vimec

V6s

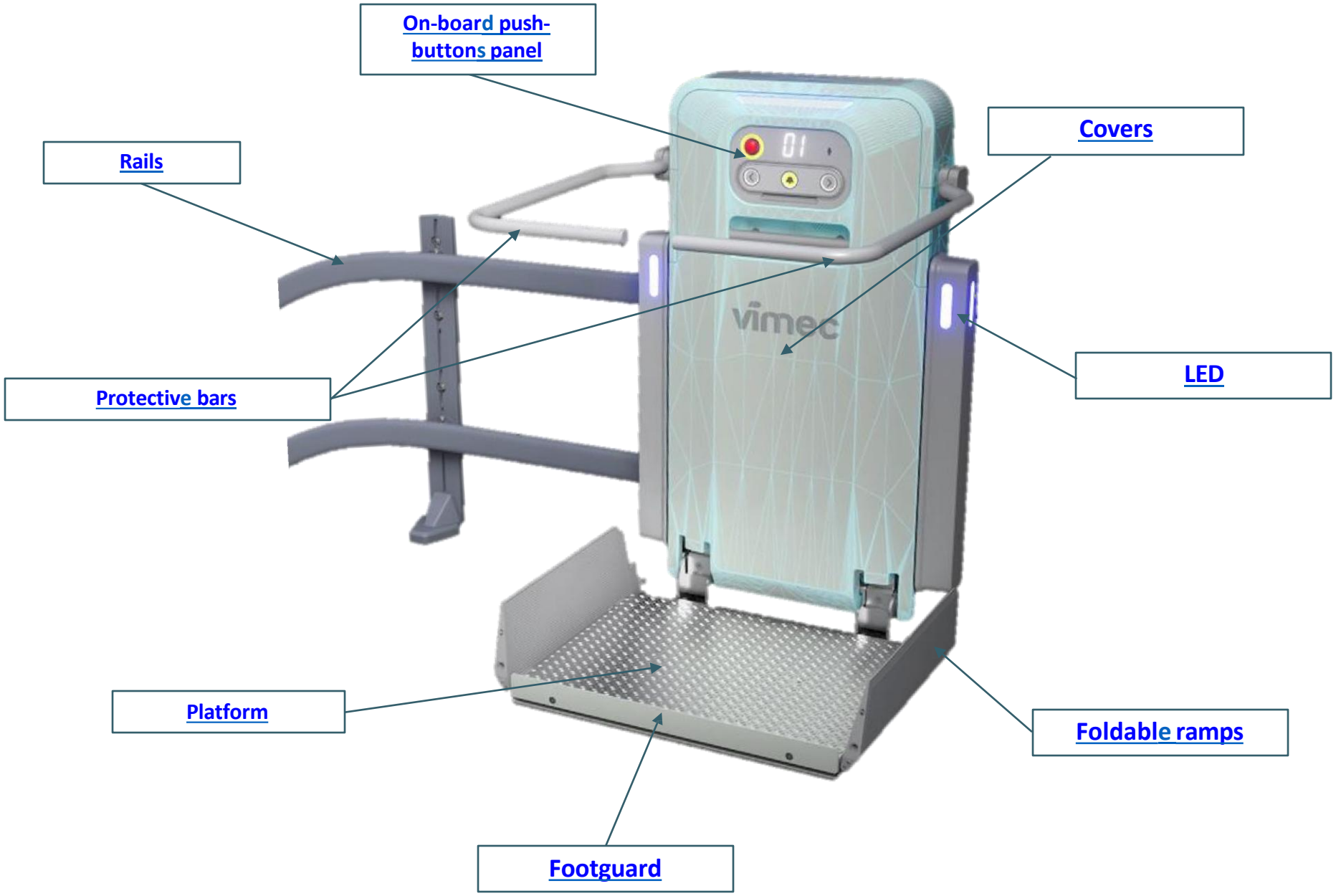
TECHNICAL CATALOGUE

March 2026

OVERVIEW

V6s Curved staircases	225 kg 50x30 rail	300 kg 80x40 rail
Rail size (mm)	50*30	80*40
Min. stair width (mm)	990	1010
Slope (min-max)	0° - 50°	
Min. encumbrance of rail (mm)	125	135
Min footprint when platform is closed (mm)	415	440
Capacity (up to 45°)	225 kg	300 kg
Capacity (over 45°)	225 kg	250 kg
Speed	0.10 m/s	
Battery power supply	24 Vdc	
Power consumption	0,2 kW	
Usage environment	Indoor/outdoor	
Operating temperature	-5°C/ +50°C	
Complies with the European Directive 2014/30 "Electromagnetic compatibility"		
Compliant with machinery directive 42/2006		

OVERVIEW


On-board push-buttons panel
Rails
Covers
Protective bars
LED
Platform
Foldable ramps
Footguard
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EN 81-40 - CHECKLIST

COMPLIANT

Below, we list all the points of the EN 81-40 standard respected by **V6s**:

Requirements	EN 81-40 ref.
Flame retardant and self-extinguishing materials	5.1.4.
Overload sensor *(std for 1250x800, 1000x900, 1000x800)*	5.1.6.2
IP 44 protection of the electrical system	5.1.8.2
Double chain traction with safety sensor	5.4.1.5
Driving pinion safety factor	5.4.5.1
Anti-trapping and anti-crushing guards	5.4.8.5
Two-way communication device (standard)	5.5.16.1
LED lights visual signs (standard)	5.5.16.2
Anti-slip walkable surface	5.6.4.1
Footguard 75 mm (upon request)	5.6.4.4.3
Handrail	5.6.4.5.2
Gaps between bars = 100 mm	5.6.4.5.3

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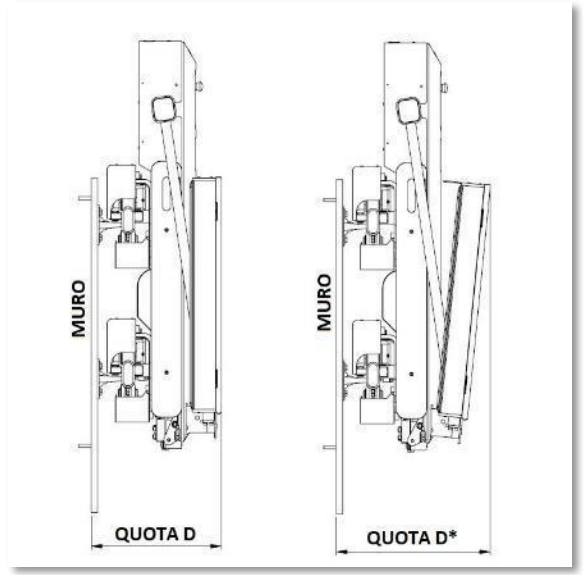
VERSIONS – OVERVIEW

NUOVA DIMENSIONE

V6s with 80x40 rails										
L	*Platform width*	**750**	**750**	**750**	**800**	**900**	**900**	**1000**	**1000**	**1250**
P	*Platform depth*	**600**	**650**	**700**	**700**	**700**	**800**	**800**	**900**	**800**
	Rail encumbrance w/ ***wall fittings*** *(mm)*	???								
	Rail encumbrance w/ ***std fittings*** *(mm)*	135								
NEW DESIGN	*Rail encumbrance w/* ***self-supporting fittings*** *(mm)*	205								
D	*Min. closed platform (also with seat)*	**440**								
		460	**445**							
D*	*Min. closed platform with foot guard EN81-40 (also with seat)*	**465**	**465**							
		505								
D**	*Min. closed platform with front access*	**560**	**570**	**580**			**600**		**625**	**600**
	Capacity up to 45°	300 kg								
	Capacity over 45°	250 kg								



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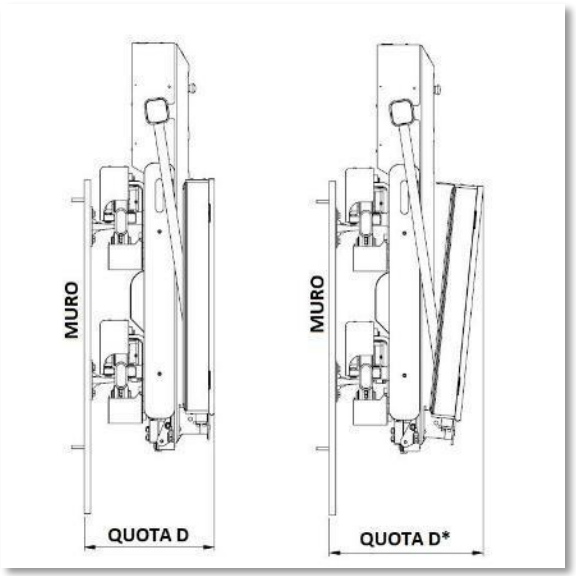
VERSIONS – OVERVIEW

NUOVA DIMENSIONE

V6s with 50x30 rails									
L	***Platform width***	**750**	**750**	**750**	**800**	**900**	**900**	**1000**	**1000**
P	***Platform depth***	**600**	**650**	**700**	**700**	**700**	**800**	**800**	**900**
	Rail encumbrance w/ ***wall fittings*** *(mm)*	???							
	Rail encumbrance w/ ***std fittings*** *(mm)*	125							
	Rail encumbrance w/ ***self-supporting fittings*** *(mm)*	195							
D	*Min. closed platform (also with seat)*	**415**							
		440	**420**						
D*	*Min. closed platform with foot guard EN81-40 (also with seat)*	**445**							
		485	**445**						
D**	*Min. closed platform with front access*	**540**	**550**	**560**			**580**		**600**
	Capacity	225 kg							

