



 **CMAlifts**[®]

THE OIL-HYDRAULIC LIFT

Experience CMAlifts Augmented Reality. Look for the QR Code in all our catalogues, scan it with your smartphone, and gain access to a gallery of multimedia features, which will take you into the world of our company's products and peculiarities.

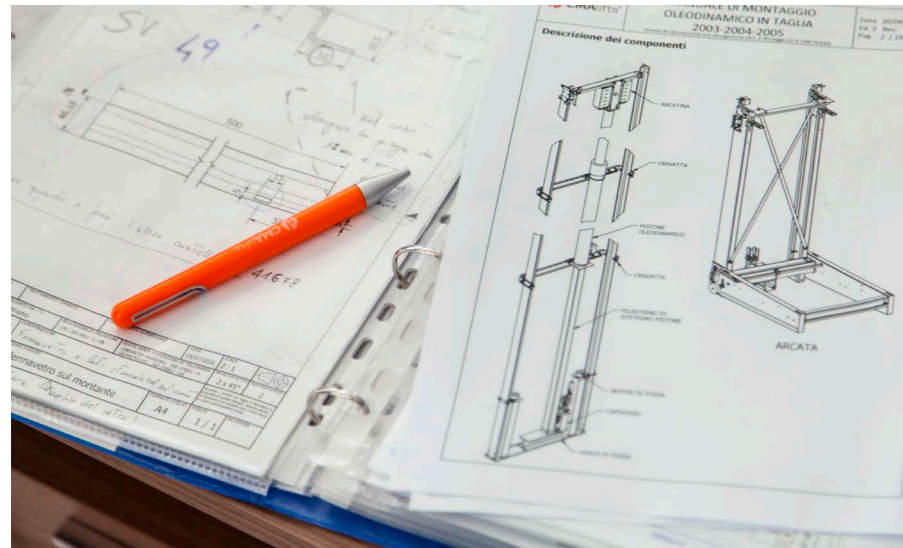


CMAlifts oil-hydraulic elevators are a popular, reliable and economical solution. The lifts, 100% Italian, guarantee high versatility and are suitable for applications in different contexts (residential buildings, shopping centres, schools, hospitals, hotels and other).

Their minimal space requirements mean that they can be installed even in buildings where the space for a lift had not initially been provided for. Besides, the possibility of using drive equipment and power units without any constraints, has led this type of oil-hydraulic lift to the development of the so-called MRL solution, Machine Roomless. As a matter of fact, the use of special cabinets containing the controller and the oil-hydraulic power unit is widely spread.

HOW IT WORKS

The lift car of a CMAlifts oil-hydraulic elevator is connected to a cylinder/piston group, in which a particular type of hydraulic oil, under pressure, is injected and ejected. This system pushes, by means of a pump, hydraulic oil to be pressurised into the cylinder, thus causing the extension of the piston-rod and the consequent ascent of the lift car. The descent takes place by gravity, controlling the oil outflow from the cylinder, with significant energy conservation for the entire elevator plant.



ITALIAN GUARANTEE MADE BY CMAlifts

All CMAlifts elevators are Made in Italy, guaranteed by a highly accurate production system, in which the entire process undergoes a strict quality control. Particular attention is paid to monitoring the evolution of the main technical standards, in order to ensure the right response to customers' requirements. CMAlifts oil-hydraulic elevators comply with EN 81-20&50 and EN 81-1 Standards, and can be supplied as complete lift systems or single components.



ADVANTAGES AT A GLANCE



LOW-PRICED TOP-QUALITY PRODUCTS

Compared to all other solutions on the market in terms of supply, installation and maintenance, the costs are significantly lower given the same load capacity and number of landings served.

Invoice

Dear Ms Current Name,
I authorize myself to make following invoice

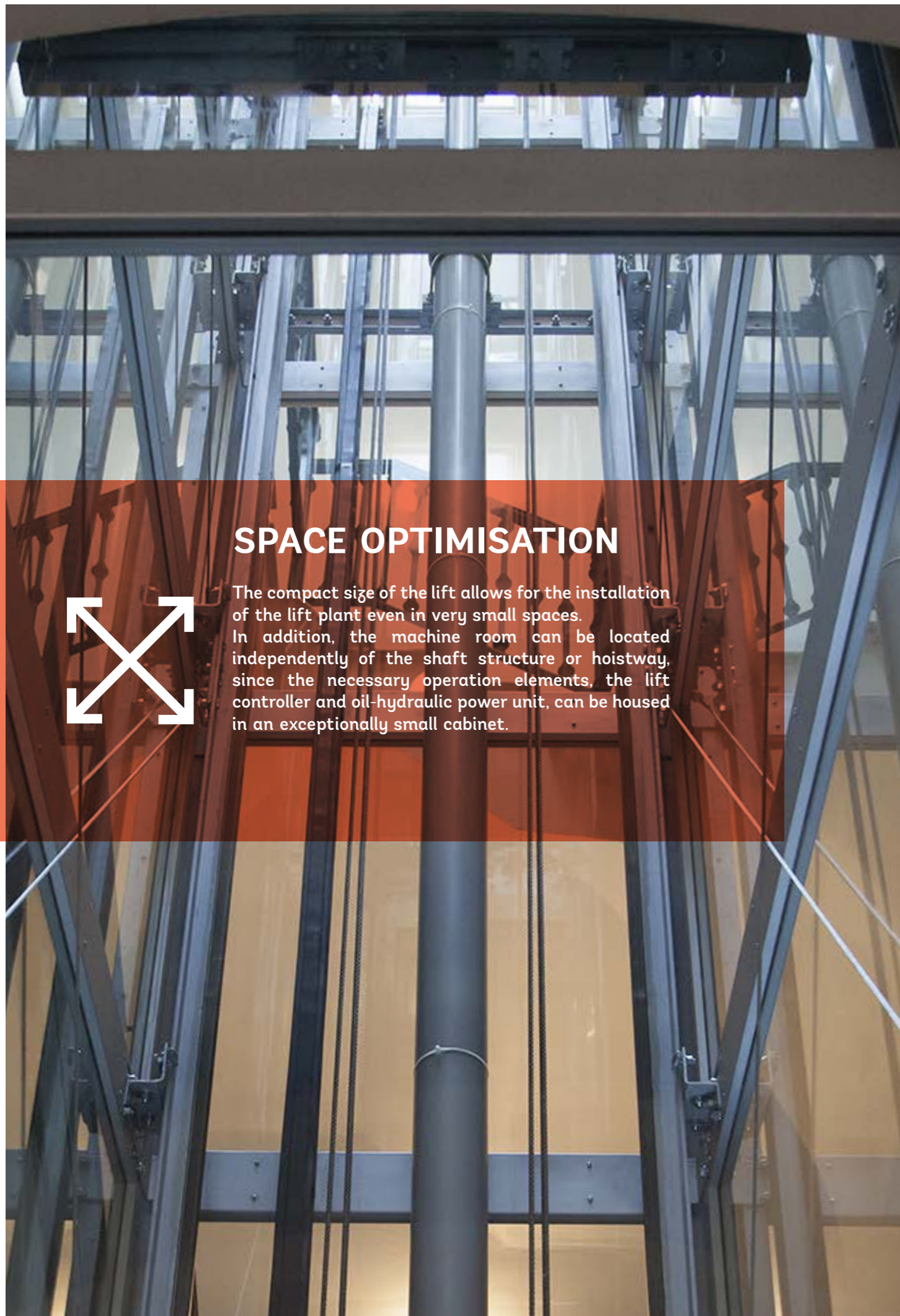
Invoice-Nr: 2011042401
Date: 24.04.2011
Clerk number-in: [blank]
Your Name: [blank]

