ZEN-0

Battery-powered Electric Lift

ARE

WeAre

High Efficiency Electric Lifts

ARE

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01

WeAre

The first company to produce battery-only plants

Over 15 years of development

A.R.E. Srl was founded in 2009 thanks to the futuristic vision of Franco Antonelli, an elevation sector pioneer. His experience, which dates back to 1953, has revolutionised the way we design lifts with insights that have since become major sector milestones.

In 1995, Franco took up the challenge of finding a solution to the issue of accessibility for disabled people, a problem which the regulations at the time did not allow a traditional lift to solve. This led to him developing innovative technology for home lifts. His insight enabled home lifts to exceed the traditional 4-metre limit and transformed these products with their limited installation opportunities and reputation for being unsafe into highly reliable solutions that are considerably more versatile than traditional lifts.

Franco's search for new solutions continued in the years that followed. In 2003, he introduced a revolution in the industry: the use of batteries as the main power source for lifts. Up until that point, in fact, batteries had only been used on the sidelines and for stairlift.

Franco Antonelli's entrepreneurial vision was realised in 2009 with the birth of A.R.E., which stands for Ascensori a Risparmio Energetico (Energy Saving Lifts). Today, under the leadership of Franco's son, Filippo Antonelli, A.R.E. continues to invest in technological research for developing increasingly efficient, cutting-edge solutions.

+70 years' experience

+300 retailers

+8000 lifts installed

Energy efficiency has always been our goal. We invest constantly in the development of technologies that offer innovative, high energy performance solutions.

02

Our technology

Patented technology ARE SMART-POWER®

The regenerative electric lift

ARE SMART-POWER®

ZEN-0 is a major step forward in the world of electric lifts. Like all our lifts, it benefits from ARE SMART POWER technology.

Anti-Blackout System

The main ZEN-0 power system is battery-driven, so the lift can be used normally even if there is an unexpected power cut.

Energy recovery system

While in use, the energy produced by ZEN-0 is not wasted as heat but stored in the batteries which optimises the lift's performance levels and dramatically reduces electricity supply costs.

Commited power

ZEN-0 consumes only 300W [1] of power, on a par with what is needed for an everyday electrical appliance.

Switch Mode

When the charge level of the batteries goes under a preset threshold, ZEN-0 automatically activates the SWITCH mode.
In this mode ZEN-0 uses the grid to power the motor and it moves at a reduced speed to remain within the installed electricity meter's parameters.
An indicator light inside the cabin informs the client about the mode activation.
When the batteries reach the sufficient charge level, ZEN-0 automatically exits from SWITCH mode and works again with the batteries.

[1] In the switch mode the amount of power is equal to 1200W during fast charging 1500W. Value taken as a reference on a platform of 450kg payload with 0,15m/s speed.

Anti-Blackout System

Remaining trapped due to an unexpected power outage is a problem that nearly all new lifts have overcome.
But being able to continue using the lift as if the power were still on is a feature very few lifts offer. ARE has perfected this technology right from the beginning and includes it on all its lifts.

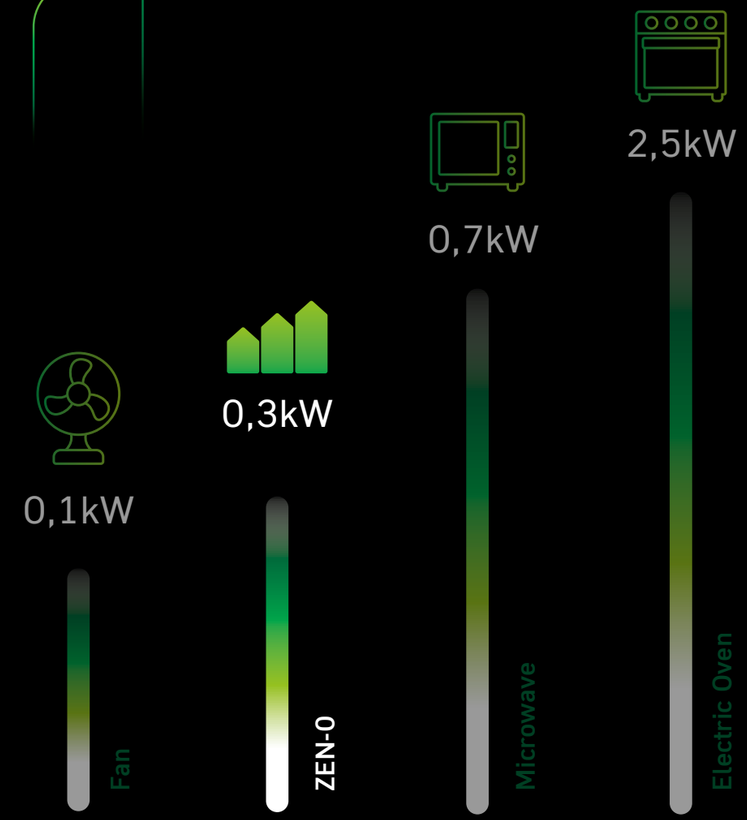
ZEN-0 is no exception. It ensures functionality and constant accessibility for everyone, even during prolonged power outages.

