

Vertical *Intelligence*



Machine-roomless lifts

Speed – 1.2 to 1.75 m/s Loads - 450 to 1.275 kg



Vertical intelligence.

Machine-roomless lifts • From 450 to 1.275 kg

SwiftRise® marks the beginning of a new generation in vertical mobility.

Faster. More powerful. Smarter.

Up to **1275 kg load** and a **revolutionary 1.75 m/s speed** in 1m/s lift shafts.

SwiftRise® redefines the standard without compromising on space. Its advanced design occupies the same usable space **as a conventional 1 m/s lift** providing superior speed and performance, transforming user's experience and optimise vertical traffic management.



SwiftRise is not only a cutting-edge lift.

It is active technology that learns, adapts and evolves with you.

It detects and learns building usage habits; smart manages traffic and displays real-time information during each trip.

Always updated. Always efficient.



Faster. Without taking up more space.

SwiftRise® reaches a speed of 1.75 m/s, but it still occupies the same standard shaft as a conventional 1 m/s speed lift.

More agility. Less wait.

No modification of the building's free space.

Technology that makes a difference

- Energy-efficient and ultra-quiet **gearless traction**.
- **Direct Approach System**.
- **SIL 3 PESSRAL** programmable devices.
- **Machine-learning** technology.
- Exclusive **Varispeed®** technology:
Maximum speed and energy efficiency.



Designed to adapt. **Created to evolve.**

SwiftRise® provides a new level of customisation and flexibility.

Finishes, push buttons, doors, signalisation and displays can be harmoniously adapted to technical, functional and aesthetic requirements of each project.

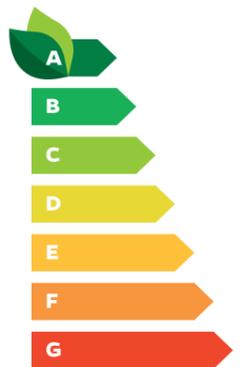
A solution that meets today's needs and is ready for future challenges.

SwiftRise®, a machine-roomless lift combining gearless traction, embedded intelligence and an efficiency level designed for modern architecture.

Superb **sustainability** and **safety**

- Class A energy efficiency.
- Efficient and environmentally friendly gearless traction.
- LED lighting and stand-by mode.

- Manufactured according to ISO 14001.
- SIL 3 safety devices.
- State of the art PESSRAL devices.





Precise structural design.

SwiftRise® incorporates solid, compact and efficient engineering that maximises reliability and comfort on every trip.

Smart integration for full control

- PESSRAL system providing absolute positioning, integrated sensors and advanced programmable logic.
- In-shaft safety devices integrated in one single module that simplifies and reduces installation times.
- **Compatible with all European safety standards:**

- o EN81-20/50
- o EN81-70
- o EN81-28

- o AS1735,12
- o BCA 2022
- o EN81.71 Cat 1.

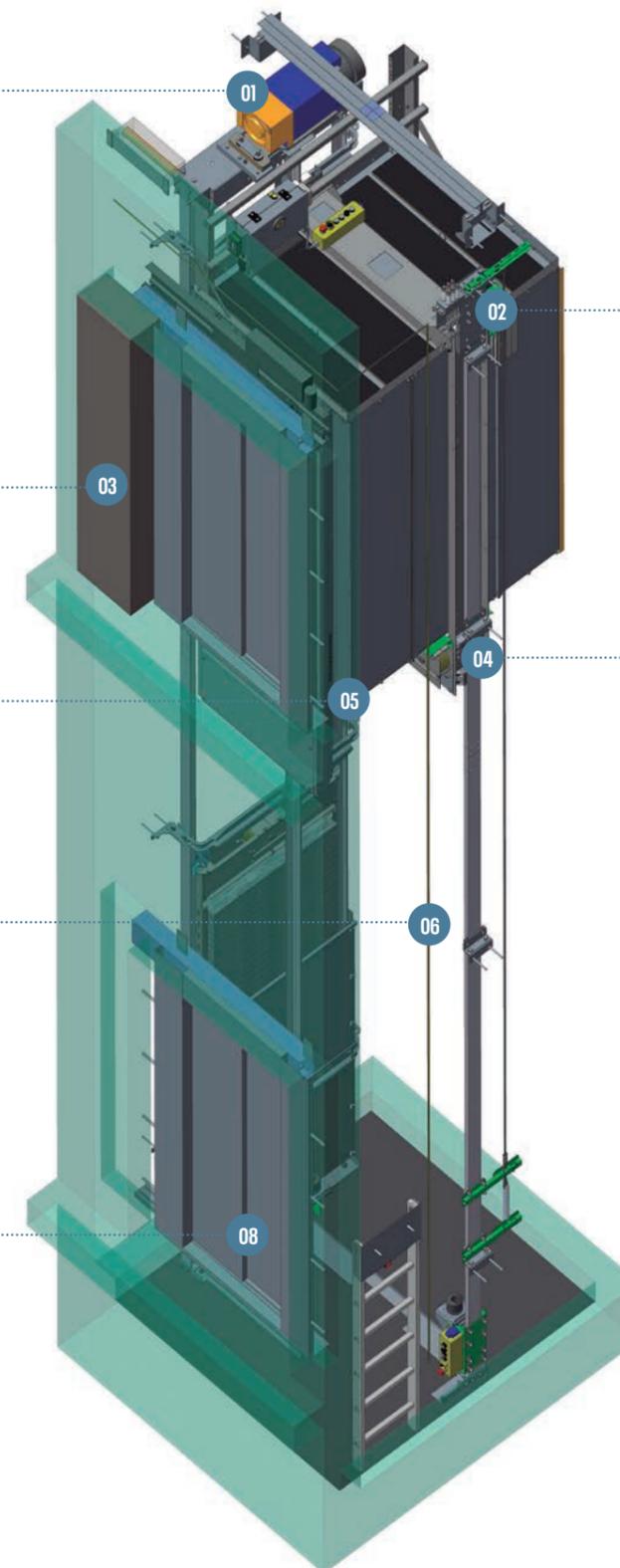
Gearless machine: compact & energy efficient as well as easier to install due to its reduced weight.

New, reduced **control cabinet**.

Absolute positioning of the car in the lift shaft.

The **brushed guide rails** are of the highest quality and are delivered cut to size to suit the particular project.

Automatic fire-rated doors, side or central opening are safe and reliable. Available in brushed stainless steel or epoxy finish.



State-of-the-art **electronic overspeed governor**.

Overspeed governor and traditional safety gear available as extra.

The robust **conventional under-slung sling arrangement** allows for excellent ride quality. A modern **electrically triggered safety gear** replaces the traditional linkage bar mechanism whilst providing a lower tripping speed.

In-shaft safety devices (limit switches, absolute positioning, door zone magnets, final limits) are integrated into a LIMAX Safe device.

The mechanics mentioned above correspond to a SwiftRise® 450 and 630kg



Smart performance. Optimised speed.

SwiftRise® incorporates advanced control technology that automatically adjusts travel speed according to the distance and the conditions of use. This shortens travel time without extra space requirements or compromising comfort.

The exclusive Varispeed® technology:

Varispeed® dynamically adjusts the elevator's speed up to 1.75 m/s and optimised every operating cycle.

With this system, SwiftRise® is the fastest and most efficient elevator in its category, whilst always maintaining the same structural shaft.