Num.	Qty	Units	Article Nr.	Goods, Service	Line Price	Price
1	1	pcs		Food photography for summer menu, Menu design and printing on glossy cardboard DIN A5 double sided 50 pieces	273,11 €	273,11 €
1	33	pcs		Single product photo on white background	2,52 €	83,16 €
1	1	pcs		Photo Licenses for Certificates	20,00 €	20,00 €
Total					273,11 €	51,89 €
VAT 19%						325,00 €
Total Amount Payable						325,00 €

Current Name 1
Street Name 1
70000 City Name
Tel: 0000 5555555
E-Mail: emailname@server.com

Bank Name
BLZ: 100 100 00
Kfz Nr: 100 000 000
SWIFT Nr: 10000000





SPACE OPTIMISATION



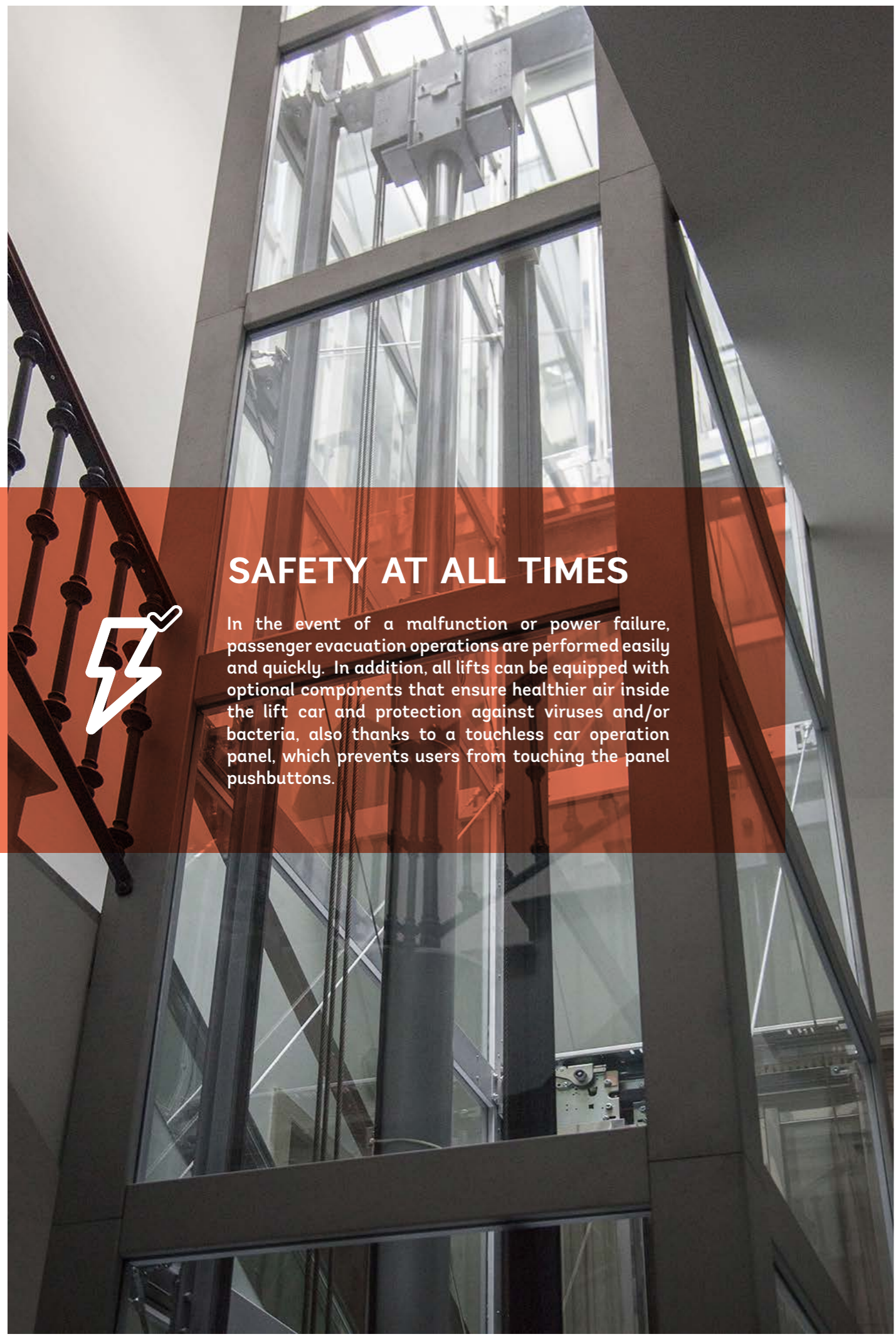
The compact size of the lift allows for the installation of the lift plant even in very small spaces. In addition, the machine room can be located independently of the shaft structure or hoistway, since the necessary operation elements, the lift controller and oil-hydraulic power unit, can be housed in an exceptionally small cabinet.



RELIABILITY OVER TIME



Its great operational ease and long-established technologies, allow for minimal routine maintenance service operation, as well as virtually no system downtime.



