

 **VMotionBe**

Machine roomless at lowest floor

400/450/630/1000/1275/1600/2000 kg

COMPLETE LIFTS



SODIMAS (Société de Distribution de Matériel d'Ascenseur) was established as a family business in 1975, and has become France's foremost independent manufacturer of lift equipment. Today its products are distributed to around forty different countries throughout the world.

SODIMAS has developed and diversified its component sales business, and is now a designer, manufacturer and distributor of lift equipment. The company uses its know-how and expertise to manufacture complete lift systems for new buildings, replace older equipment, and modernise existing lifts while ensuring that all parts are compliant.

The company has an innovative research and development department, which is able to adapt to the most advanced technologies. All products are manufactured in France, either by the SODIMAS Group or under licence in partnership with major component manufacturers.

Through its technical sales team, its design office and its logistic department, SODIMAS has resolutely focused its strategy on customer service. Its teams are trained in lift equipment technology and current regulations, allowing them to offer advice and meet the specific needs of lift installers, architects and property developers...

Why choose SODIMAS ?

- ↗ A company dedicated to innovation and technical expertise
- ↗ Thorough knowledge of applicable standards and legislation
- ↗ An independent strategy enabling reactivity and reliability over time
- ↗ Standard and non-standard products, offering an unlimited range of equipment
- ↗ Priority given to customer service and support

VMotionBe by SODIMAS

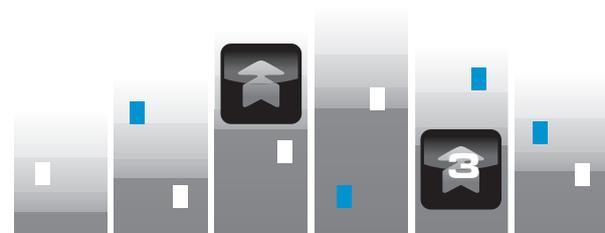
The VMotionBe brings together all the technologies of a new generation of lifts, combining compactness and enhanced performance with improved energy-efficiency.

In addition to this, SODIMAS' innovation and expertise have resulted in the **first lift with a headroom reduced to 2600 mm in new buildings.**

Another specific feature of this product is its **motor room, which is installed in the lowest part of the shaft.** This means that no maintenance work is required on the upper floors of the building.

The VMotionBe range caters for most carrying capacities required by the market and also complies with the various standards and new legislation applicable to lifts :

- ✓ Lift Directive 95/16/CE
- ✓ EN 81-70 accessibility standard
- ✓ EN 81-1/2 standard + A3 amendment
- ✓ Eco-label following VDI4707
- ✓ Etc....