LIFT WITH VARISPEED®



HIGHER TRAVEL SPEED*



OPTIMISED ENERGY CONSUMPTION**



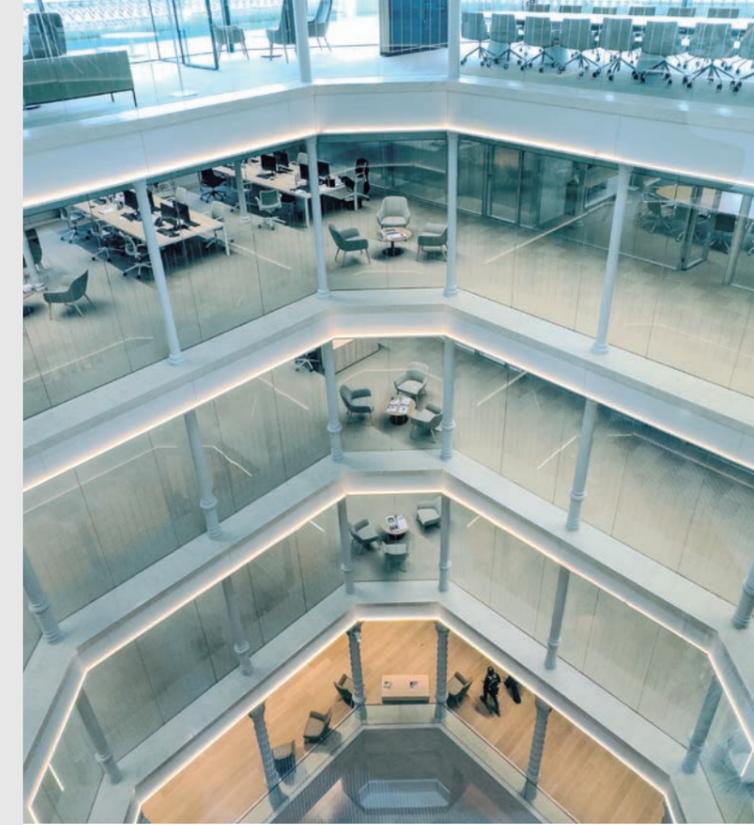
SHAFT CONDITIONING



SMOOTHER TRAVELLING EXPERIENCE

* : based on traffic analysis during the late evening in a residential building with 24m travel, 9 floors and an occupation of 10 people per floor.

** : based on data collected of random traffic in a residential building over 6 floors with 15.5m travel.



Faster. Shorter waiting and traveling times.

Varispeed®, the exclusive **SwiftRise's®** technology, dynamically adapts travel speed according to the distance and conditions of use, thus optimised traveling times without increasing energy consumption or requiring more installation space.

Travel speed increased by 75%

Varispeed® technology increases speed in 1 m/s shafts with no shaft modifications and reduces travel time up to 40%.

Power consumption optimised up to 5%.

Dynamic speed control improves efficiency and reduces energy consumption up to 5% compared to a conventional lift.

Zero remodelling and no additional work

The performance improvement of the lift is incorporated into the same building shaft. No refurbishment required to gain more space.

+ Comfort. Smoother and more precise experience

Smoother comfort profiles. Direct approach to floors. Optimal car-to-landing stopping accuracy. Less waiting time.



Fully adapted to the space.

Available space does not limit us, it inspires us.

SwiftRise® can be installed in shafts of any width and depth in 10 cm intervals. A barrier free technology.

Instead of fixed standards, **SwiftRise®** offers complete freedom.

Since it can be structurally adapted every 10 cm, **SwiftRise®** opens possibilities for every shaft and turns every lift into a unique solution.

Its clever mechanical design gives the possibility of:

- Taking the most of each available centimetre, even in existing buildings.
- Avoiding expensive structural or architectural refurbishments.
- Designing customised lifts for special and unique projects or for projects that are outside the ordinary technical requirements.



Advanced technical options and enhanced safety.

Technology adaptable to each project.

- **Equipped with traction machines** from a choice of several **leading brands**.
- **Fermator** and **Wittur doors** available.
- **Special car** decorations available **outside the standard catalogue**.
- The only lift that offers **1.75 m/s speed with no additional space required**.



Travel comfort at the highest level.

Thanks to advanced technology and meticulous engineering design, **SwiftRise®** offers outstanding performance in terms of travel comfort and smoothness.

A95 values that go beyond the most rigorous standards and guarantee a remarkably comfortable and stable travel experience.

Passenger comfort as a priority.

Smooth acceleration and braking:
Less sudden movements, improved sensation of stability.

Optimises vibrations:
No jolts ensure a more enjoyable ride.

State-of-the-art system:
Conveys a sensation of continuous sliding without interruptions.

	Horizontal vibrations	Vertical vibrations
S = 1,2 m/s	3 ± 3 mg	10 ± 3 mg
S = 1,75 m/s	5 ± 3 mg	12 ± 3 mg

*ISO A95 values measured in standard real lift facilities with guide shoes. Values might vary depending on the shaft and the installation.



A smart way to move.

SwiftRise® is a smart, connected lift with capacity to learn and improve user's experience throughout all its service life.

Remote maintenance and telemetry available through connectivity thanks to **IMEM's Smart City Technology**.

Equipped with **PESSRAL*** programmable devices that provide absolute positioning using the latest magnetic technology:

It eliminates many conventional mechanical components and provides a more precise control of the lift, mainly with regards to safety.

*The PESSRAL system is designed for control, protection or monitoring based on one or more programmable electronic devices, including system elements such as power supplies, sensors and other input devices, data highways and communication gear, and actuators and other output devices, used in safety-related applications.



Interior architecture at the service of users

Each detail of **SwiftRise®** has been designed to provide a more intuitive, comfortable and immersive travel experience.

Starting with the materials and textures used, and including the lighting and its quiet traction system; everything adds up creating a functional and pleasing surrounding adapted to the style of each space.

Car, push-buttons and indicators designed to optimize usability, improve space perception and enhance comfort standard during each travel.

200R Series

Sturdy and versatile cars that adapt to any architectural space.

The **200 R Series** has been designed to provide durability, style and functionality to every project. Manufactured with galvanised steel and clad with high-quality laminates that offer the possibility of customise the appearance as well as the performance of the lift.

- Different options of **direct LED** spotlights.
- Stainless steel **lift-car doors** and front returns with different finishes available.
- BCR1 **operating panel** with 7" TFT colour indicator (other operating panels also available).
- Optional **skirting** in anodised aluminium finish.
- **Car floors** available in hard-wearing polymer.
- **Handrails** finished in AISI 304 stainless steel.
Lift car also available with handrails on all walls or without any handrail.
- **Mid-height mirror**, integrated with a functional design.
- **Designed** in full accordance with 2014/33/EU Directive, EN 81-20, EN 81-50 and EN 81-70.



R ST Series

Robustness and modern aesthetics in stainless steel.

The **R ST Series** cars are entirely built of stainless-steel plates of different textures that have been designed to withstand intensive use without sacrificing a beautiful appearance.

- Different options of **direct LED** spotlights.
- Sturdy stainless-steel **lift-car doors** and front returns with a functional design.
- BCR2 **operating panel** with 7" TFT colour indicator (other operating panels also available).
- Optional **skirting** in anodised aluminium finish.
- **Car floors** available in hard-wearing polymer (other finishes also available under request).
- **Handrails** finished in AISI 304 stainless steel.
Lift car also available with handrails on all walls or without any handrail.
- **Mid-height mirror**, stylish and functional.
- **Designed** in full accordance with 2014/33/EU Directive, EN 81-20:2014, EN 81-50:2014 and EN 81-70:2018.



300R Series

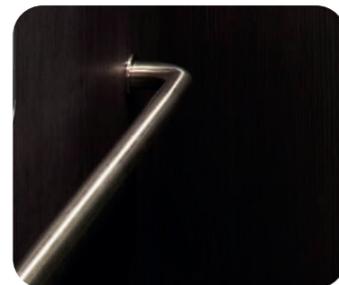
Sophisticated design with top technical features.

The **SwiftRise 300 R Series** lift cars are built with galvanised steel sheeting and clad with high pressure laminates in a wide range of colours.

- Different options of **direct LED** spotlights.
- Stainless steel **lift-car doors** and front returns.
- BCR2 **operating panel** with 7" TFT colour indicator (other operating panels also available).
- Optional **skirting** in anodised aluminium.
- **Car floors** in hard-wearing polymer.
- **Handrails** in AISI 304 stainless steel.
Lift car also available with handrails on all walls or without any handrail.
- Stylish **high mirror**.
- **Designed** in full accordance with 2014/33/EU Directive, EN 81-20, EN 81-50 and EN 81-70.

Lift car's real internal dimensions with decoration 300 will be less than what shown in our drawings/charts.

EN81:20, EN 81:70 and AS1735-12 norms state that internal lift car measurements are to be calculated between structural walls, allowing surface reductions caused by the different wall finishes. 300R's decoration complies with the above mentioned norms.

