

S+

CG-X

THE
COLOR GLAS[®]
ELEVATOR

S+



CG-X COLOR GLAS[®]
ELEVATOR
DESIGN THE FUTURE
SPARK INSPIRATION

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WELCOME

It is with joy and pride that we present to you the product brochure for the CG-X The Color Glas® elevator, an internationally award-winning product, born from the passion of 1,900 committed employees. For customers with the highest expectations for architecture, design, and quality and who value long-lasting partnership. A product that captures the imagination from design through to service, setting international standards thanks to its impressive technology and outstanding design. A product based on experience that you will value.

We are a family company that has been successfully designing, constructing and looking after elevators for over 100 years now. Based on our commitment to first-class and sustainable products. The CG-X Color Glas® elevator is just such a product.

We develop unique and high-performing elevators by concentrating on what is most important, like function and quality design. These are elevators characterised by their elegance and lasting value. Elevators that invite people to use them, and that enable mobility in any building with reliability and high efficiency. The economic efficiency of the CG-X is a result not only of an excellent, simplified planning concept and personal project support. The high-quality materials and precise execution of exacting detailing solutions also make the CG-X unique and ensure it retains its value. Combined with the excellent service the CG-X stands for the high availability of every Schmitt+Sohn elevator.

We and all of our employees stand for these values. From the conviction of a family-run company with a century-long tradition. Responsible for employees, customers and partners.

Browse, read, discover.

Welcome to Schmitt+Sohn.

Maximilian Schmitt
Managing Partner



OUR KEY PERFORMANCE INDICATORS

Schmitt+Sohn at a glance – the key performance indicators of a successful company

1861	6	18	4
Foundation of the company. A long tradition in elevator construction and service begins.	generations of experience. The company family remains a constant.	domestic and foreign companies. Decentralised, and always close by.	countries in Europe. We maintain locations in: Germany, Portugal, Austria, and the Czech Republic.
2,100	100,000	1,900	9001
systems produced annually. Production in our own plants.	elevator systems built. Our reference customers are distributed throughout Europe.	employees. Success has many faces. 118 apprentices are included in this number.	standard quality. Improving. Developing. Looking ahead.
24	50,000	180	0
-hour on-call readiness 365 days per year. Always there for you.	systems to be serviced annually. Competence you can rely on.	million euros in turnover. Convincing results.	bank liabilities. Independence for strong partnerships.

Our Values
Ongoing learning: That is what our 1,900 passionate employees, who contribute their expertise and abilities every day, stand for.

Quality: Continuous development and improvement of our processes and products, for example in production. Each year, 2,100 new systems leave our company with a consistently high level of quality.

Corporate reliability: The foundation of long-lasting relationships to our customers and our employees. This is a value we have been focused on for over 160 years.

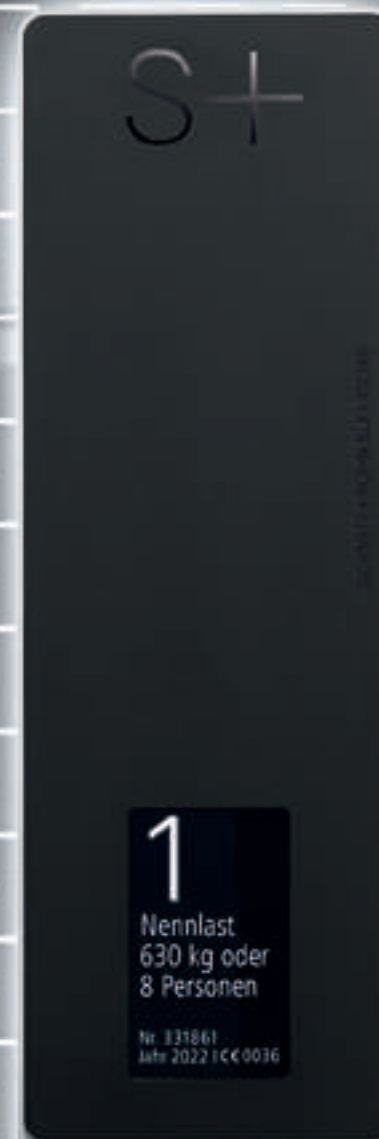
Our products
We develop outstanding products that meet high technical and aesthetic requirements. They are created through a dialog between architecture, design, and technology. This is part of our self-conviction as a company. A systematic approach, functionality, and the quality of painstaking workmanship down to the last detail are part of our commitment to meaningful development and design. Human mobility is our mission.

