

Lift
VSpace



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SODIMAS in France

Over 40 years' experience.

SODIMAS is created in 1975. Its first job concentrates on the sale of components, straight away stamping the company mark on the history of this profession by offering the sale of pre-assembled kits to facilitate the installation of lifts.



After this, other major events continued to be thought up and created by SODIMAS, changing, making safe and modernising lifts. This included integration of industrial frequency conversion, the creation of low overhead machine room less and the use of gearless traction machines. Creation, research and innovation are the lines of development enabling our customers to find the best suited solution they need and in their constraints; from the single part to the entire kit using a full range of solutions to modernise the existing installation.





SODIMAS worldwilde





Our references

Gelendzhik Hotel- Russia



The African Renaissance Monument - Dakar - Senegal





Permanent innovation

- 1975 Sodimas, creation of the first components' distributor in France.
- 1980 SODIMAS invents the lift in kit-form.
- 1985 1st NG01 electronic controller.
- 1992 Integration of industrial frequency conversion.
- 1997 SODIMAS produces its first generation lift without a machine room.
- 1998 First patented PMD280 dual direction safety gear.
- 2003 Integration of the gearless motor across the whole range.
- 2005 Patented belt replaces cables.
- 2007 Optimisation of pre-wiring with the Quick Install system.
- 2010 Latest generation multiplexer.
- 2011 Position and speed control using SIL3 secure magnetic tape.
- 2012 First single-phase lift.
- 2013 SPEED - unique variable speed eco-energy solution.
- 2014 First 100% solar energy lift.
- 2015 VSpace lift, a concentration of know-how.
- 2016 VSpace lift without counterweight.
- 2017 Intuitive controller QItouch.



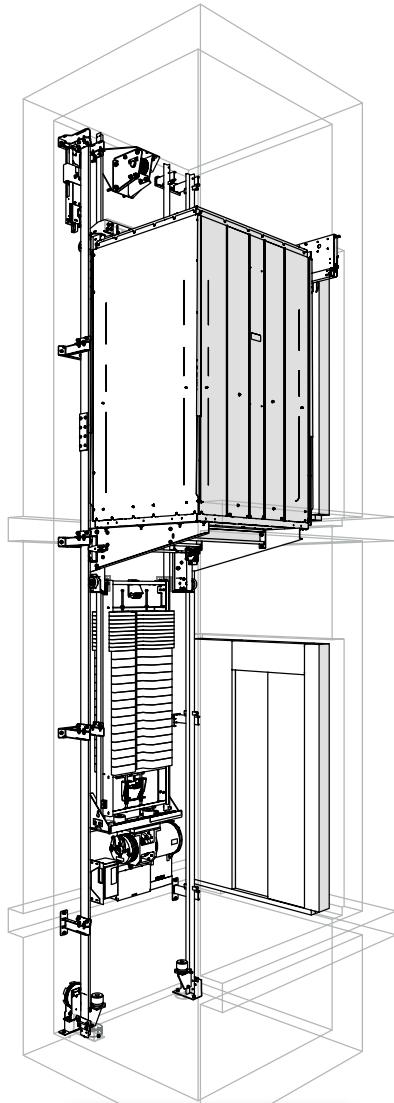


Over 40 years:

over 30,000 lifts designed
33 patents registered

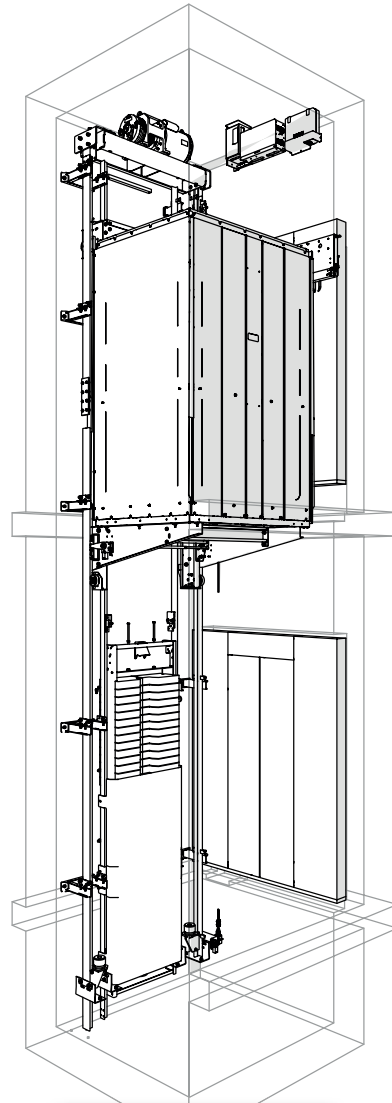


A full range of lifts adaptable at will



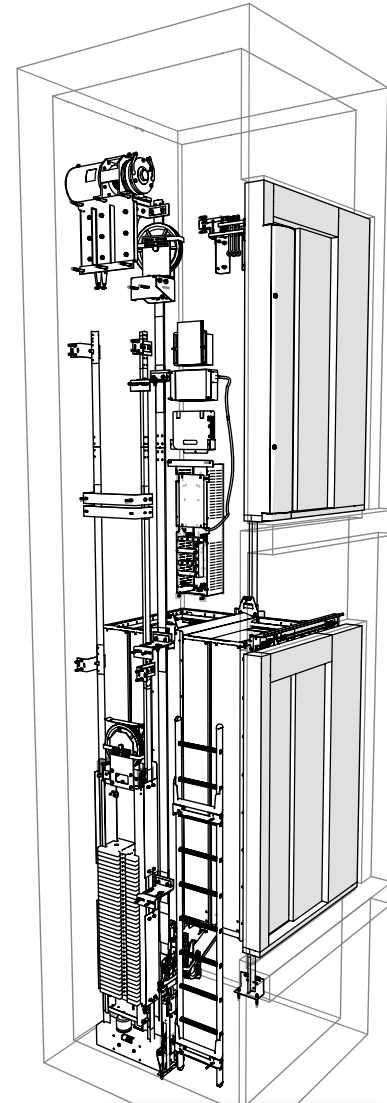
small - Médium 1
Machine below

Homes
Offices with average height
Businesses Homelift



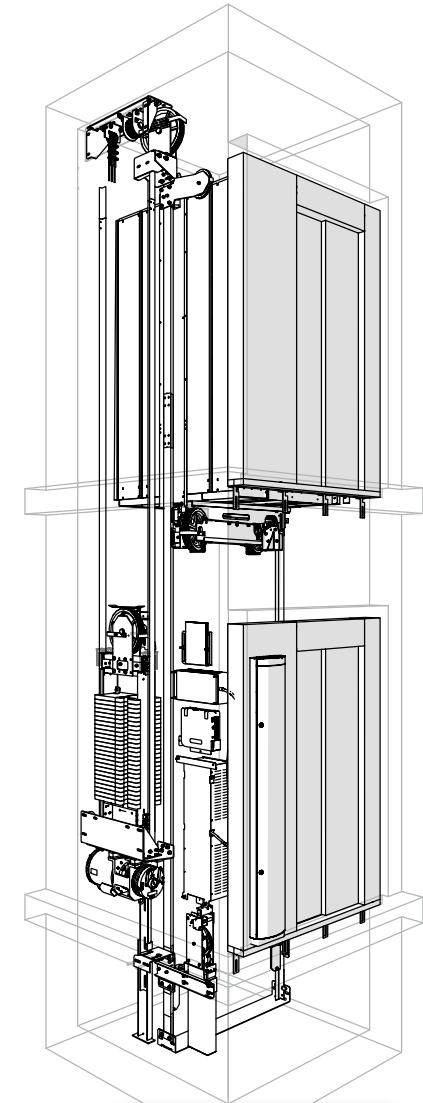
Médium 3
Machine above

Homes
Offices with average height
Businesses



VM
Machine above

Prestigious buildings
Offices with high traffic
Hospitals + panoramic



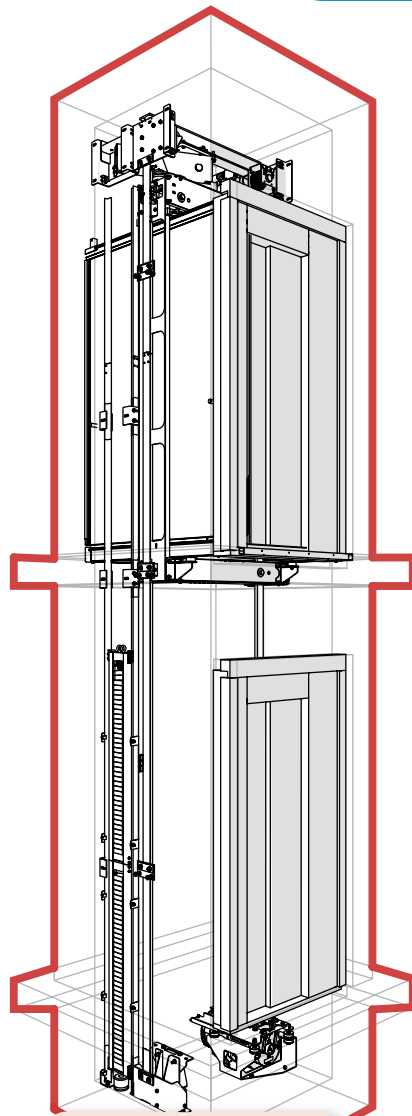
VMBe
Machine below

Prestigious buildings
Offices with high traffic
Hospitals + panoramic

Without machine room

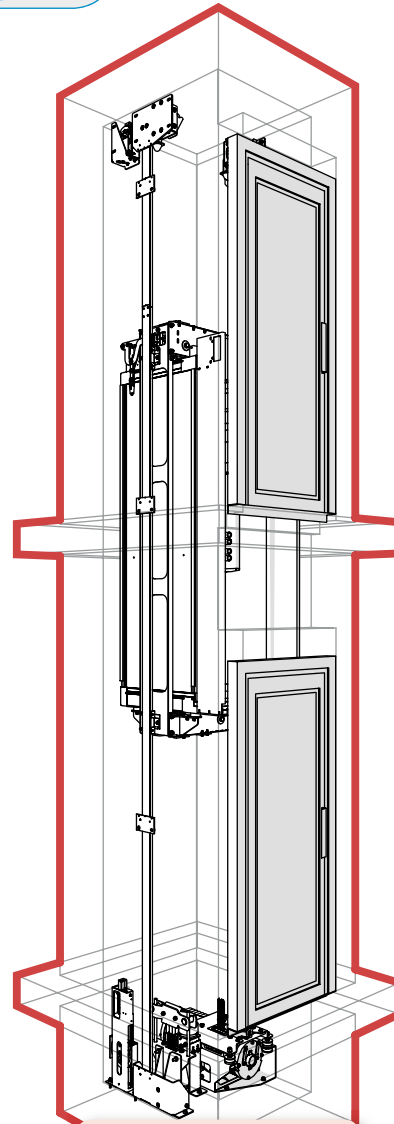
For your demands of special lifts such as the lifts of load, very big load, panoramic, etc.... SODIMAS is at your disposal to conduct feasibility studies.

