LEA® Standard 200

Your passenger lift up to 1.000 kg at 1,75 m/s

Design according to EN 81-20/-50

More than you expect ... LiftEquip®

ELEVATOR COMPONENTS

STYLISH AND FLEXIBLE FOR RESIDENTIAL BUILDINGS

LEA® Standard 200:
The ideal solution for low- and mid-traffic residential buildings with demanding design and exceptional flexibility requirements.

With its timeless elegance and outstanding efficiency, LEA® Standard 200 meets the highest demands in terms of comfort, flexibility and design for residential buildings.

Featuring the latest technology, high-quality materials and an impressive design, LEA® Standard 200 offers enhanced comfort for passengers and adds value to residential buildings.

Choose LEA® Standard 200 and trust in LiftEquip's expertise.

Due to its flexible cabin sizes, this elevator is the perfect choice for modernization projects that require full replacement.

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

Overview LEA® Standard 200	
Elevator type	Machine room-less, optional machine room
Passengers	4 to 13 passengers
Load	320 / 450 / 630 / 825 / 1,000 kg
Speed	1.0 / 1.6 / 1.75 m/s
Travel height	Up to 75 m
Number of stops	Up to 20 stops
Cabin	41 predesigned cabins / custom-fit solutions
Door types	Side-opening with 2 or 3 panels, central-opening with 2 or 4 panels
Door opening width	From 700 mm to 1,100 mm
Door height	Up to 2,300 mm
Overhead min. (1.0 m/s)	CH + 1200 mm
Reduced overhead (1.0 m/s)	CH + 490 / 430 mm (for CH = 2070 / 2200 mm and DH = 2000 mm)
Pit min. (1 m/s)	1000-1100 mm
Reduced pit (1.0 m/s)	425 / 550 mm

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The LEA® Family at a glance

LEA® Standard 100:
Pure and efficient

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.

LEA® Comfort 300:
Versatile and smart

Designed for busy commercial and office buildings.

Your advantages
at a glance

Space flexibility, efficiency and stylish design in one elevator.

If you are planning a new residential building in the comfort or premium segment, your customers will be expecting a reliable elevator solution with exceptional flexibility and quality. With its adjustable dimensions and a wide range of options, LEA® Standard 200 adjusts to your needs and fits seamlessly into your building.

LEA® Standard is built on good quality and experience.

Elevator type

LEA® Standard 200 has a 2:1 rope suspension, with diverting pulleys below the cabin. The ropes are fastened to guiderails at the head of the shaft. For LEA® Standard 200 with a speed of 1 m/s, no car sling is required. LEA® Standard 200 at 1.6 and 1.75 m/s requires a cabin with sling.

Machine room-less
The motor is a permanent-magnet synchronous gearless machine. It is located at the head of the shaft on a bedplate fixed to a car guiderail and to the shaft wall. The speed governor is fixed to the other car guiderail.

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.