Our service
We provide you access to a service manager to support you for the entire time your elevators are in service. This is a big responsibility, as we service over 50,000 systems each year. Thanks to a decentralized network, we are always nearby to ensure you receive the support you need. Reliability is our top priority: our services are available to you 24 hours a day, 365 days a year - with no waiting time, for successful, long-term partnership.



View our corporate film here.

CG-X THE COLOR GLAS® ELEVATOR



CG-X THE COLOR GLAS® ELEVATOR

AN INTERNATIONALLY
AWARD-WINNING
PREMIUM PRODUCT,
FOR SOPHISTICATED
ARCHITECTURE.

CG-X The Color Glas® elevator

Welcome to an all-new, fascinating dimension of elevator design.

The CG-X Color Glas® elevator combines excellent quality, progressive design and impressive technology. Honoured with major design and architectural prizes. For customers who expect uncompromising quality and top technical and design performance. The CG-X elevator impresses from planning to service. A elevator that sets international standards. Developed from a commitment to good building and timeless values.

CG-X Design

Top-class elevator design – clear in form and function and reduced to the essentials. Confident in contrasting black and white. Color Glas® combines with elegant line graphics for an unmistakable design. The equipment and design of CG-X cars are aimed at achieving an impressive sense of space and a comfortable interior concept with high-quality materials and information focused on the needs of the user. All-new LED-RGB illuminated ceilings present lighting design in perfection. The light quality underscores the elegance of the CG-X cars. RGB colour controls can also be used to create a wide array of attractive designs. Colours, colour changes and colour rhythms can be combined effectively. The result are inspiring lighting atmospheres in the CG-X car.

CG-X economic efficiency

This is where the CG-X sets new standards. Machine room-less, space-saving, with low energy and operating costs. In addition to its outstanding drive advantages, the CG-X is a first-choice future-proof investment. Easy to design. Quick to manufacture. Safe to assemble. The economy of the CG-X is based not only on the concept of simplified design and personal project support. The high-quality materials and careful execution of exacting detailing solutions ensure value retention and make it unique. Combined with the excellent service the CG-X stands for the high availability of every Schmitt+Sohn elevator. We and all of our employees stand for these values.

CG-X comfort and safety

Safety, ergonomics, and passenger comfort are the result of an intensive development dialogue between architecture, design and technology. Users, operators and service personnel enjoy the effective protection of a comprehensive safety concept. Developed in accordance with European standards. Always type-tested. Our own qualified development, sales, production, installation and service personnel ensure the highest quality and permanent availability.

Welcome to Schmitt+Sohn elevators.

CG-X
QUALITY
PERFECT TO
THE LAST DETAIL





Operating panel BT-I-TFT-LED-XS

Dimensions:	HWD 1,205 x 150 x 15 mm
Operating panel:	Stainless steel, satin finish
Light frame:	Acrylic glass, white, satin finish, LED neutral white
Information panel:	Acrylic glass, black, semi-gloss Logo: acrylic glass inlay, black, high-gloss Trademark: engraved
Display:	High-resolution TFT
Buttons:	Stainless steel, satin finish, inset flush
Call acceptance:	Blue LED
Symbols:	Plastic, light grey