The VMotionBe range

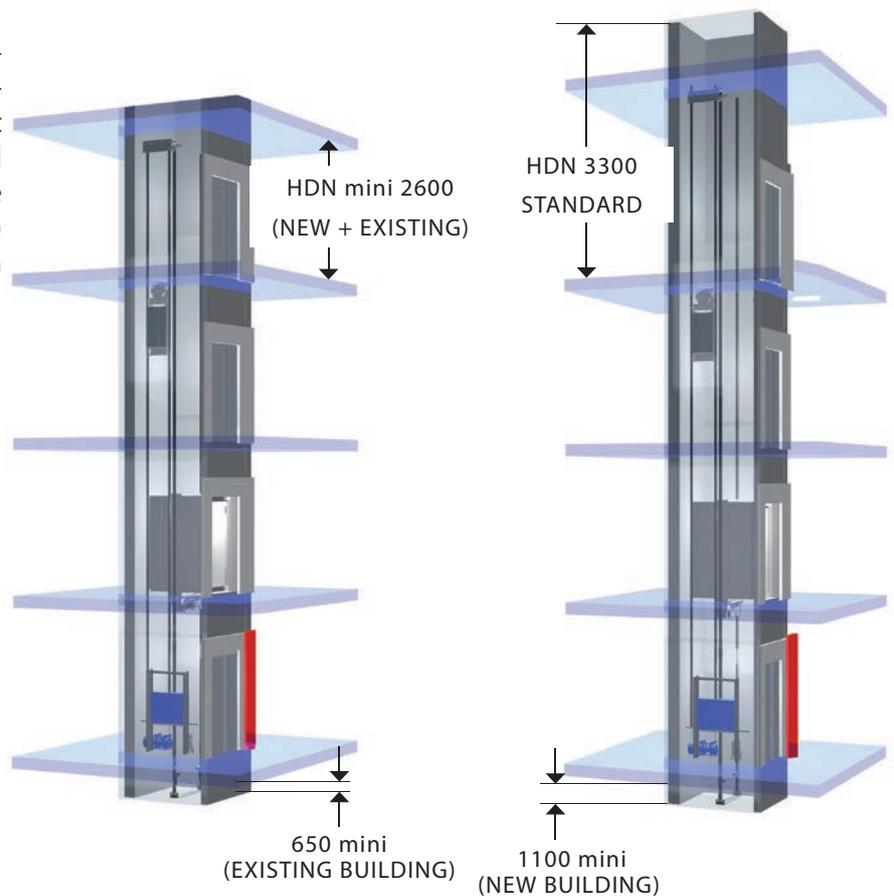
Key figures

Car load	400 to 2000 kg
Nominal speed	1 or 1,6 m/s (400 to 1275 kg) 1 m/s (1600 - 2000 kg)
Starting per hour	240
Travel maxi	46 m
Capacity	5 to 26 persons
Access	Single or Double
Car area	1,17 to 5 m ²
Power supply	Three phase 400 V + neutral
Doors	Automatics

The first lift with a headroom reduced to 2600 mm for new buildings

The VMotionBe requires minimal dimensions for installation. Thanks to an extensive study on the dimensions of lift shaft components, the VMotionBe is designed with a headroom of only 2600 mm on the last level (in new and existing building) and a pit depth of 1100 mm (650 mm in the existing configuration).

The VMotionBe has been specially designed to avoid mounting equipment in the bottom of the pit, therefore preventing any damage to its proofness.



Advantages

- Perfect integration in your building
- A product to suit any configuration



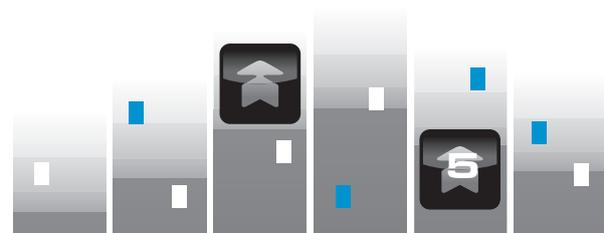
All machine installed on the lowest level

All maintenance operations are performed on the lowest level, so no work is required on the upper floors. The VMotionBe is safely maintained from the outside of the shaft from the lowest level thanks to controller located on the landing.

The maintenance ergonomics has also been reviewed. To ensure that all of the lift's important components are within arm's reach of the technician, the power supplies and phone connections are also remain in the lower part.

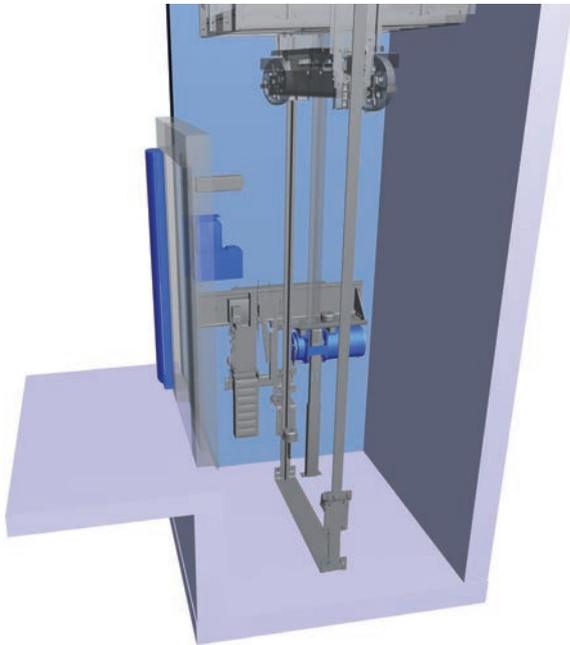
Advantages

- Secure maintenance
- Easy servicing
- Freed up landing areas : no equipment needs to be installed on the top floor landing