Maximum power used

The maximum power consumed by ZEN-0 is just 300W. [1]

There is no need to adjust your domestic meter or install another, higher capacity one, as is required for all other lifts.

The standard power meter installed in all homes or the building meter in a block of flats is sufficient.



Electric lift : 6 kW

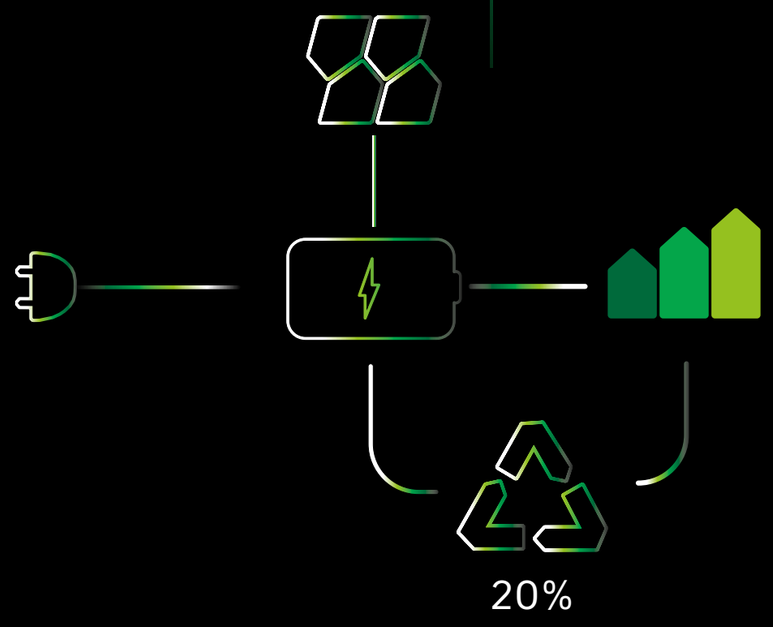
[1] In the switch mode the amount of power is equal to 1200W during fast charging 1500W. Value taken as a reference on a platform of 450kg payload with 0,15m/s speed.

Energy recovery system

The ZEN-0 Platform can generate energy during normal usage phases: when the cabin is going up empty or when it is going down and is full. The energy produced is not lost but stored in the batteries.

Thanks to the use of this technology, on average, one in every five times it is used, it does not absorb energy from the grid but uses what has been stored in the batteries.

Self-powering guarantees a real reduction in consumption which translates into lower running costs.



Others benefits

Not just energy savings

Confort & silence

The silence achieved by our new ARE SMART-POWER technology gives ZEN-0 lift passengers a pleasant sensation of comfort during travel.

Eco-friendly & clean

ZEN-0 respects the environment because it does not use any kind of oil, even as a lubricant for the guides.

No machine room

With ZEN-0, no space is required to house hydraulic control units and manoeuvring switchboards. The motor unit is located inside the lift well and the manoeuvring switchboard can be incorporated into a floor door.

03

Configurations

Tailor-made projects

Each Zen-0 is a unique piece

Designing tailor-made lifts is one of our key strengths.

We research and create specific solutions that satisfy all installation requirements even in tight spaces

Our standard is non-standard.

Every ZEN-0 we design is a unique product constructed specifically to meet your needs.

The opportunity to choose from a wide range of colours and finishes allows you to customise your ZEN-0 and ensure it blends in perfectly with the environment it is installed in.

Versions

Folding cabin door
Automatics doors

Folding cabin door

The folding door offers the possibility of automatic operation in the cabin even in tight spaces.

Automatic doors

In this version, ZEN-0 is fully automatic.

Automtics doors

Automatic floor and cabin doors. Available with telescope closure with 2 wings or 3 wings and central closure with 2 and 4 wings. Folding cabin doors with electronic command system complete with operator wings and threshold, movement controlled by a mobile frame.

STANDARD
Standard model

FIRE RESISTANT
Optional model

Automatic fire door
EI 60 and EI-120.

GLASS & METAL
Optional model

Panoramic laminated glass and metallic frame.

TOTAL GLASS
Optional model

Laminated clear glass, polished stainless steel upper and lower fixing devices.

✓ RAL Paint finish | Laminated sheet | Stainless Steel | Galvanised & RAL Paint finish

FOLDING DOOR
Optional model

Cabin door

✓ RAL Paint finish | Stainless Steel

Swing doors

Semi-automatic swing doors, manual opening and automatic closure by return spring.
Adaptable to any environment, with combinations of finishes, colours, glass and sizes.
The aluminium handle shown in the pictures is included with the door.

WINDOW

C1
standard model

V1
optional model

V2
optional model

V3
optional model

Rust-proof Paint finish | RAL Paint finish | Galvanised & RAL Paint finish

P1
optional model

PS1
optional model

D7
optional model

D1
optional model

Rust-proof Paint finish | RAL Paint finish | Galvanised & RAL Paint finish

The portrayal of the products and colours is for explanatory purposes only.