Lighting LD5X-LED illuminated ceiling

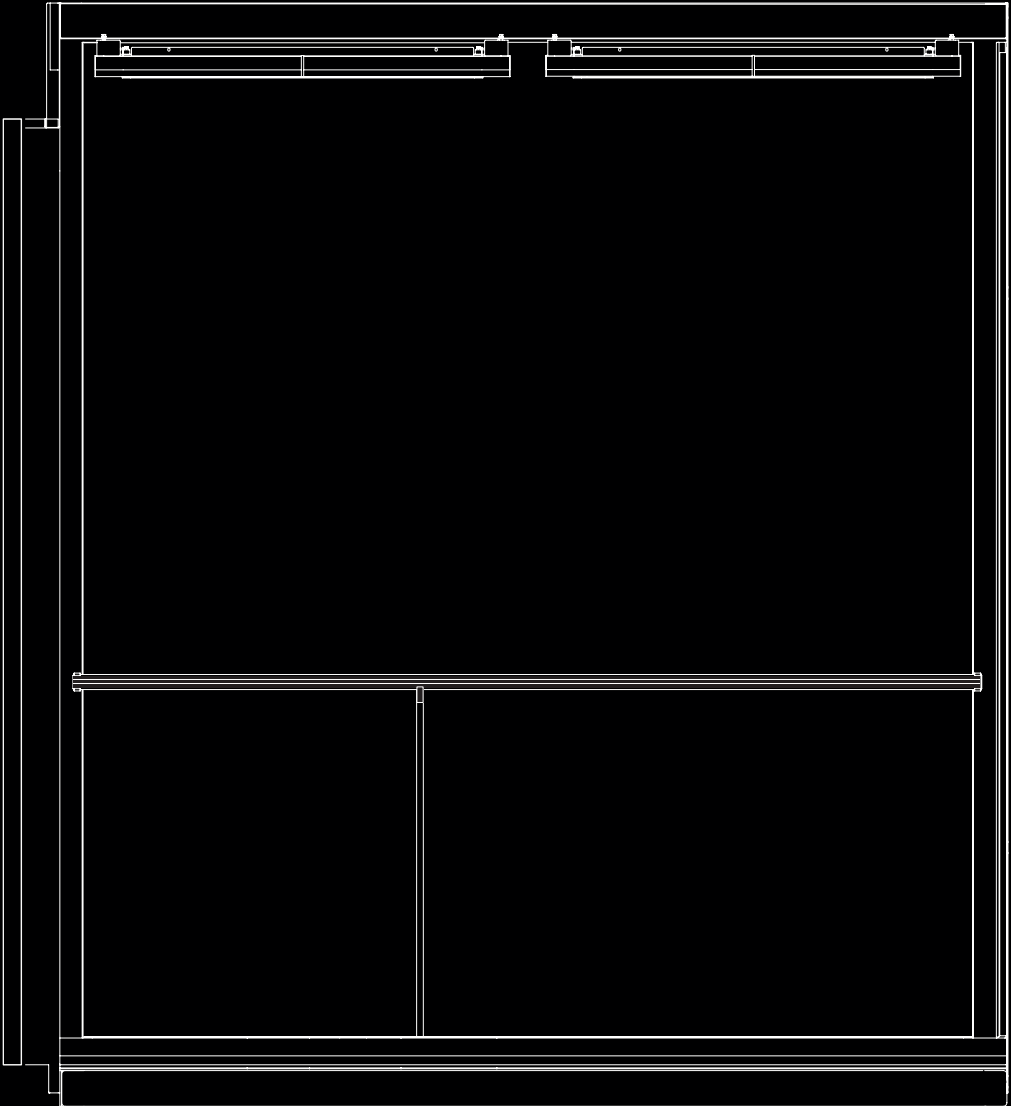
Dimensions:	HWD 100 x 940 x 1,240 mm*
Illuminated frame:	laminated safety glass, semi-transparent, LED illuminated, neutral white, side acrylic glass, white, high-gloss, semi-transparent
Middle area:	laminated glass, semi-transparent, LED illuminated
Light source:	LED, neutral white