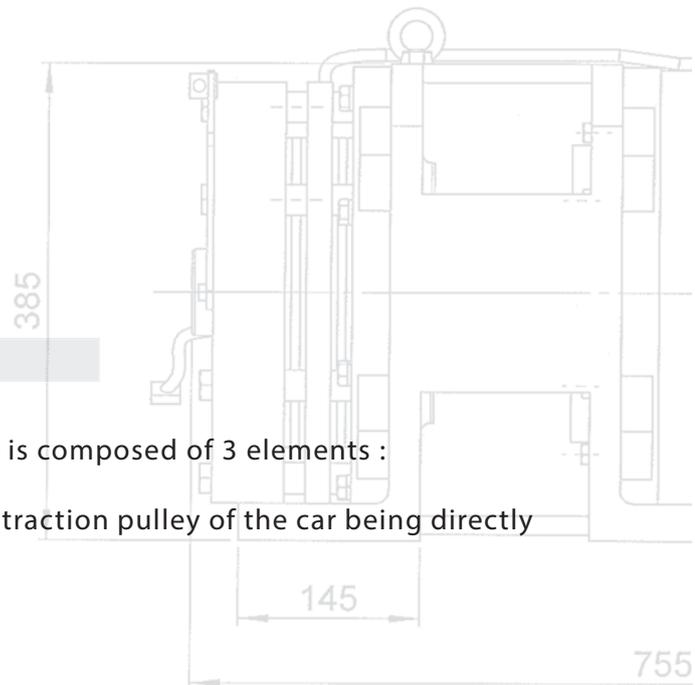


A range of lifts bringing

A lift without a motor room



SODIMAS' R&D department has conducted studies to optimise the location of each motor room component and its position inside the shaft, now enabling us to offer you a lift system that does not require the construction of a machineroom, and therefore saving a significant amount of space.



A Gearless machine VM serie

Today, the technologic solution SODIMAS motorisation is composed of 3 elements :

- ↗ The machine without gearbox, called "Gearless" : the traction pulley of the car being directly motorized and fitted with a brake
- ↗ The synchronous motor with permanent magnets
- ↗ The drive and control of the motor speed through a VVVF inverter

Advantages

- ↗ High output, low consumption
- ↗ Eliminates noise disturbance
- ↗ Optimization of the energy consumption
- ↗ Small and compact machine room
- ↗ Comfort and stop accuracy



new technologies together

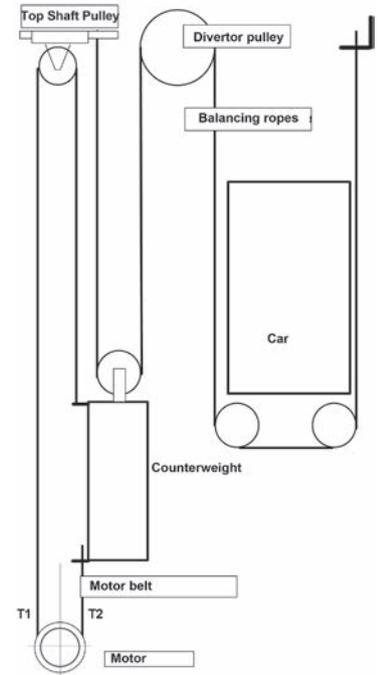
A flat belt in polyurethane

The Vmotion Be is fitted with a belt of very high technicity which combines smoothness and grip of the polyurethane with the strenght of the stranded steel ropes, avoiding the traditionnal steel ropes.

Advantages

- ↗ **Maximum output of the power**
- ↗ **Comfort in car improved, noise disturbances eliminated**
- ↗ **Perfect line in time : longer lifetime of your product**

The belt pulls the counterweight rather than the lift car, which separates the drive and load functions for improved passenger comfort.



Quick Install, a new pre-cabled electrical solution for lift systems

With its microprocessor, offering both high power and fast processing capability, and a real-time operating system, Quick Install is a true technological hub.

Its two additional CANopen buses optimise the performance needed for the control and permanent flow of informations from all of your lift's peripherals, regardless of its configuration.

Quick Install also benefits from the universal MoBee® interface (secure ZigBee transmission standard) for real-time access to all functions from all areas of the lift, enabling levels to be adjusted from inside the lift car, for example.

Other SODIMAS electrical solution : the NG240 controller



Advantages

- ↗ **Quick and easy installation**
- ↗ **Immediate activation**
- ↗ **Optimal energy efficiency**
- ↗ **Reliability you can trust**



Eco performance



1 - Counterweight motorised

Studies conducted by SODIMAS have demonstrated that lifts very rarely operate with a maximum load.

Consequently, the VMotionBe has been counterbalanced at 35%, thus limiting the load pulled by the motor. (To offset this, the motor's potential power has been increased to cater for a full load.)

It is due to the traction belt drive system that this "principle" can be used.

2 - The car

All lift cars in the SODIMAS range are fitted with **LED lights**, which are less energy-hungry and have a longer service life.