FIRE RESISTANT
optional model

EI-120 Fire resistant single panel swing door with electrical safety lock. Semiautomatic, manual opening and automatic closing with return spring and damper, uprights with carters.

THERMAL BREAK
optional model

Thermal break door to a hinged degree of transmittance thermal U = 2,12 W/mqk mineral wool in the leaf and in the frame (box). Gaskets of floor door-gasket stop along the door perimeter and lower floor hood profile.

✓ Rust-proof Paint finish | RAL Paint finish | Galvanised & RAL Paint finish

ARMOURED
optional model

Armored door with reinforced frame and door leaf, steel hinge. Armored lock with 4 pins with or without latch variant key/ key or external key inner shell. Semi-automatic, manual opening and automatic closing by return spring and shock absorber, uprights carterized. Vertical guardrails on request.

Armoured lock

✓ Rust-proof Paint finish | RAL Paint finish | Galvanised & RAL Paint finish

The portrayal of the products and colours is for explanatory purposes only.

ALLUMINIUM
optional model

Single panel Alluminium Panoramic model swing door with mechanical safety lock. Leaf made by extruded aluminium profile and panoramic glass without glazing beads, uprights and lintel made by extruded aluminium if the width is 100 mm, if different builted in steel sheet and aluminium covered, stainless steel sill profile. Semiautomatic, manual opening and automatic closing with return spring and damper. Uprights with carters.

Stainless steel tube handle T20

Profils in natural silver color anodized aluminium

✓ Natural Alluminium | RAL Paint finish Alluminium

CRYSTAL
optional model

Crystal model single panel swing door with safety lock. Leaf in tempered laminated glass, stainless steel handle and hinges. Semiautomatic, manual opening and automatic closing with adjustable hydraulic door closer, located inside the lintel and provided with 90°stop. Uprights with carters.

optional model

T20/30 | RC40 | TC30
Profiles in natural anodized silver aluminum

✓ Stainless Steel | RAL Paint finish

The portrayal of the products and colours is for explanatory purposes only.

Cabin Monolith

standard

A modern design for an exclusive result

The Monolith cabin features a subtle and elegant line and can be customised to suit even the most demanding clients' requests.

The standard product can be enhanced by choosing the skirting board and button in different materials and colours from those on the walls.

Every detail has been thought out

The side panels are always designed in proportion to the central panel whatever the size of the cabin.

The same proportion continues in the cabin's roof profiles with a perfectly harmonious result.

Highly robust and silent

The walls with vertical slats are not only aesthetic and design elements, but also have the dual function of increasing sturdiness and simplifying the Monolith assembly process.

Furthermore, the exclusive design significantly reduces the noise caused by micro vibrations.

The final effect is to make ZEN-0 even quieter and more comfortable.

✓ Laminated Sheet | RAL Paint finish | Stainless Steel

Cabin Elegant

optional

The new design proposal

Elegant is the new line of cabins in Laminated Plastic with a state-of-the art and elegant design.

Laminated Sheet

A unique cabin that is just as unique as your requirements

The new range of colours proposed for the walls includes both natural shades of wood and more sophisticated, paler colours.

The finishing in faux wood can perfectly reproduce the elegance of wood without compromising its resistance and enhancing the environment in which the cabin is installed.

In order to satisfy demands from the most exacting clients, both the colour of the walls and the finishings can be customised by choosing between Scotch-Brite stainless steel (standard supply) polished stainless steel and dam.

Each cabin is the result of a combination of a vast selection of materials with a unique and exclusive end product.

The refinement of the modern design

Elegant Plus is the most innovative proposal with horizontal wall slats covered and profiled in plastic laminate. The walls are enhanced with finishings with stainless steel angles.

The refinement of the classic

Elegant Unique is the most classic proposal and always modern with walls covered in plastic laminate and enhanced with stainless steel angles and skirting board.

Metal structure

ZEN-0 can be supplied complete with metal structure well suited to being positioned both inside and outside the construction.

In order to meet all our customers' requirements, landing boardwalk are available (with parapets in metal or glass) with completely closed boardwalk, complete with transom windows and rain canopies (with sheet metal or glass cladding) and RAL painted doors and frames.

All the structures comply with current construction standards.