The custom-made product offer until 50 % of surface of car in more



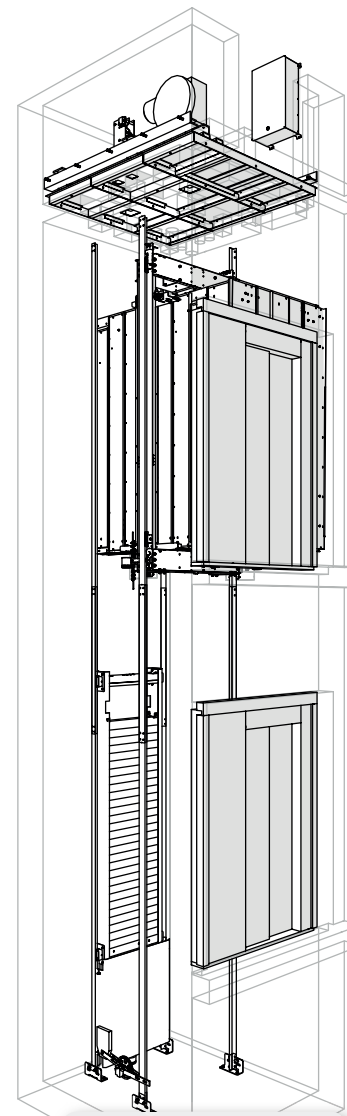
VSpace 2
With counterweight

Homes
Offices with average height
Businesses



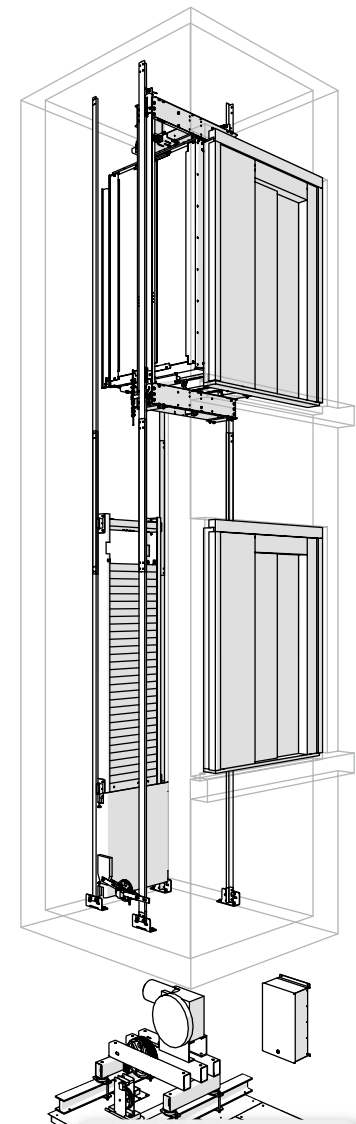
VSpace 1/3
Without counterweight

Homes
Offices with average height
Businesses



Eesy
Machine above

All types of market
+ panoramic



Eesy
Machine below

All types of market
+ panoramic

With or without machine room

With machine room



Eco-design at the heart of our products

Speed, invented by SODIMAS, is unique innovative patented technology based on the variable moving speed of the lift car depending on the load carried.

This technology helps to reduce energy consumption very significantly (30%), improves traffic and increases the moving speed.

By limiting the power generated, achieved by adapting the speed according to the load, the *Speed* range operates on a single-phase network for cars up to a 630 Kg payload. This is a major benefit in sizing the installation and connecting it to different renewable energy systems, such as solar energy, for example.

Already intended for operation using renewable energy, *Speed* allows free choice of the energy source used.

Speed is designed for operation on the complete range of SODIMAS devices.



Solar panels



Wind turbine



National power grid



Battery pack



Power manager system



Lift



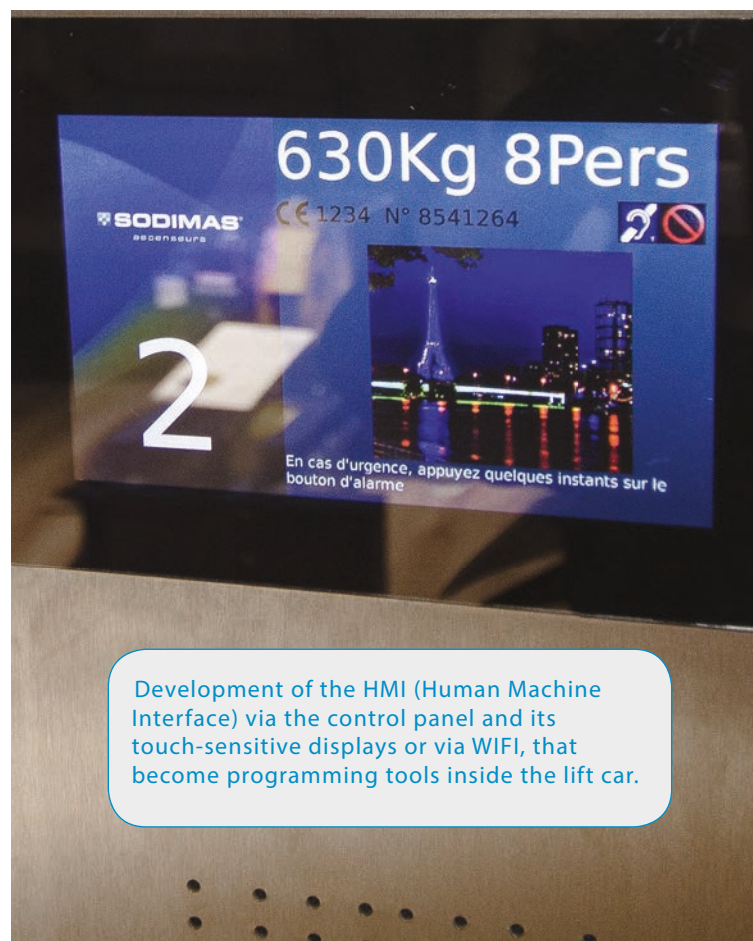


Signalling

SODIMAS set up a Research and Development department many years ago responsible for designing the most efficient and visual communication in the lift car and on the landings, making use of the lift as easy as possible for the users.

The Bluestyle range has been developed, fitted with the most recent technological innovations, to integrate latest generation colour displays.

Design, modernity and reliability are SODIMAS' fundamental development principles for answering our customers' expectations.



Development of the HMI (Human Machine Interface) via the control panel and its touch-sensitive displays or via WIFI, that become programming tools inside the lift car.







Aesthetic by SODIMAS



The SODIMAS lift cars are manufactured at our French factories and can be adapted to all architectural styles and projects due to the quality of the materials used and their carefully designed finishing.







Electrical architecture

Quick Install is concentrated technology based on a microprocessor that combines power and processing speed with a real time processing system. Communication with lifts equipped with Quick Install is provided via an universal mobile tool that uses the ZigBee secure transmission standard. Quick Install is now equipped with the SIL3 SoLIMAX secure system that controls all the functions relating to positioning.





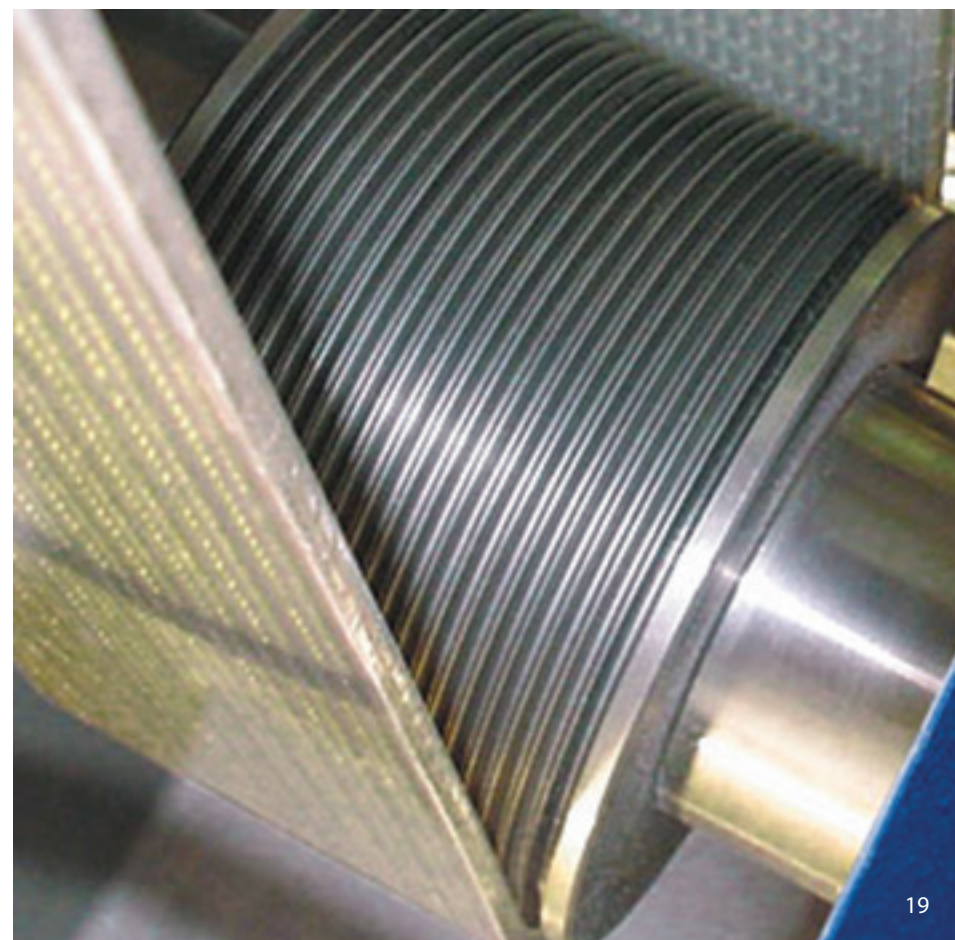
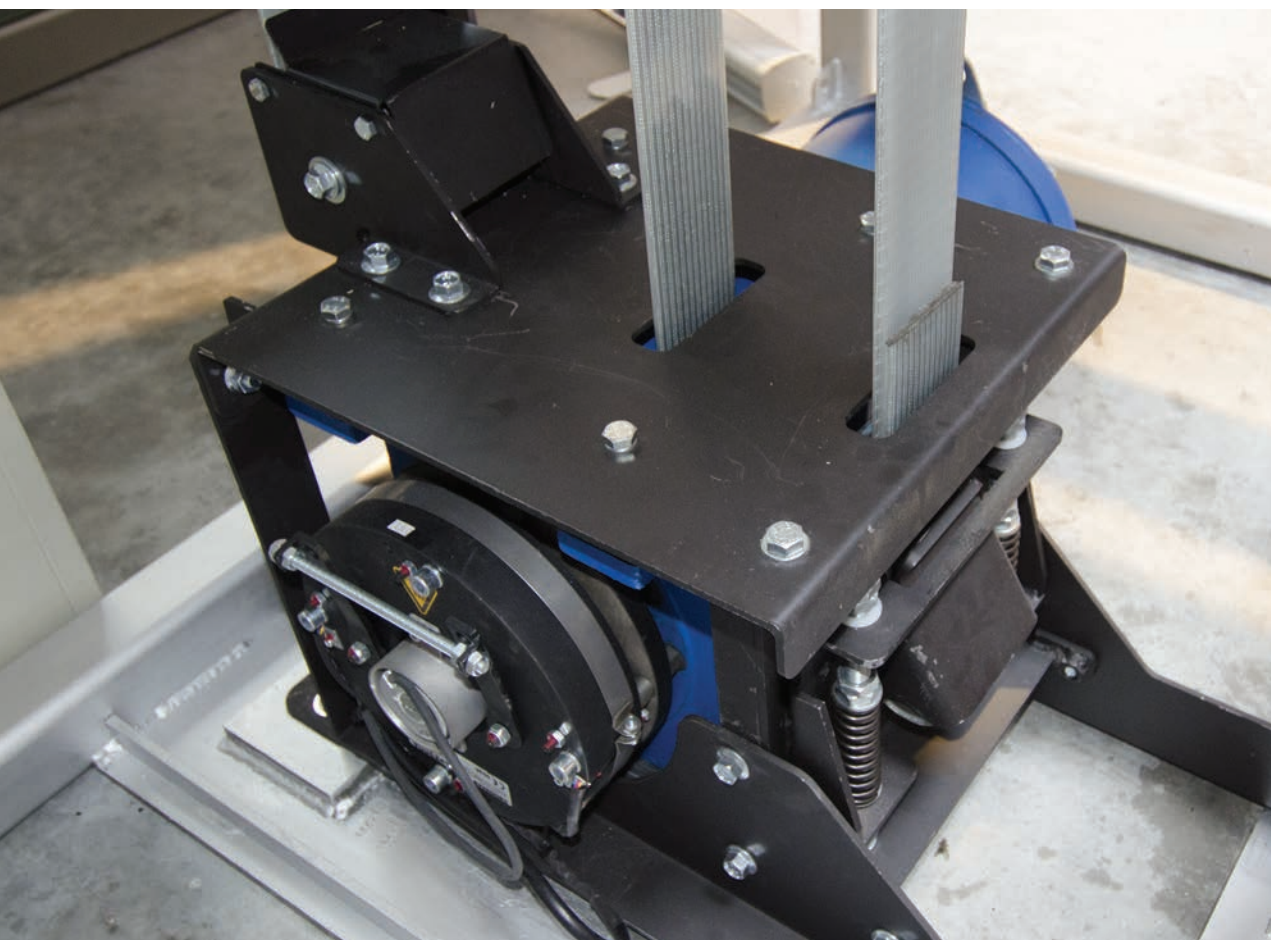
Motor