3 - GEARLESS machine

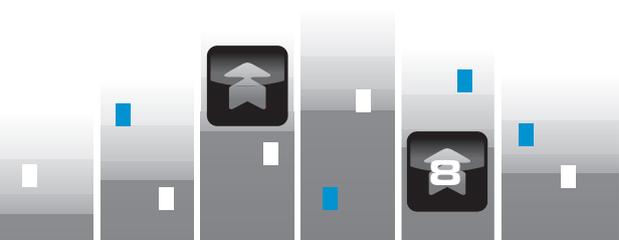
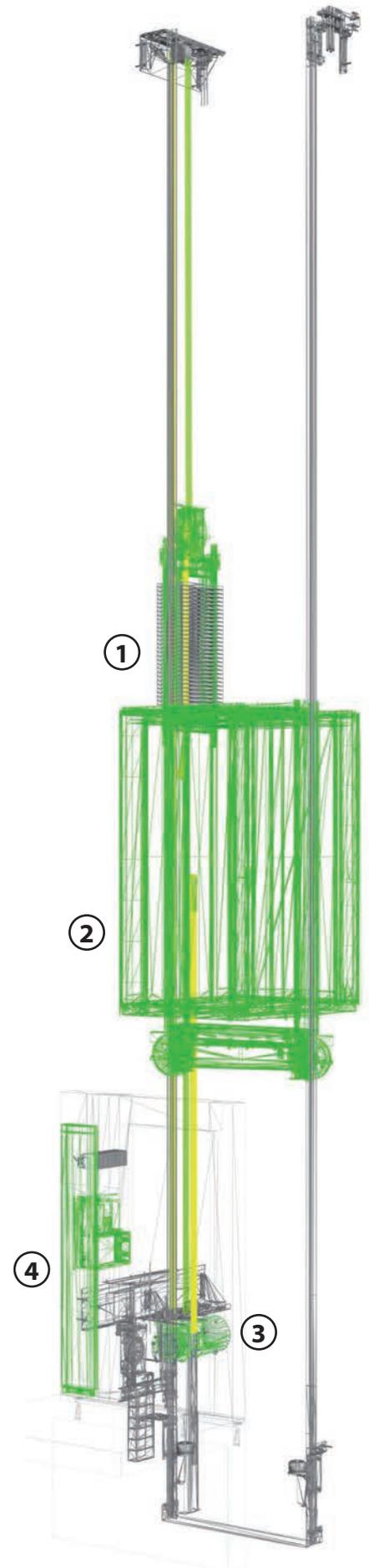
First, gearless traction machines do not use lubricant, as permanently greased bearings are used to turn the drive pulley.

Second, the combination of a gearless traction machine, a synchronous motor and a VVVF inverter provides **energy savings of around 50%**.

4 - Controller

The intelligent SODIMAS technologies (Quick Install and NG240) reduce energy consumption by **switching off** the landing indicators and lift car lights when the lift is on standby or has stopped.

These functions are reactivated immediately.



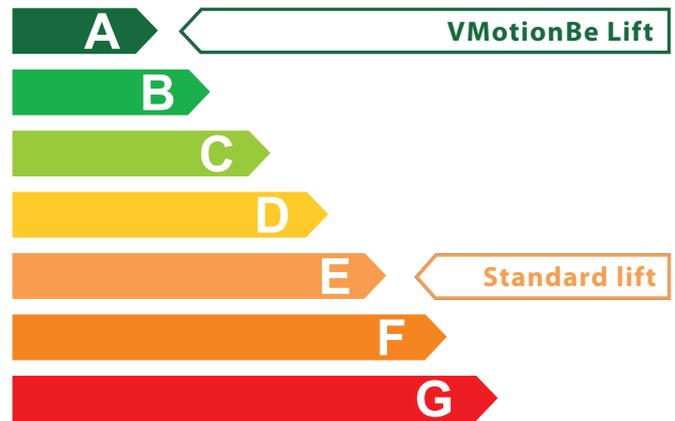
Proven energy savings

SODIMAS products, particularly those in the VMotionBe range, have been awarded an excellent energy saving classification, (based on the German standards establishing the VDI4707 guidelines).

This classification takes different criteria into account, such as a lift's load, speed and frequency of use, to judge its energy efficiency.

The VMotionBe is in A classification, reflecting its very low energy consumption.

Another study carried out in Grenoble on new, high environmental quality buildings, has confirmed the high energy performance of SODIMAS' lift systems : See box below.