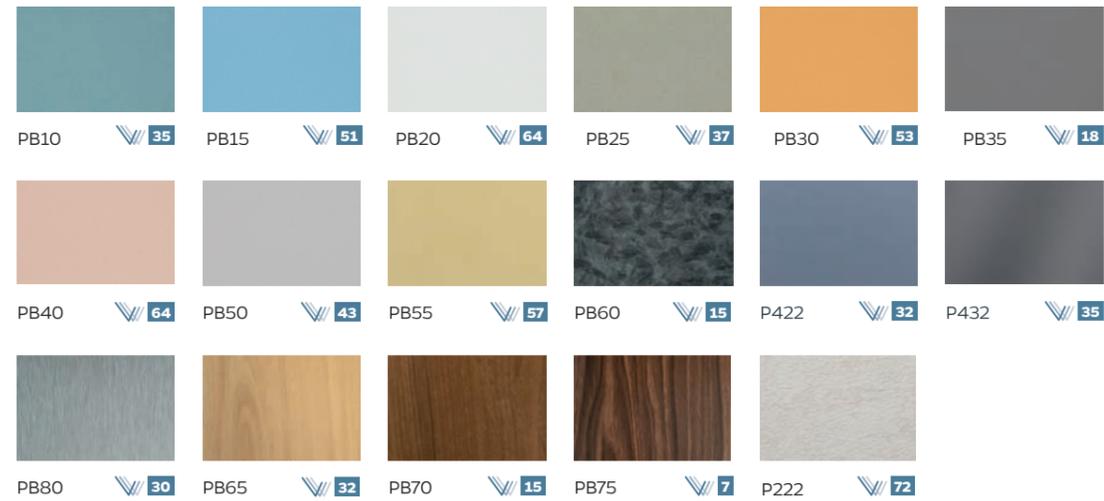




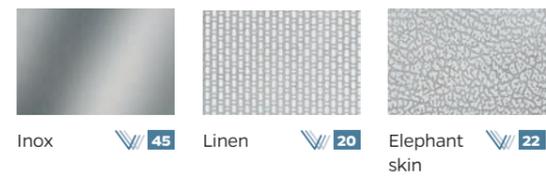
Car wall panels

Light Reflectance Value

200 Revolution® Series · Skinplate



Revolution Series ST® · Stainless steel



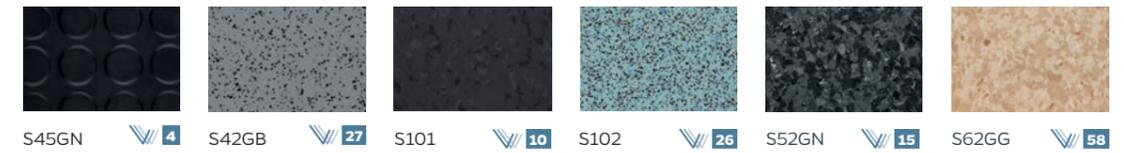
300® Revolution Series · High-pressure laminates



Flooring

Light Reflectance Value

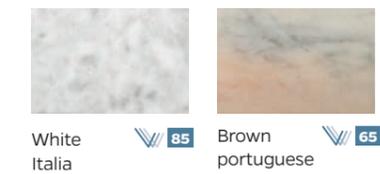
Rubber



Granite



Marble



Stainless steel



Aluminium

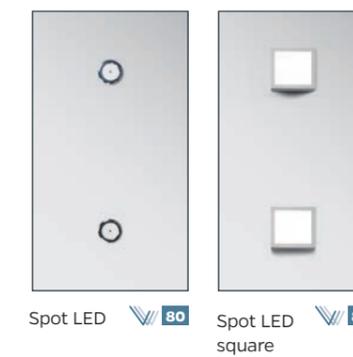
Local flooring preparation 25mm available on request.



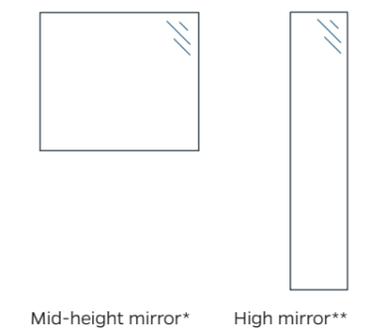
Handrails



Lighting



Mirrors

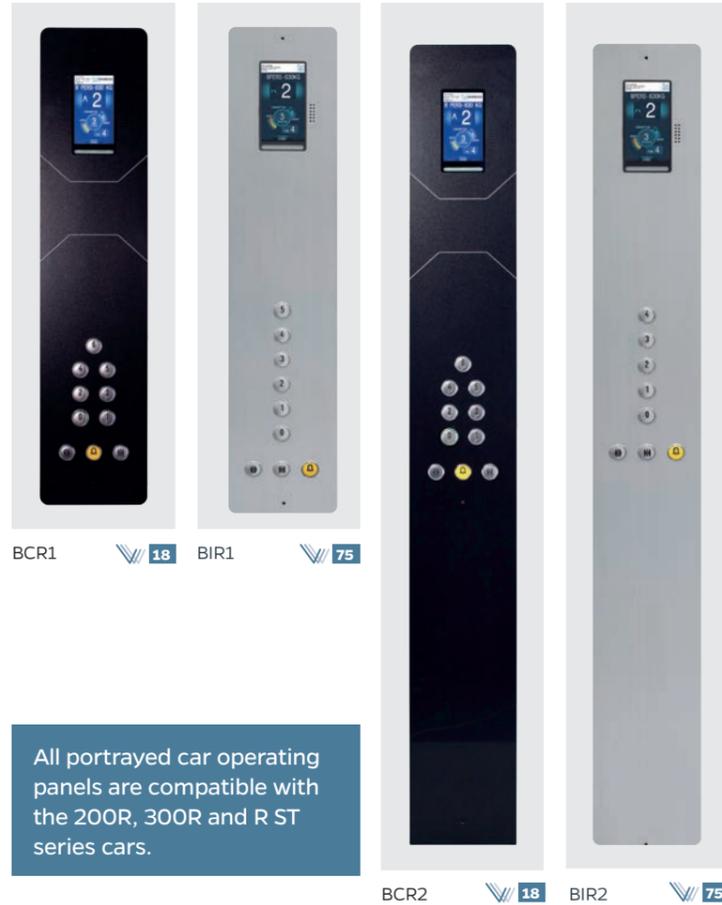


*Wide safety mirror from above the handrail to ceiling
 ** Tall safety mirror from skirting level to ceiling



Car operating panels, landing push stations & indicators

Car operating panels



BCR1 18 BIR1 75

BCR2 18 BIR2 75

All portrayed car operating panels are compatible with the 200R, 300R and R ST series cars.

Car push-buttons



PCEB^(*) US91^(**) PCMT^(**)

* Stainless steel push buttons with tactile legend and Braille (EN81-70 compliant).

** For BIR1 and BIR2 panels only.

*** Push buttons US91, 10 floor limit.

Car display



Smartech (7")

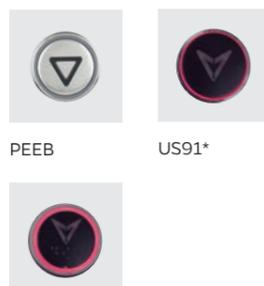
Landing Push Stations



BER1* BER2** BER3***

* Push buttons installed directly in the door frame.
** Flush mounted on door frame.
*** Surface mounted on door frame.

Landing push buttons



PEEB PCMT**

* Only for BER2 push station.
** Only for BER2 and BER3 push stations

Landing indicators



Display Smartech HR*

HLER - Car**

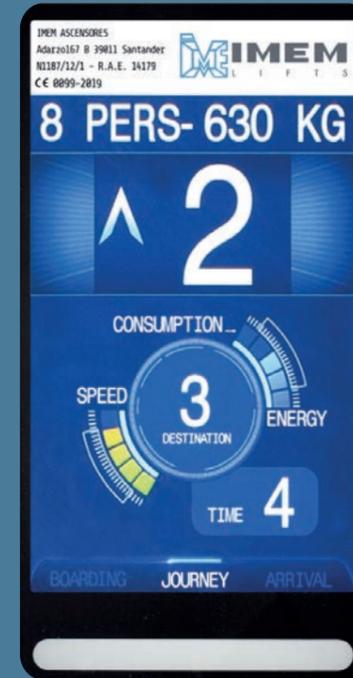


FERV

*Option EN81-70: with "next direction arrow" and gong
** EN81-70

Lift Car Smartech Display

Advanced information in real time.



The Smartech system incorporates a TFT screen that provides all relevant travel information, with a clear, modern and highly functional display.

Lift availability before travel. The screen tells you if the lift is available for use.

Smartech AutoTest Function. Checks and displays the correct functioning of the safety components and system before the start of each journey.

Position & direction. Shows the location of the lift within the building at all times, as well as direction of travel.

Destination floor & time remaining before arrival. Indicates the floor to which the lift is travelling and the time remaining before arrival, expressed in seconds.

Speed. Passengers are kept informed in real time of the car's speed on each journey, from departure until arrival at the destination floor.