- RAL Paint finish | Galvanised & RAL Paint finish

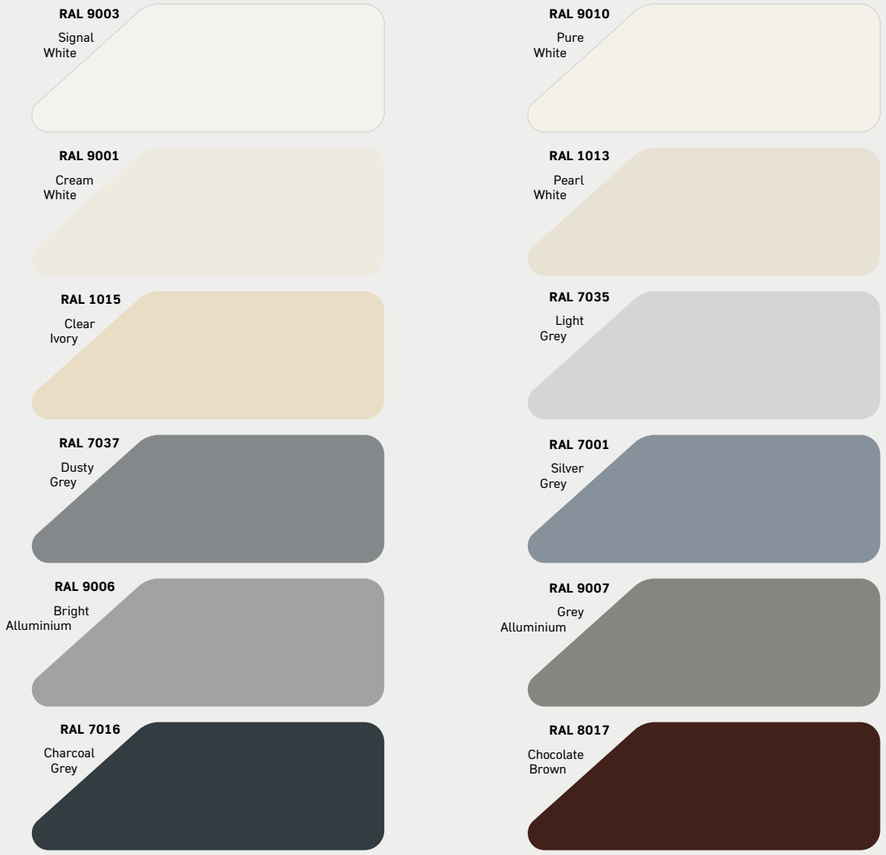
04

Finishes

RAL paint finish[1]

optional [2]

The colours shown may not be correctly represented. Please refer to the official RAL cards when choosing the RAL colour.



✓ Monolith cabin | Automatic cabin door | Automatic landing door | Swing door | Folding cabin door | Technical cabinet | Structure

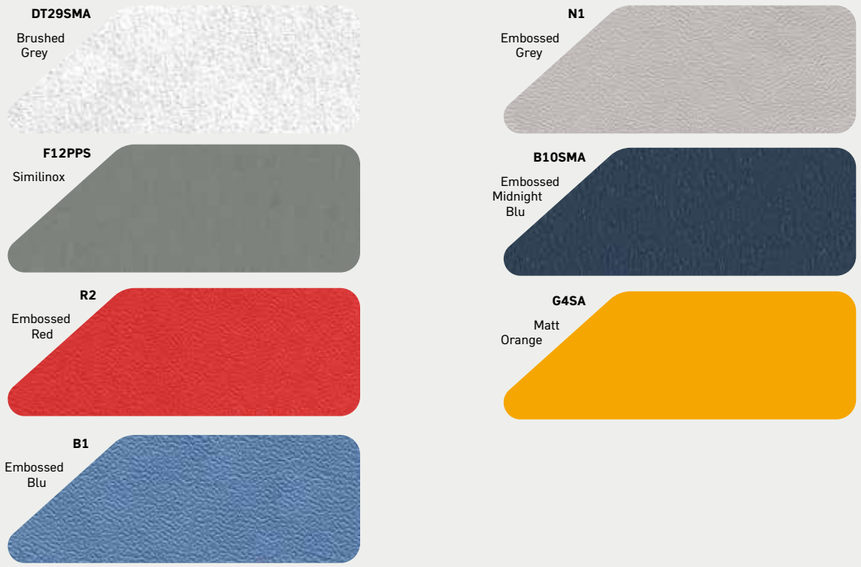
[1] Standard RAL colors. It is possible to choose, for an additional cost, any color from the official RAL color chart except for pearlescent and metallic colors.
[2] Standard for automatic landing doors, swing doors, and structure.
The portrayal of the products and colours is for explanatory purposes only.

Laminated sheet

Standard [1]

For automatic doors in the 115 System, Minisill, Glass & Metal models, please refer to the finishings for landind doors.