Latest generation motor

developed and manufactured specially for Sodimas, in collaboration with the world leader who supplies all the machines from our machine room less lifts range.

The Medium, VM and Vspace devices are equipped with Gearless machine that operates without oil and whose acoustic performance is recognized as being the best on the market.

The concept developed by Sodimas on machine room less products, such as the VM, is based on the separation of the traction (closed loop belt) and the suspension of the lift car using cables. This concept is particularly well suited to this type of machine.





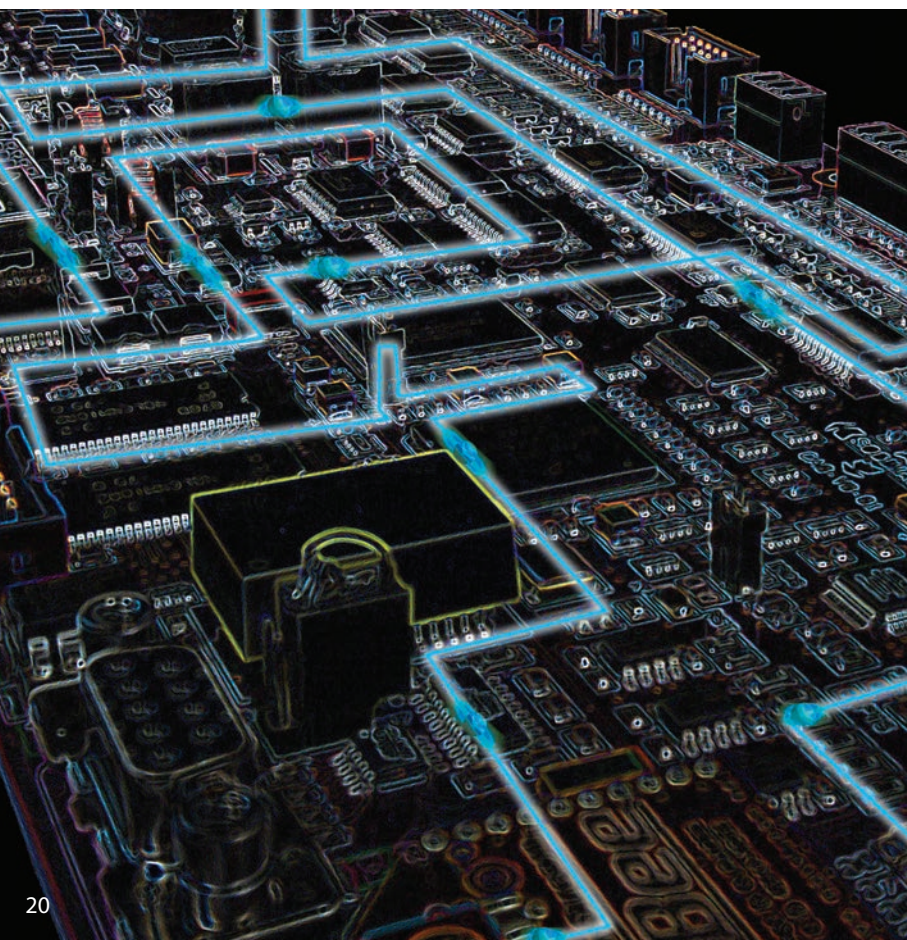
SOLIMAX: travel made safe

SODIMAS has not stopped innovating every since the company was created, seeking to improve the safety of its products and facilitate their installation and maintenance.

SODIMAS has produced another innovation with its new SoLIMAX sensor that enables accurate and secure data to be provided on lift car speeds and positions.

With the SoLIMAX solution, certified by the TÜV, the SIL3 secure position sensor enables the following functions to be integrated and controlled independently:

- the position of the extreme limits of travel, inspection, control of deceleration
- the creep area defined in amendment A3
- the levelling and early opening zone
- the speed and overspeed control
- the absolute position of the car to an accuracy of 2mm
- the safeguard position after a power cut.





Users under 24-hour protection

Total compliance with the latest standard, EN 81-28, our lifts are on-line 24 hours a day using autonomous and secure technology.

Hands-free triphone remote alarm



In-car audio microphone + speaker unit module



GSM module to replace a wired telephone line (Pstn)



Acoustic loop amplifier with roof antenna



Two-way communication, optional GSM modules, compatible call units, easy-install inductive loop audio modules and amplifiers, the SODIMAS remote alarm meets all the regulatory and standard requirements.



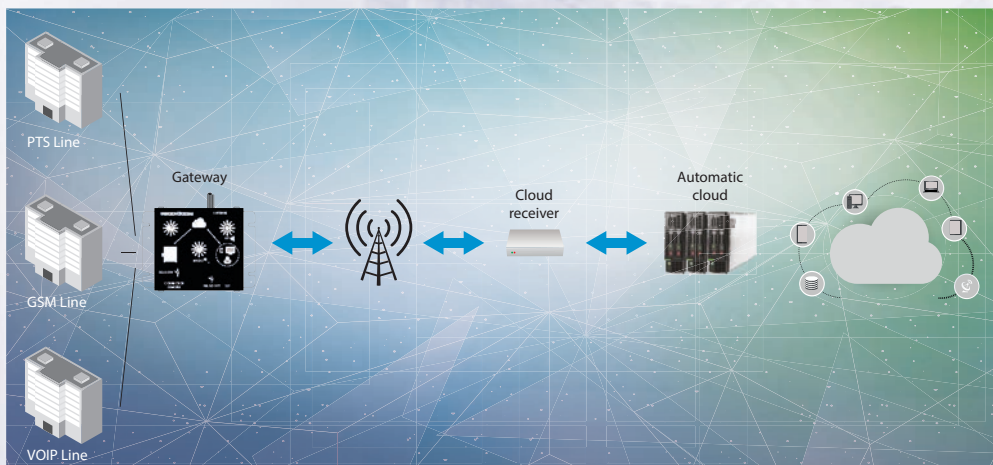
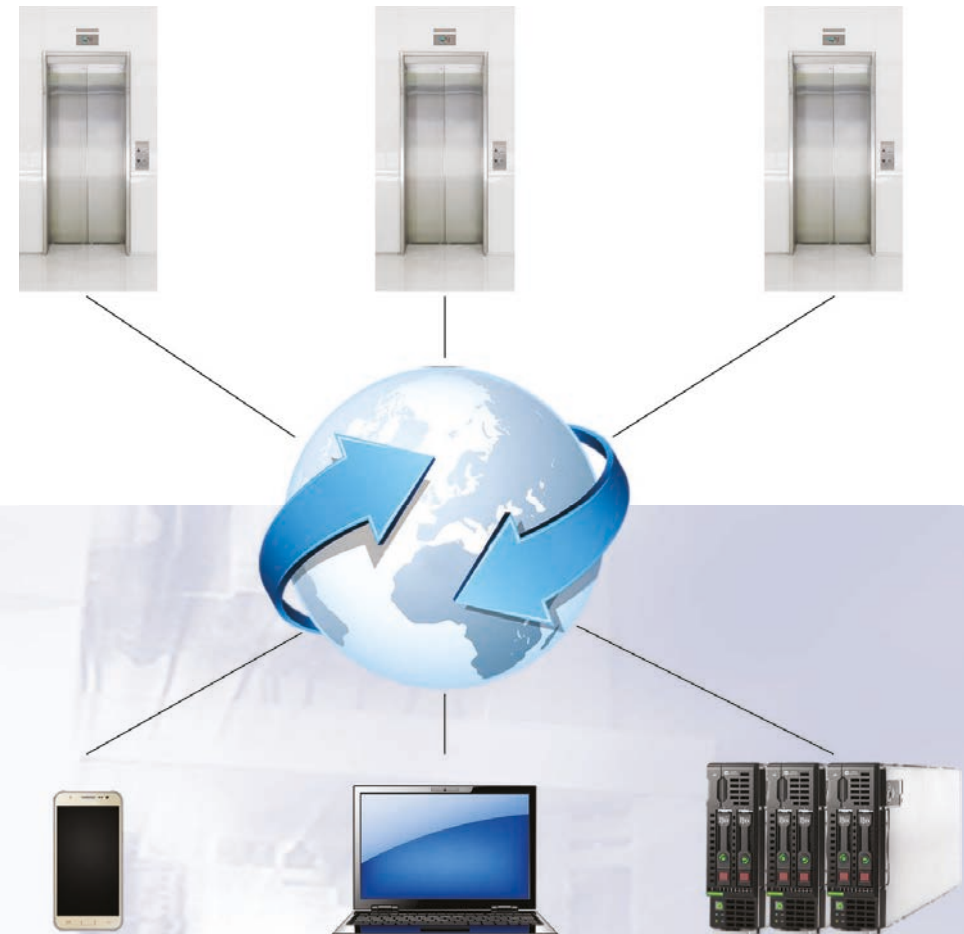


La technologie Sodi@com

Dedicated to the smart lift, the **Sodi@com** technology offers maintenance personnel PC, tablet or smartphone access via the cloud using the unit's telephone line. Easy to use and compatible with all existing lift types, it provides functions including calling, destination floor programming, privatisation of selected levels or removal of remote access permissions from an off-site location.