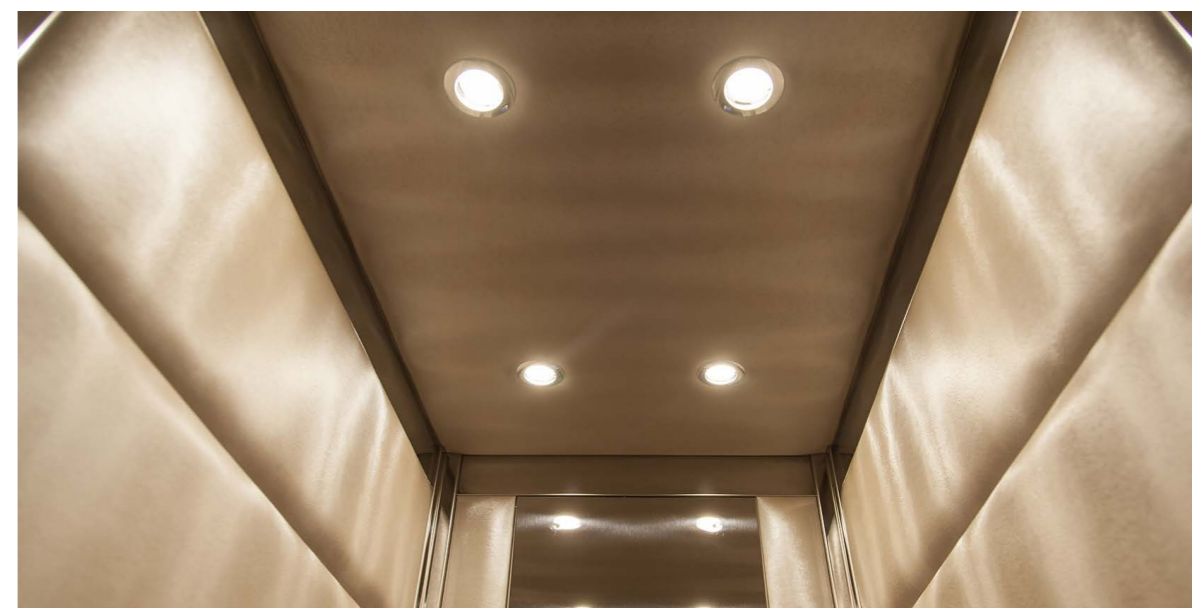
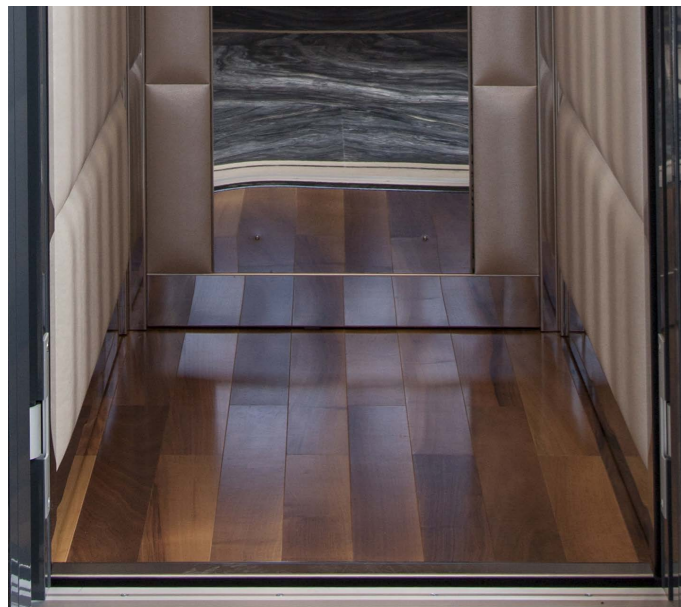
SAFETY AT ALL TIMES

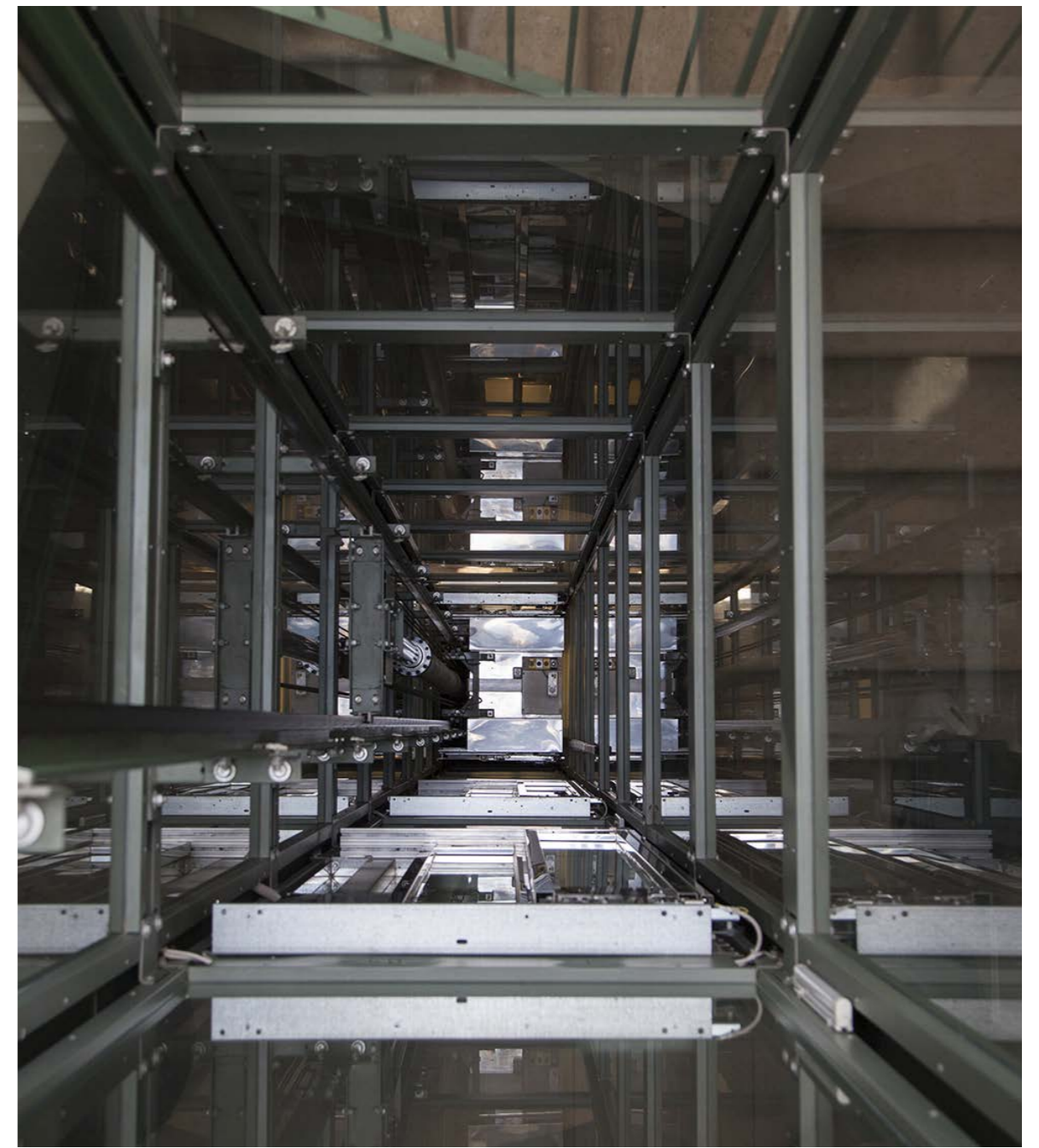
In the event of a malfunction or power failure, passenger evacuation operations are performed easily and quickly. In addition, all lifts can be equipped with optional components that ensure healthier air inside the lift car and protection against viruses and/or bacteria, also thanks to a touchless car operation panel, which prevents users from touching the panel pushbuttons.