NEW DESIGN



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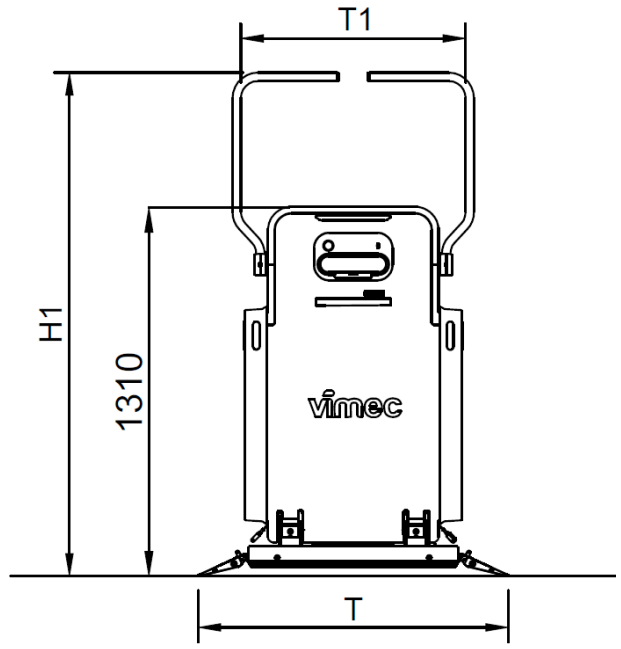
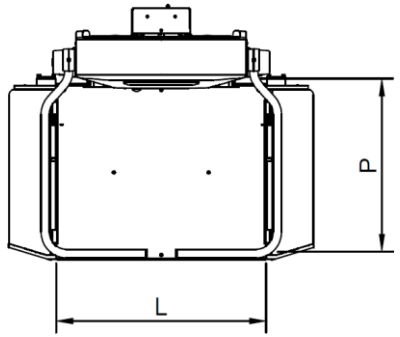
DIMENSIONS – MACHINE BODY

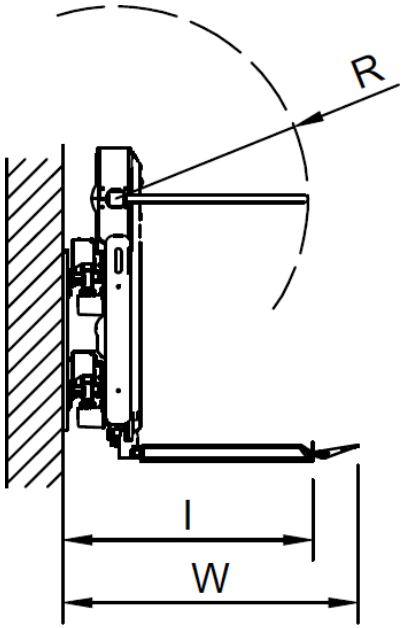
NUOVA DIMENSIONE

V6s with 80x40 rails										
L	***Platform width***	**750**	**750**	**750**	**800**	**900**	**900**	**1000**	**1000**	**1250**
P	***Platform depth***	**600**	**650**	**700**	**700**	**700**	**800**	**800**	**900**	**800**
I	*Min. lateral encumbrance*	935	985	**1035**			**1135**		1235	1135
T	*Platform width with open flaps*	1120			1170	**1270**		1370		1620
T1	*Width with extended bars*	805				**905**		1005		1255
H1* (including the height of the platform base from floor = 30mm)	*Height with open bars*	1810	1860	1910		**2010**				
R	*Bar Path Radius*	685	735	785		**885**				

with self-supporting supports+70mm





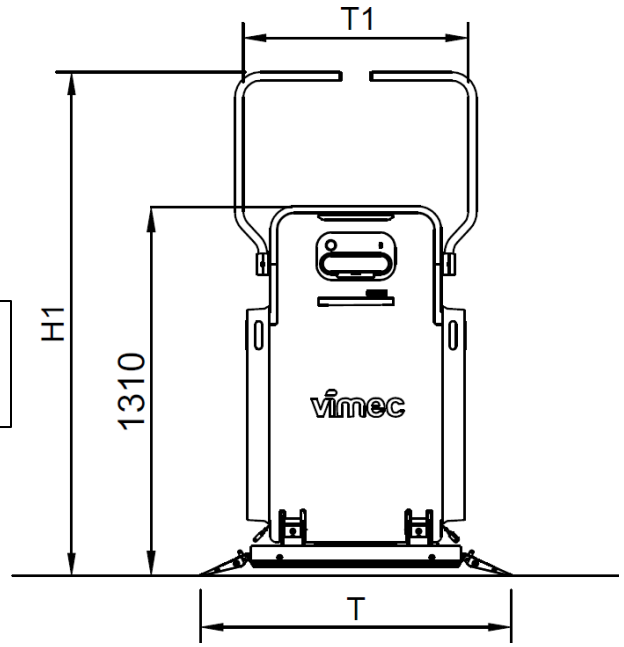


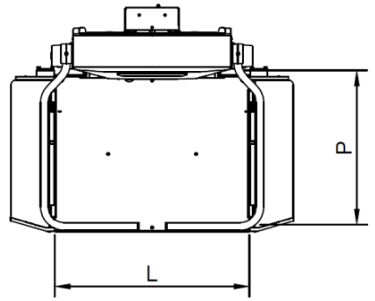
DIMENSIONS – MACHINE BODY

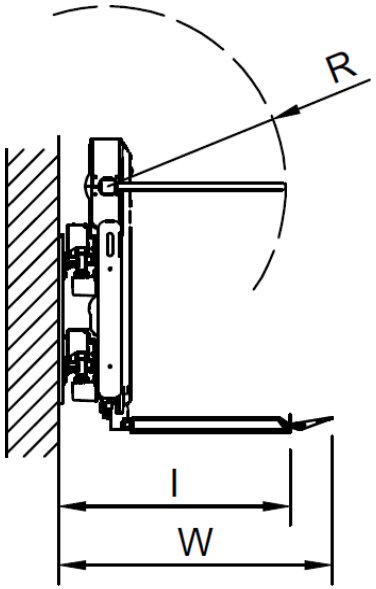
V6s with 50x30 rails									
L	***Platform width***	**750**	**750**	**750**	**800**	**900**	**900**	**1000**	**1000**
P	***Platform depth***	**600**	**650**	**700**	**700**	**700**	**800**	**800**	**900**
I	*Min. lateral encumbrance*	**910**	**960**	**1010**			**1110**		**1210**
T	*Platform width with open flaps*	1120			1170	**1270**		1370	
T1	*Width with extended bars*	805				**905**		1005	
H1* (including the height of the platform base from floor = 30mm)	*Height with open bars*	1810	1860	1910			**2010**		
R	*Bar path Radius*	685	735	785			**885**		

NUOVA DIMENSIONE

with self-supporting supports+70mm







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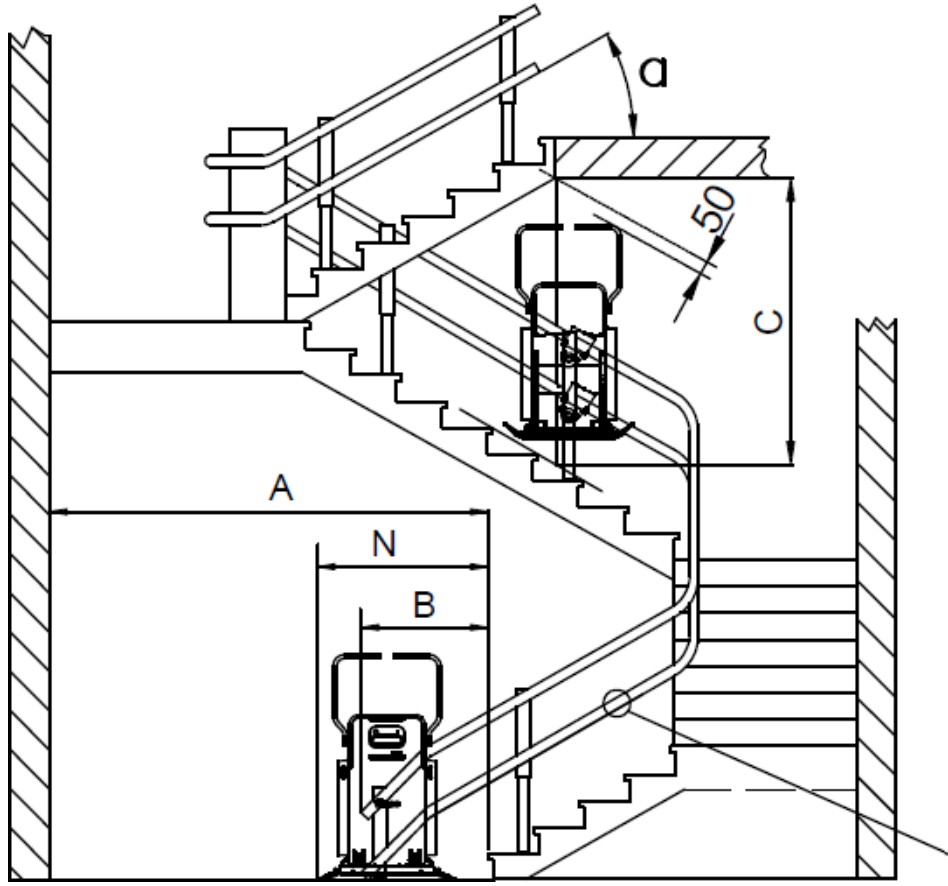
DIMENSIONS – FRONT VIEW

NUOVA DIMENSIONE

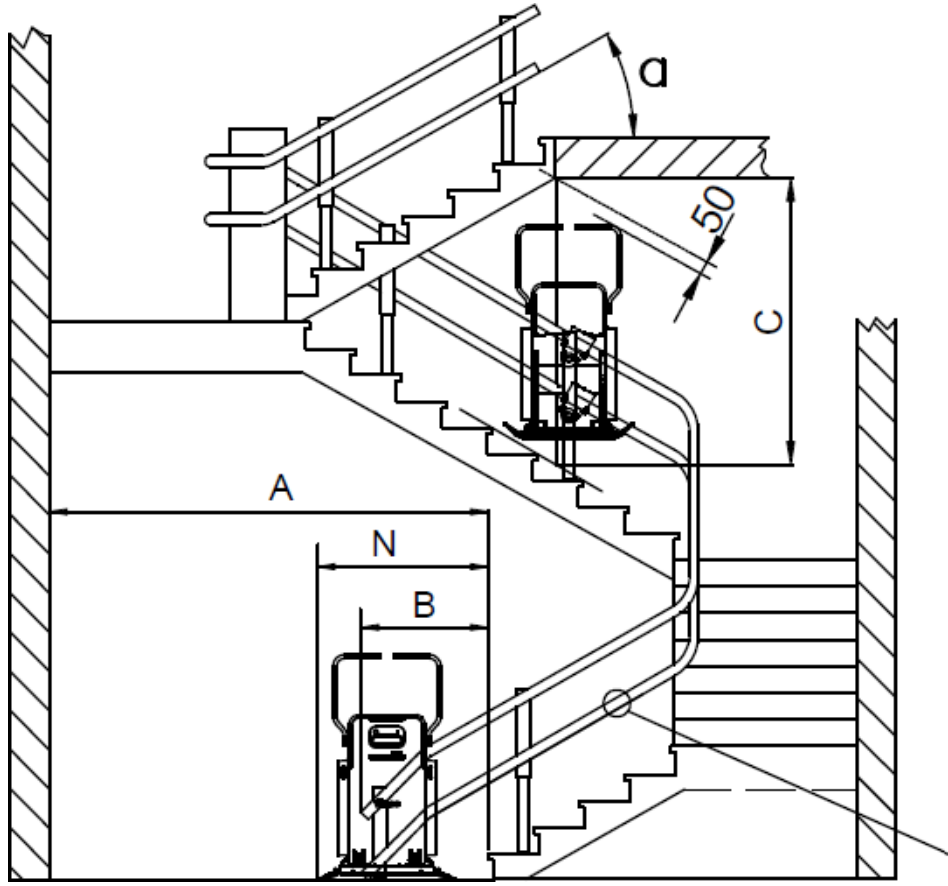
V6s with 80x40 rails										
L	***Platform width***	**750**	**750**	**750**	**800**	**900**	**900**	**1000**	**1000**	**1250**
P	***Platform depth***	**600**	**650**	**700**	**700**	**700**	**800**	**800**	**900**	**800**
A*	*Lateral ascent (w/ drop nose)*	**2150**			**2200**	**2300**		**2400**		**2650**
B*	Landing rail footprint (w/drop nose)	**890**			**940**	**1040**		**1140**		**1390**
N*	Machine footprint on starting landing (w/drop nose)	**1150**			**1200**	**1300**		**1400**		**1650**
C	Bars in working position	1810			1825	**1855**		**1885**		1960