Energy consumption. Indicates if the lift is consuming energy or generating it during travel, thereby reducing the building's operating costs.

Arrival at destination floor alert. Informs passengers when the lift reaches the destination floor.

Date & time. Displays the time and date in real time.

Load & passenger capacity. Indicates the maximum permissible load, in kilograms, and the maximum number of passengers that can travel in the lift car.

Floor Smartech HR Lite Display *



*Optional

Welcome messages. The screen greets passengers with messages corresponding to the particular time of day.

Position & direction. Indicates to passengers waiting on a landing the location of the car and its direction of travel in real time.

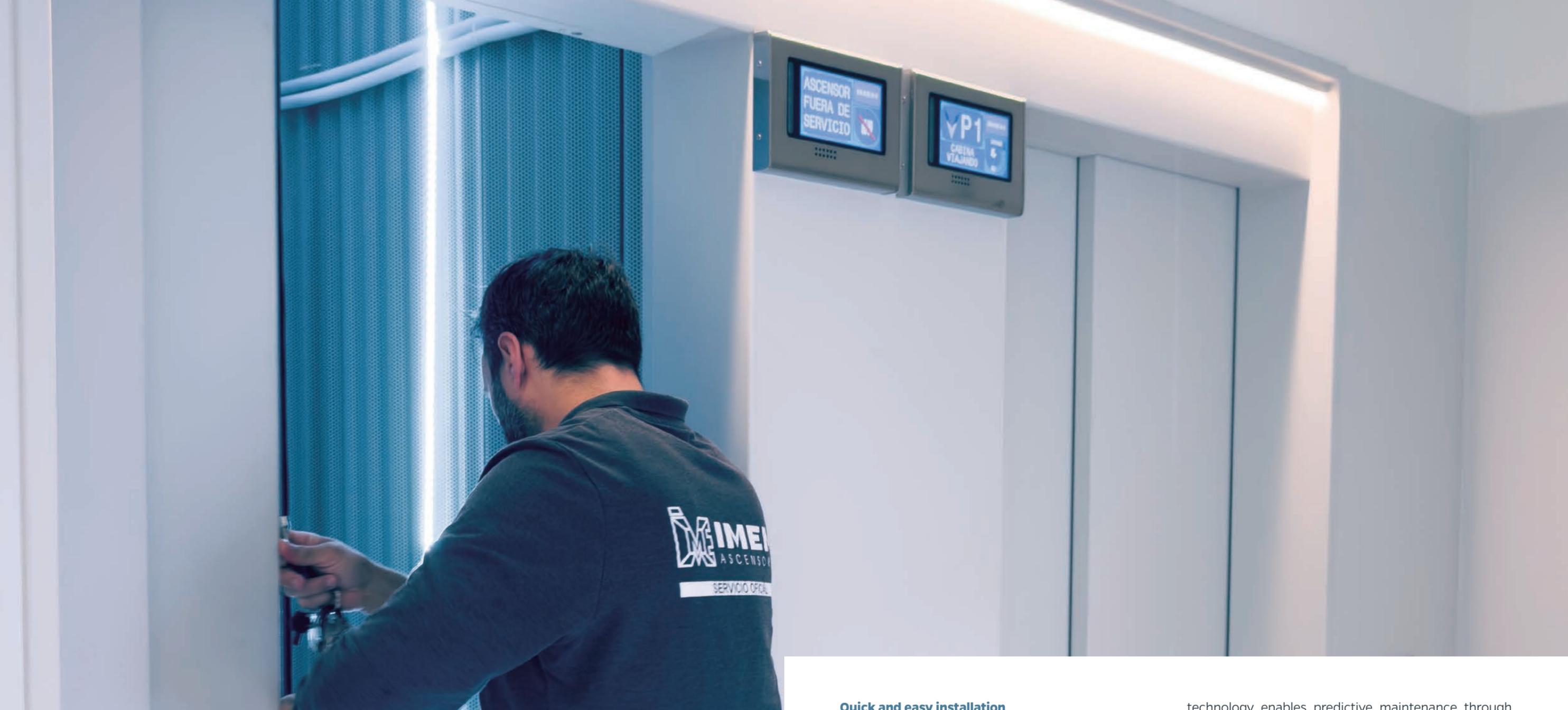
Flashing LED display by the lift entrance. Alerts passengers to the imminent arrival of the lift.

Situation reports. The display transmits relevant information to passengers: such as when there are too many people in the lift car, when the lift door is blocked and when people are entering or leaving the car, among others.

Lift arrival countdown. The display shows a progress bar and countdown in seconds, accurately updated in real time, so that passengers know exactly when their lift will arrive.

Energy consumption. Indicates if the lift is consuming energy or generating it during travel, thereby reducing the building's operating costs.

Voice messages. The screen device shares travel information with passengers via a voice synthesiser built into the door frame. Its volume is automatically adjusted according to the particular time of day.



Designed with installers in mind.

SwiftRise® has been designed considering the real needs of installation and maintenance companies, providing practical solutions throughout the working life of the lift.

Optimised packaging

SwiftRise® is delivered within a packaging organized and labelled for maximum ease of installation.

All the components and parts are delivered in a logically-organised series of packs that are clearly identified and strictly ordered according to their place in the installation sequence.

The system comes with all the detailed checklists, documents and installation manuals required for an efficient and error-free start-up.

Quick and easy installation

SwiftRise® can be installed in under 90 hours thanks to its refined design made for efficient installation.

Plug & Play System

Our electrical packages are supplied pre-tested and pre-wired to the specific gearless machine that is shipped with the lift, eliminating any margin of error and saving time on site.

Automatic synchronization

The gearless machine and the VF drive synchronize automatically avoiding adjustment processes and their associated costs.

Easy to maintain

Maintenance operations are quick, safe and straightforward. IoT based **MEM Smart City**

technology enables predictive maintenance through telemetry and remote management.

Real time technical support

Our highly qualified technical team (mechanical or electrical) is available to assist customers in real time and in their own language.

Spare parts guaranteed

Full traceability and availability of original spare parts installed.

Fast delivery

Once an order has been confirmed, **SwiftRise®** can be delivered in just 6 weeks.

SwiftRise Core: The system's smart brain.

SwiftRise® Core is the control system developed by **IMEM** to manage, with maximum precision, all the actions of the **SwiftRise®** lift.

It is the nerve centre of the system, integrating intelligence, connectivity and speed like never before.

It can reach 1.75 m/s in 1 m/s shafts, with no shaft modifications required and includes advanced connectivity that facilitates lift's maintenance and control.

Fully integrated

SwiftRise® Core provides a perfect integration with mechanical and electrical components of the lift. Minimises the sensors required, simplifies installation and reduces energy consumption.

- Drastic reduction of installation time

- Advanced control, safety and efficiency features

Easy to install, with no room for error

It is supplied pre-assembled, preconnected and pre-tested.

It integrates a software that allows a single person to perform a levelling operation in minutes and from inside the lift car.