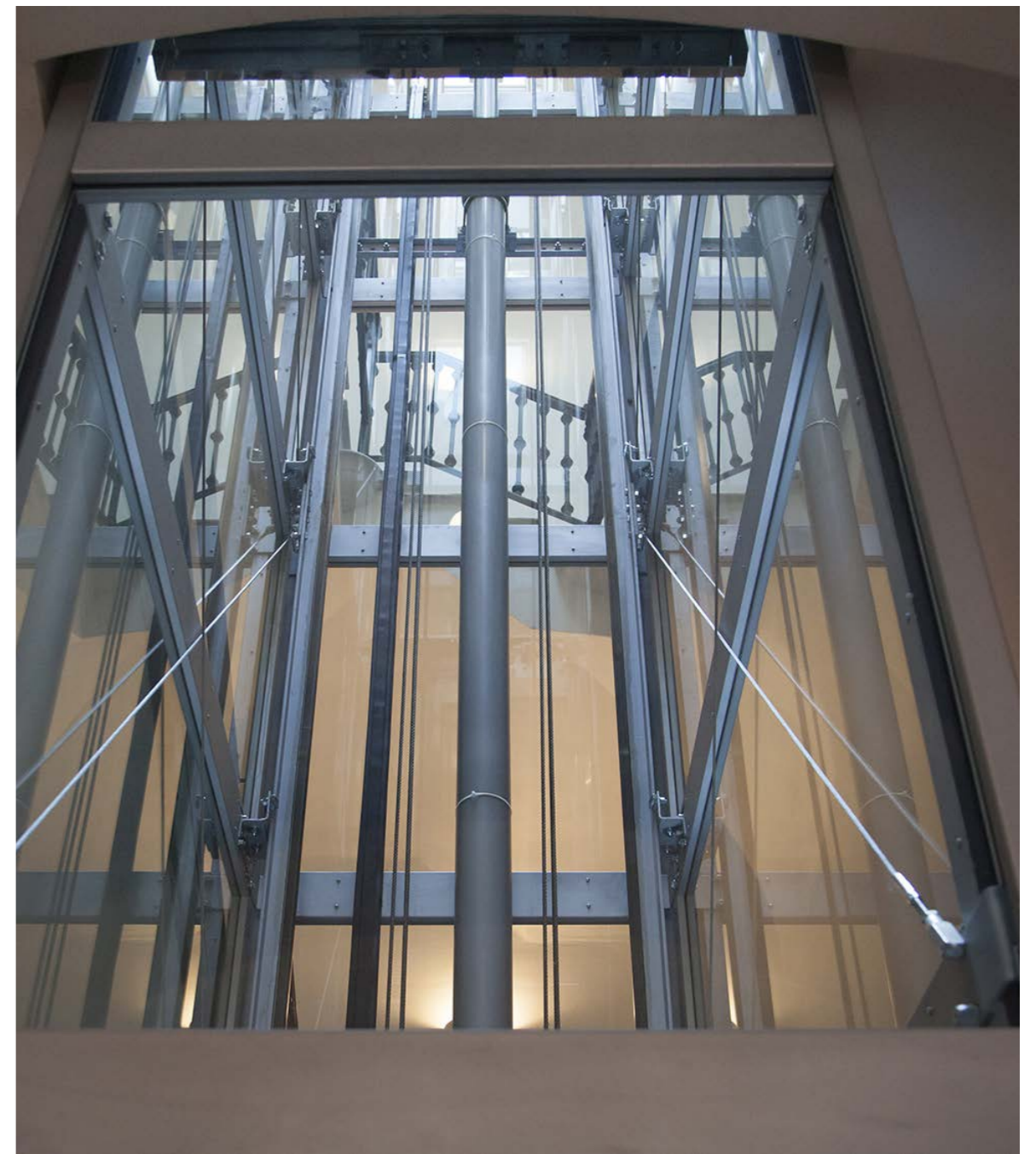


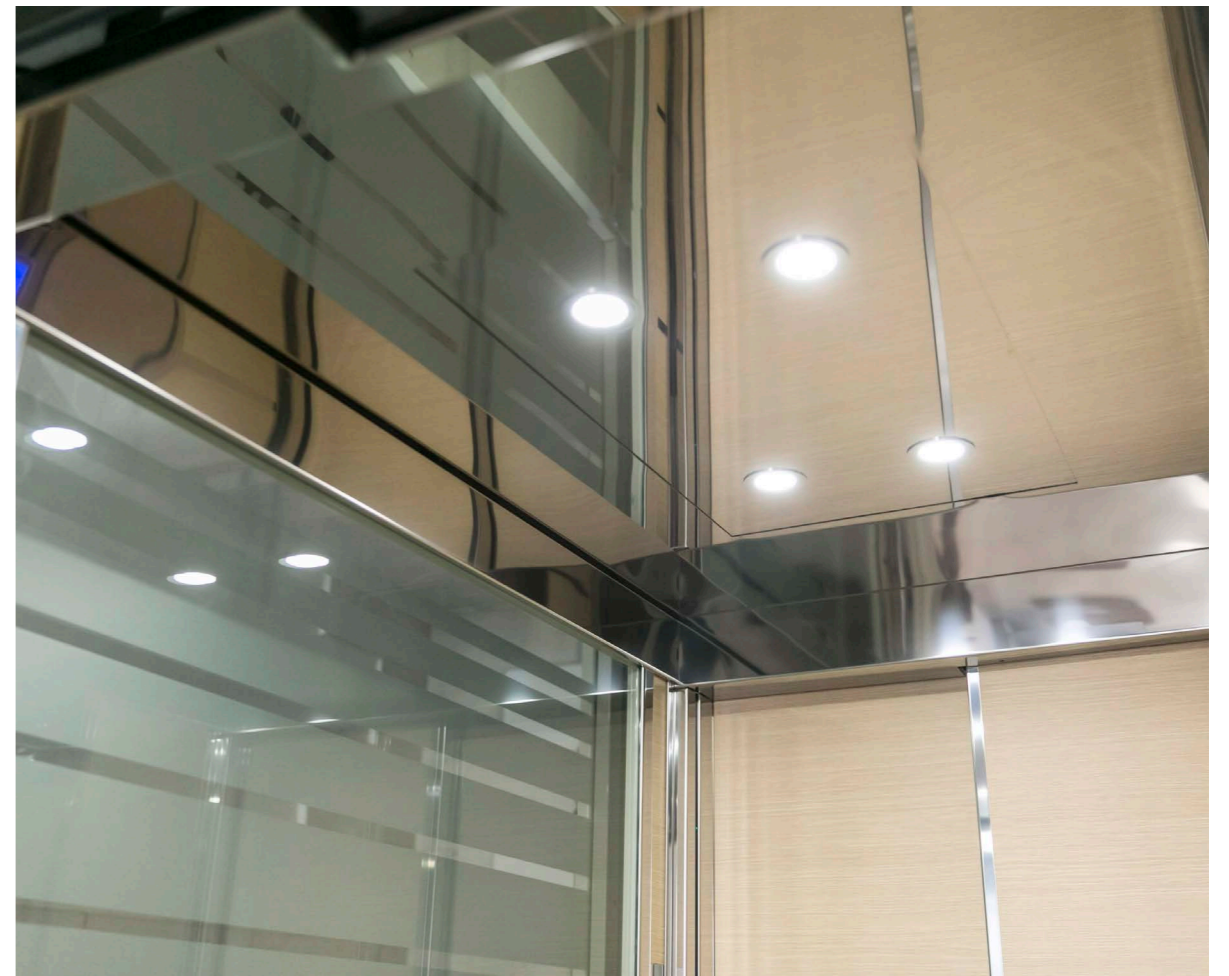
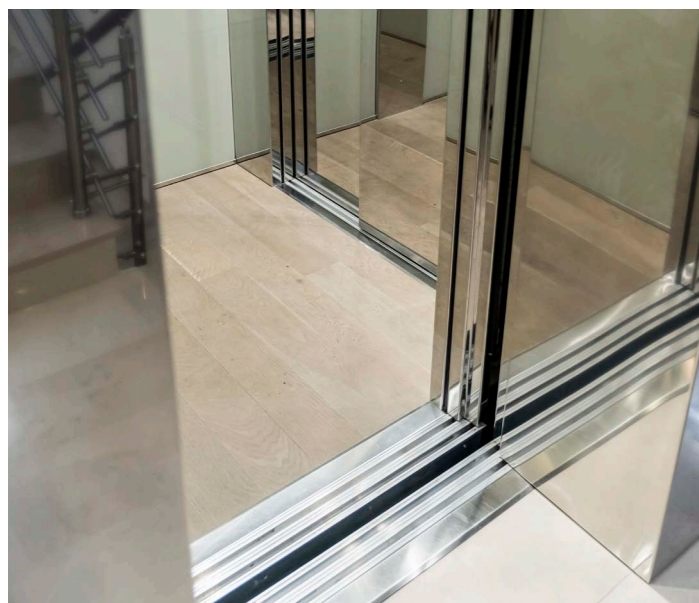
CUSTOMISATION AND DESIGN

All CMAlifts creations are unique and can be customised through the choice of details, finishes, materials and colours, so as to be perfectly integrated within the architectural context in which they are installed.













OIL-HYDRAULIC LIFT PLANT



 Lift bridging narrow opposite accesses

 2:1 Indirect acting lift plant

 Side direct acting lift plant

 Reduced pit and/or headroom lift plant

All technical features are examples of elevator plants with purely indicative standard suspended load and speed values, and refer only to 2:1 indirect acting lift plants. The correct measurements of the lift car, hoistway, as well as all technical specifications are defined with the quotation and/or product design. For different specifications, please contact CMAlifts. Oil-hydraulic lifts are characterised by their remarkable production versatility and flexibility, which has allowed them to be widely spread at global level. Their compact size, rucksack car frame, as well as the possibility of distributing the entire elevator weight at the bottom of the building, allow them to be easily installed even in buildings which originally did not have a lift, so had not been designed to support one. In addition, the possibility of housing control equipment and oil-hydraulic power units in any suitable position, has made it possible for oil-hydraulic elevator plants to easily develop into an MRL, a Machine Roomless solution. The use of special cabinets containing the controller and