* Example dimensions for car size
KB 1,100 mm x KT 1,400 mm



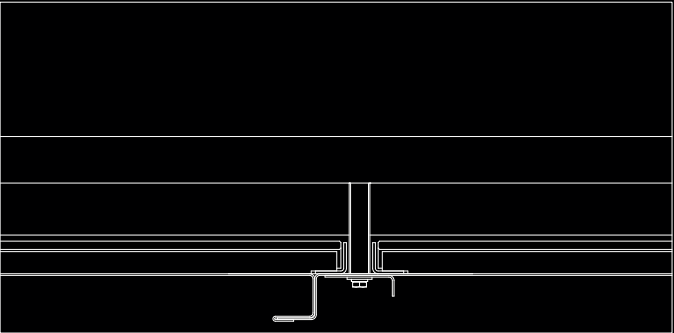
Handrail HL / Mirror S6

- Handrail: Stainless steel, satin finish, ø 33.7 mm
- Handrail holder: Stainless steel, satin finish, solid
- Handrail ends: Stainless steel, satin finish, welded
- Mirror S6: Rear wall, centre, cab width, cab height, bright, inset flush, mirror edges ground and polished
- Mirror frames: Stainless steel, satin finish



Handrail HL support CG-X cabs ≥ KT 1,600 mm

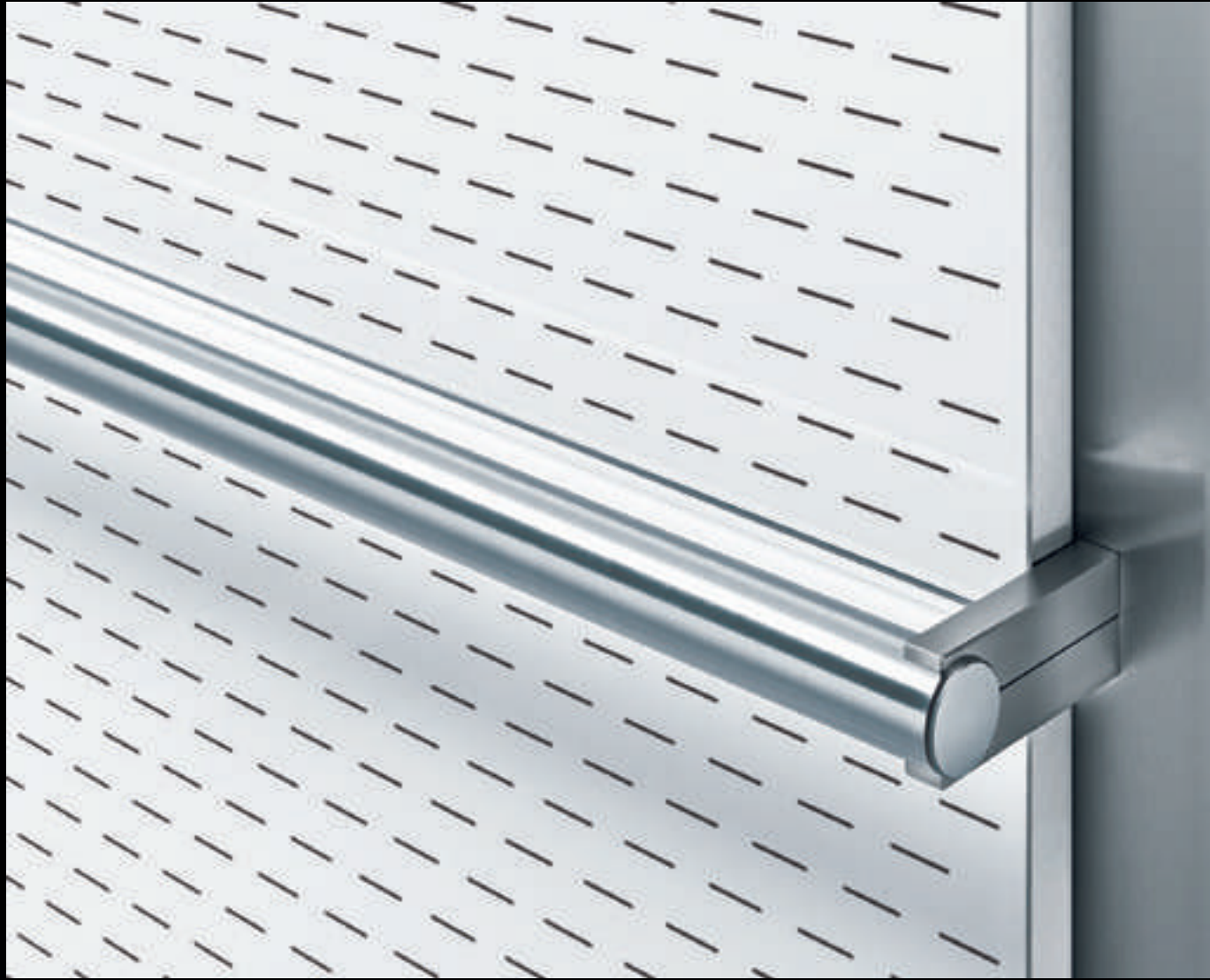
- Handrail support: Stainless steel, satin finish, solid
- Shadow joint: Stainless steel, satin finish