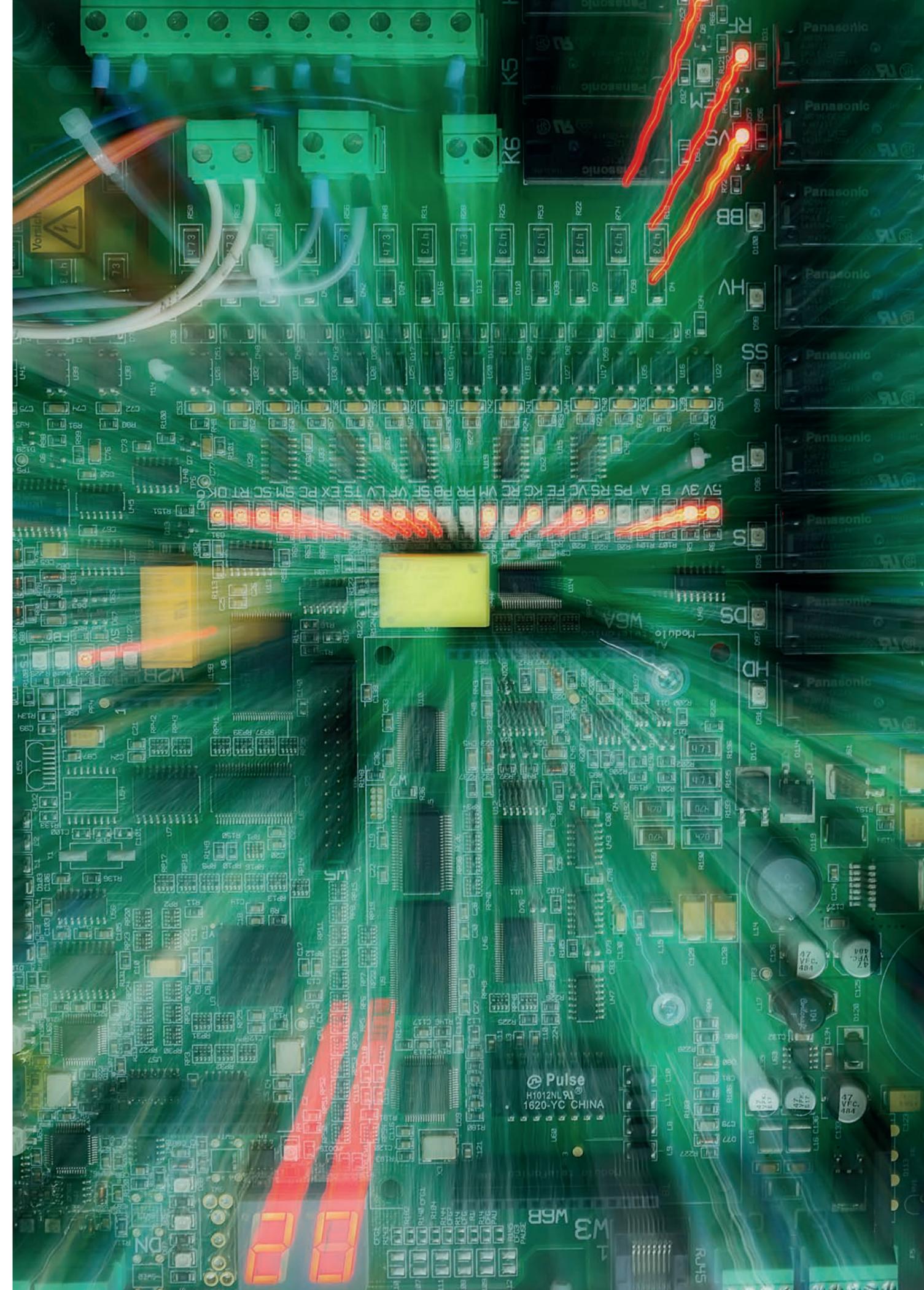
Full manufacturing, full support

IMEM manufactures electrical and mechanical components, therefore we do not only deliver lifts, but integrated technical solutions that are 100% compatible.

We provide specialised support that begins with the design of the project and continues with maintenance, saving time and ensuring excellent performance throughout the lift's working life.

- Compatible with simple as well as complex configurations

- It eliminates the need of traditional sensors and magnets





IMEM SMART CITY, IOT technology for IMEM lifts.

IMEM Smart City is a connectivity platform for lifts based on cloud IoT technology that can be accessible from any internet-connected device. We have developed it using our experience as designers, manufacturers, installers and maintenance technicians. IMEM Smart City opens a new era in elevator lift work.

- **Comprehensive information** available regarding the portfolio of installed lifts.
- **Dashboard** providing **real time status** regarding the **quality of service** of the lifts portfolio and statistics.
- **Satellite map** GPS Location of the lift and **real time** access to the route and the situation of traffic in such location.
- **Multiple performance** and **service quality indicators** available.
- **Date of the last intervention** performed.
- **Access to the lift's complete technical documentation** (manuals, diagrams, drawings, certificates, etc.).
- **Real time** monitoring of the lift's performance through a **user-friendly interface**

Remote diagnostics with:

- I. Access to the **troubleshooting system** of potential causes and solution proposals.
 - II. Access to the **log of the events** that took place before an incident.
 - III. Possibility of **log recording during lift traffic**.
- **Real time e-mail notification** with information regarding **alerts, alarms and** their resolution.
 - **Our technical support department** can also take action (**upon request**).
 - **Optional remote control system software update** (over the air).
 - Also available for **pre-existent lifts** with **no wiring modifications required**.



Operational and service functions

Direct approach

The lift approaches the floor to stop gently at the floor level. The position of the car is calculated at all times without the need for magnets.

Homing Mode

The lift car returns to the specified homing floor. You can set any floor as the return floor.

Maximum no. of calls

Limited number of car calls registered. Anti-vandal mode.

Fire control

In the event of a fire, a control is activated that sends the lift to the fire emergency floor. If the lift is going away from the fire emergency floor, it will stop at the first possible stop and without opening the doors, it will return to the fire emergency floor. If the lift is going in the direction of the fire emergency floor, it will not stop until it arrives at that floor. This complies with EN81-73. When this movement is completed, it can return to normal operation by means of reset or not.

Stand-by mode

Disconnects the lighting inside the car as well as the car and landing displays, thus reducing the electrical consumption of the lift.

Car fan

There is a timer to activate/deactivate the fan.

Service control keyswitch

Only calls made from the car operating panel are registered.

Seismic sensor

The equipment is delivered ready for the installation of a seismic sensor

Multiple movement functions

Multiple

A group of up to 4 lifts can be controlled.

Limited out of service

Allows a group of lifts to self-manage a singular lift with continuous faults and leave it out of service whilst other lifts handle calls.

Standard Function Optional Function



Door operation functions

Fast closing of doors

This allows the time between stops to be shortened by means of a push button in the car that can be activated if there are car calls registered.

Nudge

The doors close slowly in the event of a prolonged interruption of the safety edge, notifying the persons in the car visibly and/or acoustically.

Safety edge

Safety edge according to EN81-20.

Self-diagnosing safety edge

Autodiagnosis of the safety edge in which the door sensors are automatically checked.



Signalisation and indicator functions

Departure Gong, ascending and descending tones - EN81-70 -

Activates a sound with an ascending scale for ascent and a descending scale for descent.

Overload function

The display gives a visual and audible indication to the users of overloading inside the car.

Voice synthesiser

This is a voice synthesiser that emits informative messages concerning the operation of the lift.



Emergency operation functions

Manual rescue

Manual rescue can be of two types, one by opening the brake and car movement subject to the balance of the car or by means of a high power UPS and directional push buttons that raise or lower the lift.

Emergency ceiling light in car

In the event of a power cut, an emergency light in the car operating panel illuminates in accordance with EN81-20.

Automatic rescue device

The automatic rescue operation is carried out via a UPS whereby the lift will park at the most favorable floor with the doors open.

Overspeed governor limiter and traditional safety gear

RATED LOAD · 450kg / 6 people ROPING · 2:1 MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

Entrances	Car		Shaft		Door type (C/O)	Min. Headroom CH 2175mm	Pit
	Angle	Width (A)	Depth (B)	Width (C)			
1/0°	950	1300	1450	1565	Side opening 2P 800 (FERMATOR COMPACT)	3400	1050
2/180°	950	1300	1450	1690			
1/0°	1000	1200	1500	1465			
2/180°	1000	1200	1500	1590			
1/0°	1000	1250	1500	1515			
2/180°	1000	1250	1500	1640			
1/0°	1000	1300	1500	1565	Central 2P 800 (FERMATOR COMPACT)	3400	1050
2/180°	1000	1300	1500	1690			
1/0°	1050	1200	1550	1465			
2/180°	1050	1200	1550	1590			
1/0°	950	1300	1750	1530			
2/180°	950	1300	1750	1618			
1/0°	1000	1200	1750	1430	Central 2P 800 (FERMATOR COMPACT)	3400	1050
2/180°	1000	1200	1750	1518			
1/0°	1000	1250	1750	1480			
2/180°	1000	1250	1750	1568			
1/0°	1000	1300	1750	1530			
2/180°	1000	1300	1750	1618			
1/0°	1050	1200	1750	1430	Central 2P 800 (FERMATOR COMPACT)	3400	1050
2/180°	1050	1200	1750	1518			

RATED LOAD · 630kg / 8 people ROPING · 2:1 MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