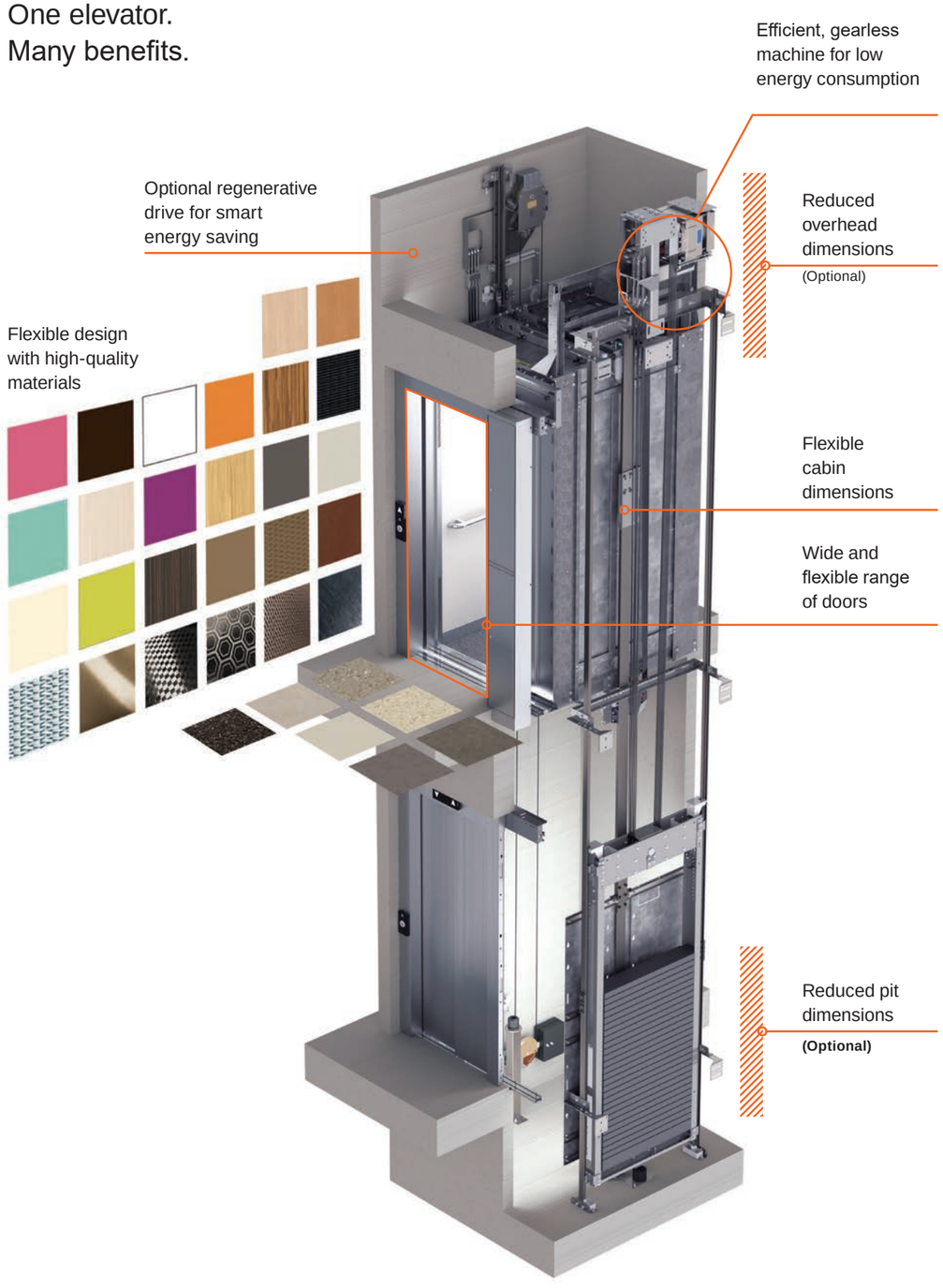
Cabin dimensions

Specified loads in the shaft pit / overhead

Load Q	kg	320	450	630	825	1000
Cabin Width x Cabin Depth CW x CD	mm	850 x 1000	-	1100 x 1400	1350 x 1400	1100 x 2100
		900 x 1000	950 x 1300	-	-	1400 x 1600
		-	1000 x 1250	-	-	1600 x 1400
Single entrance, SE		●	●	●	●	●
Double Entrance, DE (180°)		o	o	o	o	o
Passengers		4	6	8	10	13
Cabin Height, CH	mm	2070-2500	2070-2500	2070-2500	2070-2500	2070-2500
Door Opening, DO	mm	700-800	700-900	700-1000	700-1100	700-1100
Door Height, DH	mm	2000-2300	2000-2300	2000-2300	2000-2300	2000-2300

● Standard / o Optional / - not available

One elevator.
Many benefits.



LEA® Standard 200

Design
Sophisticated functionality.

The collection of predesigned cabins of the E and D design lines have been created by expert designers to achieve a wide spectrum of atmospheres.
LEA® Standard 200 combines genuine style with quality materials, such as stainless steel, laminate or glass. This adds to the premium feel while ensuring long-lasting good looks.glass.

Design line E

Characterised by fresh and natural colour combi-nations, the E design line offers a great choice of predesigned cabins in stainless steel or high-quality laminates and melamines.

E32

Design line D

Geared to high-end residential buildings, the D design line's range of predesigned cabins offers great versatility. They represent a qualitative step up in materials and interior finishes, using either patterned stainless steel, exclusive laminates or decorative glass.

D32

Design lines for LEA® Standard 200
Panels, Ceilings and more

LEA® Standard 200

Panels
Choose among melamines, laminates and stainless steel in the E design line and decorative glass, laminate or steel in the D design line in our predesigned cabins.

Ceilings
Select from a wide range of lighting styles and different colours with direct or indirect lighting to create the desired atmosphere in your cabin. In addition, vandal-resistant ceilings are available in both design lines.