DIMENSIONS – FRONT VIEW

V6s with 50x30 rails									
L	*Platform width*	750	750	750	800	900	900	1000	1000
P	*Platform depth*	600	650	700	700	700	800	800	900
A*	*Lateral ascent*	2150			2200	2300		2400	
B*	Landing rail footprint (w/drop nose)	890			940	1040		1140	
N*	Machine footprint on starting landing (w/drop nose)	1150			1200	1300		1400	
C	Bars in working position	1810			1825	1855		1885	

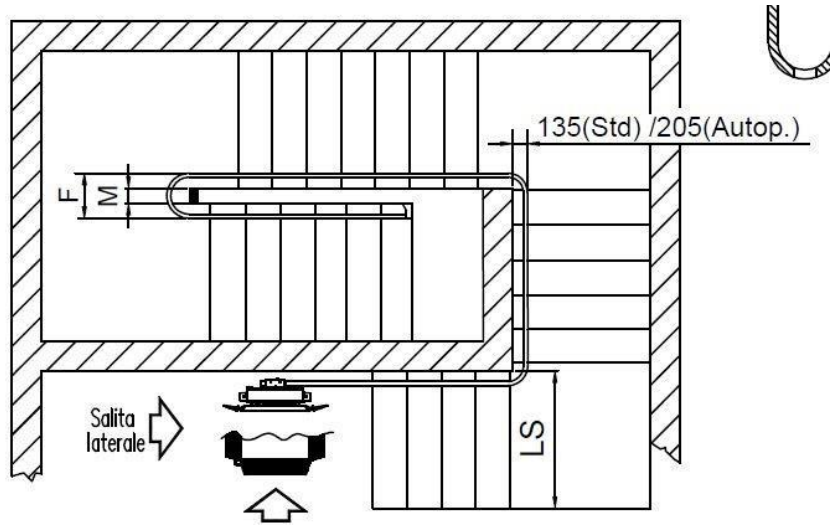
NUOVA DIMENSIONE



DIMENSIONS – VIEW FROM ABOVE

NUOVA DIMENSIONE

V6s with 80x40 rails										
L	***Platform width***	**750**	**750**	**750**	**800**	**900**	**900**	**1000**	**1000**	**1250**
P	***Platform depth***	**600**	**650**	**700**	**700**	**700**	**800**	**800**	**900**	**800**
F 0<M<110		380								
F 110<M<190		460								
F M>190		M+270								
LS	*With rounded flaps*	1010	1055	1100	1110	1125	**1220**	1240	1325	1305
	With flaps NOT rounded	1035	1080	N.D.	N.D.	N.D.	**N.D.**	N.D.	N.D.	N.D.
	With front access	**1115**	**1160**	**1210**	**1215**	**1230**	**1325**	**1340**	**1435**	**1385**



Minimum stair widths in case of a 180° curve or double 90° curve with wall/railing space (M value) =110mm or =190mm
In case of a double 90° curve, for any other M value less than 190mm, calculate the new minimum width according to the following formulas:

- (0<M<110) $LS(new)=LS+\frac{110-M}{2}$
- (110<M<190) $LS(new)=LS+\frac{190-M}{2}$

with self-supporting supports+70mm

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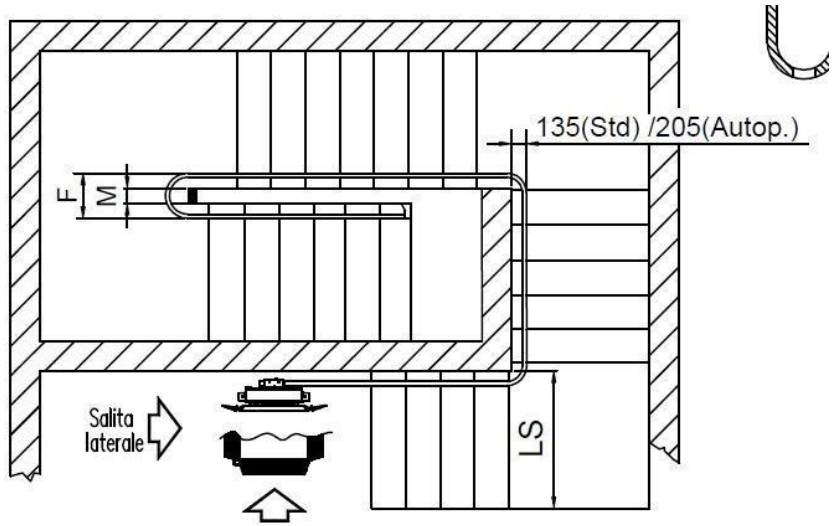
DIMENSIONS – VIEW FROM ABOVE

NUOVA DIMENSIONE

V6s with 50x30 rails									
L	***Platform width***	**750**	**750**	**750**	**800**	**900**	**900**	**1000**	**1000**
P	***Platform depth***	**600**	**650**	**700**	**700**	**700**	**800**	**800**	**900**
F 0<M<60		310							
F 60<M<110		360							
F 110<M<160		410							
F 160<M<210		460							
F M>210		M +250							
LS	*With rounded flaps*	990	1030	1075	1085	1105	**1195**	1215	1300
	With flaps NOT rounded	1015	1055	N.D.	N.D.	N.D.	**N.D.**	N.D.	N.D.
	With front access	1095	1140	1190	1195	1210	**1305**	1320	1420

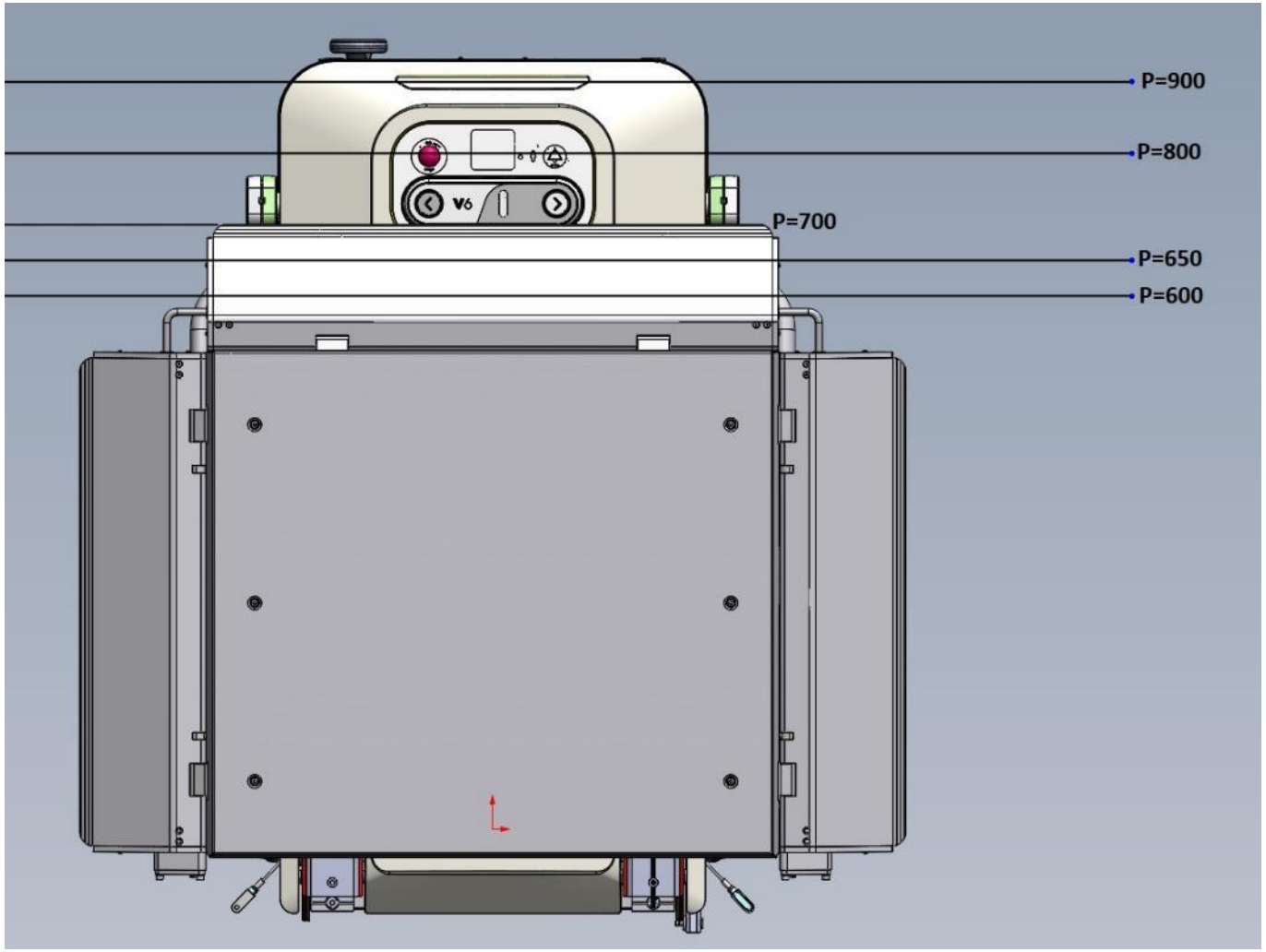


Minimum stair widths in case of a 180° curve or double 90° curve with wall/railing space (M value) =60/110/160/210mm
In case of a double 90° curve, for any other M value less than 210mm, calculate the new minimum width according to the following formulas:

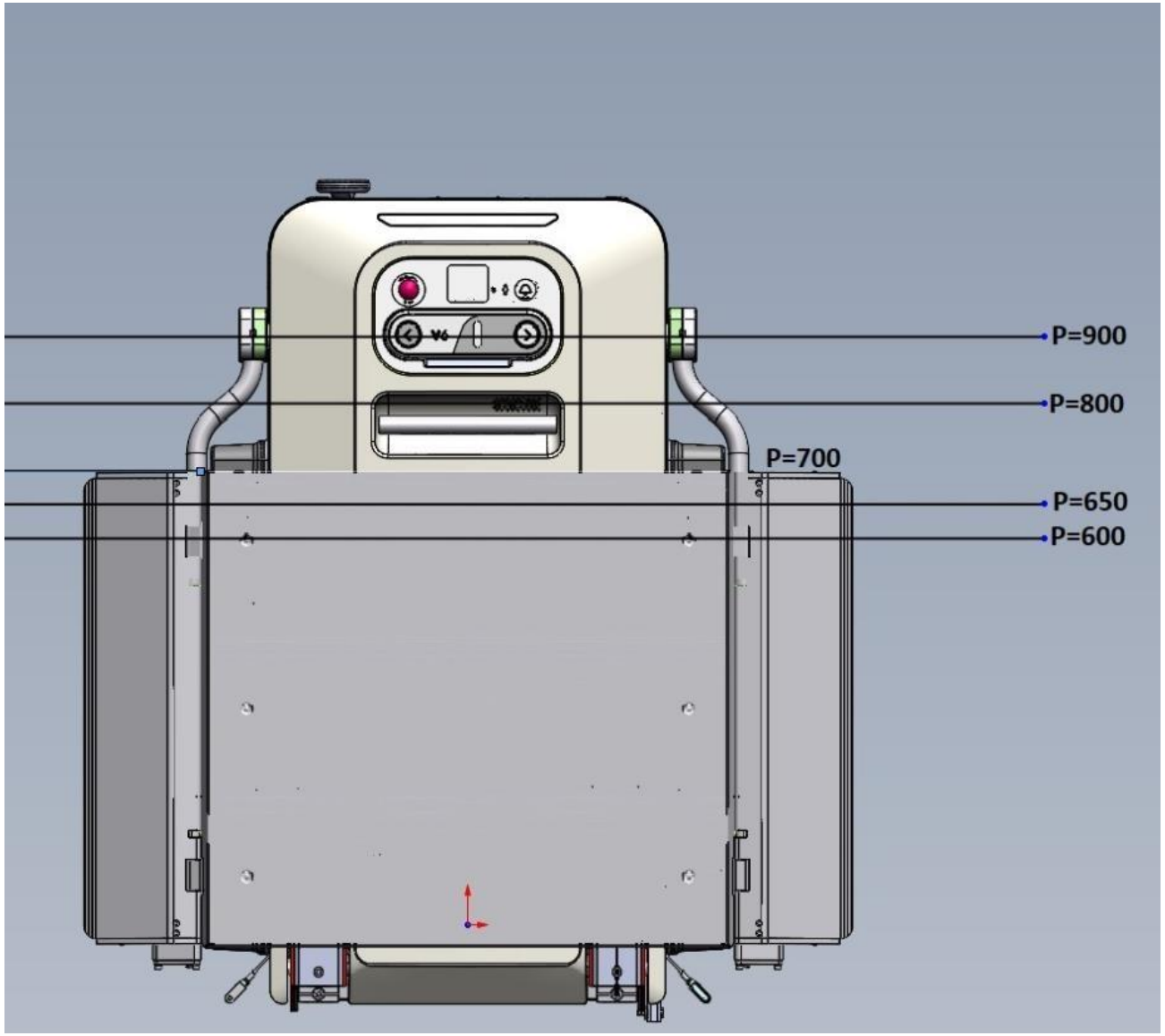
- (0<M<60) $LS(new)=LS+\frac{60-M}{2}$
- (60<M<110) $LS(new)=LS+\frac{110-M}{2}$
- (110<M<160) $LS(new)=LS+\frac{160-M}{2}$
- (160<M<210) $LS(new)=LS+\frac{210-M}{2}$

with self-supporting supports+70mm

DIMENSIONS – CLOSED PLATFORM HEIGHT FRONT ACCESS



DIMENSIONS – CLOSED PLATFORM HEIGHT LATERAL ACCESS



SALES MEMO – ON-BOARD CONTROLS

Recessed red stop button to prevent accidental activation

Backlit display as standard

In **RAL 7047 Telegrey 4** for all versions

Directional buttons with extended active part – the whole area can be easily activated even without the use of hands!

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ON-BOARD PUSH-BUTTON PANEL

The standard on-board push-button panel is made of thermoplastic material and is 170 x 280 mm in size.
The on-board control panel includes:

- Round directional buttons with arrow for ascent and descent
- Emergency "bell" button
- Stop button
- Display and indicator lights
- Magnetic activation key

The **arrow** and **bell buttons** are rounded and have a diameter of 40 mm – the entire surface is active to allow you to press the button more easily even without the use of your hands. Only the directional keys have the backlit crown.

The operation of the two directional buttons is of “dead’s man” type and it is therefore necessary to constantly hold the button until the platform reaches the floors and stops automatically.

The **bell button** is always active regardless of the status of the key and it activates an **audible alarm** and the **auto-dialer** when present.

DISPLAY AND INDICATOR LIGHTS

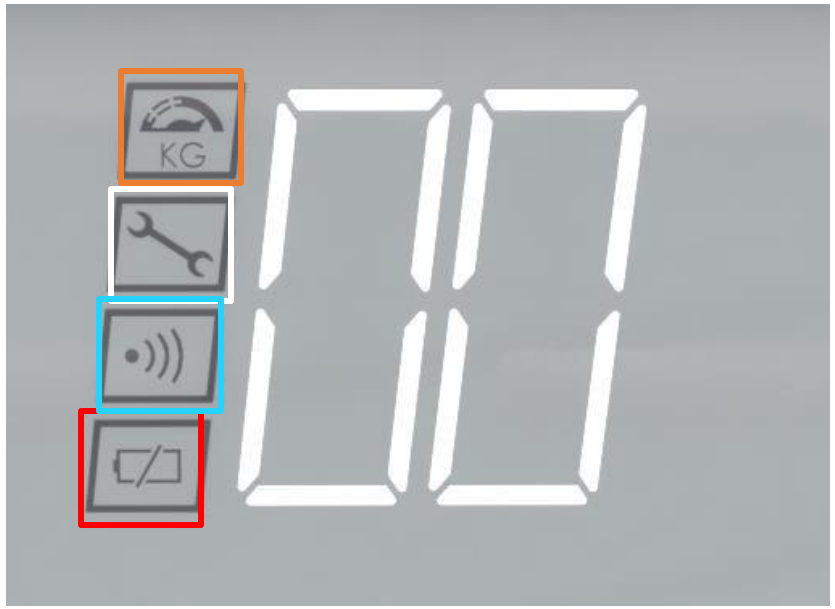
Overload light white

LED

- Overload sensor standard for 1250x800 , 1000x900 and 1000x800.
- Optional for other platforms

Fault reporting

White LED



Radio signal reception

White LED

It is activated when the floor remote control or the remote control for attendant is used.

Battery signal

Green LED: battery charged

Orange LED: battery not fully charged

Blinking Red LED: charging battery

V6s is equipped as standard with an **LED light display** located behind the dashboard cover. The symbols appear via backlight.

The display provides information on the status and activity of the machine, in particular:

- **DIRECTION OF TRAVEL:** the display shows directional arrows in motion
- **FLOOR** where the car is located
- **ERROR CODES:** When the machine is in error, the display shows the corresponding error code to facilitate the technician and/or users in resolving the problem. Some errors are recoverable and can be fixed directly through the user manual or the app MyVimec.

LED

V6s is equipped to standard with **5 RGBW LED strips**, one positioned above the control panel and 2 placed on each side bumper.

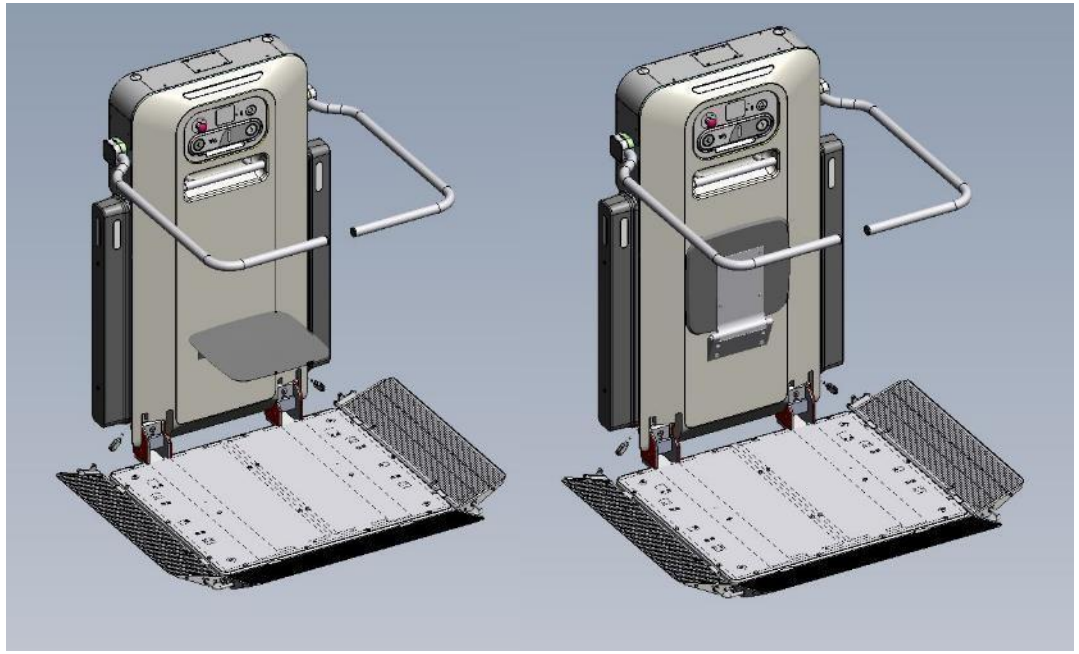
The LEDs provide in an intuitive and immediate way some information on the status and activity of the machine, in detail:

- **GREEN LED fixed**
  Machine ready to be used
- **BLUE LED flashing**
  Moving machine
- **RED LED flashing**
  Movement not possible (e.g. due to obstruction)
- **RED LED fixed**
  Machine in error
- **GREEN LED flashing**
  Machine in self-centering zone
- **YELLOW LED flashing**
  Machine called from the floor

OTHER FEATURES

All the V6s are integrated with an **aluminum handle** placed in the upper part of the stairlift is used as a support during the motion.
The "recessed" position of the handle avoids any accidental impact.
The length is 268 mm, and the diameter is 25 mm.