oil-hydraulic power unit is very popular. Their applications include public and private buildings, shopping centres, schools, hospitals, hotels and residential buildings. Oil-hydraulic lifts are therefore proposed as an alternative to traditional electric lifts. The lift car is connected to a cylinder-piston unit, into which hydraulic oil under pressure is injected and ejected. During ascent, a pump pushes hydraulic oil into the cylinder causing the stem to extend, so the car rises. The descent takes place by gravity, controlling the oil outflow from the cylinder.

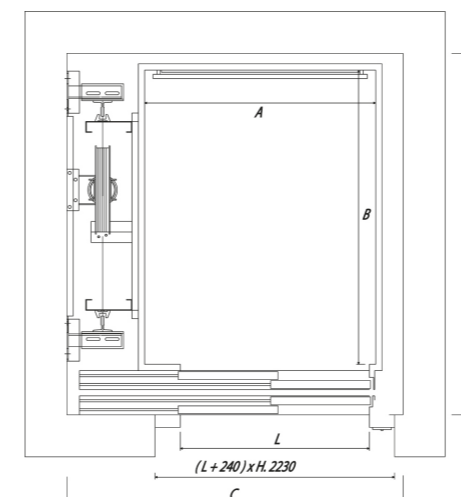
We distinguish three possible types of system operation:

INDIRECT ACTING: this is used to obtain car travels and speeds double than the piston, without regard for greater loads exerted on the piston itself. It has a wide range of application, generally up to 6 or 7 landings.

SIDE DIRECT ACTING: the piston is installed into the hoistway, on the side of the lift car, and pushes directly onto the top crossbeam of the lift car frame. Its application is limited to a maximum of 3 landings.


CENTRAL DIRECT ACTING: the piston is generally installed at the centre of the pit and pushes onto the bottom crossbeam of the car frame. It has a limited application, and mostly chosen in case of special design requirements.

OIL-HYDRAULIC LIFT PLANT



CABINET

Cabinet sizes		
A	B	C
mm	mm	mm
1030	400	2100
1090	620	2100
1170	740	2200

 All lift plant configurations are available with a side or a bottom lift car frame, 1 access, 2 opposite accesses, 2 adjacent accesses, 3 accesses, with a hoist-way in masonry, or a steel lift shaft structure.