Analysing data in real time to anticipate outages, performing diagnostics, collecting statistics, minimise out-of-order time or alerting a maintenance provider with a single click is now a reality.

Sodi@com digital intelligence will offer functions adaptable to specific client and user requirements.





Accessibility

Today, 20% of the population are over 60 years and this proportion will reach 30% in 2030.

Accessibility will be soon at the heart of the concerns for citizens (mobility, independence assistance for the frail elderly, fight against dependency, etc.).

The lift is a tool for accessibility to the elderly and people with reduced mobility; so plan and prepare right now for our future with **VSpace!**

Pushing back space boundaries

+ 50% extra car area

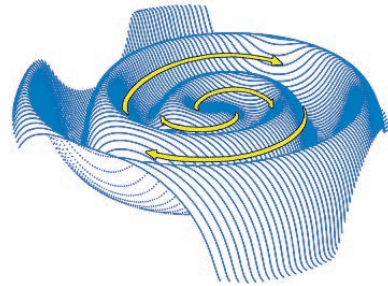
+ 60% extra capacity

VSpace



Our ambitions

VSpace



- Optimising the replacement of existing lifts.
- Simplifying the creation of lifts in existing buildings.

VSpace is the most suitable solution on the market. It offers the largest car for the available space.

Up to 50% extra surface inside the car without altering the structure of the existing building.
The latest technical solutions meeting accessibility needs and thus enhancing the existing building.

The concept

- The lift car travels by means of a closed loop polyurethane belt
- Energy consumption is kept to a minimum by a balancing weight held by cables, counterbalancing all or part of the weight of the lift car
- The moving speed is adapted to the load in the lift car, improving traffic and optimising the installation.

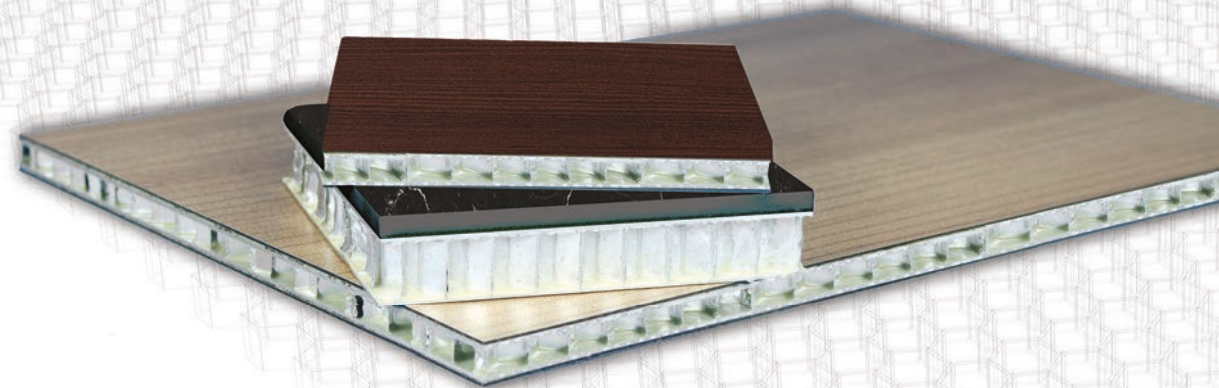


Maximum technology in minimum space

- Optimisation of weights in motion

In order to obtain optimum lift car dimensions with a minimum consumption of energy, the use of honeycomb panelling is required.

The use of aluminium allows a benefit of 150kg for an 8-person lift car.



- Modular design of all the mechanical units.

Advanced research into the product has enabled the design of mechanical units adapted to the available dimensions using an industrial approach. Specially designed for all lifts modelled in the 1960s and 1970s.

- Combined traction and suspension.

Our patented technology is still applied to **VSpace** through the combination of a traction belt to move the lift and cables to ensure suspension of the lift car.

- **VSpace** is equipped with new technology *Speed* that guarantees a moving speed adapted to the load in the lift car.

+30% energy saving **+30%** traffic --> speed $\pm 30\%$. **+30%** reaction time --> speed $\pm 30\%$.

- Eco-design at the heart of the product.

SODIMAS is continuing to innovate to reduce the energy footprint of its products.

The **VSpace** *Speed* now works with all renewable energy sources and can be modified over time.

Our ecological approach



In this ecological approach, **VSpace** combines:

- The synchronous motor across the whole range.
- The standby system for electrical equipment.
- The application of the *Speed* technology.
- LED lighting in the lift car.
- The removal of equipment in the shaft (challenge made possible through the SoLIMAX, the CANbus, the direct to level control system, amongst others).
- The Quick Install control system unit.
- 230V single phase supply.
- Reduced unavailability time.
- The total elimination of oil in the shaft.

The development of the **VSpace** has incorporated the job site dimension to optimise assembly at the customer's premises.

It includes:

- Factory pre-assembly of huge mechanical components.
- The supply of mounting template.
- The pre-configuration of installation parameters.
- The self-learning system for the shaft.
- The packaging optimisation.
- The option of having specific tooling.



VSpace aesthetics



Operating panel

Partially or totally glazed walls
on request



2-toned walls, handrail opposite
the push button box, mirror at
the back of the lift car



Tints in the choice in our range
walls and floors

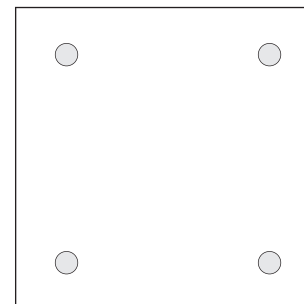


See our tints documentation

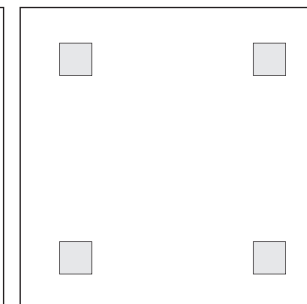


False ceilings *

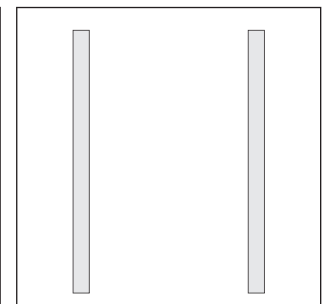
LED spot lights



Square LED lighting



Strip LED lighting



* optional

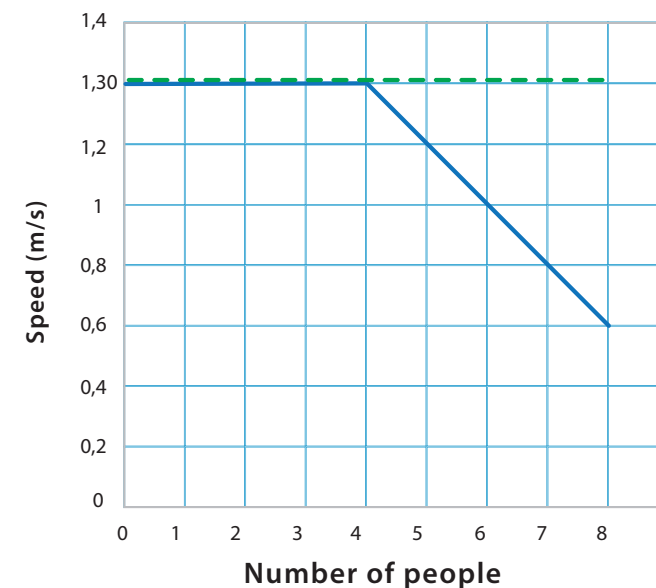


Characteristics

VSpace with counterweight

	VSPACE 2	
	Without	With
High machinery		
Rated load	From 180 to 630 Kg	From 180 to 630 Kg
Number of people	From 2 to 8	From 2 to 8
Maximum travel	30 meters	30 meters
Speed	1±30% m/s <i>Speed</i> technology	1±30% m/s <i>Speed</i> technology
Suspension	2/1 belt	2/1 belt
Number of levels	10 maximum	10 maximum
Car dimensions	Custom made	Custom made
Power supply	230 V single -phase or 400 V three-phases	230 V single -phase or 400 V three-phases
Motor	Gearless 4 kW	Gearless 4 kW
Position of the machine	Machine below	Machine above
Height at top level	3000 mm minimum for a lift car height of 2120 mm	3000 mm minimum for a lift car height of 2120 mm
Pit depth	700 mm minimum	700 mm minimum
Minimum shaft width	700 mm minimum	700 mm minimum
Minimum shaft depth	To calculate according to the doors	To calculate according to the doors
Control system	Qltouch	Qltouch
Number of service sides	1 side / 2 opposite sides	1 side / 2 opposite sides

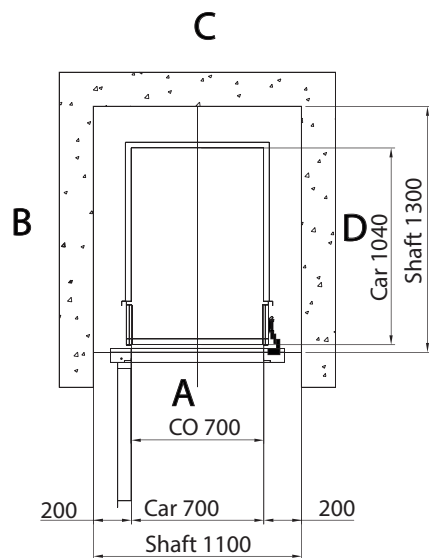
Speed according to the number of people



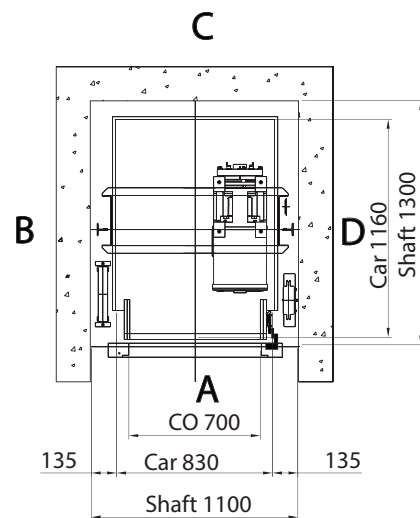
- Maximum speed down direction according to the number of people
- Maximum speed up direction according to the number of people