Compliant with regulation EN 81-40, 5.6.4.5.2, the space around the handle must be greater than 30 mm to ensure a comfortable grip for users.



A **folding seat** with a maximum capacity of **130** kg can also be ordered as an option.

The presence of the seat does not affect the footprint of the closed machine.

COVERS

Front cover available in RAL 9018 or 7024

V6s has been designed to adapt to every condition and environment of use.

In particular, all hoods, caps and side panels have an **IP 44** rating which means that "internal" electrical and electronic devices are protected against the penetration of solid foreign bodies with a diameter of 1 mm and above and is protected from splashing water from all directions.

In addition, these components are fireproof or self-extinguishing and classified as **V0** according to the UL94 standard "Degree of Extinguishing of Plastics" – this means that in the event of a fire, the flame is extinguished within 10 seconds.

Rear covers

COMPLIANT **Compliant with regulation EN 81-40, 5.1.4**

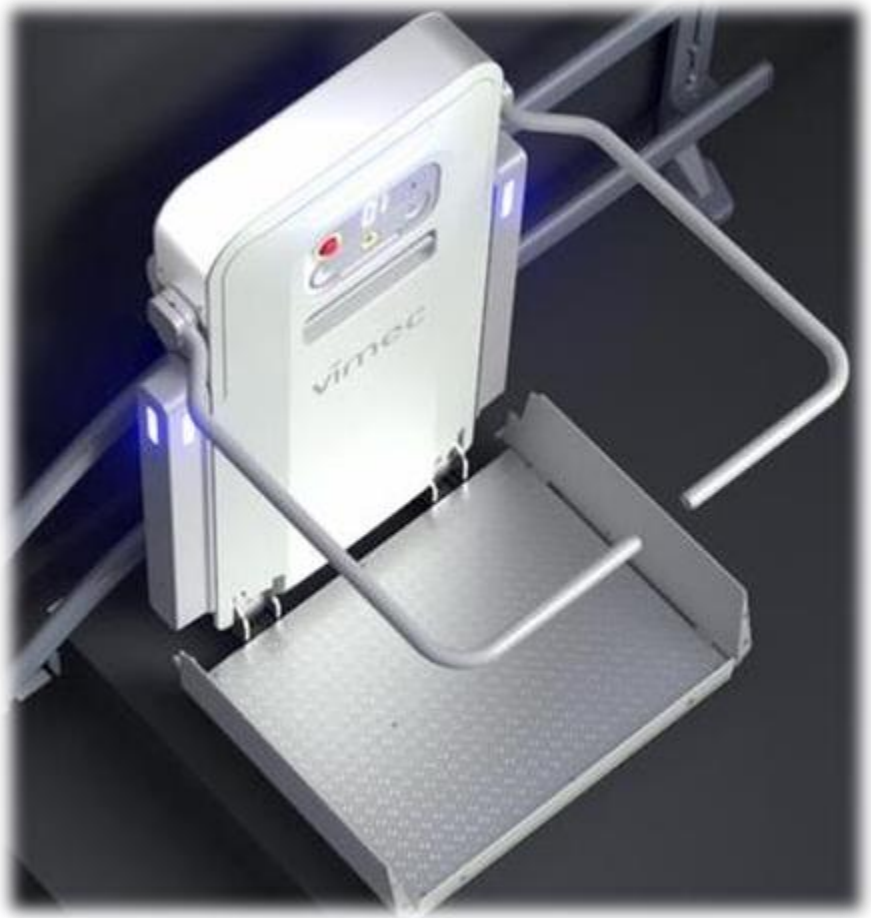
SALES MEMO – PROTECTIVE BARS

ALUMINIUM
RAL 9006

SIMPLE MANUAL UNLOCKING

DISTANCE BETWEEN BARS IN ACCORDANCE WITH 81-40
Between 100 and 150 mm

COMPLIANT



FOLDABLE DOWNWARDS

INTERLOCKED BARS

COMPLIANT

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FLOOR CONTROLS

In the standard equipment of V6s, **a radio push-button panel is provided for each served floor.**
The push-button panel consists of a wall housing and a removable remote control.

Using the **O** "call" button, the machine is called back to the desired floor.
Using the **P** "parking" button, the machine is sent to parking.

All push-button panels are enabled by a **removable magnetic key** - you cannot use the machine without the key being inserted.
2 keys are provided for each standard supplied push-button panel (4 keys in total).
The remote control is supplied with a 3.7V rechargeable battery.

As with the on-board controls, all the floor controls are “dead’s man” type (just remove your finger from the button and the machine stops).

As option, it is possible to request for a radio-push button panel for the attendand (with a maximum of 3 pieces each machine).

ACCESS – PLATFORM

V6s is always equipped with a **motorised platform** through an electromechanical actuator - it is necessary to keep the C button pressed on the push-button panel for the platform to open automatically, the connecting flap will be placed in the boarding position and the descent side bar in the working position.

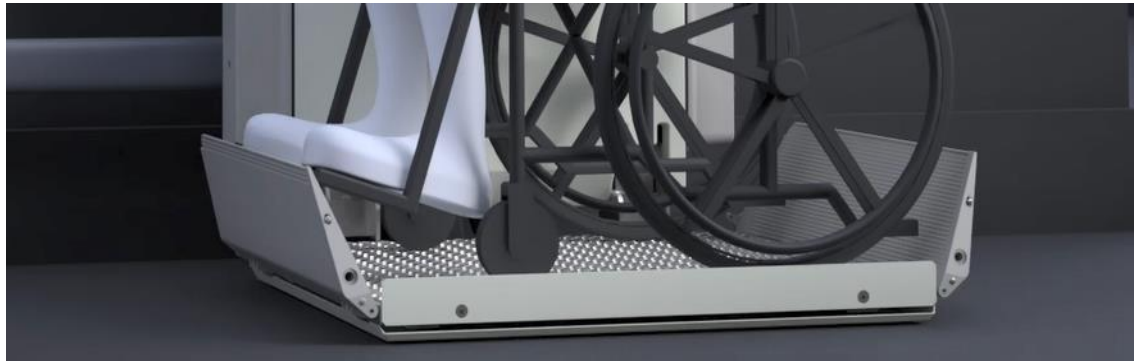
A special manual manoeuvre allows you to close the platform in emergency conditions (see dedicated slide).

The platform is also protected by **safety flaps** on the right and left sides, with lateral access, and on 3 sides with front access (optional), which have the dual function of facilitating the ascent to the floors (open position) and containing the wheelchair during the path of the machine.
Before the machine leaves the plane, the flaps are automatically brought to the safety position (inclined at 75°).

The flap facing the descent opens only on the lower floor of the path. In case of resistance to the movement of the flaps, an overcurrent protection intervenes by blocking the recalled function.
In case of standard side access, the platform is always equipped with a **front foot guard** with a standard height of 5.5 cm.

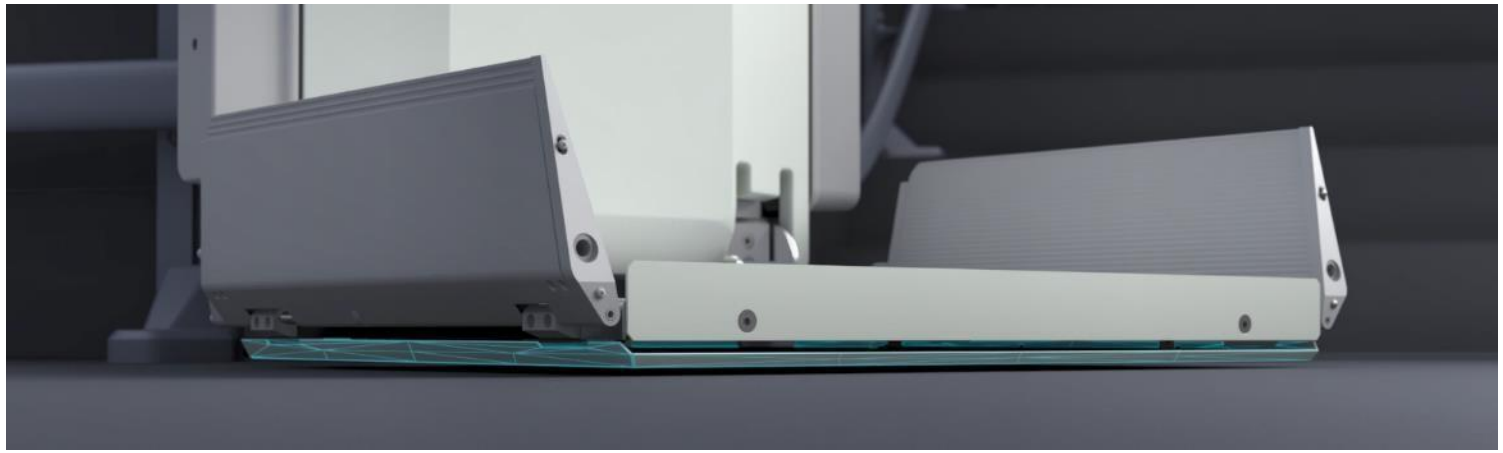
As an option, the foot guard is available
EN 81-40 with height 7.5 cm.