Horizontal section of side wall, handrail side.
Handrail holder.



Vertical section of side wall, handrail side.
Handrail holder.



Color Glas® frame / pilaster

Glass frame: Stainless steel, satin finish
Pilaster strip: Stainless steel, satin finish



Floor / skirting rail / mirror S6

Floor:	Granite light grey
Skirting rail:	Stainless steel, satin finish, LED, neutral white, backlit
Mirror S6:	Rear panel, car width, car height, bright, whole, mirror edges cut and polished vertical LED, neutral white, backlit



Detail	Description	Series	Accessories
Side walls	CG-X Color Glas [®] , Single safety glass SSG, powder-coated on rear side, full coverage. Version CG-X brilliant white, brilliant black line graphic. Version CG-X brilliant black, brilliant white line graphic. Glass edges cut and polished, glass frame stainless steel, satin finish, stainless steel pilaster strip satin finish. Easy-to-clean surfaces. Spacious room effect.	●	
Rear wall Mirror	Mirror S6, glass with shatter protection film, rear wall, whole, bright, mirror edges cut and polished, backlit with vertical LED neutral white. Mirror frame, stainless steel - satin finish ¹⁾ .	●	
Cab corners	Stainless steel, satin finish.	●	
Ceiling	White. Concealed, generously dimensioned cab ventilation at cabin depth in both side walls.	●	
Lighting	LD5X LED illuminated ceiling, direct, indirect and glare-free LED illumination, illuminated frame made of laminated safety glass, semi-transparent, LED neutral white illuminated, white acrylic glass side, high-gloss, semi-transparent, central area made of laminated safety glass, semi-transparent, LED illuminated, lamp. ¹³⁾	●	
	LD5X LED RGB illuminated ceiling with RGB colour and light control. ^{2), 13)}		○
	LD8 LED illuminated ceiling, direct and glare-free illumination. LED neutral white. Aluminium frame, brilliant white, light surface made of white plastic, semi-transparent. ¹³⁾		○
	LD8-LED-RGB illuminated ceiling. LED neutral white, LED-RGB with color and light control ^{2), 13)}		
Floor	Granite light grey	●	
	Lowered cab floor for installed floor covering ³⁾ .		○
Skirting rail	Stainless steel, satin finish. Concealed, generously dimensioned cab ventilation. LED neutral white backlit.	●	
Protection rails	Luggage protection rails, Stainless steel, satin finish, 100 x 20 mm.		○
Handrail	Stainless steel, satin finish, suitable for the handicapped to DIN EN 81-70 ⁴⁾ , side wall ø 33.7 mm, cab depth, Handrail holder and Handrail support stainless steel, solid. Handrail ends: Stainless steel, welded.	●	
	Second handrail opposite, next to operating panel.		○
	Surrounding handrail, corners mitred and welded.		○
Operating panel Cab	BT-I-TFT-LED-XS, stainless steel, satin finish, horizontal grinding direction, positioned suitable for the handicapped to DIN EN 81-70 ⁴⁾ , concealed attachment. Information panel acrylic glass deep black, semi-gloss, acrylic glass logo inlay, deep black, high-gloss, engraved trademark, illuminated frame made of white acrylic glass, semi-transparent, satin-finished, LED neutral white. Display high-resolution TFT. Short-travel buttons, flush, round, button surface stainless steel, call acceptance blue LED, symbols plastic, light grey.	●	
	Stainless steel, satin finish, suitable for the handicapped to DIN EN 81-70 ⁴⁾ Appendix B, horizontal, concealed attachment. Separate information panel. Large, raised buttons, round, button surface stainless steel, call acceptance blue LED, symbols raised, tactile, plastic, light grey ³⁾ .		○
Name plate panel	Stainless steel, concealed attachment. Acrylic glass, black, semi-matt, with transparent view window. Nameplate acrylic glass, black, digital print, process white. Illuminated frame acrylic glass, white, semi-transparent, satin finish LED neutral white.		○
Cab portal	Stainless steel, satin finish.	●	