Years 1970

300Kg

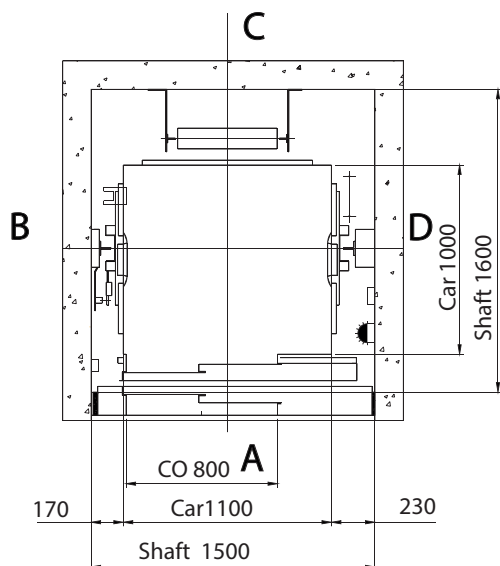


VSpace 350 Kg

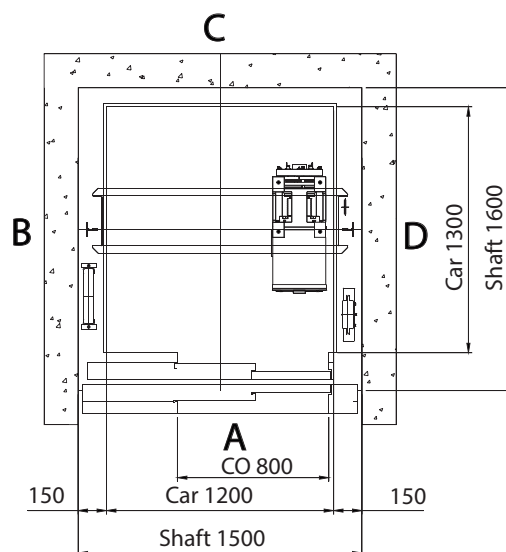


Years 1970

400Kg

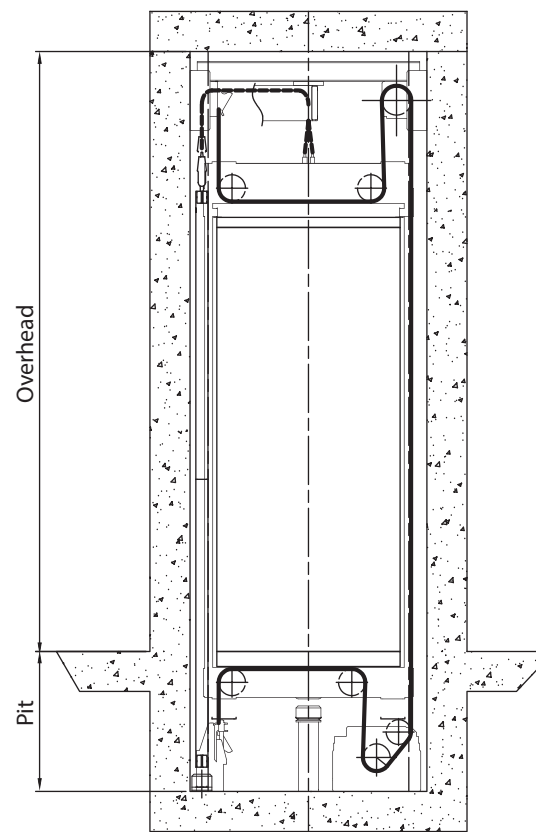


VSpace 630 Kg



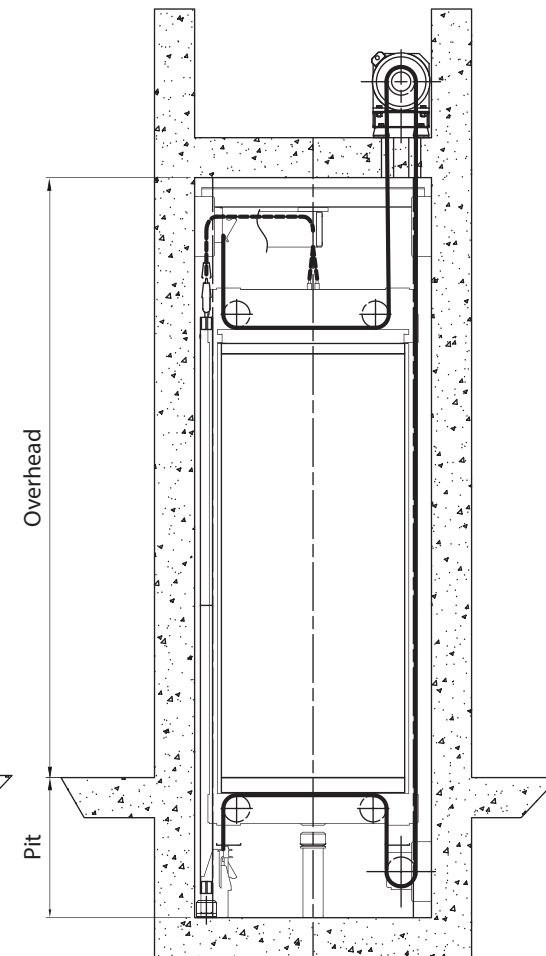
VSpace

Without machineroom



VSpace

With machineroom



Lift car dimensions Swinging and folding doors

180kg 225kg 300kg 375kg

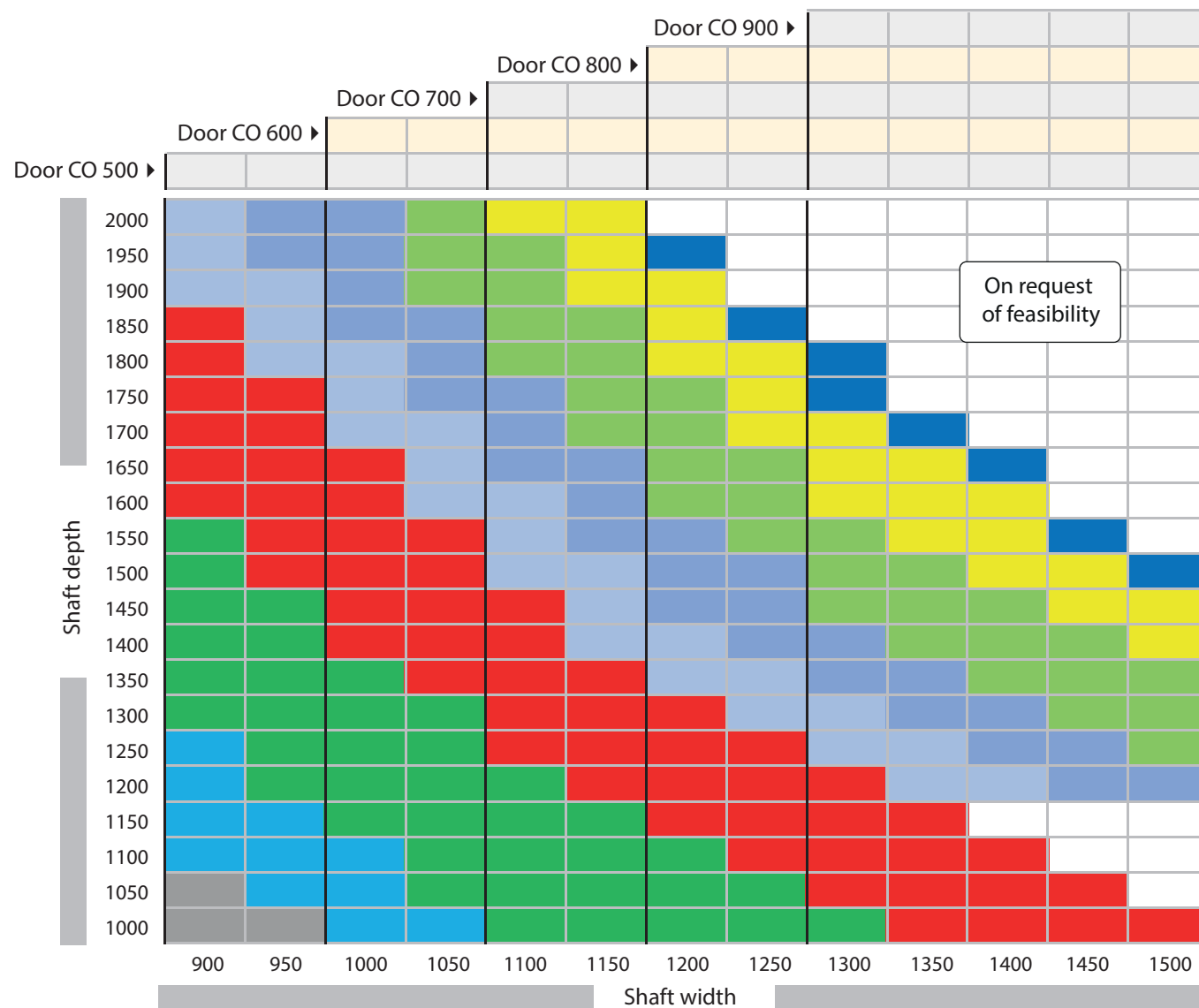
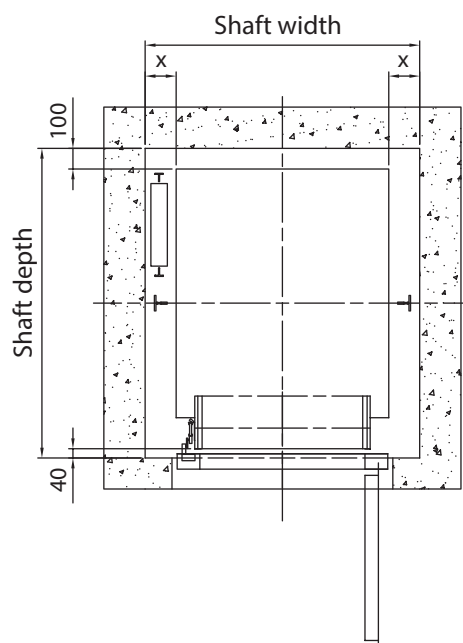
Car width = Shaft width - 270mm