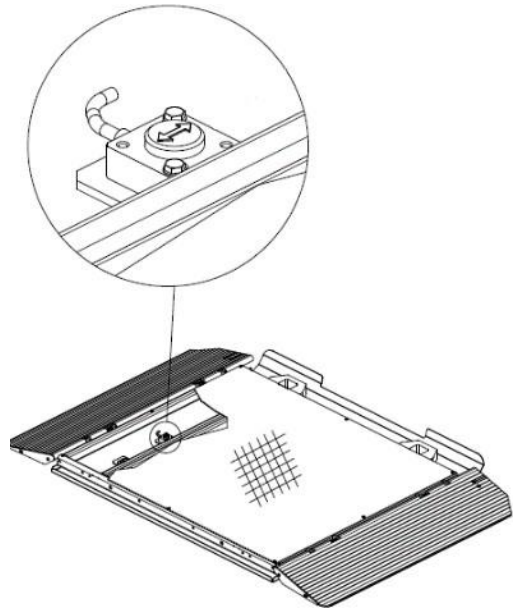
COMPLIANT



ACCESS – PLATFORM

All the platforms are also equipped with **SAFETY EDGES UNDER THE PLATFORM** – under the platform are in fact installed microswitches able to stop the platform in the event that, moving down, there is any obstacle between the staircase / floor and the platform.
Until the obstacle is removed, the platform cannot proceed in its downward movement but can instead climb to allow the removal of the obstacle or the landing on the upper floor.



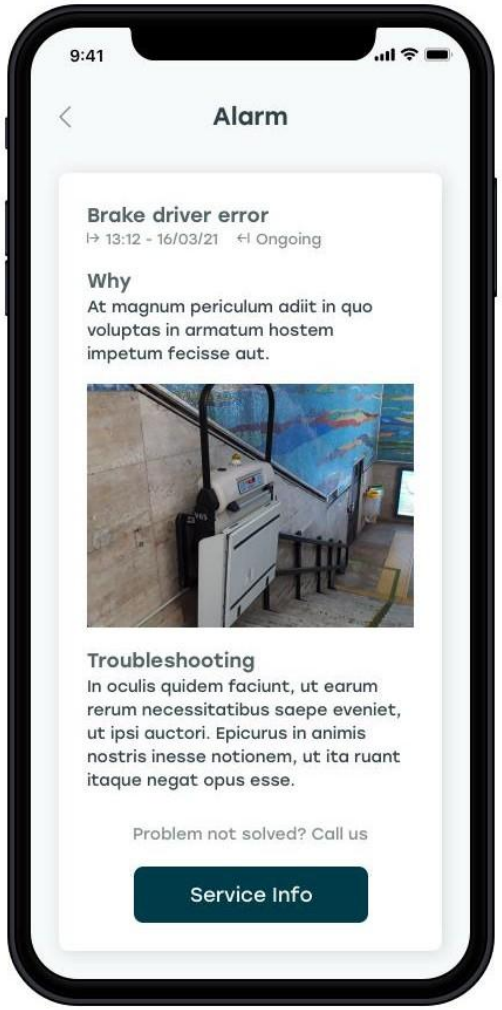


All platforms can be equipped with an **overload sensor** that aims to check for any overloads of the platform.
In case of overload, the inclinometer causes the appropriate indicator light on the display to light and stops the machine.

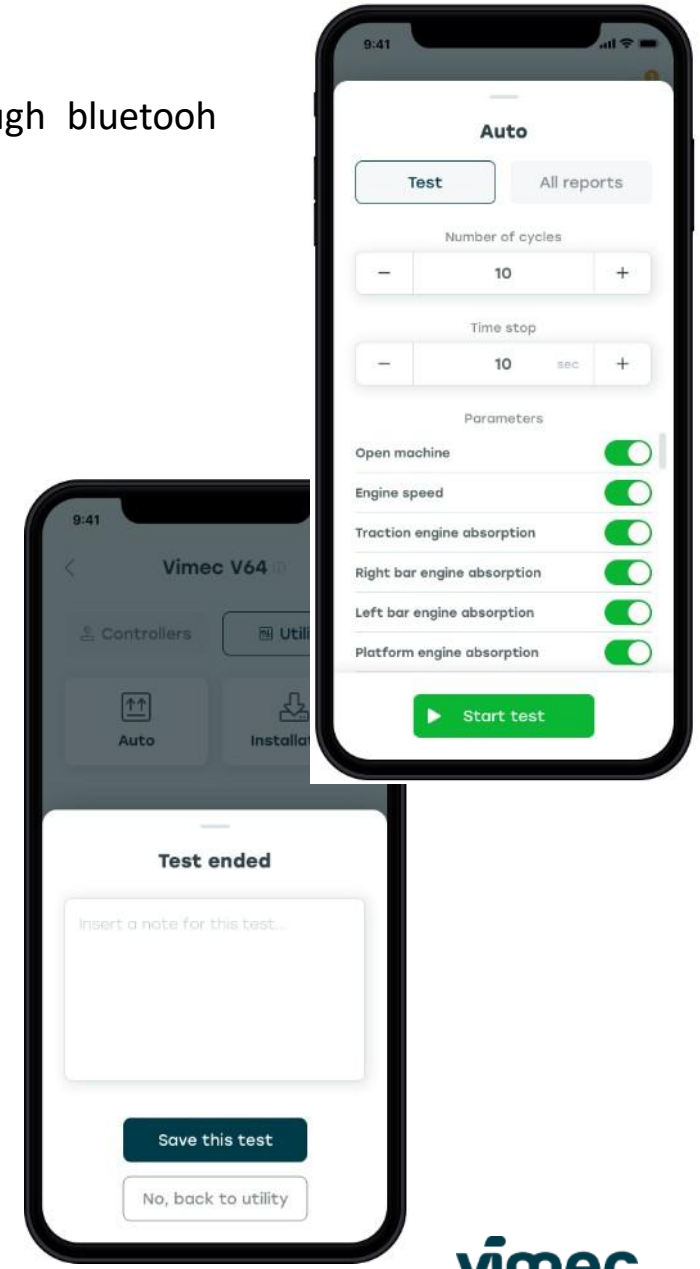
The overload sensor is standard on 1250x800, 1000x900 and 1000x800 platform sizes.

MYVIMEC APP – TECHNICIAN

The MyVimec app is a very useful tool available to the technician / maintainer because, through bluetooh connection with the machine, it will allow you to:



- Receive real-time information on the **status** of the machine (e.g. battery charge level, machine position, etc.)
- Receive real-time information about machine **alarms** or **error** codes and machine recovery instructions
- **Configure** the machine on site
- Carry out **tests** (functionality still being defined)



