LEA® Standard 100

Your passenger lift up to 1.000 kg at 1,0 m/s

Design according to EN 81-20/-50







LEA® Standard 100: The proven solution that offers an excellent price-quality ratio.

LEA® Standard 100 proves that sleek design and a comfortable ride can be affordable. **LEA®** Standard 100 offers optimised shaft dimensions with the option of reduced pit and overhead spaces.

This compact elevator features durable materials that increase efficiency and working life. The low initial investment and high return throughout the life cycle of the elevator ensure maximum return on your investment.

Choose LEA® Standard 100 and trust in LiftEquip's expertise.

All these attributes make **LEA®** Standard 100 perfect for residential buildings with low traffic flows.

made in europe At our elevator manufacturing centers in Germany and Spain

Overview LEA® Standard 100	
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Elevator type	Machine room-less, optional machine room
Passengers	6/8/13 passengers
Load	450 / 630 / 1,000 kg
Speed	1.0 m/s
Travel height	Up to 45 m
Number of stops	Up to 12 stops
Cabin	6 predesigned cabins
Door types	Side-opening or central opening with 2 panels
Door types Door opening width	Side-opening or central opening with 2 panels 800 mm or 900 mm
Door types Door opening width Door height	Side-opening or central opening with 2 panels 800 mm or 900 mm 2,000 mm or 2,100 mm
Door types Door opening width Door height Overhead min.	Side-opening or central opening with 2 panels 800 mm or 900 mm 2,000 mm or 2,100 mm CH + 1200 mm
Door types Door opening width Door height Overhead min. Reduced overhead	Side-opening or central opening with 2 panels 800 mm or 900 mm 2,000 mm or 2,100 mm CH + 1200 mm CH + 490 / 430 mm (for CH = 2070 /2200 mm and DH = 2000 mm)
Door types Door opening width Door height Overhead min. Reduced overhead Pit min.	Side-opening or central opening with 2 panels 800 mm or 900 mm 2,000 mm or 2,100 mm CH + 1200 mm CH + 490 / 430 mm (for CH = 2070 /2200 mm and DH = 2000 mm) 1000 mm

The **LEA**[®] Family at a glance

LEA® Standard 100: Pure and efficient

www.liftequip.com

The ideal solution for low-traffic functional residential buildings.

LEA® Standard 200: Stylish and flexible

Ideal elevator for low- to mid-traffic residential buildings with demanding design and flexibility requirements. Also perfect for modernising existing

buildings.

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LEA[®] Comfort 300: Versatile and smart

Designed for busy commercial and office buildings.

3

Your advantages at a glance

The easy solution that meets all your mobility needs.

LEA[®] Standard 100 is the ideal solution if you are looking for a durable, energy-efficient and compact elevator for a new residential building with low traffic flows and basic needs.

LEA® Standard is built on good quality and experience.

One elevator. Many benefits.



LEA[®] Standard 100 has a 2:1 rope suspension, with diverting pulleys below the cabin. The ropes are fastened to guiderails at the head of the shaft.

The rated speed is 1 m/s. The elevator has a self-supporting cabin with integrated car sling.

Machine room-less

The drive is located at the head of the shaft on a bedplate fixed to a car guide rail and to the shaft wall. The speed governor is fixed to the opposite car guide rail.

The VVVF frequency inverter is located in the shaft head.

Machine room

The machine and the VVVF frequency inverter are located in the machine room on top of the shaft.

Cabin dimensions

Specified loads in the shaft pit / overhead

Load Q	kg	450	450	630	1000	_
Cabin Width x Cabin Depth CW x CD	mm	1000 x 1250	950 x 1300	1100 x 1400	1100 x 2100	
Single entrance, SE		•	•	•	•	
Double Entrance, DE (180°)		0	0	0	0	
Passengers		6	6	8	13	
Cabin Height, CH	mm	2070 / 2200	2070 / 2200	2070 / 2200	2070 / 2200	
Door Opening, DO	mm	800 / 900	800 / 900	800 / 900	800 / 900	_
Door Height, DH	mm	2000 / 2100	2000 / 2100	2000 / 2100	2000 / 2100	 Standa o Option

Reliable doors with safe operation

Durable

cabin finish

LER® Standard 100



Design Sophisticated functionality.

Design lines for LEA® Standard 100 Design line F: Fresh



The F design line combines timeless, clean designs with attractive and durable materials. Neutral colours, as well as long-lasting stainless steel finishes are the ideal choice for functional buildings. This design line presents predesigned cabin interiors in the ambiance styles "Fresh" and "Timeless".

Design line F: Fresh





F22







F23

Design lines for LEA® Standard 100 Design line F: Timeless

LER® Standard 100

Design line F: Timeless



F30 with optional vandal-resistant features



F31 with optional vandal-resistant features

If you want to equip your elevator to withstand extreme wear and tear and vandalism, the design line F offers optional vandal-resistant (partially Category 1) ceilings or fixtures.