✓ Automatic landing door | Technical cabinet | Cabin Monolith | Automatic cabin door



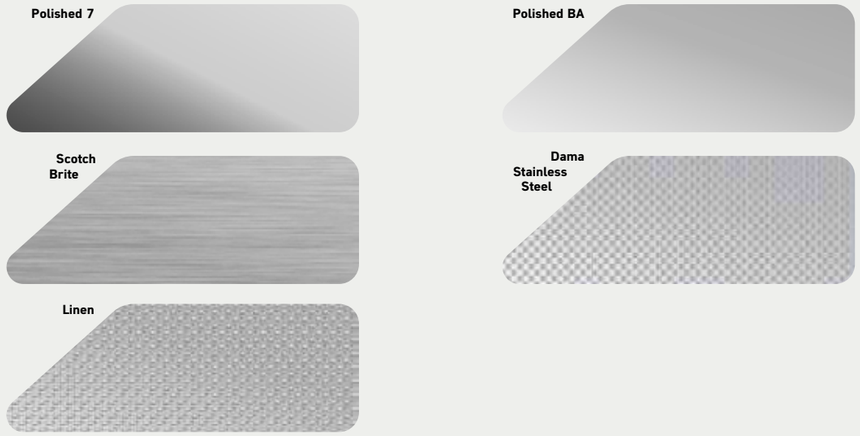
✓ Monolith cabin | Automatic cabin door

[1] For cabin and automatic car door
The portrayal of the products and colours is for explanatory purposes only.

Stainless steel

optional

We recommend choosing from the available options by following the table below.

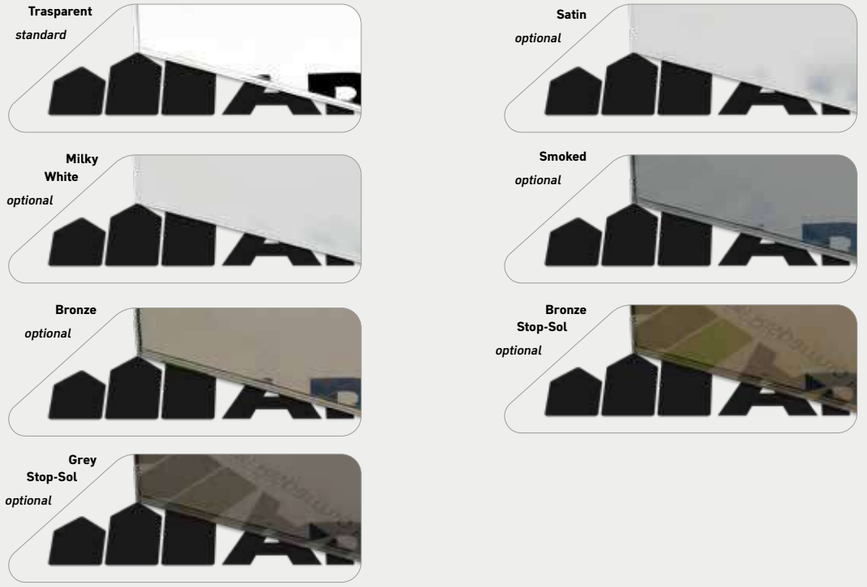


Automatic car door | Automatic landing door | Crystal door | Monolith cabin | Folding car door | Technical cabinet

STAINLESS STEEL	For indoor	For outdoor	Seafront
AISI 430 Scotch Brite	✓	×	×
AISI 304 Polished BA	✓	✓	×
AISI 304 Polished 7	✓	✓	×
AISI 304 Dama Stainless steel	✓	✓	×
AISI 304 Linen	✓	✓	×
AISI 316 Polished BA	✓	✓	✓

Glass

For each environment, we offer you the opportunity to choose the finish that best enhances it.



Window swing door | Plugging structure | Crystal door | Alluminium door | Glass & Metal door Total Glass door | Panoramic cabin wall | Panoramic folding door

PVC

standard

These floors are a PUR Pearl surface, a combination of embossing and lacquering that guarantee the finished smooth and elegant matte feature that is highly resistant to scratches, tread and wear.

Floor's Client

Set for client coating thickness max 20 mm

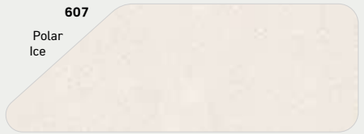
Monolith cabin | Elegant cabin

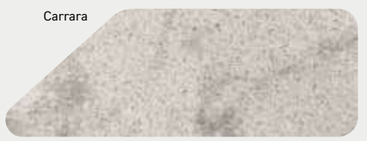
The portrayal of the products and colours is for explanatory purposes only.

Granit touch

optional

A mix obtained using grits of granite, quartz, glass and interlacing of glass mosaic. Most of the raw materials used are obtained by recycling Post-Consumption products. The perfect combination of these materials creates the right balance between technology and respecting the environment.