SALES MEMO – TRACTION

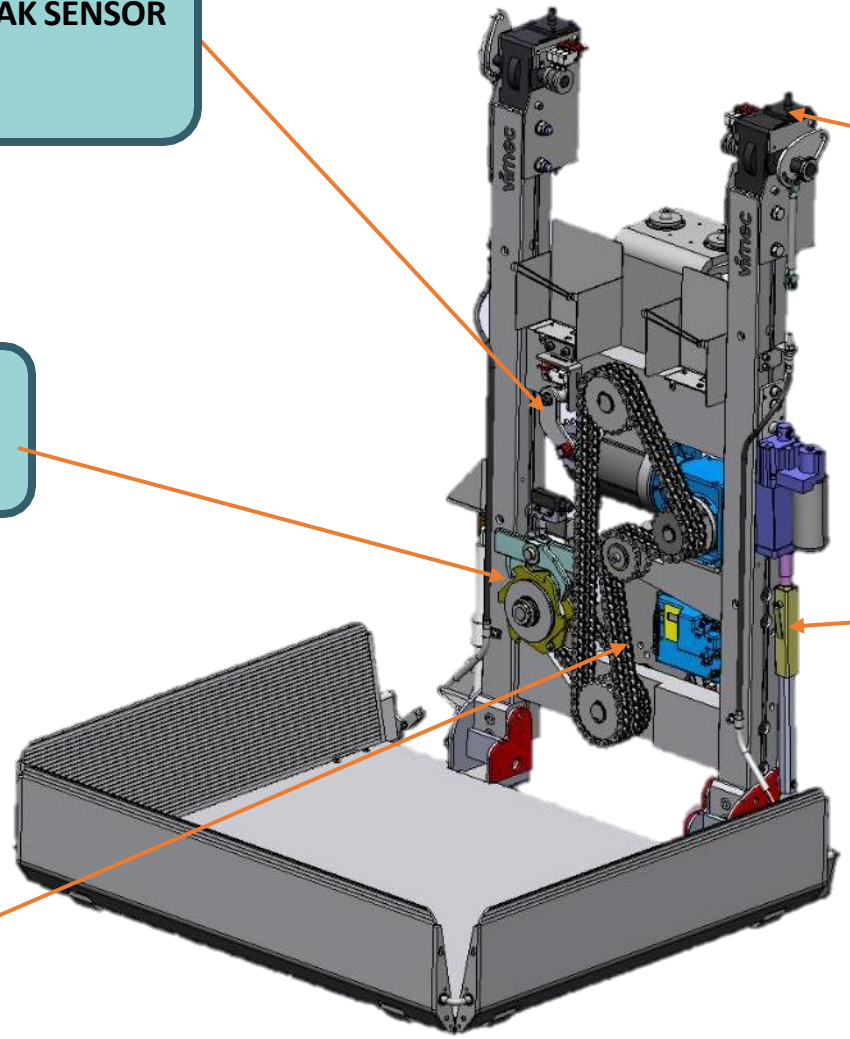
MAIN CHAIN BREAK SENSOR

Safety gear

COMPLIANT

DOUBLE CHAIN IN ACCORDANCE WITH 81-40

COMPLIANT



Manual bar opening in emergency

Manual platform opening in emergency

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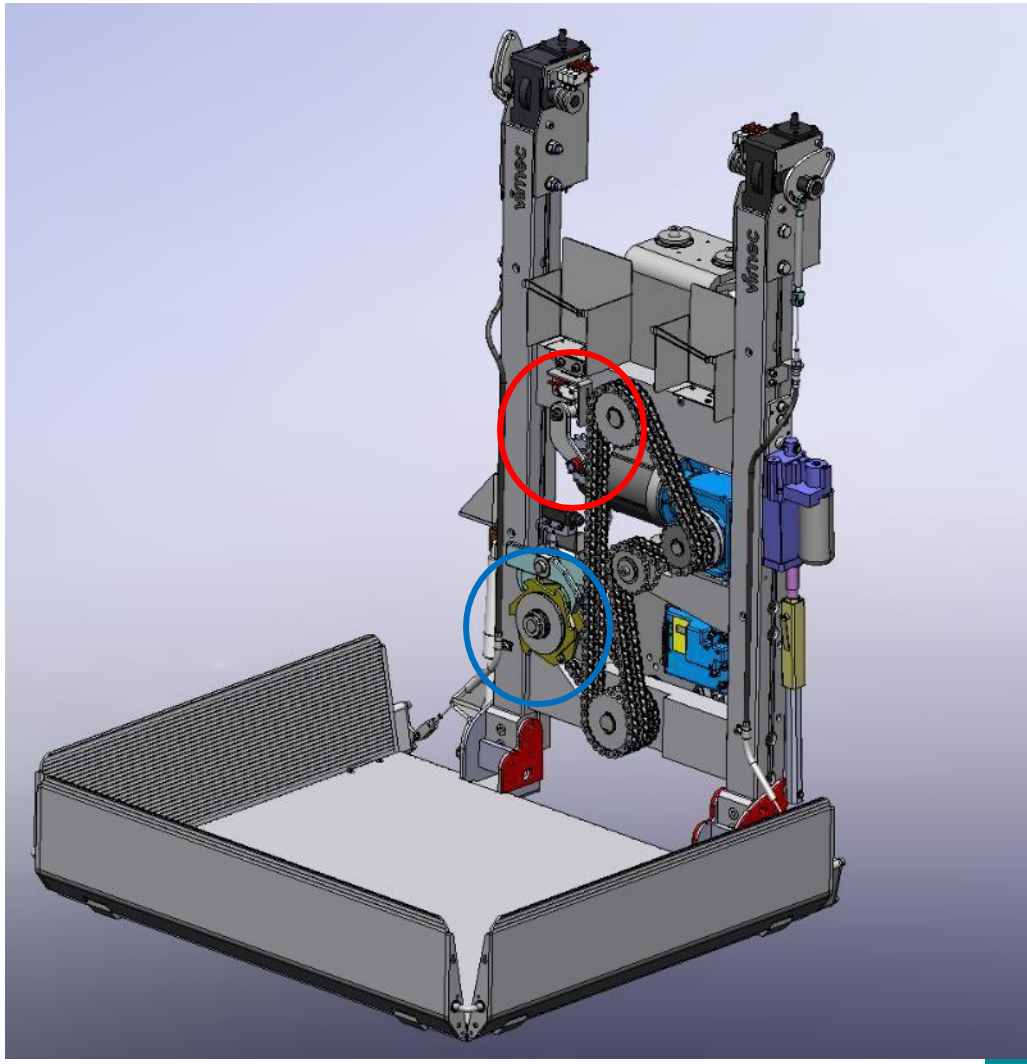
TRACTION

The traction system of the V6s is of the **rack and pinion type** on perforated guides.
V6s provides a standard:
- Double pinion
- Double towing chain equipped with a main chain break sensor (highlighted in **red**)

The mechanical safety gear and speed limiter (highlighted in **blue**) intervene in case of breakage of the traction organs or at a predetermined speed of descent higher than the nominal one.
The intervention of the device causes the machine to stop.

V6s is powered by 2 x 24 Vdc batteries that can be recharged at charging stations.
The power and consumption data from the mains are:
Voltage: 100-300 Vac
Maximum power consumption: 180W



TRACTION – RAILS

The standard rails of V6s are made of S355 steel and treated with sandblasting, epoxy painting and additional cataphoresis in case of outdoor installations.

The standard color of the guide is **RAL 7024 graphite grey**.

N.B. It is possible to request an alternative colouring of the guide by warning the customer about the delicacy of this (in these cases the customer is required to fill out a dedicated form).

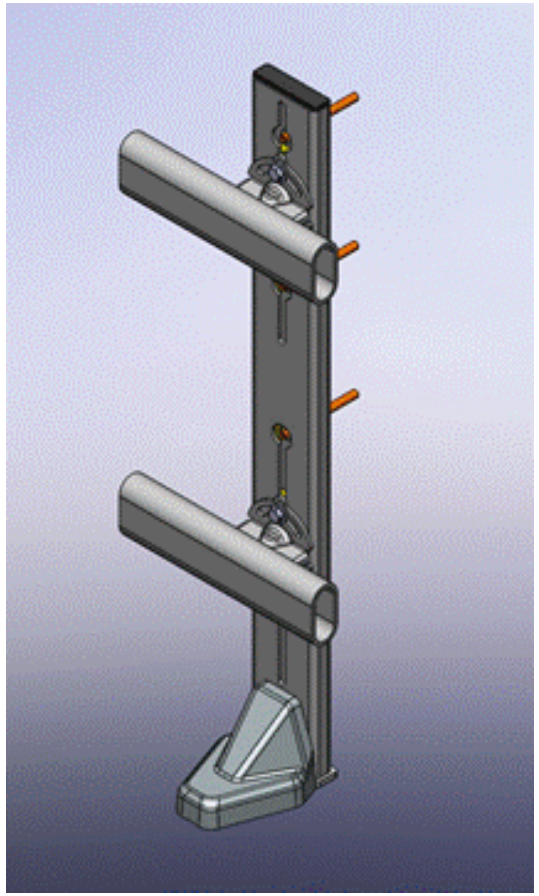
The V6s guides have two different sizes depending on the required loading capacity:

- **80 mm x 40 mm with capacity 300 kg**
- **50 mm x 30 mm with capacity 225 kg**

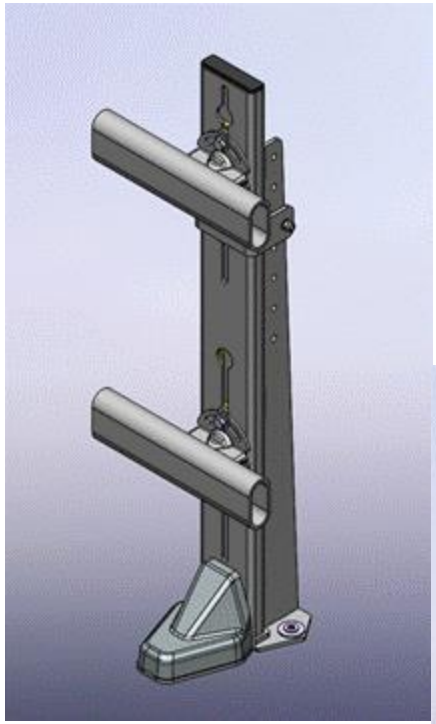
V6s comes standard with 2 charging stations located at the beginning and end of the guide – optionally, you can select them for each intermediate stop provided.

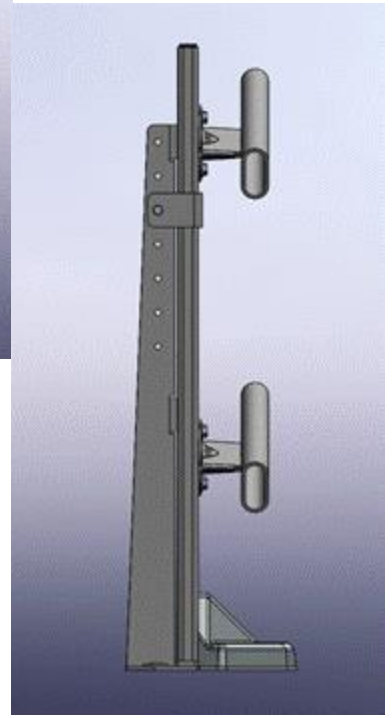
TRACTION - FIXINGS

NEW DESIGN



STANDARD FIXINGS
Made in steel, painted RAL 7024





SELF-SUPPORTING FIXINGS
Made in steel, painted RAL 7024

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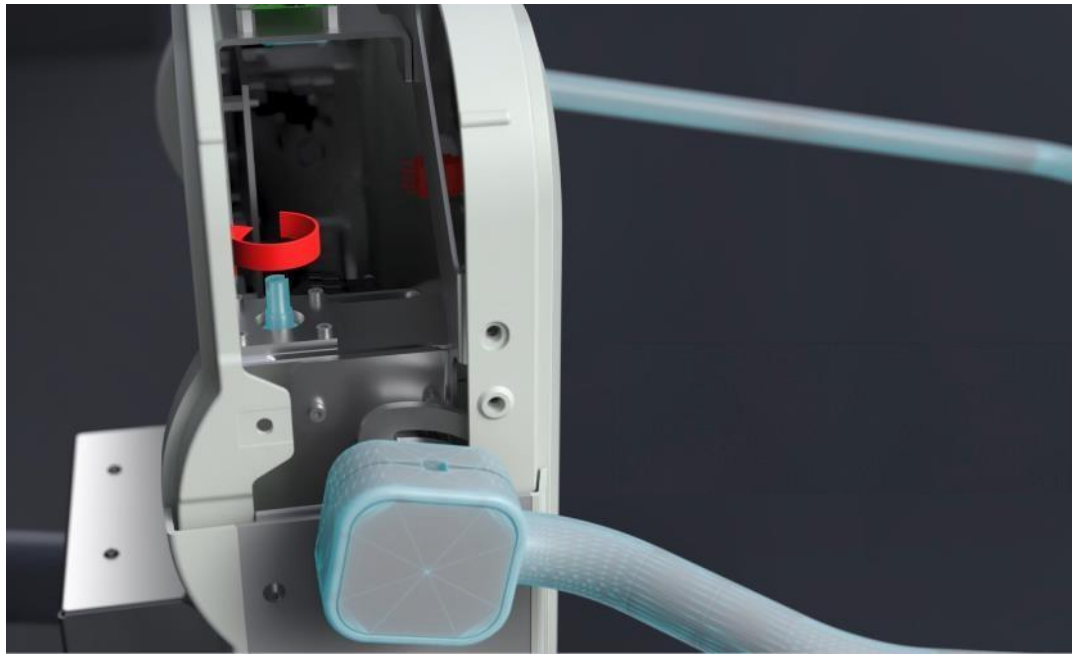
SAFETY - OVERVIEW

As partly already discussed in the previous slides, V6s integrates numerous devices and measures that place it in first place among competitors in terms of safety.

Below, we list all the main security elements present on V6s:

- **Protection bars**
- **Platform flaps and foot guard**
- **Double chain**
- **Manual unlocking of BARS and PLATFORM**
- **RESCUE MODE**
- **Electric and mechanical limit switches**
- **Shockproof, anti-skinning edges on the machine body and on the platform:** they stop the motion of the machine in contact with any obstacle. However, they allow the movement of the machine in the opposite direction to that in which the obstacle was encountered to free the way.
- **Safety edges under the platform**
- **Safety switches on side bumpers**
- **Inclinometer**
- **Safety gear and speed limiter:** intervenes in case of breakage of the traction organs or at a predetermined speed of descent higher than the nominal one. The intervention of the device causes the machine to stop.