Technical features

Load Capacity	Kg	350 (**)	480 (**)	630	900	1000	1250	1600	2000
N. of people	n°	4	6	8	12	13	16	21	26
Car measures (interior H 2150 mm)	AxB mm	800x1200	950x1300	1100x1400	1370x1500	1100x2100	1200x2300	1400x2400	1500x2700
Hoistway measures (min)	CxD mm	1350x1550	1450x1650	1600x1750	1900x1850	1650x2450	1900x2650	2050x2800	2250x3100
Opening (H= 2000mm)	L mm	750	800	900	900	900	1100	1200	1300
Doors	-	Telescopic door - for central doors, please contact CMAlifts							
Accesses	-	1 access - for 2 or 3 access, please contact CMAlifts							
Pit (*)	mm	1100	1150	1200	1200	1200	1200	1250	1300
Travel (*)	m	21	21	21	21	21	21	21	21
Headroom (*)	mm	3500	3500	3500	3500	3500	3750	3750	3750
Speed	m/s	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Motor power (*)	kW	6	7.5	9.5	14.5	15.5	18	23	30
System acting	-	2:1	2:1	2:1	2:1	2:1	2:1	2:1	2:1
Operation	-	Indirect acting hydraulic lift plant							
Controller	-	universal, collective, simplex duplex							
Power supply	-	400V three-phase (** available in 230V single-phase and speed of 0.3 m/s)							

All lift plant configurations are available with a side or a bottom lift car frame, 1 access, 2 opposite accesses, 2 adjacent accesses, 3 accesses, with a hoist-way in masonry, or a steel lift shaft structure

CMAlifts elevators are manufactured with modern, high-precision machinery. The whole process is monitored by strict quality control. Particular attention is paid to following the evolution of the main technical standards, in order to ensure the right response to customer requirements.

CMAlifts hydraulic elevators comply with Directive 2014/33/EU and can be supplied as complete lift systems or individual components.

ADVANTAGES

LOWER COSTS: compared to all other solutions on the market in terms of supply, installation and maintenance, the costs are significantly lower given the same load capacity and number of landings served.

SPACE OPTIMIZATION: a particularly compact size allows for the installation of the lift plant even in smaller hoistways. In addition, the machine room can be installed in any place, independently of the hoistway (it is always preferable to install it at the bottom, adjacently to the lift shaft), since the elements necessary for operation, that is, controller and oil-hydraulic power unit, can be housed in an exceptionally small cabinet.

RELIABILITY: simple operation and time-tested technologies mean minimal maintenance, as well as virtually no system downtime.

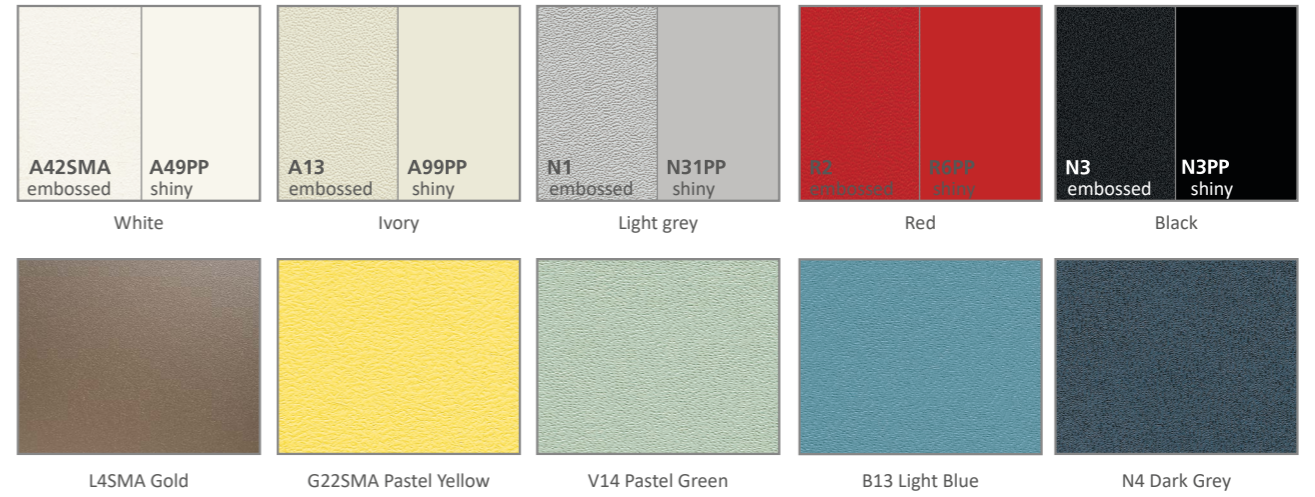
SAFETY: in the event of a malfunction or power failure, passenger evacuation operations are extremely simple.

USE: ideal for buildings in public, private, industrial and commercial contexts, subject to a non-particularly intense traffic.