Entrances	Car		Shaft		Door type (C/O)	Min. Headroom CH 2175mm	Pit
	Angle	Width (A)	Depth (B)	Width (C)			
1/0°	1050	1450	1550	1715	Side opening 2P 800 (FERMATOR COMPACT)	3400	1050
2/180°	1050	1450	1550	1840			
1/0°	1100	1400	1600	1665			
2/180°	1100	1400	1600	1790			
1/0°	1150	1350	1650	1615			
2/180°	1150	1350	1650	1740			
1/0°	1100	1400	1600	1665	Side opening 2P 900 (FERMATOR COMPACT)	3400	1050
2/180°	1100	1400	1600	1790			
1/0°	1150	1350	1650	1615			
2/180°	1150	1350	1650	1740			
1/0°	1050	1450	1750	1680			
2/180°	1050	1450	1750	1768			
1/0°	1100	1400	1750	1629	Central 2P 800 (FERMATOR COMPACT)	3400	1050
2/180°	1100	1400	1750	1718			
1/0°	1150	1350	1750	1580			
2/180°	1150	1350	1750	1668			
1/0°	1100	1400	1950	1629			
2/180°	1100	1400	1950	1718			
1/0°	1150	1350	1925	1580	Central 2P 900 (FERMATOR COMPACT)	3400	1050
2/180°	1150	1350	1925	1668			

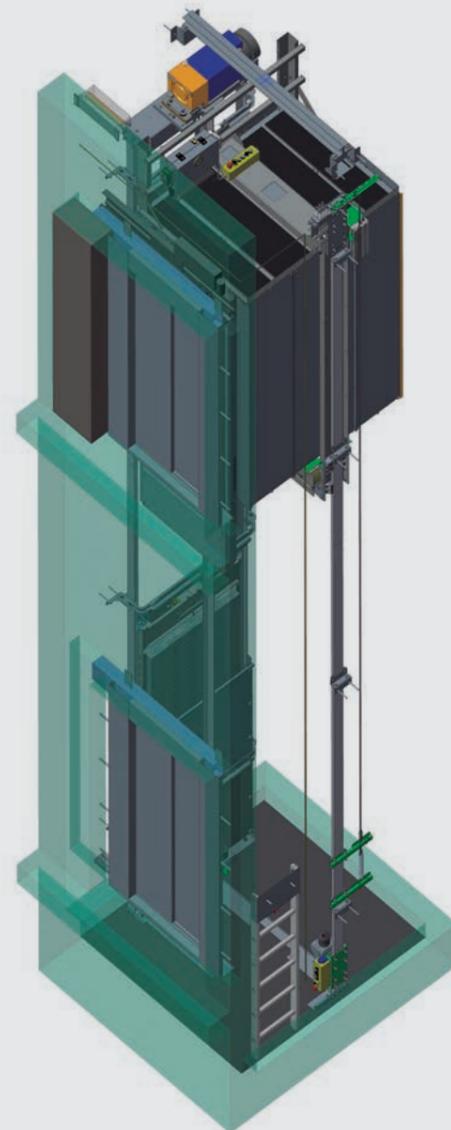
All dimensions are based on the door sill being 25mm inside the lift shaft.

- EN81-70: T1 car dimensions
- EN81-70: T2 car dimensions
- EN81-70: T2 car dimensions with a 800mm C/O only for existing buildings.

Operational ranges (standard arrangement)

Maximum travel	Up to 60 m (Maximum 15 floors)
	Pit Minimum: 1050 mm · Maximum: 1550 mm
	Headroom Minimum: 3400mm (CH 2175mm) and 3500mm (CH 2275mm)
	Minimum width Car width + 500 mm
Shaft	Maximum width Car width + 1100mm
	With Fermator Compact 2HT doors inside the shaft (only sills) add 85mm per door.
	With Fermator Compact 2HC doors inside the shaft (only sills) add 49mm per door.
	Option for doors completely in the shaft.
	Shaft width tolerance -10/+50mm
	Shaft depth tolerance with single entry 0° -10/+infinite mm
Car	Shaft depth tolerance with through car 180° -0/+30 mm
	Minimum depth 1200 mm
	Maximum depth 1450 mm
	Minimum width 950 mm
	Maximum width 1150 mm
Standard height 2175mm with 2000mm high doors (option for 2275mm with 2100mm high doors)	

Mechanics 450 · 630 Kg



RATED LOAD · 630kg / 8 people

ROPING · 2:1

MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

Entrances Angle	Car		Shaft		Door type (C/O)	Min. Headroom CH 2175mm	Pit
	Width (A)	Depth (B)	Width (C)	Depth (D)			
1 / 0°	1100	1400	1600	1665	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1400	1600	1790			
1 / 0°	1100	1400	1750	1629	Central 2P 800 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1400	1750	1718			
1 / 0°	1100	1400	1950	1629	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1400	1950	1718			

RATED LOAD · 700kg / 9 people

ROPING · 2:1

MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

Entrances Angle	Car		Shaft		Door type (C/O)	Min. Headroom CH 2175mm	Pit
	Width (A)	Depth (B)	Width (C)	Depth (D)			
1/0°	1100	1500	1600	1765	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2/180°	1100	1500	1600	1890			
1/0°	1200	1400	1700	1665	Central 2P 800 (FERMATOR COMPACT)	3450*	1050
2/180°	1200	1400	1700	1790			
1/0°	1100	1500	1750	1730	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2/180°	1100	1500	1750	1818			
1/0°	1200	1400	1750	1630	Central 2P 800 (FERMATOR COMPACT)	3450*	1050
2/180°	1200	1400	1750	1718			
1/0°	1100	1500	1950	1730	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2/180°	1100	1500	1950	1818			
1/0°	1200	1400	1950	1630	Central 2P 1000 (FERMATOR COMPACT)	3450*	1050
2/180°	1200	1400	1950	1718			

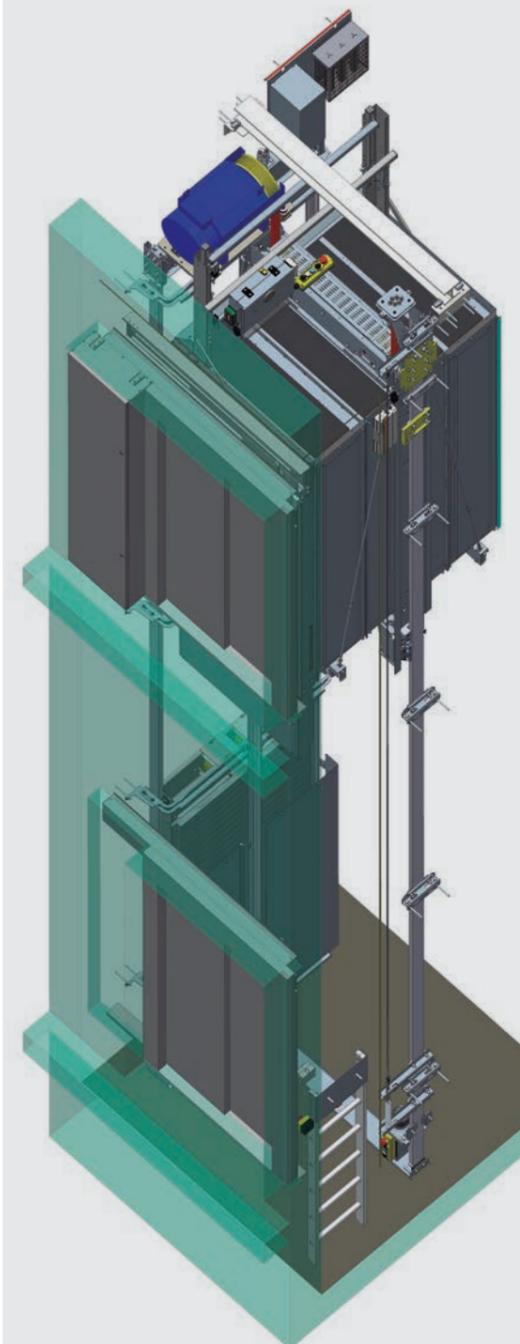
RATED LOAD · 800kg / 10 people

ROPING · 2:1

MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

Entrances Angle	Car		Shaft		Door type (C/O)	Min. Headroom CH 2175mm	Pit
	Width (A)	Depth (B)	Width (C)	Depth (D)			
1 / 0°	1100	1600	1600	1865	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1600	1600	1990			
1 / 0°	1100	1700	1600	1965	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1700	1600	2090			
1 / 0°	1100	1800	1600	2065	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1800	1600	2190			
1 / 0°	1200	1500	1700	1765	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1200	1500	1700	1890			
1 / 0°	1200	1600	1700	1865	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1200	1600	1700	1990			
1 / 0°	1300	1400	1800	1665	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1400	1800	1790			
1 / 0°	1300	1500	1800	1765	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1500	1800	1890			
1 / 0°	1400	1400	1900	1665	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1400	1400	1900	1790			
1 / 0°	1100	1600	1750	1830	Central 2P 800 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1600	1750	1918			
1 / 0°	1100	1700	1750	1930	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1700	1750	2018			
1 / 0°	1100	1800	1750	2030	Central 2P 800 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1800	1750	2118			
1 / 0°	1200	1500	1750	1730	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1200	1500	1750	1818			
1 / 0°	1200	1600	1750	1830	Central 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1200	1600	1750	1918			
1 / 0°	1300	1400	1950	1630	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1400	1950	1718			
1 / 0°	1300	1500	1950	1730	Central 2P 800 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1500	1950	1818			
1 / 0°	1400	1400	1950	1630	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1400	1400	1950	1718			
1 / 0°	1300	1400	2150	1630	Central 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1400	2150	1718			
1 / 0°	1300	1500	2150	1730	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1500	2150	1818			
1 / 0°	1400	1400	2150	1630	Central 2P 800 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1400	1400	2150	1718			

Mechanics 630, 700, 800, 900, 1000, 1250 Kg and 1275



NOTES

All car dimensions comply with EN81-70 T2.