LED lighting plate (standard)

Lightbox

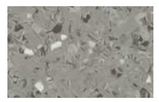
Tiffany

Steel Grille, vandal-resistant

Floors

Concrete Light Grey Vinyl

Concrete Dark Grey Vinyl



Eminent Grey Vinyl

Choose from a wide range of hard-wearing vinyls or a custom flooring (e.g. marble) for a more exclusive design. You have the option to supply your own flooring (recess ≤ 25 mm).

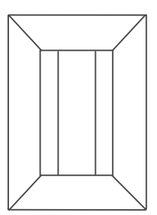
Handrails

Stainless steel Satin Silver, straight fixing

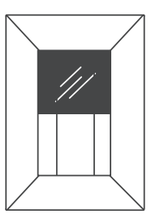
Stainless steel Satin Black, sloped fixing

Robust stainless steel handrails to place on rear or side walls. Straight fitting for E design line and sloped fitting for D design line.

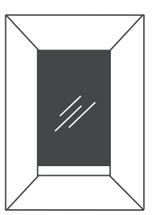
Mirrors
Choose the partial-width and partial-height silver safety mirror for the E design line or the full-width and full-height silver or smoked safety mirror for the D design line. The cabin is also available with full-width and mid-height safety mirror or without a mirror in both E and D design lines.



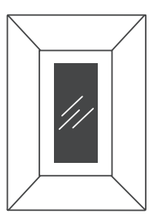
Without mirror



Full-width, mid-height



Full-width, full-height



Partial-width and partial-height

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 200
Design line E: Pure, Pop Art, Home

With its fresh colours, stainless steel or wooden optics, the E design line presents design solutions which easily adapt to your lifestyle. This design line offers predesigned cabin interiors in the ambiance styles Pure, Pop-Art, Home, Sharp and Royal.

Pure


E01


E02

Pop Art


E10


E11


E12


E13


E14

Home


E20


E21


E22


E23

LEA® Standard 200

Design lines for LEA® Standard 200
Design line E: Sharp, Royal

Sharp


E30


E31


E32


E33


E34

Royal


E40


E41


E42

Design lines for LEA® Standard 200
Design line D: Natura, Downtown, Hero

Geared to high-end residential buildings, the D design line is highly versatile. It represents a qualitative step up in materials and interior finishes. Choose your cabin from one of the following ambiances: Natura, Downtown, Hero, Alpine, Prestige and Oasis.

Natura


D01


D02


D03

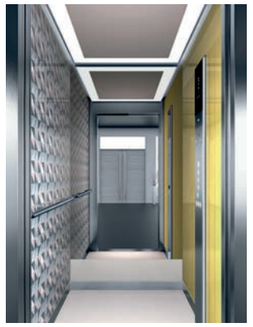

D04

Downton


D10


D11


D12


D13

Hero


D20


D21


D22


D23

LEA® Standard 200

Design lines for LEA® Standard 200
Design line D: Alpine, Prestige, Oasis

Alpine


D30


D31


D32

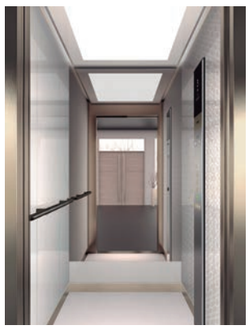

D33

Prestige


D40


D42

Oasis


D50


D51

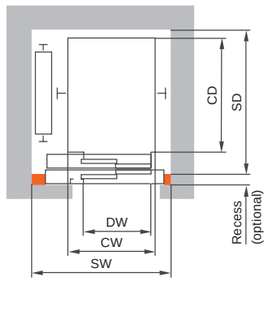

D52


D53

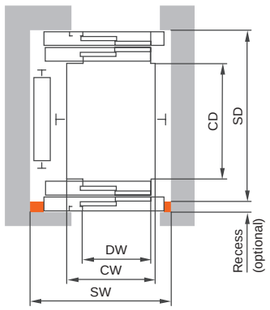
Technical product scope
Door options / Shaft planning layout