Detail	Description	Series	Accessories
Cab door	Stainless steel, satin finish, centre-opening [®] , door height 2,100 mm.	●	
	Stainless steel, satin finish, two-piece, one-sided opening, door height 2,100 mm.		○
Door monitoring	2-D safety light grid over full door height.	●	
	3-D safety light grid with vestibule monitoring.		○
Shaft doors	Primed, centre-opening [®] , height as for cab door ⁷⁾ .	●	
	Primed, two-piece, one-sided opening, height as for cab door ⁷⁾ .		○
	Stainless steel, satin finish, stainless steel, linen ⁷⁾ .		○
	Wall bezel settings M1, primed, stainless steel, satin finish, stainless steel, linen ⁷⁾ .		○
Operating panel Shaft doors	Portals P1, primed, stainless steel, satin finish, stainless steel, linen, Color Glas [®] .		○
	Portals P1, primed, single safety glass SSG, glass edges cut and polished, glass frame stainless steel, satin finish, Color Glas [®] brilliant white or brilliant black.		○
	Stainless steel, satin finish, mounted in door frame, concealed attachment. Information panel acrylic glass deep black, Skirting frame acrylic glass, white, Dispaly white LED. Short-travel buttons, inset flush, button surface stainless steel, call acceptance blue LED, symbols plastic, light grey.	●	
	Positioned in the masonry, easier accessibility to DIN EN 81-70, Operating panel screwed.		○
Controls	Large buttons, suitable for the handicapped to EN 81-70, Appendix B, panel width 80 mm [®] .		○
	Single-button collective control in state-of-the-art bus technology. Fast orientation and prevention of failed rides for short waiting times and high transportation capacity. Service access frame at last stop, primed [®] . Overload control. Frequency control for load-independent travel curves and flushness. Battery-buffered, load-dependent emergency rescue to the next stop.	●	
	Emergency power and evacuation functions. Access control systems. Penthouse control. Priority carriage with key switch. Floor announcement. Travel direction displays and acoustic signals to DIN EN 81-70. Interfaces to building control systems.		○
	Service access point frame made of stainless steel, satin finish, stainless steel linen		○
Emergency call system	Service access frame at any stop or service panel in neighbouring rooms [®] .		○
	Collective two-button control, collective group control		○
	Digital emergency call and diagnosis system to EN 81-28 for emergency call transmission to the continually-manned Schmitt+Sohn Service Centre. Electronic misuse suppression ¹⁰⁾ .	●	
	Video misuse identification for the digital emergency call and diagnosis system ¹⁰⁾ .		○
Shaft	Remote monitoring of elevator attendant functions, transmission of diagnosis data, GSM module ¹⁰⁾ .		○
	Acoustic decoupling element for the drive to reduce structure-borne sound transmission that meets the increased requirements of DIN 8989. ¹²⁾		○
Drive	Gearless cable drive in the shaft. High efficiency and low power consumption. Load dissipation via the guide rails into the shaft pit. Speed 1.0 m/sec and 1.6 m/sec. Travel height up to 40 m.	●	
Lifting gear	Special elevator suspension ropes, very smooth running, maintenance free. No electronic monitoring required.	●	