PLASTIC-COATED STEEL SHEET

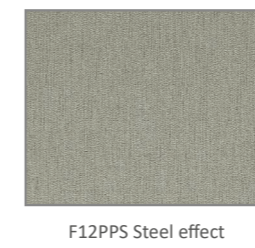
NORMAL



SPECIAL

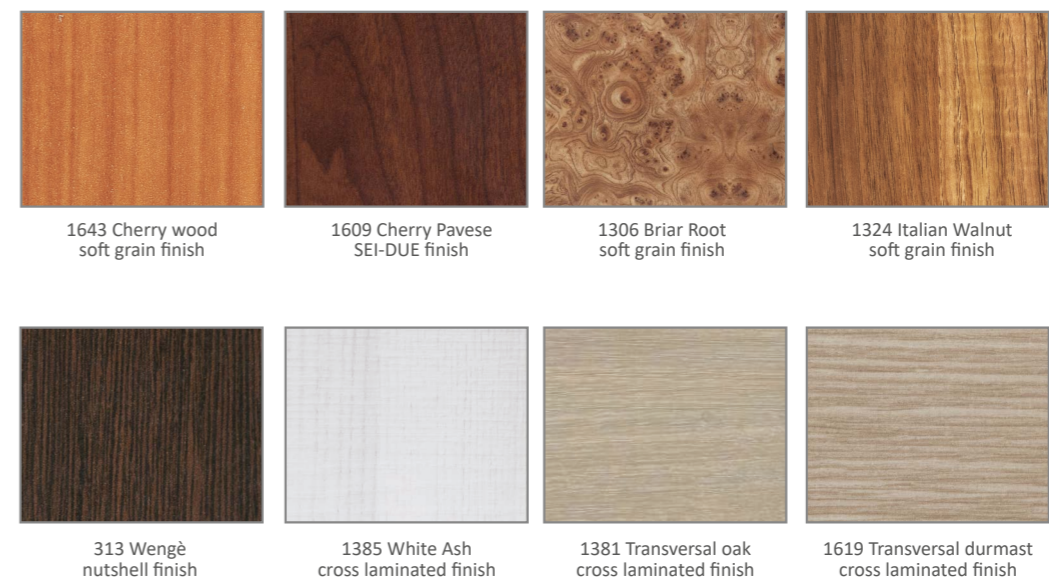


CO-LAMINATES



PLASTIC LAMINATES

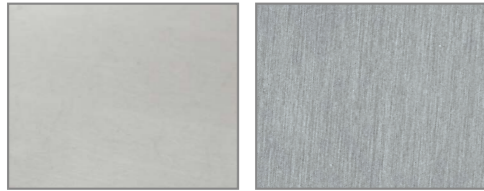
WOOD EFFECTS



CUSTOMISATIONS

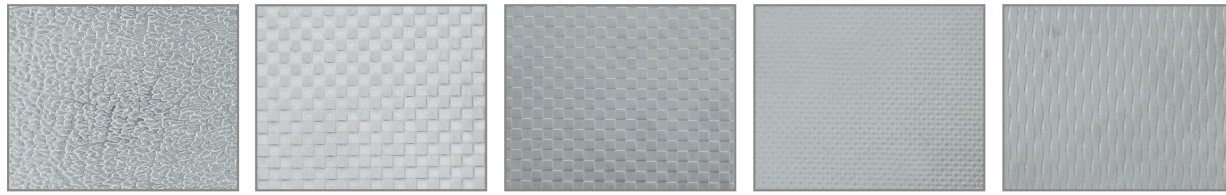
STEEL RANGE

STANDARD
STEEL



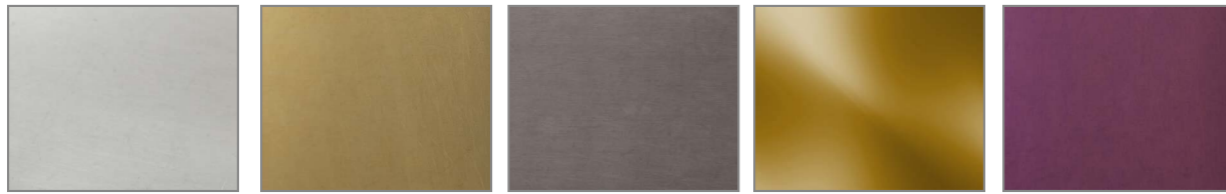
BA polished stainless steel Scotch Brite stainless steel

ANTI-SCRATCH
STAINLESS STEEL



Leather grain polished Dama polished Quadro polished Linen polished 2WL polished

COLOURED
STAINLESS STEEL



Mirror polished Gold polished Bronze polished Titanium polished Red polished

DECORATED
STAINLESS STEEL



S.C. 211 Green S.C. 111 Mirror S.C. 213 Oro S.C. 321 Gold Blue Stripes

LINOLEUM

MARBLE EFFECT



616 Mustard 628 Yellow 732 Brown 734 Orange 753 Green



688 Blue 672 Grey 674 Black

PVC



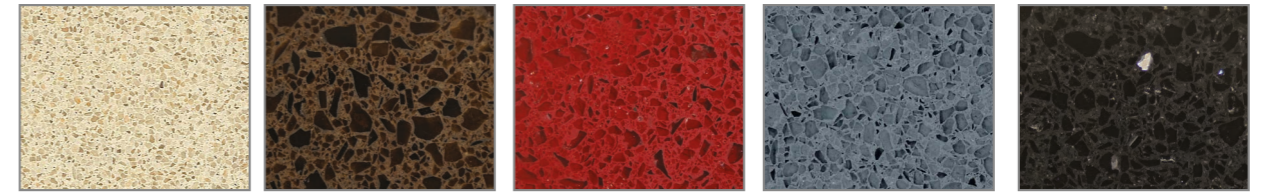
543 Ivory 498 Grey 3820 110 Venus Grey 3820 180 Mercury Grey 3820 100 Quasar Black

Non-slip
PVC R10

ROCKSOLID



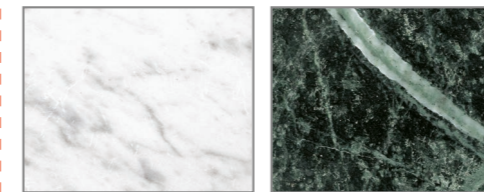
607 Polar Ice 431 White 617 Sand Pearl 616 White Pearl 2402 Dove Tail



642 Sunset Beach 663 Moretti Glass 424 Red 2410 Dove Tail Dark 656 Black Star

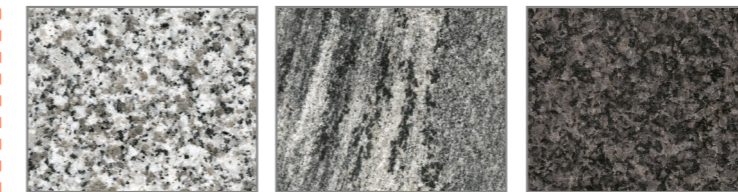
STONE MATERIALS

MARBLE



Carrara White Guatemala Green

GRANITE



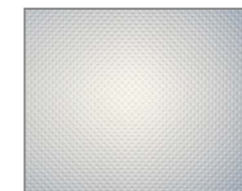
Sardinia White Kinawa African Black

PARQUET



Durmast Italian Walnut Coconut mat

GLASS

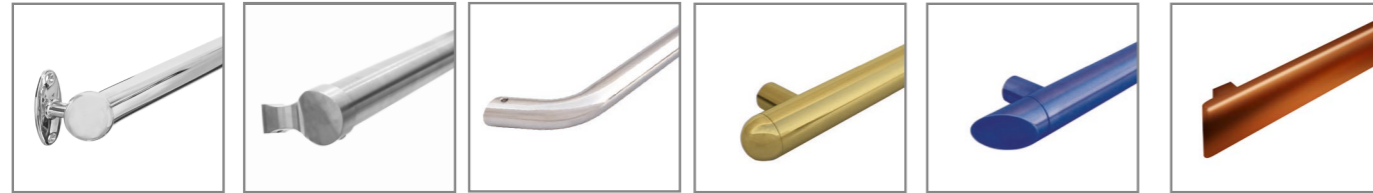


Milk-white walk-on glass
flooring with non-slip
surface texture.

Upon agreement with CMAlifts' sales office, we can supply other typologies of colours and materials.
The colours of materials in this chart may not faithfully match the actual ones.