Car depth = Shaft depth - 140mm

400kg 450kg 525kg 600kg 630kg

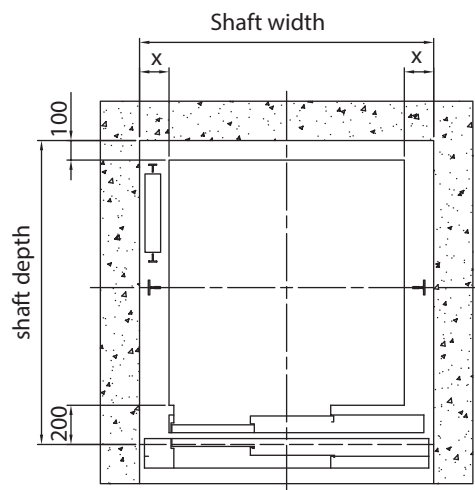
Car width = Shaft width - 300mm

Car depth = Shaft depth - 140mm



On request
of feasibility

Lift car dimensions
2 telescopic panels
Automatic doors



225kg 300kg 375kg

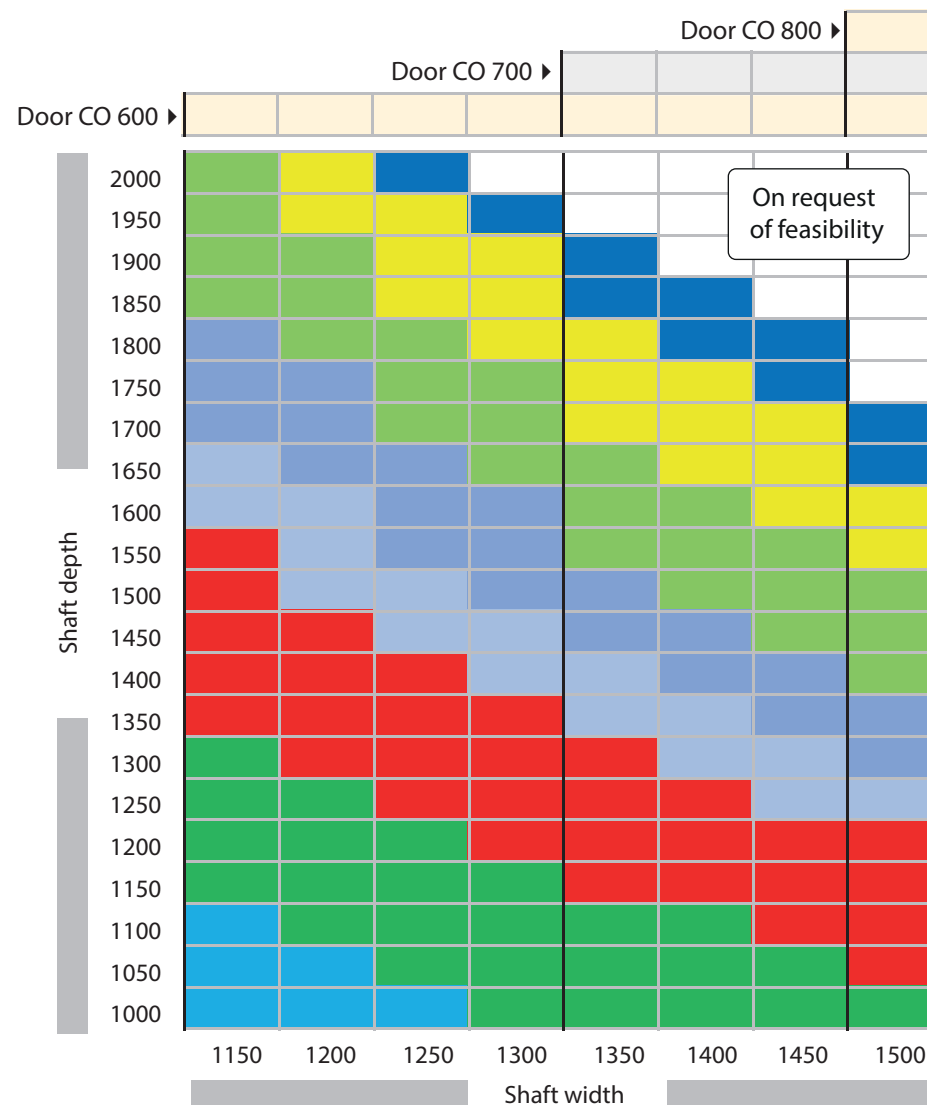
Car width = Shaft width - 270mm

Car depth = Shaft depth - 300mm

400kg 450kg 525kg 600kg 630kg

Car width = Shaft width - 300mm

Car depth = Shaft depth - 300mm



Lift car dimensions
4 telescopic panels automatic doors
Central opening

180kg 225kg 300kg 375kg

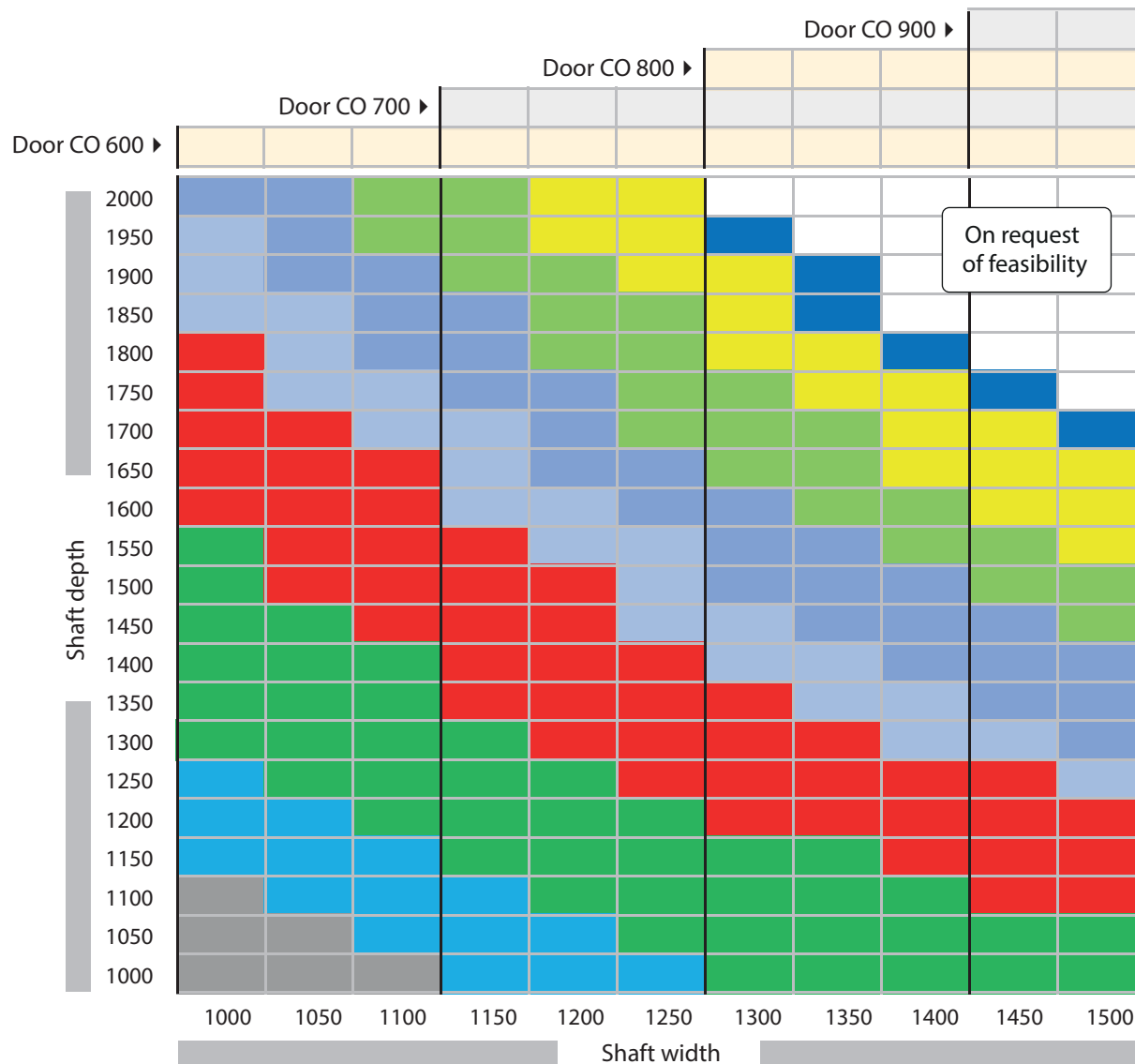
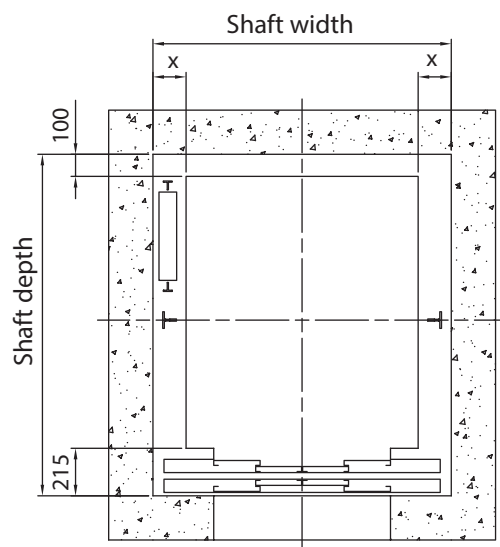
Car width = Shaft width - 270mm