Shaft layout with side-opening door L2

Single entrance

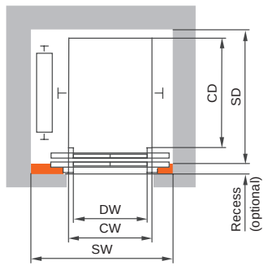


Double entrance

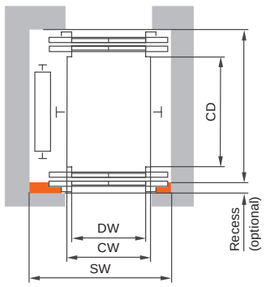


Shaft layout with central-opening door C2

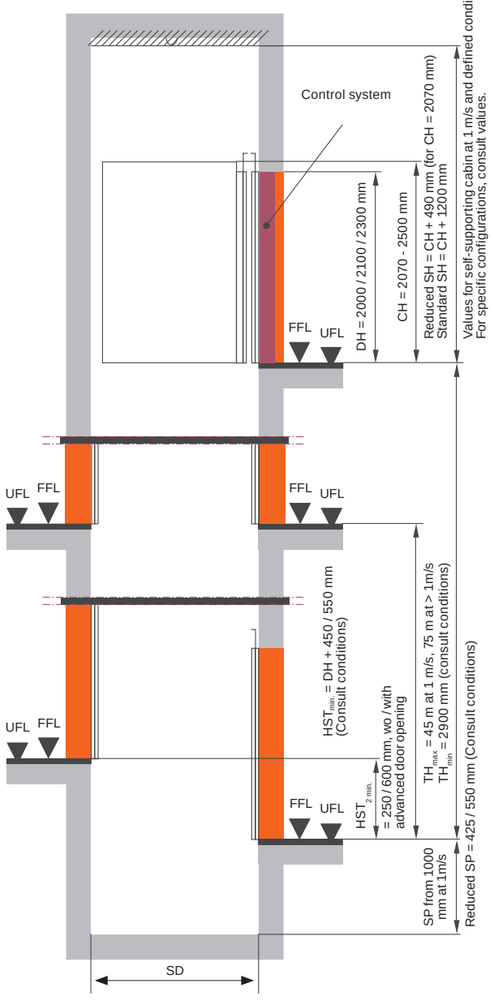
Single entrance



Double entrance



Vertical section



Key:

CW: car width	**DW: door width**
CD: car depth	**DH: door height**
CH: car height	**FFL: finished floor level**
SW: shaft width	**UFL: unfinished floor level**
SD: shaft depth	**TH: travel height**
SH: shaft head	**HST: min. height between floors**
SP: shaft pit	

Technical data (1 m/s)

Rated load		320/450 kg	320/450 kg	630 kg	630 kg	825/1000 kg	825/1000 kg
Machine type (synchronous gearless)		PMC125 S	PMC145 S	PMC125 M	PMC145 M	PMC125 L	PMC145 L
Weight of the drive (kg)	kg	127	132	132	172	193	216
Number of Switching Operations	s/h	120	180	120	180	180	180
Rated output of motor	kW	2.8	2.8	3.80	3.91	5.90	6.01
Rope suspension					2:1		
Diameter of tration pulley	mm				240		
Suspension ropes	mm	4 Ø 6	6 Ø 6	6 Ø 6	7 Ø 6	10 Ø 6	10 Ø 6

Technical data (1.6 m/s, 1.75 m/s)

Rated load		630 kg	630 kg	825/1000 kg	825/1000 kg
Machine type (synchronous gearless)		PMC125 XM	PMC125 XM	PMC125 XL	PMC125 XL
Speed	m/s	1.6	1.75	1.6	1.75
Weight of the drive (kg)	kg	163	163	204	204
Number of Switching Operations	s/h	180	180	180	180
Rated output of motor	kW	6.4	7.0	9.3	10.2
Rope suspension				2:1	
Diameter of tration pulley	mm			240	
Suspension ropes	mm	7 Ø 6	7 Ø 6	11 Ø 6	11 Ø 6