SAFETY – MANUAL UNLOCKING OF BARS AND PLATFORM



1. MANUAL UNLOCKING BARS

By removing the upper bonnet through a few simple operations, you can manually fold the bars down by acting on the small shaft indicated in the image on the left.

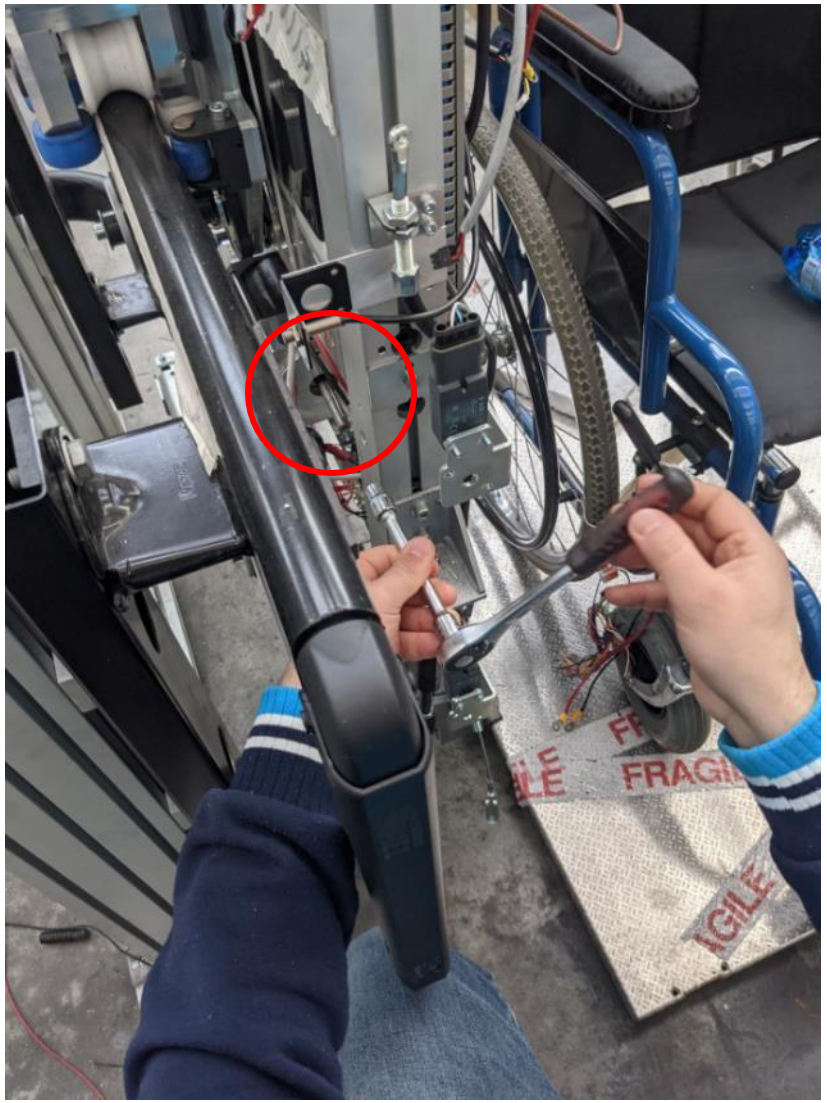
2. MANUAL PLATFORM UNLOCKING

By pressing the lever as shown in the image on the right, you can manually close the platform with the other hand – the operation can also be carried out by a single person.

SAFETY – RESCUE MODE

If the machine is blocked along the stair, it can be moved by a simple manual emergency manoeuvre or "**Rescue mode**". After unlocking the platform and arms, you act on the small shaft circled in red in the image through a tool supplied with the machine.

By turning the tool in the 2 directions it is possible to move the machine up or down.



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SALES MEMO – COLORS AND MATERIALS

GRAPHITE GREY
RAL 7024

- Front cover
- Under-platform
- Footguard

SAME FOR BOTH VERSIONS:

RAL 7047

- Dashboard

RAL 9006

- Handrail
- Side flaps (and front where present)
- Side bumpers ,bars and Upper cover
- Vimec logo

RAL 7024

- Rails and supports

PAPYRUS WHITE
RAL 9018

- Front cover
- Under-platform
- Footguard

SALES MEMO – COLORS AND MATERIALS

SAME FOR BOTH VERSIONS:

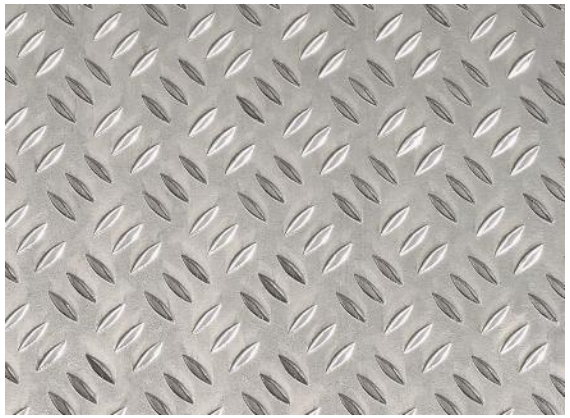
RAL 9006

Upper hood

RAL 7024

Rear covers

Natural almond aluminium footboard



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SALES MEMO – COLORS AND MATERIALS

RAL 7024

Fitting SMOOTH MATT

Rail SMOOTH

Flange ORANGE-PEEL GLOSSY

Rail end SMOOTH MATT

Foot ORANGE-PEEL GLOSSY

Foot cover SMOOTH MATT

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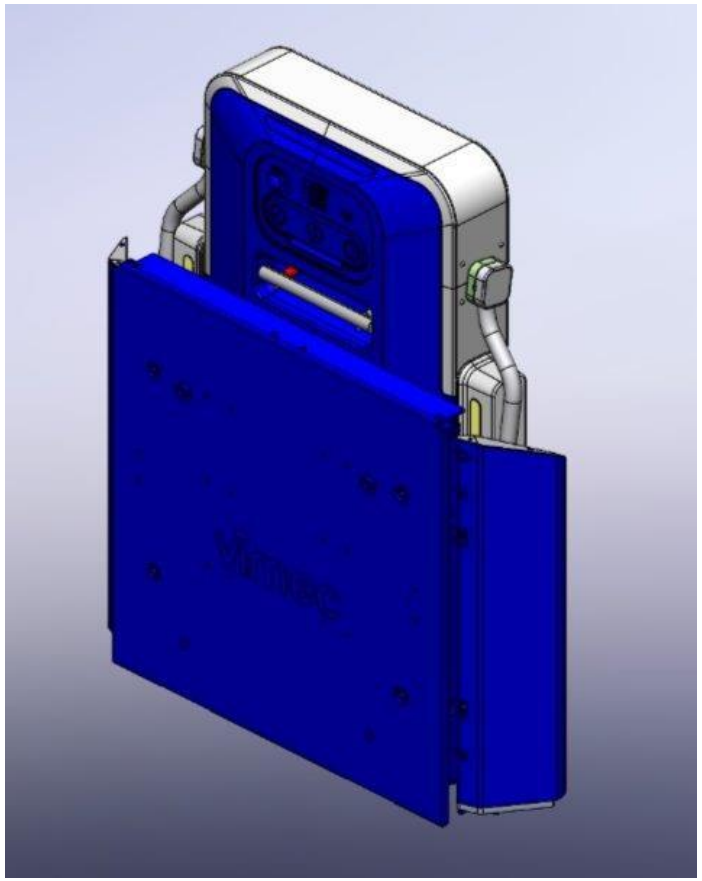
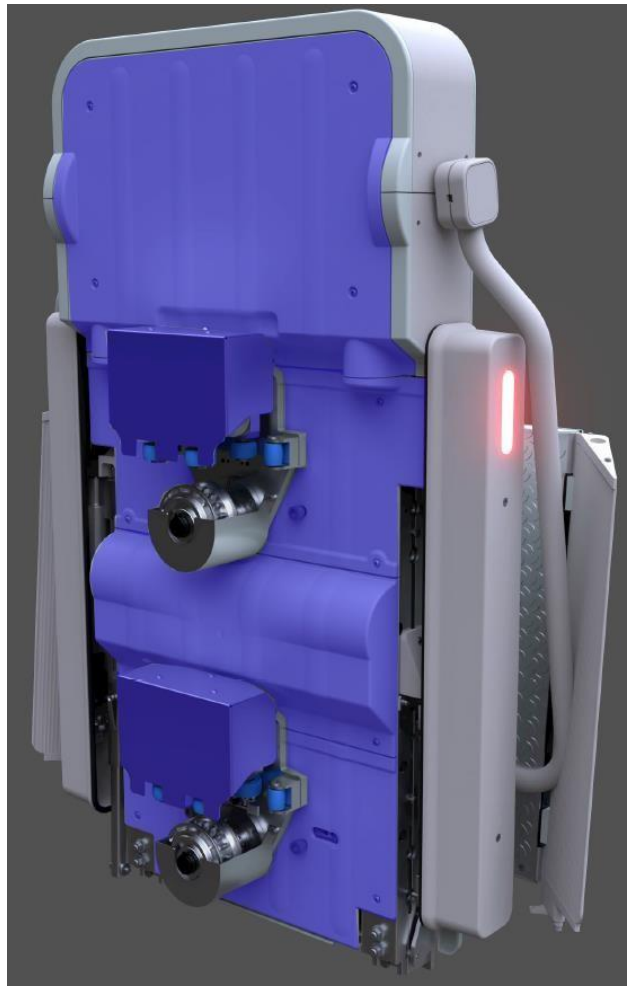
SALES MEMO – SPECIAL RAL COLOURS

Special RAL colours are available as option for:



< Front side
(including front cover of the machine body, platform double bottom, flaps and foot guard – side bumpers, flaps'lateral covers and upper hood not included)

Rear side >
rear cover over the machine body



^
Rails and fittings (steel parts only, plastic covers and closures upon request)

SALES MEMO – COLORS AND MATERIALS

CUSTOM WRAPPING ON REQUEST

ASSEMBLY

Machine Body in ALUMINIUM

ONE MACHINE BODY FOR RIGHT/LEFT VERSION

ONE MACHINE BODY FOR INDOOR/OUTDOOR

ONE MACHINE BODY FOR ALL PLATFORM SIZES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