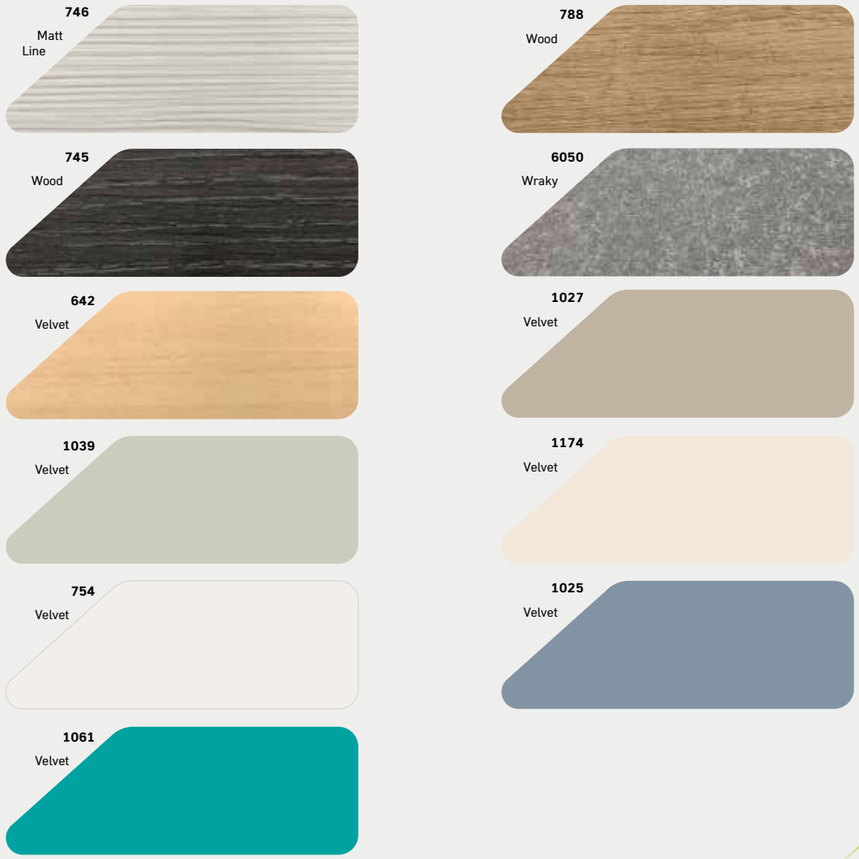
Monolith cabin | Elegant cabin

The portrayal of the products and colours is for explanatory purposes only.

Laminated plastic

standard [1]

The range of colors offered includes both natural wood-effect tones and softer, more refined colors capable of meeting every request.



Elegant car

Finishing summary

	Landing door		Cabin doors		Cabin		Cabinet	Structure
	Swing	Automatic	Automatic	Folding	Monolith	Elegant		
Rust-proof Paint Finish	O	×	×	×	×	×	O	×
Galvanised and RAL Paint finish	O	O	×	×	×	×	O	O
RAL Paint Finish	DS	DS	O	O/1	O	×	DS	DS
Stainless Steel	O	O	O	O	O	×	O	O
Laminated Sheet	×	O	DS	×	DS	×	O	×
Laminated Plastic	×	×	DS	×	×	DS	×	×
Natural Aluminium	O	×	×	×	×	×	×	×
RAL Paint Finish Aluminium	O	×	×	×	×	×	×	×

1 = RAL 9007 | O = optional | S = standard | x = not provided

[1] Standard only for elegant cabin.
The portrayal of the products and colours is for explanatory purposes only.

05

Accessories

Display

Landing display

TFT
optional

High-resolution display
Available 4.3” e 2.8”

Cabin display

TFT
optional

High-resolution display
Available7”

Landing display

ICARO
optional [1]

LCD display
Frame or flush anti scratch and anti-impact transparent polycarbonate screen

Cabin display

TRICOLOR
optional

LCD display
Frame or flush anti scratch and anti-impact transparent polycarbonate screen

Buttons

STANDARD
standard

AISI 304 stainless steel button with braille.

VANDAL-PROOF IP54
optional

Vandal-proof button with braille with degree of protection IP54.

Corrimano

optional

STRAIGHT ENDS

Stainless steel handrail with straight ends

Scotch-Brite stainless steel
Polished stainless steel

CURVED ENDS

Wood handrail with supports and curved ends in polished stainless steel

Oak wood
Beech wood

The portrayal of the products and colours is for explanatory purposes only.

La rappresentazione dei prodotti e dei colori ha un valore puramente indicativo.

Cabin control panel

optional

VENICE

H 1900 mm with
display TFT 7’’
For automatic doors’
lift only

- Black glass
- White glass

AIDA

H 1900 mm with
display TFT 7’’

- Scotch-Brite stainless steel
- Polished stainless steel

The portrayal of the products and colours is for explanatory purposes only.

Landing control panel

optional

AIDA 65

Width 65 mm.
Available with
icaro wire display.
Wall secured, without
building work

- Scotch-Brite stainless steel
- Polished stainless steel

AIDA 85

Width 85 mm.
Available with vertical
TFT display 4.3’’ too
Wall secured, without
building work

- Scotch-Brite stainless steel
- Polished stainless steel

SOFT 75

Width 75 mm.
Available with
icaro wire display
Possibility of box
to be walled

- Scotch-Brite stainless steel
- Blu polished stainless steel

VENICE 80

Width 80 mm.
Available with TFT
vertical display 2.8’’
Installable only with
a recessed box

- Black glass
- White glass

The portrayal of the products and colours is for explanatory purposes only.