Classified based on VDI4707 guidelines

Consumption of lift per flat



“ We note, [...], that the two lifts to consume the least are of the Sodimas make. This company based in Pont de l'Isère in the Drôme is not one of the sector's leading four companies. It has nonetheless developed original technologies (replacing the reducers with cable and pulley systems), which are perhaps also the most efficient, which it will be up to other audits to confirm. ”

Offering you choice

False ceiling white epoxy finish

Lighting by 4 LEDs spots (4W)
high efficiency
Integrated emergency light

Natural tone **mirror**

- Half height
Full width at car rear side
for single access

Width 80 cm at opposite side of COP
for through access

Handrails complies with 81-70 standard
Stainless steel finish aspect

Sill

Natural anodized aluminium

Skirtings

Stainless steel finish aspect

Entrance return and panels
in polished stainless steel

Laminated panels

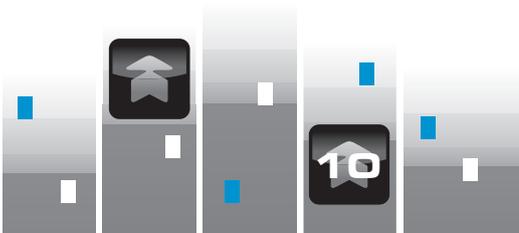
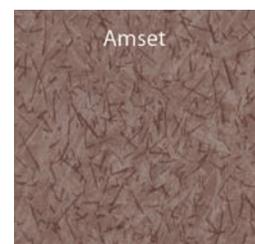
High pressure aminated panels,
6 mm thickness



ODEON
environment



Floor coverings
PVC (U4, P3, M3)
or 25 mm recessing





VENDOME environment

Full height operating panel in brushed stainless steel

- ↗ Angel EVOLYA micro switch push buttons (according to the 81.70 standard)
- ↗ 6" LCD level indicator with voice announcer
- ↗ Backlit logo and load plate (LEDs)
- ↗ Three-phonoc uninterruptible telealarm (comply with EN81-28)
- ↗ Integrated keypad access



False ceiling
Black or white decorative

Fluorescent **lighting**
Integrated emergency light

Full height mirror ton naturel
30 cm from floor, width 80 cm

Handrails complies with 81-70
Stainless steel finish aspect

Sill
Natural anodized aluminium

Skirtings
Stainless steel finish aspect

Entrance return and panels
in polished stainless steel

Panels
Laminated panels or natural essences in Print range (including the 9 colours see in Odeon range)



Stainless steel panels
Stainless steel panels high resistance



Polished stainless steel



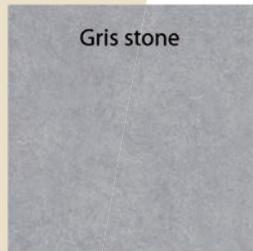
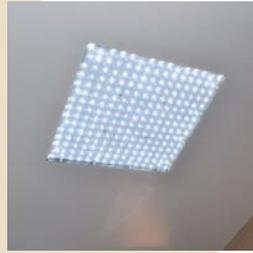
Engraved stainless steel



Lino stainless steel

Only the basic available components are shown here. Many other options are available. Please contact us.

SQUARE environment



Ceiling
White epoxy finish

Lighting
with a LED panel
integrated emergency light

16/9° mirror natural tone

Handrails
complies with 81-70 standard

Sill and skirtings,
natural anodized aluminium

Entrance and panels
in polished stainless steel

Floor covering
PVC (U2S,P2)
or 25 mm recessing

Panels
Stratified panel
Choice :

- **Plain** : For Walnut and Erable



- **Two-coloured** : Light Oak/ Wenge
(side panel / rear panel and vice-versa)



Half height operating panel in polished stainless steel

- ↗ Angel EVOLYA micro switch buttons
(according to the EN 81-70 standard)
- ↗ 4" LCD level indicator
with voice announcer
- ↗ Backlit logo and load plate (LEDs)
- ↗ Three-ponic uninterruptible telealarm
(comply with EN 81-28)
- ↗ Integrated keypad access

Available options for the VMBe range (please contact us) :

- ↗ Internal or external **glass or metal covered tower**, epoxy finish
- ↗ **Glass lift cars and doors** for a wide-angle view
- ↗ **Multiplex** (with Quick Install) :
Traffic optimisation system, allows control between 2 and 6 lifts, 32 levels, automatic or manual optimisation over time, energy savings, Automatic adaption of the traffic for the users need (artificial intelligence)
- ↗ **Emergency landing device** :
Controller for automatic evacuation in the event of a power failure
- ↗ **GSM phone** :
Quadband, integrated battery
- ↗ **7-inch colour multimedia indicator screen**
- ↗ **Sbox** (with Quick Install) :
Remote monitoring and supervision of lift operations

Our high-quality service



- ↗ Permanent support : our design office, sales team, after-sales service and training staff are all available to help you



- ↗ As an SME in a favourable geographical location, SODIMAS is always available to respond to your needs.
- ↗ SODIMAS also guarantees the permanent availability of its equipment, thanks in particular to its large stock of products



- ↗ An online customer space providing a set of services for your own use



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