
- Cost effective
- A3 Compatibility

Designed for VVVF traction lifts with gearbox machines, Wagner is a simple and economic controller system. It is available as a set with half way box and pit controller unit. Its ergonomic cabinet can be used on the floor or mounted on the wall of machine room.

Technical Data

- ARL 300 processor
- ADrive inverter
- Schneider contactors
- 0.5 - 1.6 m/s speeds
- For gearbox machines
- EN 81-1 A3 compatible
- Serial connection with half way box
- Upto 16 stops down collective, 9 stops full collective support (extension to 24 stops) 7 segment - Binary - Gray indicator output compatibility
- Upto 4 lifts group function
- Open and close loop functionality
- Electronic monostable switches
- Automatic rescue system (optional)



Your Benefits

- Very easy installation
- Cost effective

Puccini is a basic and cost effective controller, where rock solid functioning is needed for two-speed machines. It is easily installable for new or modernization projects.

Technical Data

- ARL 200-S processor
- 0.5 - 1.6 m/s speeds
- Serial connection with half way box
- Upto 16 stops down collective, 9 stops full collective support (extension to 24 stops)
- 7 segment indicator output compatibility (Gray code by conversion card)
- Upto 2 lifts group function
- Serial communication with half way box (optional by FX-Seri expansion board) Automatic rescue system (optional)

# Buttons



**liftern**

www.liftern.com

LARGE SCALE  
INDICATOR MODULES

# MEGA 7

NEW PRODUCT



Intercom & autodialer  
speakers

PMMA cover glass

Icon type symbols

High power  
emergency lamp

ALL IN ONE  
SOLUTION

Dual microphone

Elevator ID plate

# MEGA 7



MLD-2T/N



MLD-1T



MLD-1D



MLD-1MD



MLD-2MT



## Shaft harness with plugs

Liftern Shaft Harness is produced completely in house premises according to the requirements in real shaft environment.

Each segment of harness is available in 3 meters, 5 meters and 10 meters models. Depending on the specifications and measurement of the project shaft, the corresponding models are chosen in required quantities.

All the cables and wire sets have labels on them showing where they will be installed inside the shaft. The ends with plugs are also addressed showing their target plugs. In addition, the color coding of cable harness matches with the colors used in our control systems. Through these measures, wiring errors during installation are reduced to an absolute minimum.

The standard set includes the below components:

1. Flexible cable with sockets
2. Door locks and contacts with sockets
3. Pit box wiring with sockets
4. Cable trunks
5. Flexible cable wedges
6. Cabin & Floor fixtures prewiring
7. Halfway box prewiring
8. Cabin top prewiring and cables



## Shaft Illumination Kit

The lift shaft should be provided with a permanently installed electric lighting, giving 50 lux illumination intensity, even when all the doors are closed (detailed description available in EN 81-20 / 5.2.1.4.1).

Liftern Shaft Illumination is a product segment designed strictly according to the respected standard. Depending on the shaft area, the convenient intervals and light source quantities are calculated to provide the required intensity. The light cases and cables are embedded with fixation accessories in order to fix to the shaft wall. The cables are ready just to plug in.



Leuchtstofflampe mit Montagesatz

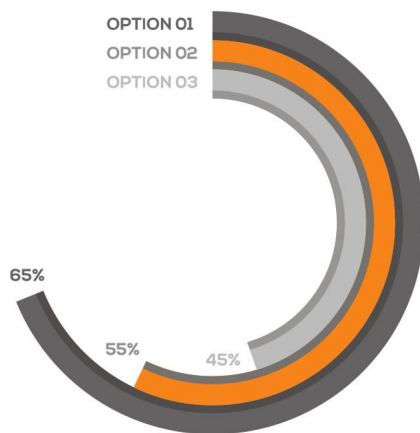
Steckverbindung IP 20

Steckverbindung IP 65



KSL Modell IP 20

KSL Modell IP 65



  
12+ Activities  
number of countries

  
3,000+  
Employees

  
£ 1.5 Billion  
Yearly Turnover

  
100+ Patent

Model & Function Matrix	Controller Models								Functions											
	Wagner	BrahmsA	madeus	Strauss	SteinbergN	ixdorfR	avel	Puccini	Gearless VVVF motors	Gearbox VVVF motors	AC2 - Two Speed motors	Hydraulic	Programmable I/O	Internet Monitoring	Frequency Inverter choices	Door frame cabinet	Can-Bus	4 m/s support	8 lifts group function	

## CONTROLLER INQUIRY FORM (TRACTION)

COMPANY NAME : \_\_\_\_\_ DATE : \_\_\_\_\_  
 PROJECT REF. : \_\_\_\_\_ REQ. DELIVERY : \_\_\_\_\_  
 UNIT QUANTITY : \_\_\_\_\_ DELIVERY PLACE : \_\_\_\_\_

### SCOPE OF SUPPLY

SHAFT WIRING  SHAFT ILLUMINATION  
 MACHINE ROOM WIRING  FIXTURES (please ask for dedicated order for)