Handle

optional

R40

Scotch-Brite
stainless steel
AISI 304

40 x 15 x L 1260

Q20

Scotch-Brite
stainless steel
AISI 304

20 x 20 x L 320

RC40

Scotch-Brite
stainless steel
AISI 304

40 x 10 x L 500

T20 - T30

Scotch-Brite
stainless steel
AISI 304

ø20 x L 300
ø30 x L 500

TC30

Scotch-Brite
stainless steel
AISI 304

ø30 x L 500
ø30 x L 1000

Enabling system

optional

ALPHANUMERIC KEYPAD

Metal backlit, IP 66,
up to 2 contacts

✓ Cabin

Backlit, IP 68, s
ingle contact only
120 x 58 x 22 mm

✓ Landing

I-BUTTON

Vandal-resistant
electronic key.
IP51

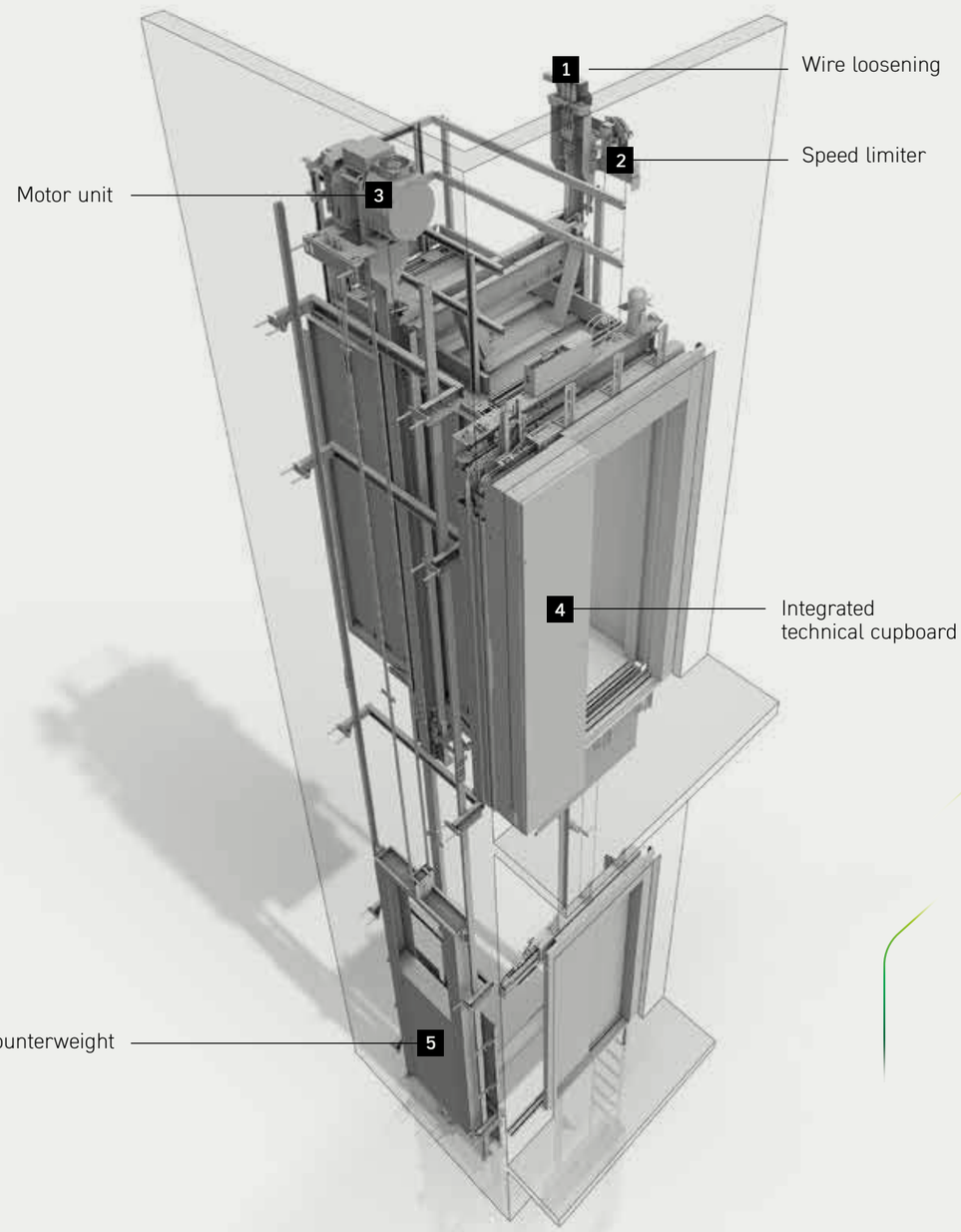
ENABLE KEYS

Key contact.
IP51
available:
- 2 positions, 1 extraction
- 2 positions, 2 extractions

The portrayal of the products and colours is for explanatory purposes only.