Car depth = Shaft depth - 315mm

400kg 450kg 525kg 600kg 630kg

Car width = Shaft width - 300mm

Car depth = Shaft depth - 315mm

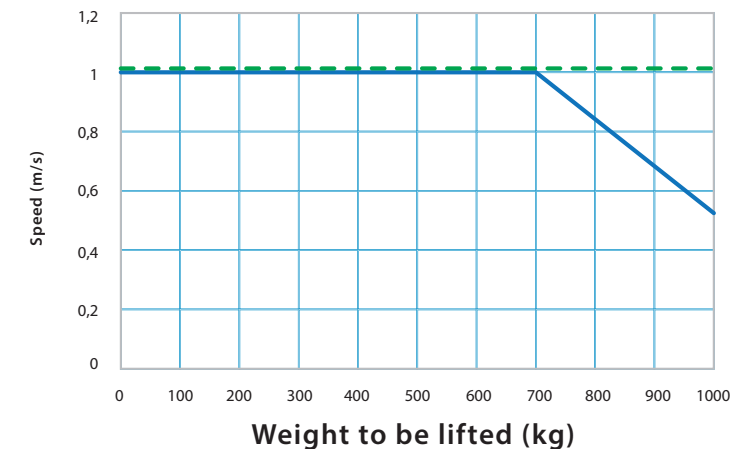


VSpace without counterweight

The best product for the creation in the existing buildings

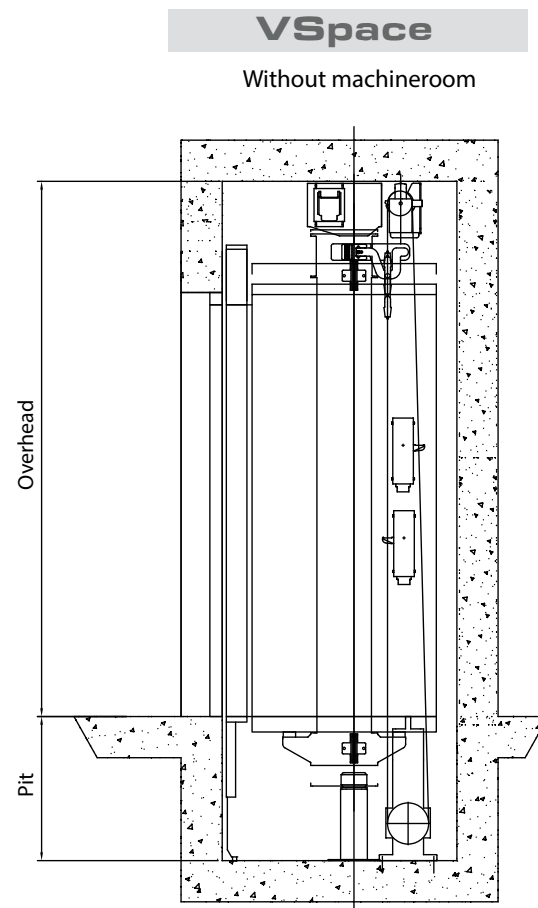
	VSPACE 1		VSPACE 3	
	Wide car ↔		Deep car ↗	
	Without	With	Without	With
Machineroom below				
P + Q maximum	1000 kg		1000 kg	
Number of people	From 2 to 6		From 2 to 6	
Maximum travel	30 m		30 m	
Speed	0,5 to 1 m/s <i>Speed</i> technology		0,5 to 1 m/s <i>Speed</i> technology	
Suspension	2/1 belt		2/1 belt	
Number of levels	10 maximum		10 maximum	
Car dimensions	Custom made		Custom made	
Power supply	400 V three-phases		400 V three-phases	
Motor	Gearless 8,5kW		Gearless 8,5kW	
Position of the machine below	Back of the shaft		Side wall	
Height at top level	2750 mm minimum for a lift car height of 2050 mm		2750 mm minimum for a lift car height of 2050 mm	
Pit depth	700 mm	400 mm	700 mm	400 mm
Minimum shaft width	1200 mm	640 mm	700 mm	700 mm
Minimum shaft depth	To calculate according to the doors		To calculate according to the doors	
Control system	Qltouch		Qltouch	
Number of service sides	1 side		1 side / 2 opposite sides	

Speed according to the weight to be lifted



- Maximum speed down direction according to the weight to be lifted
- Maximum speed up direction according to the weight to be lifted

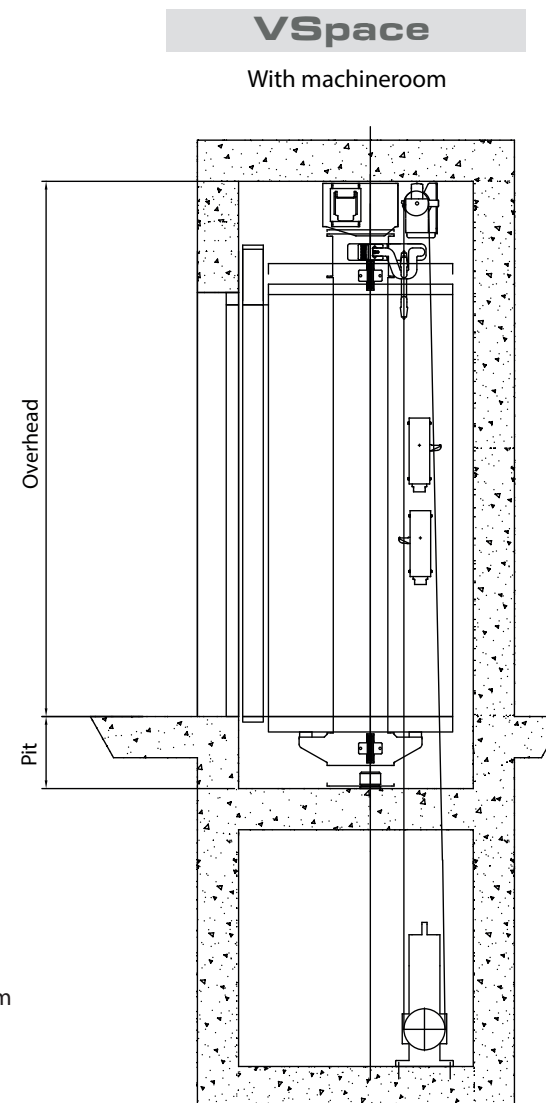
Minimal dimensions of installation



Machine in the pit (only VSpace 3)

If $700 \leq \text{shaft width} < 800$ pit depth mini 900 mm

If shaft width ≥ 800 pit depth mini 700 mm

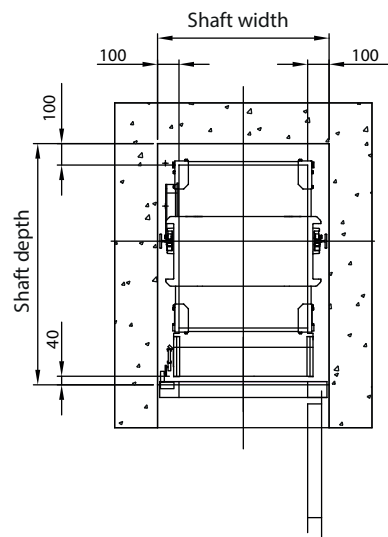


Machine under the pit

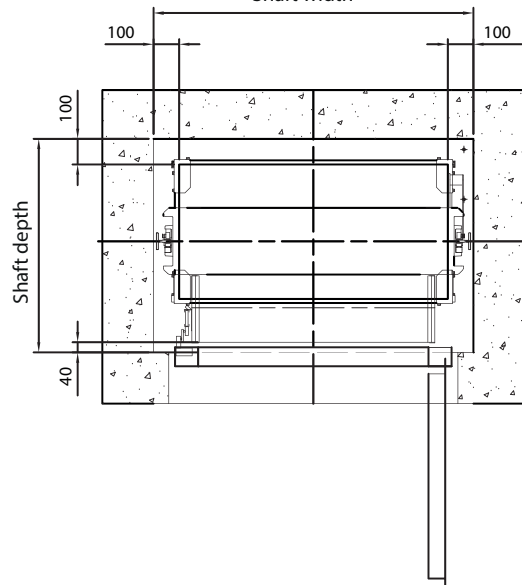
Depth mini 400 mm

Lift car dimensions Swinging and folding doors

Deep car VSPACE 3 Machine position sidewall



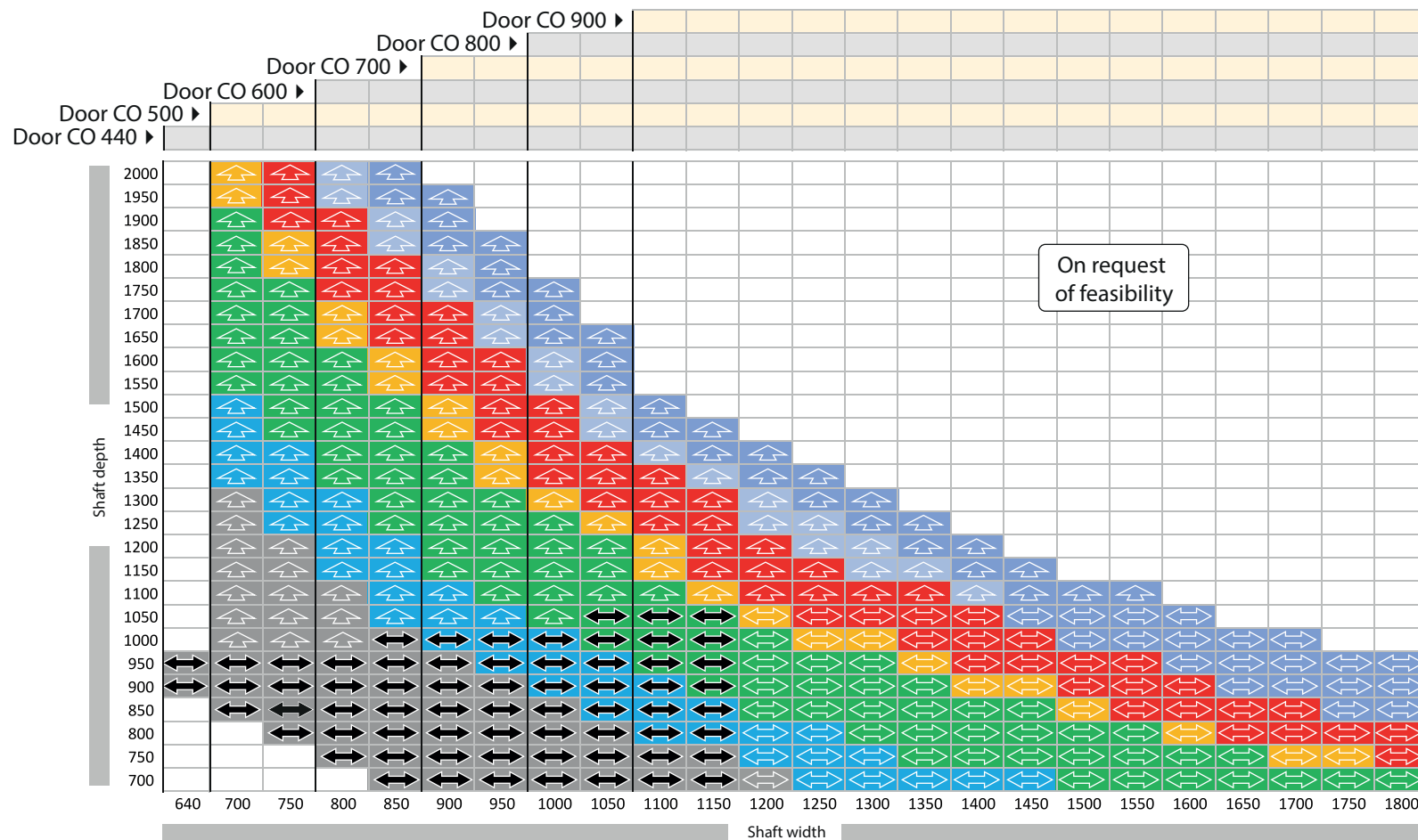
Wide car VSPACE 1 Machine position back of the shaft



180kg 225kg 300kg 320kg 375kg 400kg 450kg

Car width = Shaft width - 200 mm

Car depth = Shaft depth - 140 mm



- Deep car VSPACE 3
- Wide car VSPACE 1
- Wide car VSPACE 1 with machineroom under pit

Lift car dimensions
2 telescopic panels
Automatic doors

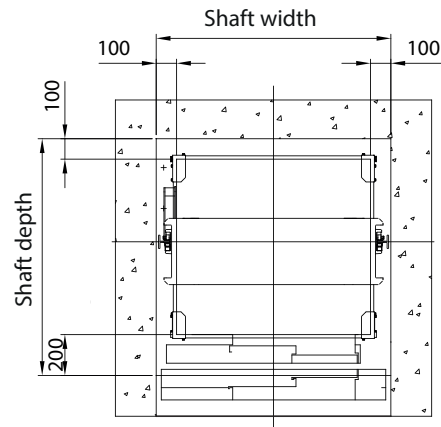
180kg	225kg	300kg	320kg	375kg	400kg	450kg
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Car width = Shaft width - 200 mm