### LIFT DATA

RATED LOAD : - ka. SPEED : - m/s.  
 SHAFT HEIGHT : - TRAVEL HEIGHT : - m  
 SHORTEST FLOOR H. : - m  
 MACHINE ROOM PLACE :  Above Shaft  Under Shaft  Machine Roomless (MRL)  
 APPLIED STANDARD :  EN 81-1  EN 81-70 (Disabled Acce)  EN 81-72 Other  
 NO OF FLOORS : - DOOR PLACES A:                       
 NO OF DOORS : - B:                       
 MAIN FLOOR : - C:                       
 SHAFT DIMENSIONS : - m  
 PIT : - m HEADROOM : - m

### NET / SUPPLY

VOLTAGE :  220 V AC - 50 Hz  400 V AC - 50 Hz  Other \_\_\_\_\_  
 DISTRIBUTION BOX :  Available on site  To be offered by Liftern - start/h \_\_\_\_\_

### MOTOR & DRIVE

ROPING :  1:1  2:1 STARTS PER HOUR \_\_\_\_\_  
 MOTOR TYPE :  ASYNCHRONOUS  SYNCHRONOUS  
 MOTOR BRAND : - MOTOR MODEL : \_\_\_\_\_  
 MOTOR RATING : - kW MOTOR NOM. CURRENT: \_\_\_\_\_  
 MOTOR PROTECTION :  THERMISTOR  FAN  
 MOT. FAN VOLTAGE :  230 V  400 V  
 MOT. BRAKE VOLTAGE :  -  MOT. BRAKE CURRENT : \_\_\_\_\_ Number of brakes  
 ENCODER :  NOT AVAILABLE  AVAILABLE MODEL: \_\_\_\_\_

### DOORS

CABIN DOOR :  AVAILABLE  NOT AVAILABLE  
 DOOR BRAND : - DOOR MODEL : \_\_\_\_\_  
 CABIN DOOR MOTOR :  220 V  380 V CURRENT \_\_\_\_\_  
 LANDING DOOR :  AUTOMATIC  MANUAL (please provide magnet data below)  
 MAGNET VOLTAGE : - V MAGNET CURRENT : -  
 LIGHT CURTAIN :  220 V  24 V  NOT AVAILABLE

### CONTROL CONFIGURATION

CONTROLLER TYPE :  AC2 TYPE  VVVF GROUP OF ..... LIFTS  
 PLACE :  ON TOP FLOOR  ON OTHER FLOOR (.....)  
 COLLECTION :  DOWN COLL.  FULL COLL.  
 CABINET TYPE :  WALL CABINET  STANDING CABINET  
 MAX. CABINET SIZE\* : -  
 CONTACTS IN SHAFT :  Speed Governor  Upper Limit Switch  Lower Limit Switch  Inspection Limit Switch  
 Tensioning Device  Rope Plate  Pit STOP  Pit Ladder  
 Pit Door  Other -  
 CONTACTS ON CABIN :  Stop Switch  Ceiling Open  Folding Plinth (Sill)  Rope Plate  
 Em. Limit Switch  Other -  
 FUNCTIONS :  Door pre-opening  Level Indicator  Error Logging  Phase Monitoring  
 Cabinet Illumination  Cabinet Isolation  OSG Remote Test Buttons (Standard in MRL)  
 Trip Counter  Hour Counter  Other  
 SIGNALISATION :  7 SEGMENT  BINARY-GRAY  1 SIGNAL FOR EACH FLOOR  
 SHAFT SELECTION :  With magnets  Absolute Encoder Absolute En. Brand: .....  
 MONITORING :  Available  Not Available

### INSPECTION BOX

CONTACTS :  Overload  Full load  No load  
 CAR VENTILATOR : Shut off after ..... seconds after arrival on floor  
 CAR LIGHT : Shut off after ..... seconds after arrival on floor  
 LOAD WEIGHING DEVICE : Power .....  
 Output By relay contact NPN type PNP type sensor

## EVACUATION PROTOCOL

EMERGENCY RESCUE :  AUTOMATIC  NONE  MANUAL BRAKE RELEASE BY PUSH BUTTON  
 AUTO. EVAC. FLOOR :  EVACUATION ON CLOSEST FLOOR  EVACUATION ON FLOOR NO:  
 MANUAL RESCUE : MANUAL BRAKE RELEASE BY PUSH BUTTON Number of buttons: \_\_\_\_\_

### SHAFT WIRING AND COMPONENTS

(please fill if required)

FLEXIBLE LENGTH : - m  
 TRUNKING LENGTH : - m  
 MOTOR CABLE L. :  5 m  10 m  
 BRAKE CABLE L. :  5 m  10 m  
 THERMISTOR CABLE L. :  5 m  10 m if available in motor  
 FAN CABLE LENGTH :  5 m  10 m if available in motor  
 CABLE TIES : - pcs.  
 KNOCK-IN FIXING : - pcs.  
 DIST. BOX CABLE L. : - m for connection between controller and main isolator on c  
 CABIN LIGHT CABLE L. : - m for connection between controller and external car light

### Special requests

1- Some of the options in this form may not be applicable for every system for technical reasons. In such cases, technically convenient options will be applied.

Thanks for your interest to our products.





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