The table is based on **Fermator Compact** doors mounted on the landing (the sill is placed 25mm inside the shaft).

The dimensions shown in the tables correspond to configurations with standard 200R, R ST, and 300R all car.

RATED LOAD · 900kg / 12 people

ROPING · 2:1

MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

Entrances Angle	Car		Shaft		Door type (C/O)	Min. Headroom CH 2175mm	Pit
	Width (A)	Depth (B)	Width (C)	Depth (D)			
1 / 0°	1100	1900	1600	2165	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1900	1600	2290			
1 / 0°	1200	1700	1700	1965	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1200	1700	1700	2090			
1 / 0°	1300	1600	1800	1865	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1600	1800	1990			
1 / 0°	1400	1500	1900	1765	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1400	1500	1900	1890			
1 / 0°	1500	1400	2000	1665	Central 2P 800 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1500	1400	2000	1790			
1 / 0°	1100	1900	1750	2130	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1900	1750	2218			
1 / 0°	1200	1700	1750	1930	Central 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1200	1700	1750	2018			
1 / 0°	1300	1600	1950	1830	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1600	1950	1918			
1 / 0°	1400	1500	1950	1730	Central 2P 800 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1400	1500	1950	1818			
1 / 0°	1400	1500	2050	1630	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1400	1500	2050	1718			
1 / 0°	1300	1600	2150	1830	Central 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1600	2150	1918			
1 / 0°	1400	1500	2150	1730	Central 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1400	1500	2150	1818			
1 / 0°	1500	1400	2150	1630	Central 2P 800 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1500	1400	2150	1718			

* A 3400mm headroom can be achieved if the lifting beam is removed once the installation is completed.

RATED LOAD · 1000kg / 13 people

ROPING · 2:1

MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

Entrances Angle	Car		Shaft		Door type (C/O)	Min. Headroom CH 2175mm	Pit
	Width (A)	Depth (B)	Width (C)	Depth (D)			
1 / 0°	1100	2000	1600	2265	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	2000	1600	2390			
1 / 0°	1100	2100	1600	2365	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	2100	1600	2490			
1 / 0°	1200	1800	1700	2065	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1200	1800	1700	2190			
1 / 0°	1200	1900	1700	2165	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1200	1900	1700	2290			
1 / 0°	1200	2000	1700	2265	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1200	2000	1700	2390			
1 / 0°	1300	1700	1800	1965	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1700	1800	2090			
1 / 0°	1300	1800	1800	2065	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1800	1800	2190			
1 / 0°	1400	1600	1900	1865	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1400	1600	1900	1990			
1 / 0°	1400	1700	1900	1965	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1400	1700	1900	2090			
1 / 0°	1500	1500	2000	1765	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1500	1500	2000	1890			
1 / 0°	1500	1600	2000	1865	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1500	1600	2000	1990			
1 / 0°	1600	1400	2100	1665	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1600	1400	2100	1790			
1 / 0°	1600	1500	2100	1765	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1600	1500	2100	1890			
1 / 0°	1600	1600	2100	1865	Side opening 2P 800 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1600	1600	2100	1990			
1 / 0°	1100	2000	1750	2230	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	2000	1750	2318			
1 / 0°	1100	2100	1750	2330	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	2100	1750	2418			
1 / 0°	1200	1800	1750	2030	Side opening 2P 1000 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1200	1800	1750	2118			
1 / 0°	1200	1900	1750	2130	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1200	1900	1750	2218			
1 / 0°	1200	2000	1750	2230	Side opening 2P 800 (FERMATOR COMPACT)		

RATED LOAD • 1050kg / 14 people **ROPING • 2:1** **MAXIMUM SPEED • 1.2 m/s or 1,75 m/s**

Entrances Angle	Car		Shaft		Door type (C/O)	Min. Headroom CH 2175mm	Pit
	Width (A)	Depth (B)	Width (C)	Depth (D)			
1 / 0°	1250	1900	1750	2165	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1250	1900	1750	2290			
1 / 0°	1250	1900	1750	2129	Side opening 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1250	1900	1750	2218			
1 / 0°	1250	1900	1950	2165	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1250	1900	1950	2290			
1 / 0°	1250	1900	2200	2129	Central 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1250	1900	2200	2218			

RATED LOAD • 1125kg / 15 people **ROPING • 2:1** **MAXIMUM SPEED • 1.2 m/s or 1,75 m/s**

Entrances Angle	Car		Shaft		Door type (C/O)	Min. Headroom CH 2175mm	Pit
	Width (A)	Depth (B)	Width (C)	Depth (D)			
1 / 0°	1300	1900	1800	2165	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1900	1800	2290			
1 / 0°	1300	1900	1800	2165	Side opening 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1300	1900	1800	2290			
1 / 0°	1300	1900	1950	2129	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1300	1900	1950	2218			
1 / 0°	1300	1900	2200	2129	Central 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1300	1900	2200	2218			

RATED LOAD • 1250kg / 16 people **ROPING • 2:1** **MAXIMUM SPEED • 1.2 m/s or 1,75 m/s**

Entrances Angle	Car		Shaft		Door type (C/O)	Min. Headroom CH 2175mm	Pit
	Width (A)	Depth (B)	Width (C)	Depth (D)			
1 / 0°	1350	2000	1850	2265	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1350	2000	1850	2390			
1 / 0°	1350	2000	1850	2265	Side opening 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1350	2000	1850	2390			
1 / 0°	1350	2000	1950	2229	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1350	2000	1950	2318			
1 / 0°	1350	2000	2200	2229	Central 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1350	2000	2200	2318			

RATED LOAD • 1275kg / 17 people **ROPING • 2:1** **MAXIMUM SPEED • 1.2 m/s or 1,75 m/s**

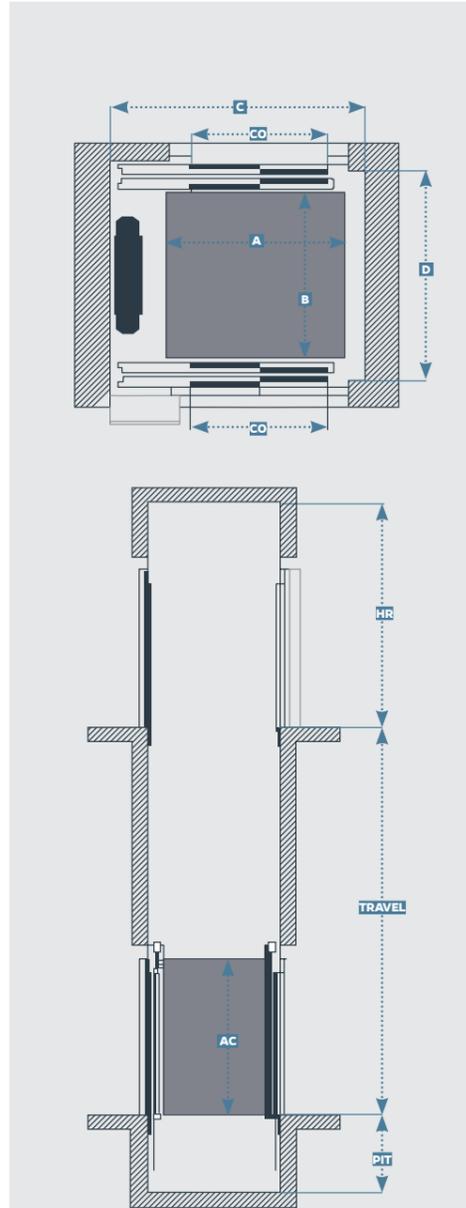
Entrances Angle	Car		Shaft		Door type (C/O)	Min. Headroom CH 2175mm	Pit
	Width (A)	Depth (B)	Width (C)	Depth (D)			
1 / 0°	1400	2000	1900	2265	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1400	2000	1900	2390			
1 / 0°	1400	2000	1900	2265	Side opening 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1400	2000	1900	2390			
1 / 0°	1400	2000	1950	2229	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1400	2000	1950	2318			
1 / 0°	1400	2000	2200	2229	Central 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1400	2000	2200	2318			

* A 3400mm headroom can be achieved if the lifting beam is removed once the installation has been completed.