ACCESSORIES

HANDRAIL



Standard chrome handrail
Scotch Brite or polished

Steel handrail
Scotch Brite or polished

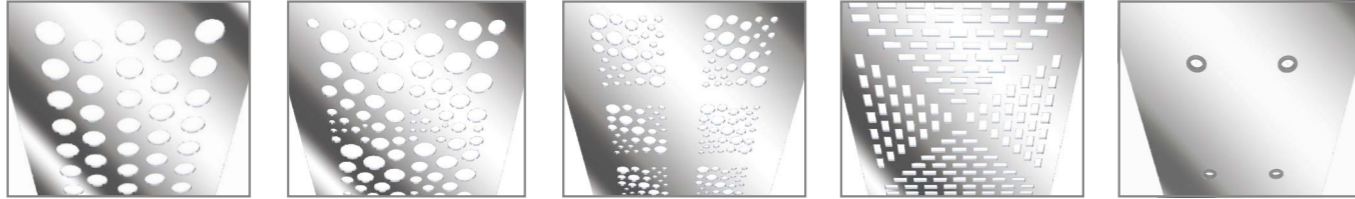
Handrail 81.70 steel
Scotch Brite or polished

Semi-spherical steel handrail
Scotch Brite, polished or
coloured finish

Handrail 45° steel
Scotch Brite, polished
or coloured finish

Steel handrail flat bar
Scotch Brite, polished
or coloured finish

LIGHTING



Standard multi-hole
drop-down ceiling

Bubble multi-hole
drop-down ceiling

Rectangle multi-hole
drop-down ceiling

Multi-hole drop-down ceiling in
pyramids of rectangles

Multi-hole drop-down
ceiling with spotlights



Labyrinth patterned
drop-down ceiling

Plexiglass lighting

LED panel lighting

Spotlight lighting

Starry sky
(LED point lights)

DOOR HANDLES



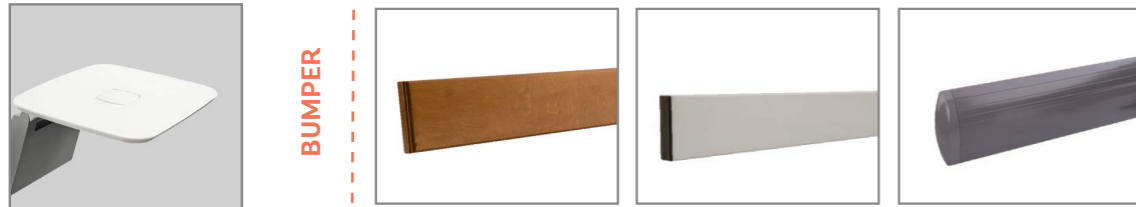
Standard door-handle

Door handle bar

Micro TSA

EXTRACTOR FAN

SEAT



Folding seat
in glossy white RAL 9016
or matte black

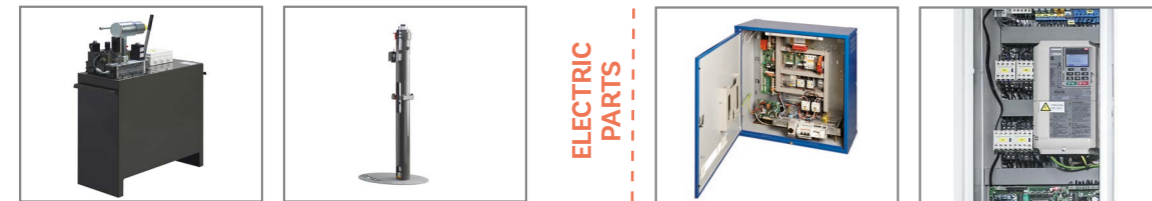
Wooden bumper

Steel or sheet steel bumper

PVC bumper

COMPONENTS

OIL-HYDRAULIC PARTS



Oil-hydraulic
power-pack unit

Oil-hydraulic Piston

Controller
Oil-hydraulic lift plant

Controller
MRL lift plant

MECHANISMS AND AUTOMATISMS



Door operator

Door suspension

Automatic swing
door operator

Gearless motor



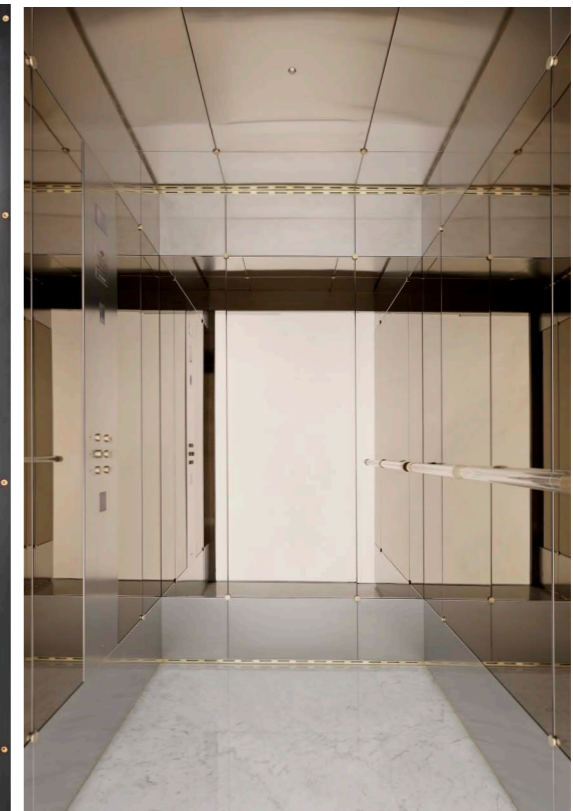
Iris



Era



Nyx



Tebe

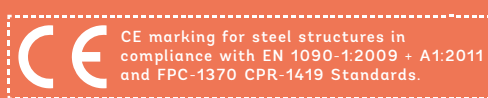


CMAlifts was founded in January 2001, further to an ambitious idea by the brothers Messrs Giulio and Gaetano Caputo, with a mission centred on the model of an industrial company with a craftsman's heart, which manufactures homelifts, passenger lifts and elevators for civil and industrial use, focusing on customer care, product quality, personnel safety, and environmental safeguard.

It is an industrial manufacturer whose craftsman's heart has been retained to such an extent that it can mix the most futuristic hi-tech solutions with the creativity and excellence of its skilled workers.

CMAlifts' reference marketplace has no boundaries. Deeply rooted in the national Italian territory, CMAlifts is a leading player in Europe, North Africa, Middle-East and Australia. The constant increase in orders from foreign trades has been the result of a widespread presence at national and international trade fairs.

Strengthened by the experience gained over time, specific technical and design demands are assessed and addressed with extreme care and expertise. Solutions are shaped together with customers, with a working method that distinguishes each phase: order management, design, production, and on-site delivery by means of its own means of transport.



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