Shaft planning layout

SYSTEM				CABIN		DOOR				SHAFT							
Rated load (kg)	Passengers	Speed (m/s)	Travel height max. (m)	Car width x car depth (mm)	Car height (mm)	Type of entrance	Door type	Door width (mm)	Door height (mm)	Shaft width (mm)	Shaft width (mm) - Full front	Shaft depth (mm) - Door in recess	Shaft depth (mm) - Full front	Shaft depth (mm) - Door partially in shaft	Shaft depth (mm) - Door in shaft	Shaft pit (mm)	Shaft head (mm)
320	4	1.0	45	850 x 1000	2070-2500	S/D	L2/C2	700-800	2000-2300								
					2200	S	L2	700	2000	1350	-	1300	-	1370	1425	1100	3485
						D	L2	700	2000	1350	-	1430	-	1580	1680	1100	3485
		1.0	45	900 x 1000	2070-2500	S/D	L2/C2	700-800	2000-2300								
					2200	S	L2	800	2000	1445	-	1300	-	1370	1425	1100	3485
						D	L2	800	2000	1445	-	1430	-	1580	1680	1100	3485
450	6	1.0	45	1000 x 1250	2070-2500	S/D	L2/C2	700-900	2000-2300								
					2200	S	L2	800	2000	1500	1505	1550	1540	1610	1675	1000	3400
						D	L2	800	2000	1500	1505	1680	1680	1830	1930	1000	3400
		1.0	45	1000 x 1300	2070-2500	S/D	L2/C2	700-900	2000-2300								
					2200	S	L2	800	2000	1500	1505	1600	1590	1660	1725	1000	3400
						D	L2	800	2000	1500	1505	1730	1730	1880	1980	1000	3400
630	8	1.0	45	1100 x 1400	2070-2500	S/D	L2/C2	700-1000	2000-2300								
					2200	S	L2	800	2000	1600	1600	1700	1690	1760	1825	1000	3400
								900	2000	1600	1605	1700	1690	1760	1825	1000	3400
						D	L2	800	2000	1600	1600	1830	1830	1980	2080	1000	3400
								900	2000	1600	1605	1830	1830	1980	2080	1000	3400
						S	C2	800	2000	1795	-	1665	-	1695	1755	1000	3400
								900	2000	1980	-	1665	-	1695	1755	1000	3400
						D	C2	800	2000	1795	-	1760	-	1850	1940	1000	3400
								900	2000	1980	-	1760	-	1850	1940	1000	3400
		1.6	75			S	L2	900	2000	1600	1610	1700	1700	1770	1825	1350	3615
		1.75	75			S	L2	900	2000	1600	1610	1700	1700	1770	1825	1460	3745
825	10	1.0	45	1350 x 1400	2070-2500	S/D	L2/C2	700-1000	2000-2300								
					2200	S	L2	900	2000	1850	-	1700	-	1760	1825	1000	3400
								1000	2000	1850	-	1700	-	1760	1825	1000	3400
						D	L2	900	2000	1850	-	1830	-	1980	2080	1000	3400
								1000	2000	1850	-	1830	-	1980	2080	1000	3400
						S	C2	900	2000	2025	-	1665	-	1695	1755	1000	3400
								1000	2000	2180	-	1665	-	1695	1755	1000	3400
						D	C2	900	2000	2025	-	1760	-	1850	1940	1000	3400
								1000	2000	2180	-	1760	-	1850	1940	1000	3400
		1.0	45	1100 x 2100	2070-2500	S/D	L2/C2	700-1000	2000-2300								
					2200	S	L2	800	2000	1600	1600	2400	2390	2460	2525	1000	3400
								900	2000	1600	1605	2400	2390	2460	2525	1000	3400
						D	L2	800	2000	1600	1600	2530	2530	2680	2780	1000	3400
								900	2000	1600	1610	2530	2530	2680	2780	1000	3400
						S	C2	800	2000	1800	-	2365	-	2395	2455	1000	3400
								900	2000	1980	-	2365	-	2395	2455	1000	3400
						D	C2	800	2000	1800	-	2460	-	2550	2640	1000	3400
								900	2000	1980	-	2460	-	2550	2640	1000	3400
		1.6	75			S	L2	1000	2000	1750	-	2400	-	2470	2525	1350	3615
		1.75	75			S	L2	1000	2000	1750	-	2400	-	2470	2525	1460	3745
1000	13	1.0	45	1400 x 1600	2070-2500	S/D	L2/C2	700-1000	2000-2300								
					2200	S	L2	900	2000	1900	-	1900	-	1960	2025	1000	3400
								1000	2000	1900	-	1900	-	1960	2025	1000	3400
						D	L2	900	2000	1900	-	2030	-	2180	2280	1000	3400
								1000	2000	1900	-	2030	-	2180	2280	1000	3400
						S	C2	900	2000	2050	-	1865	-	1895	1955	1000	3400
								1000	2000	2180	-	1865	-	1895	1955	1000	3400
						D	C2	900	2000	2050	-	1960	-	2050	2140	1000	3400
								1000	2000	2180	-	1960	-	2050	2140	1000	3400
		1.6	75			S	L2	1000	2000	1900	-	1900	-	1970	2025	1350	3615
		1.75	75			S	L2	1000	2000	1900	-	1900	-	1970	2025	1460	3745
		1.0	45	1600 x 1400	2070-2500	S/D	L2/C2	700-1000	2000-2300								
					2200	S	L2	1000	2000	2100	-	1700	-	1760	1825	1000	3400
						D	L2	1000	2000	2100	-	1830	-	1980	2080	1000	3400
						S	C2	1000	2000	2250	-	1665	-	1695	1755	1000	3400
						D	C2	1000	2000	2250	-	1760	-	1850	1940	1000	3400
		1.6	75			S	L2	1000	2000	2100	-	1700	-	1770	1825	1350	3615
		1.75	75			S	L2	1000	2000	2100	-	1700	-	1770	1825	1460	3745

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. Consult shaft dimensions for 1.6 and 1.75 m/s speed. Shaft dimensions considering a general shaft tolerance of +/- 25 mm on each side.