** A 3200mm headroom, with car height of 2000mm, can be achieved if the lifting beam is removed once the installation has been completed.

All car dimensions comply with EN81-70 T2.

Table made with Fermator Compact doors on landings (25 mm sill in the shaft)



Operational ranges (standard arrangement)

Maximum travel	Up to 60 m (Maximum 15 floors)
	Pit Minimum standard: 1050 mm · Maximum: 1900 mm
Headroom	Minimum standard (lift car 2175mm): 3450mm, (lift car 2275mm) 3550 mm
	· Headroom 3450 mm with car height of 2175 mm (3400 mm is possible by removing the lifting beam after installation)
Minimum width measured from lift car	Car width + 500 mm
	For lift shafts with >40m travel, the recommended shaft width: Car width + 550 mm
Shaft	Shaft width tolerance -10/+50mm
	Shaft depth tolerance with single entry 0° -10/+infinite mm
	Shaft depth tolerance with through car 180° -0/+30 mm
Minimum width	1600mm
	Maximum width measured from lift car Car width + 1100mm
Maximum width	2700mm (based on a car width of 1600 mm)
	Minimum depth 1400 mm
Maximum depth	2100 mm
	Minimum width 1100 mm
Maximum width	1600 mm
	Standard height 2175mm with 2000mm high doors (option for 2275mm with 2100mm high doors)
Lift car (in 100 mm increments)	

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If travel is <12m Any cabin from the table is valid

If travel is >12m Only 1400x1600 cabins are valid

Minimum door sill 900mm

Shaft depths for other door arrangements

For Fermator Compact doors with the sills inside the shaft and door frames on landings

2 Panel Side Opening - Single Entry 0°	Shaft depth + 85mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 49mm
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 170mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 98mm

For Fermator Compact doors completely installed inside the shaft, including door frames

2 Panel Side Opening - Single Entry 0°	Shaft depth + 125mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 89mm
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 250mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 178mm

For Augusta Evo doors mounted on the landings (sill overhang into the shaft is 25mm)

2 Panel Side Opening - Single Entry 0°	Shaft depth - 10mm
2 Panel Central Opening - Single Entry 0°	Shaft depth - 14mm
2 Panel Side Opening - Through Cabin 180°	Shaft depth - 20mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth - 28mm

For Augusta Evo doors with the sills inside the shaft and door frames on landings

2 Panel Side Opening - Single Entry 0°	Shaft depth + 65mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 21mm
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 130mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 42mm

For Augusta Evo doors completely installed inside the shaft, including door frames

2 Panel Side Opening - Single Entry 0°	Shaft depth + 105mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 61mm
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 210mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 122mm

For Hydra doors mounted on the landings (sill overhang into the shaft is 25mm)

2 Panel Side Opening - Single Entry 0°	Equal shaft depth
2 Panel Central Opening - Single Entry 0	Shaft depth + 21mm
3 Panel Side Opening - Single Entry 0°	Same as 2-panel telescopic doors
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Same shaft depth as standard table
4 Panel Central Opening - Through Cabin 180°	Shaft depth + 42mm
3 Panel Side Opening - Through Cabin 180°	Same as 2-panel telescopic doors
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

For Hydra doors with the sills inside the shaft and door frames on landings

2 Panel Side Opening - Single Entry 0°	Shaft depth + 85mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 91mm
3 Panel Side Opening - Single Entry 0°	Shaft depth + 130mm
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 170mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 182mm
3 Panel Side Opening - Through Cabin 180°	Shaft depth + 260mm
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

For Hydra doors completely installed inside the shaft, including door frames

2 Panel Side Opening - Single Entry 0°	Shaft depth + 125mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 139mm
3 Panel Side Opening - Single Entry 0°	Shaft depth + 170mm
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 250mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 278mm
3 Panel Side Opening - Through Cabin 180°	Shaft depth + 340mm
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

For Pegasus doors mounted on the landings (sill overhang into the shaft is 25mm)

2 Panel Side Opening - Single Entry 0°	Same shaft depth as standard table
2 Panel Central Opening - Single Entry 0°	Shaft depth + 21mm
3 Panel Side Opening - Single Entry 0°	Shaft depth + 45mm
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Same shaft depth as standard table
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 42mm
3 Panel Side Opening - Through Cabin 180°	Shaft depth + 90mm
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

For Pegasus doors with the sills inside the shaft and door frames on landings

2 Panel Side Opening - Single Entry 0°	Shaft depth + 85mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 91mm
3 Panel Side Opening - Single Entry 0°	Shaft depth + 175mm
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 170mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 182mm
3 Panel Side Opening - Through Cabin 180°	Shaft depth + 350mm
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

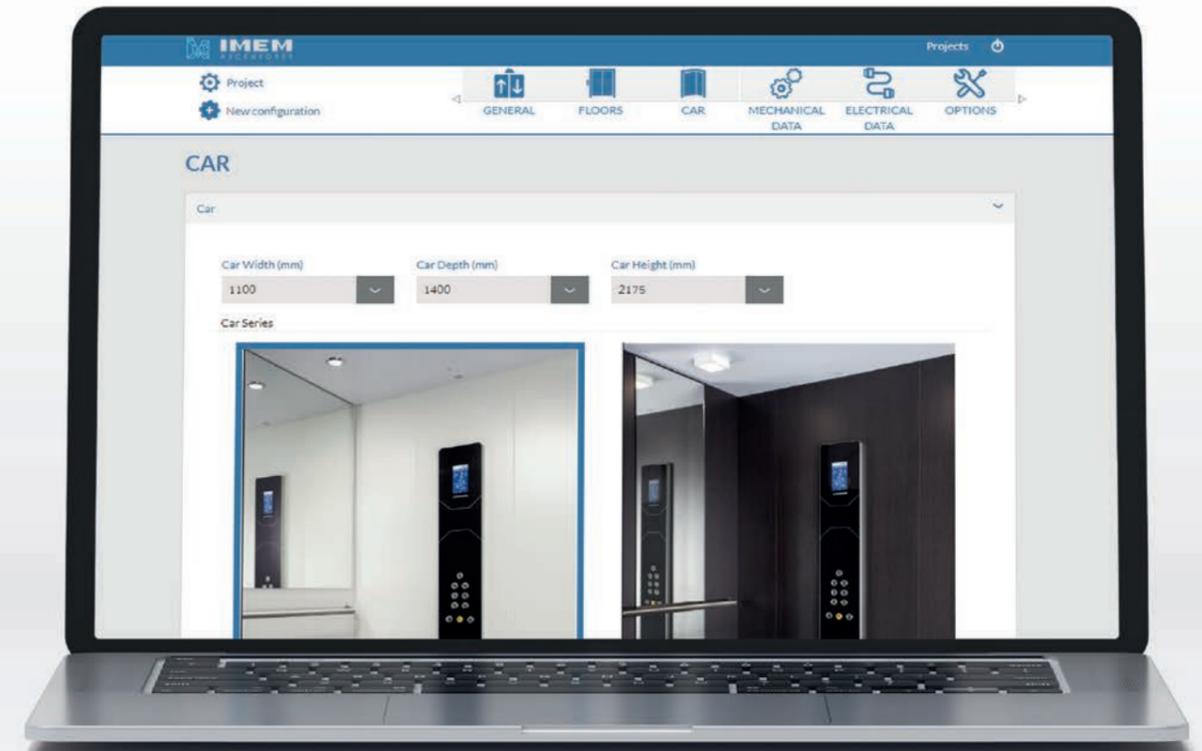
For Pegasus doors completely installed inside the shaft, including door frames

2 Panel Side Opening - Single Entry 0°	Shaft depth + 125mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 139mm
3 Panel Side Opening - Single Entry 0°	Shaft depth + 215mm
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 250mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 278mm
3 Panel Side Opening - Through Cabin 180°	Shaft depth + 430mm
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

Pegasus doors only available for 700, 800,900 and 1000kg mechanics

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