06

Technical Specifications



Technical features

Capacity	450 kg	630 kg
Reference legislation	EN81-20/50:2020	
Capacity max (People)	6	8
Max Speed (m/s)	0,8	0,6
Maximun number of stops	8	8
Hourly insertions	90	90
Travel (mm)	30000	30000
Headroom (mm)	3400	3400
Pit (mm)	1050	1050
Maximum car's area (m^2)	1,3	1,66
Lift power supply	battery	battery
Committed power (kW)	0,3	0,3
Amount of power (kW) in the switch mode [1]	1,2	1,2
In the switch mode during fast charging	1,5	1,5
Inrush absorption from the network (A)	2,5	2,2
Mains power supply (V)	230	230
Maximum travels in case of blackout [2]	40	40
Recovery energy system	standard	standard
Anti Blackout System	standard	standard

[1] Value taken as a reference on a platform of 450kg payload with 0,15m/s speed
[2] The number of travels may vary dipending the battery charge

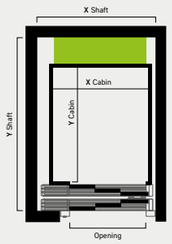
Min. interfloor	Folding doors	Automatic
With doors on opposite sides and/or adjacent [1] (mm)	150	150
With doors on the same side [2] (mm)	H door frame + 100	H opening + 350 [2]

[1] Plants with close planes at both ends are not feasible
[2] H Opening + 400 with total glass door

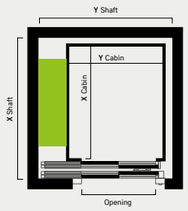
Cantilever

Capacity			Cabin				Existing shaft		Structure	
Load(kg)	People	Accessibility	X (mm)	Y (mm)	Opening (mm)	Access	X (mm)	Y (mm)	X (mm)	Y (mm)
200	2		810	650	600	1L	1120	1090	-	-
200	2		820	650	600	2O	1260	1090	-	-
200	2		850	660	600	2A	1160	1230	-	-
200	2		870	660	600	3	1310	1230	-	-
375	5		1200	850	750	1L	1510	1310	1620	1450
375	5		1200	850	750	2O	1640	1310	1744	1450
375	5		1200	850	750	2A	1200	1870	1330	1980
450	6		1300	950	800	1L	1610	1390	1720	1530
450	6		1300	950	800	2O	1740	1390	1844	1530
450	6		1300	950	800	2F	1300	1950	1400	2060
450	6		1300	1000	850	1L	1610	1460	1720	1600
450	6		1300	1000	850	2O	1740	1460	1844	1600
200	2		810	650	600	1L	1710	1540	1820	1680
200	2		820	650	600	2O	1840	1540	1944	1680
200	2		850	660	600	2A	1560	1740	1670	1860
200	2		870	660	600	3	1690	1740	1794	1860

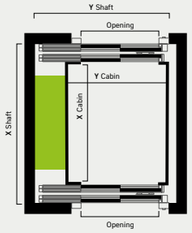
1L



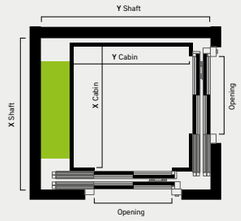
1F



2O



2A



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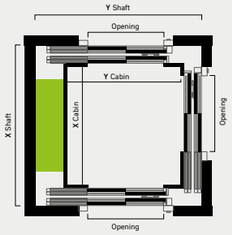
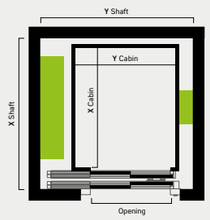


Central

Capacity			Cabin				Existing shaft		Structure	
Load(kg)	People	Accessibility	X (mm)	Y (mm)	Opening (mm)	Access	X (mm)	Y (mm)	X (mm)	Y (mm)
375	5		1200	850	750	1L	1510	1400	1620	1510
375	5		1200	850	750	2	1640	1400	1744	1510
450	6		1300	950	800	1L	1610	1490	1720	1590
450	6		1300	950	800	20	1740	1490	1844	1590
450	6		1300	1000	850	1L	1610	1550	1720	1660
450	6		1300	1000	850	20	1740	1550	1844	1660
630	8		1400	1100	900	1L	1710	1630	1820	1750
630	8		1400	1100	900	20	1840	1630	1944	1750

1L



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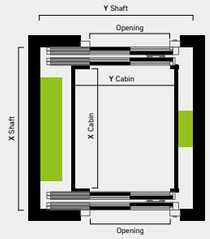
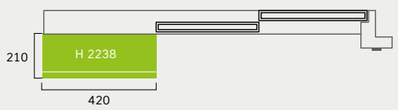


It's possibile to download all the schematics on our website **www.areascensori.it** area **Download**

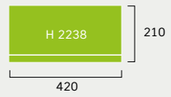
Technical cabinet



AUTOMATIC DOOR SIDE [1]

Finishes:
- ✓ As per landing door

[1] Cannot be done with Glass & Metal, Total Glass, 3AT doors, with non-standard door height and EI



TO THE WALL H2238

Finishes:
- ✓ As per landing door
- ✓ If painted metal shaft: the same colour of the shaft

WeAre

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