Panels

Choose between full stainless steel (brushed or linen) or a coated steel skinplate in the stylish unicoloured predesigned cabins.



Floors





Natural Black Vinyl

Concrete Dark Grey Concrete Chalk Vinyl

Vinvl

Hardwearing, easy-to-clean vinyl in a choice of three colours. You also have the possibility to supply your own flooring (recess ≤ 25 mm).

Mirrors

A mirror in 5 mm tempered safety glass is included on the rear wall, or on the side wall for elevators with a double entrance. Mirrors make the cabin feel more spacious and create appealing ceiling light reflections.



Without mirror

Note: Colors, options and specifications are subject to change. All cabin decor options illustrated in this brochure are representative only. The samples shown may vary from the original in color and material. Patterned samples not to scale. Consult your LiftEquip sales representative about our cabin design

Design lines for **LEA®** Standard 100 Panels, Ceilings and more

Ceilings

The white painted ceiling enhances the reflection of light from the slim LED panel light to provide comfortable, uniform lighting. 2 vandal-resistant ceilings are available.



Slim LED plate



Steel Grille, vandal-resistant



Steel Lightbox, vandal-resistant

Handrails



Stainless steel satin, straight fixing

The round handrail is made of satin stainless steel with a curved ending.



Partial-width and partial-height

Shaft layout with side-opening door L2





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Key:CW: car widthDW: doorCD: car depthDH: doorCH: car heightFFL: finishSW: shaft widthUFL: unfinSD: shaft depthTH: traveSH: shaft headHST: min.SP: shaft pitSP: shaft pit

DW

CW

SW



DW

Rece (optic

Control system 2200 DH = 2000 / 2100F CH = 2070 / SH* = 3400 mm Reduced SH* = (g CH FFL UFL UFL FFL 510 mm FFL UFL HST_{min} = DH + 450 (consult conditions vith reduced pit and 2900 mm (concute of (ji 87 19 UFL FFL 45 m TH FFL UFL H 220 gd SP = 1000 SD

Vertical section

Technical data			◄ ►	
Rated load		450 kg	630 kg	1000 kg
Machine type (synchronous gearles	ss)	PMC125 S	PMC125 M	PMC125L
Weight of the drive (kg)	kg	127	132	193
Number of Switching Operations	s/h	120	120	180
Rated output of motor	kW	2.80	3.80	5.90
Rope suspension		2:1		
Diameter of tration pulley	mm	240		
Suspension ropes	mm	4 Ø 6	6 Ø 6	8 Ø 6
Cuide reile counterrusight	Category 0	T45/5 - T70/9		T65/5 - T70/9
Guide fails counter weight	Category 1, 2 and 3	T70/9		T70/9
Guide rails car elevator		T89/16 - T70/9	T89/16 - T70/9	T89/16
	Category 0	3000-1600	3000-1600	2150 (up to 45 m)
Max. distance between fastering	Category 1	2700-1700 (up to 45 m)	2700-1700 (up to 45 m)	2150 (up to 45 m)
of rail brackets	Category 2	2100 (up to 45 m)	2100 (up to 45 m)	1550 (up to 45 m)
	Category 3	1700 (up to 45 m)	1700 (up to 45 m)	1300 (up to 45 m)

Recess (optional



Key: S: Single entrance, D: Double entrance, L2: Side-opening door with 2 panels, C2: Central-opening door with 2 panels Note: Optional reduced SP = 425/550 mm and reduced SH = CH+490 mm, for CH=2070 mm and self supporting cabin at 1 m/s.

The values shown correspond to a generic installation. Please contact your LiftEquip sales representative for guaranteed shaft dimensions for specific projects, especially for reduced shaft head and/or pit. During the planning phase, all applicable regulations stipulated by relevant notified bodies and all applicable national regulations should also be considered.

Shaft planning layout

SHAF	т					
Shaft width (mm)	Shaft width (mm) - Full front	Shaft depth (mm) - Door in recess & full front	Shaft depth (mm) - Door partially in shaft	Shaft depth (mm) - Door in shaft	Shaft pit (mm)	Shaft head (mm)
			ļ,			
500	1505	1550	1610	1675	1000	3400
600	1600	1550	1610	1675	1000	3400
500	1505	1680	1830	1930	1000	3400
600	1600	1680	1830	1930	1000	3400
780	-	1515	1545	1605	1000	3400
980	-	1515	1545	1605	1000	3400
780	-	1610	1700	1790	1000	3400
980	-	1610	1700	1790	1000	3400
500	1505	1600	1660	1725	1000	3400
600	1600	1600	1660	1725	1000	3400
500	1505	1730	1880	1980	1000	3400
600	1600	1730	1880	1980	1000	3400
780	-	1565	1595	1655	1000	3400
980	-	1565	1595	1655	1000	3400
780	-	1660	1750	1840	1000	3400
980	-	1660	1750	1840	1000	3400
600	-	1700	1760	1825	1000	3400
600	1605	1700	1760	1825	1000	3400
600	-	1830	1980	2080	1000	3400
600	1605	1830	1980	2080	1000	3400
795	-	1665	1695	1755	1000	3400
980	-	1665	1695	1755	1000	3400
795	-	1760	1850	1940	1000	3400
980	-	1760	1850	1940	1000	3400
600	1610	2400	2460	2525	1000	3400
600	1610	2530	2680	2780	1000	3400
980	-	2365	2395	2455	1000	3400
980	-	2460	2550	2640	1000	3400