Car depth = Shaft depth - 300 mm

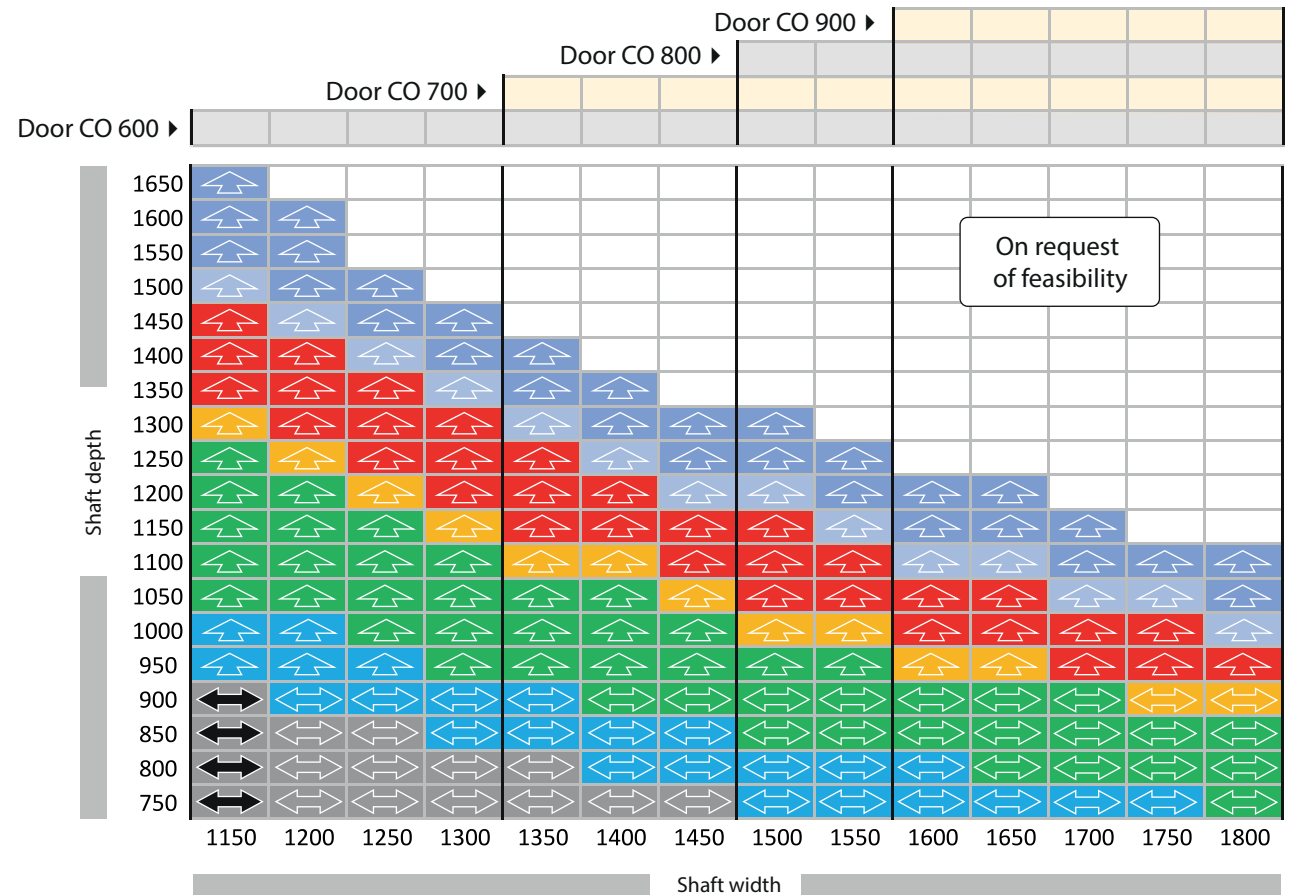
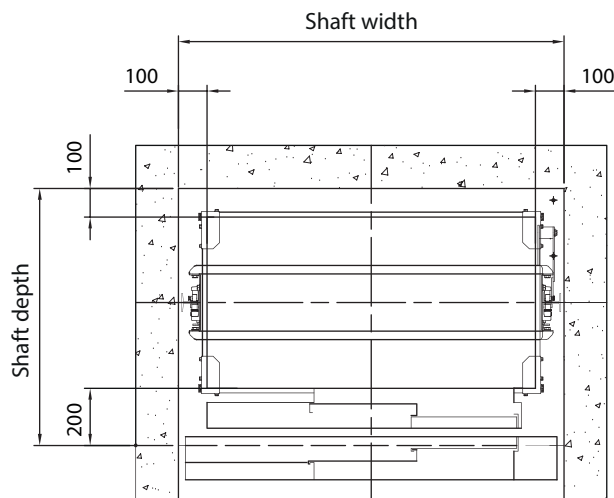
⬆ **Deep car VSPACE 3**

Machine position sidewall



↔ **Wide car VSPACE 1**

Machine position back of the shaft



- ⬆ Deep car VSPACE 3
- ↔ Wide car VSPACE 1
- ⬆↔ Wide car VSPACE 1 with machineroom under pit

Lift car dimensions
4 telescopic panels automatic doors
Central opening

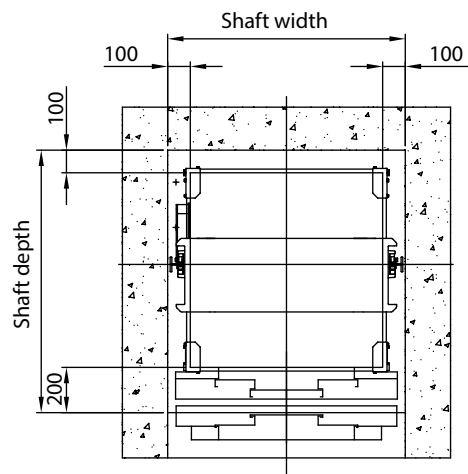
180kg 225kg 300kg 320kg 375kg 400kg 450kg

Car width = Shaft width - 200 mm

Car depth = Shaft depth - 300 mm

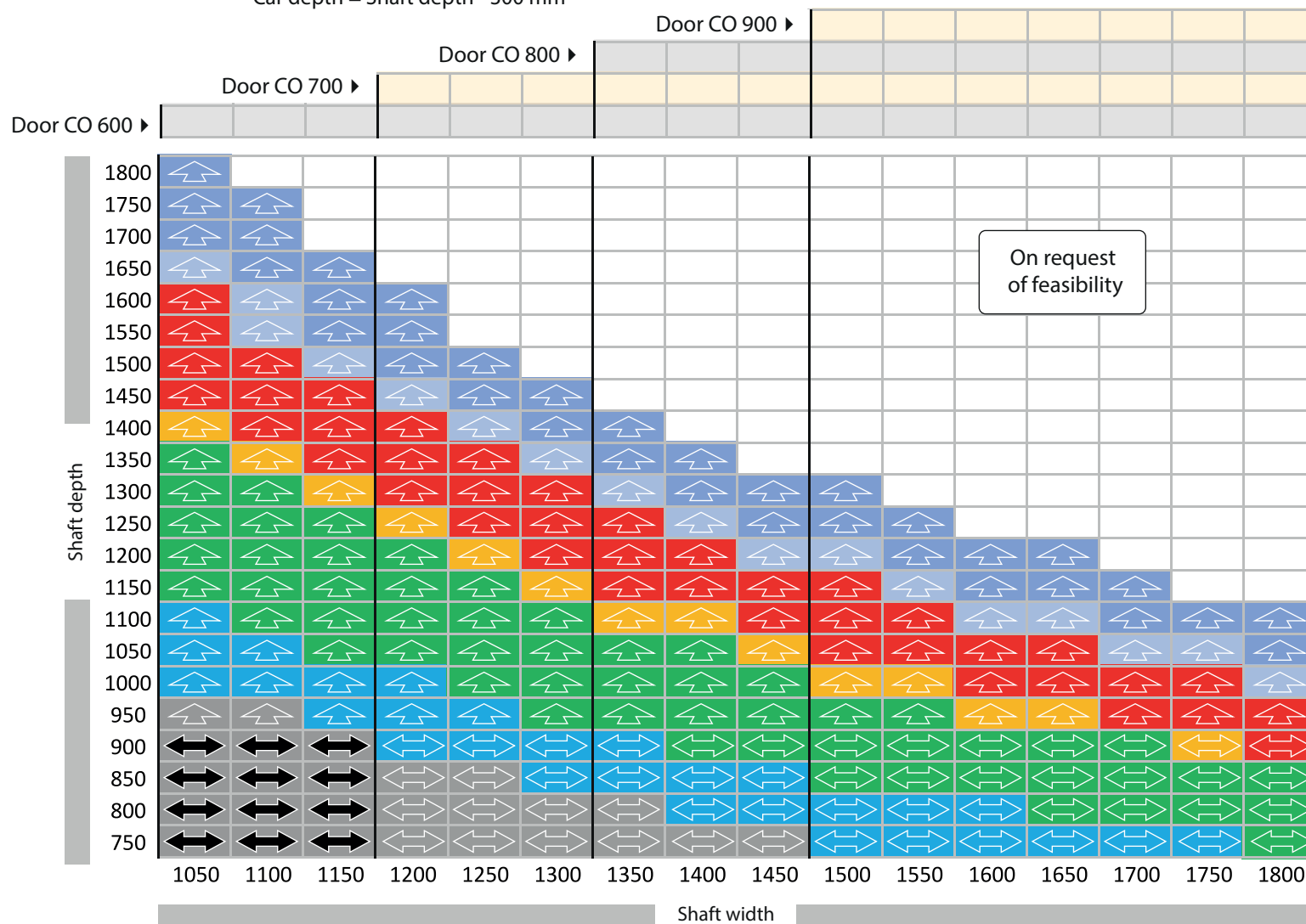
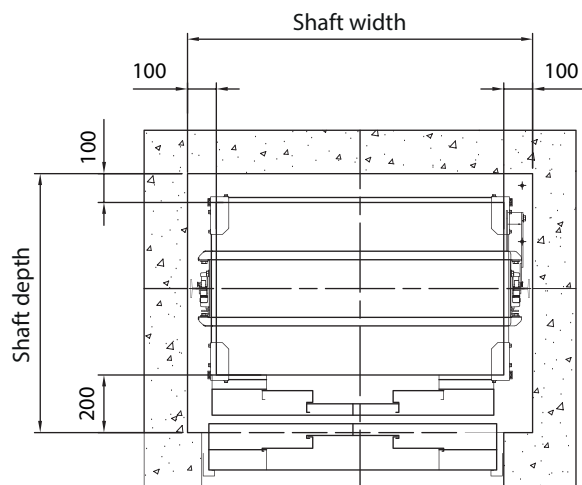
Deep car VSPACE 3

Machine position sidewall



Wide car VSPACE 1

Machine position back of the shaft



- Deep car VSPACE 3
- Wide car VSPACE 1
- Wide car VSPACE 1 with machineroom under pit

Notes VSpace



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apave
Certification
ISO 9001 - ISO 14001



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ascenseurs

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