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.

Main Components

Gearless machine

Gearless PMC125 resp. PMC145-3
The synchronous gearless PMC125 resp. PMC145-3 are one of the most compact machines and is perfectly suited for deployment in the LEA® Standard 200 elevator system with and without machine room.

- High efficiency
- Low noise as there is no forced ventilation and very smooth running
- Safe and comfortable electromagnetic brake release
- Anti-friction bearings with life-time lubrication
- 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

Frequency inverter

Inverter E300/M600
The power-vector-controlled LiftEquip frequency inverter is optimised for the PMC125 resp. PMC145-3 synchronous machines.

- Inverter E300 with power filter and power choke
- Without travel contactors
- Brake resistor in a separate housing
- Stored motor parameters
- Rapid commissioning via Plug&Play
- 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

Doors

Door types and dimensions

		LD10 / CD10			LD20 / CD20					LD20 / CD30					LD20 / CD30 slim	LD30 / CD30				
		L2		C2	L2		L3	C2	C4	L2			C2		L3	L2		C2		C4
Door type		Frame	Full-front	Frame	Frame	Full-front	Frame	Frame	Frame	Frame	Full-front	Glass with frame	Frame	Glass with frame	Frame	Frame	Glass with frame	Frame	Glass with frame	Frame
Opening		side	side	center	side	side	side	center	center	side	side	side	center	center	side	side	side	center	center	center
N# Panels		2	2	2	2	2	3	2	4	2	2	2	2	2	3	2	2	2	2	4
Door width mm	700	•	-	•	•	c.e.	•	•	c.e.	c.e.	c.e.	c.e.	c.e.	c.e.	•	c.e.	c.e.	c.e.	c.e.	c.e.
	800	•	•	•	•	•	•	•	c.e.	•	•	•	•	•	•	•	•	•	•	c.e.
	900	•	•	•	•	•	•	•	c.e.	•	•	•	•	•	•	•	•	•	•	c.e.
	1000	-	-	-	•	•	•	•	c.e.	•	•	•	•	•	•	•	•	•	•	c.e.
	1100	-	-	-	•	-	•	•	c.e.	•	-	-	•	-	•	•	•	•	•	c.e.
Door height mm	2000	•	•	•	•	•	•	•	c.e.	•	•	•	•	•	•	•	•	•	•	c.e.
	2100	•	•	•	•	•	•	•	c.e.	•	-	-	•	-	-	•	•	•	•	c.e.
	2300	-	-	-	•	-	-	•	c.e.	•	-	-	•	-	-	•	•	•	•	c.e.

• Standard / - Not available / c.e. Contract engineering

Scope of Supply and Planning Information

LEA® Standard 200 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 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.

Control box of the control system

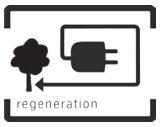
The control box with control system is not included in the scope of supply. It must be provided by the installation firm. The control box is mounted preferably in the top landing of the entrance area. Installation in the landings below this is possible.
The nearest landing door must be located within 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.

Legal information

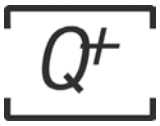
The LEA® Standard 200 elevator system has been granted an EU Type Test Certificate in accordance with Appendix IV, Module B, of 2014/33/EU Directive. Before the commencement of operation, the installation firm must have the elevator system per inspected / approved in an individual inspection with danger 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 200 elevator system. On an order-related, LiftEquip will issue a quota licence.

On the latest stage of technology
The LEA® Standard 200 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 LEA® Standard 200 to make an obvious contribution to reducing regular operating costs and CO_2 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 LEA® Standard 200 a very quiet and comfortable elevator system.

Environmentally friendly production
Throughout the production of the LEA® Standard 200, we ensure that the environment is protected.

Presented by

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More than you expect ... LiftEquip® ELEVATOR COMPONENTS