Main Components

Scope of Supply and Planning Information

LER® Standard 100



Frequency inverter

Gearless machine



one of the most compact machines and

Inverter E300/M600

and power choke

Without travel contactors

Stored motor parameters

Gearless PMC125

- is perfectly suited for deployment in the **LEA**[®] Standard 100 elevator system without a machine room. High efficiency
- Low noise as there is no forced ventilation and very smooth running

The synchronous gearless PMC125 is

- Safe and comfortable electromagnetic brake release
- Anti-friction bearings with life-time lubrication

The power-vector-controlled LiftEquip

frequency inverter is optimised for the

Brake resistor in a separate housing

Rapid commissioning via Plug&Play

PMC125 synchronous machines.

Inverter E300 with power filter

- Suited for energy recovery
- Brake system against overspeed in accordance with EN 81-20 /5.6.6 and against unintended movement of the elevator car in accordance with EN 81-20 /5.6.7
- UCM verification using the safety brake of the machine and considering the switching times of the control system
- Rope guard in accordance with EN 81-77 up to earthquake category 3
- Emergency power mode possible in the event of a power failure via UPS (uninterrupted power supply)
- Integrated speed monitoring in conjunction with suitable control system
- Parallel interface and DCP03, DCP04
- Fully regenerative in conjunction with M600

LEA* Standard 100 is a mechanical kit for an elevator that can be combined with any control system available on the market and the associated control and display elements.

The kit is based on a type-tested overall system in which the safety-relevant components must be used and integrated into the control system. The elevator must be brought into service by individual acceptance

Not included in the scope of supply are:

Control box of the control system

- Control system and control box with measures for rescue of passengers Operating and indicator elements
- External control panels
- Mounted resp. built-in control panel in the elevator car
- Emergency call system
- Car distribution box
- Travelling cable
- Shaft selector
- Shaft wiring and shaft lighting
- Inspection control and emergency stop switch
- Integration of the inverter
- Connection of the car lighting and the overload sensor
- Load measurement for overload
- emergency light

All of the above components must be provided by the installation firm and/or a control system supplier.

The control box with control system is not included in the scope of supply. It must be provided by the installation firm. The control box is mounted preferably in the top landing of the entrance area. Installation in the landings below this is possible. The nearest landing door must be located within calling distance of the control box and be visible from the control box. If the control box is installed in an adjoining room, the room must be equipped with an intercom system in accordance with EN 81-20, Section 5.12.3.2.

Doors



Door types and dimensions						
		LD10* / CD10				
		L	C2			
Door type		Door with frame	Full-front	Door with frame		
Opening		side	side	central		
Door Panels		2	2	2		
Door Width mm	800	•	•	•		
	900	•	•	•		
Door Height	2000	•	•	•		
mm	2100	•	•	•		
* EN 81-58 andin	a doors fire	resistance test				

Standard

id doors fire resistal

Legal information

The LEA® Standard 100 elevator system has been granted an EU Type Test Certificate in accordance with Appendix IV, Module B, of 2014/33/EU Directive. Before the commencement of operation, the installation firm must have the elevator system per inspected / approved in an individual inspection with danger analysis. The existing EU Type Test Certificate can be used as the basis for this. During the planning phase, please consider all applicable regulations stipulated by the relevant notified body and all applicable national regulations. Patents have been granted for the LEA® Standard 100 elevator system. On an order-related,

LiftEquip will issue a quota licence.



On the latest stage of technology The **LEA**[®] Standard 100 complies already with the new elevator standard EN 81-20/-50. So you are technically on the safe side.



Reducing energy consumption This well balanced system and LED lighting option enables the **LER**[®] Standard 100 to make an obvious contribution to reducing regular operating costs and CO₂ emissions.



Energy recovery

The deployment of the E300/M600 frequency inverter with integrated power regeneration can further enhance the overall efficiency of the installation. By taking account of the usage category in accordance with VDI 4707, energy efficiency class "A" can be achieved.



Technology with a secure future Quality Made by "LiftEquip": on a level with international standards and appreciated worldwide. The main components drive, inverter and doors are made in Europe.



Low-noise ride quality The deployment of our high-quality and perfectly balanced components makes IEn® Standard 100 a very quiet and comfortable elevator system.



Environmentally friendly production

Throughout the production of the **LEA®** Standard 100, we ensure that the environment is protected.

Presented by

LiftEquip GmbH Elevator Components

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