Detail	Description	Series	Accessories
Energy-saving mode	Deactivation of cab light, fan and displays in the event of stoppage. On cal entry, the assemblies switch themselves on again automatically. Potential saving of up to 70% of power consumption.	●	
Stand-by-modus	Staged running-down of light grid, controls and frequency regulation after longer standstill (night mode).		○
Energy calculator	Preparation of energy efficiency forecasts according to ISO 25745.		○
Shaft smoke extraction	X-TRAC: heat loss reduction system via shaft ventilation. Electrically controlled window, rooflight dome or ventilation hood.		○
Intermediate circuit collective switching	Reciprocal energy feed in case of opposite movement direction of cabs in one group ¹¹⁾ .		○

- 1) With opposite entrances mirror S5, car depth, medium high, whole, on the side wall without control panel.
- 2) In RGB mode, reduction of the brightness and change of colour shade in the cab is possible.
- 3) Maximum 75 kg/m² and 30 mm thickness. Changes of colour shade possible depending on floor covering.
- 4) Agreement required between the customer and Schmitt+Sohn on proper use.
- 5) Not for 450 kg capacity
- 6) Q ≤ 1,000 kg two-piece doors opening centrally
- Q > 1,000 kg four-piece doors opening centrally
- 7) Service access point frame analogous to shaft door
- 8) Operating panel stainless steel, satin finish, without Skirting frame
- 9) Observe possible fire safety requirements in necessary stairwells
- 10) Redirection to the Schmitt+Sohn Service Centre and permanent on-call readiness is agreed in a separate service contract.
- 11) On request
- 12) Building shell requirements in accordance with DIN 8989 must be observed on-site.
- 13) Multi-piece illuminated ceiling/s at Q ≥ 1,000 kg.

We will be happy to assist you with your planning. Please contact us.

Subject to technical amendment.



CG-X Color Glas[®] Elevator, brilliant white, capacity 1,000 kg



CG-X THE COLOR GLAS[®] ELEVATOR

CG-X BRILLIANT WHITE
Bright. Light. Harmonious.
A statement for clarity.

CG-X Brilliant white

Side walls:	CG-X Color Glas [®] , single safety glass SSG, brilliant white, line graphic brilliant black Glass frame stainless steel, satin finish Pilaster strip stainless steel, satin finish
Rear wall:	Mirror, bright, mirror edges ground and polished, vertical LED neutral white, backlit
Cab door:	Stainless steel, satin finish
Floor:	Granite light grey
Skirting rail:	Stainless steel, satin finish, LED neutral white backlit
Ceiling:	White varnishing, semi-gloss
Operating panel:	BT-I-TFT-LED-XS Information panel: acrylic glass, black, semi-gloss Logo: black inlay, high-gloss, trademark engraved, high-resolution TFT
Lighting:	LD5X-LED / LD5X-LED-RGB
Handrail:	Stainless steel, satin finish



CG-X BRILLIANT WHITE

pioneering, purist design
progressive and innovative aesthetic
light, bright, and spacious feel

- precise product details for all equipment components
- impressive lighting design, glare-free and unique, developed for customer-specific lighting scenarios
- outstanding user ergonomics for all equipment components
- intuitive orientation and excellent user comfort thanks to clearly organised, clearly legible information on the control panel
- functional, high-quality and easy-care materials like safety glass, mirrors, stainless steel and granite
- subtle mirroring of room details and light in the CG-X Color Glas®
- linear LED light signatures in the control panel area, mirror, base
- impressive, black/white contrast graphics in the CG-X Color Glas® cab walls
- digital print quality for sharp contours
- excellent surface technologies like engraving and glass cutting

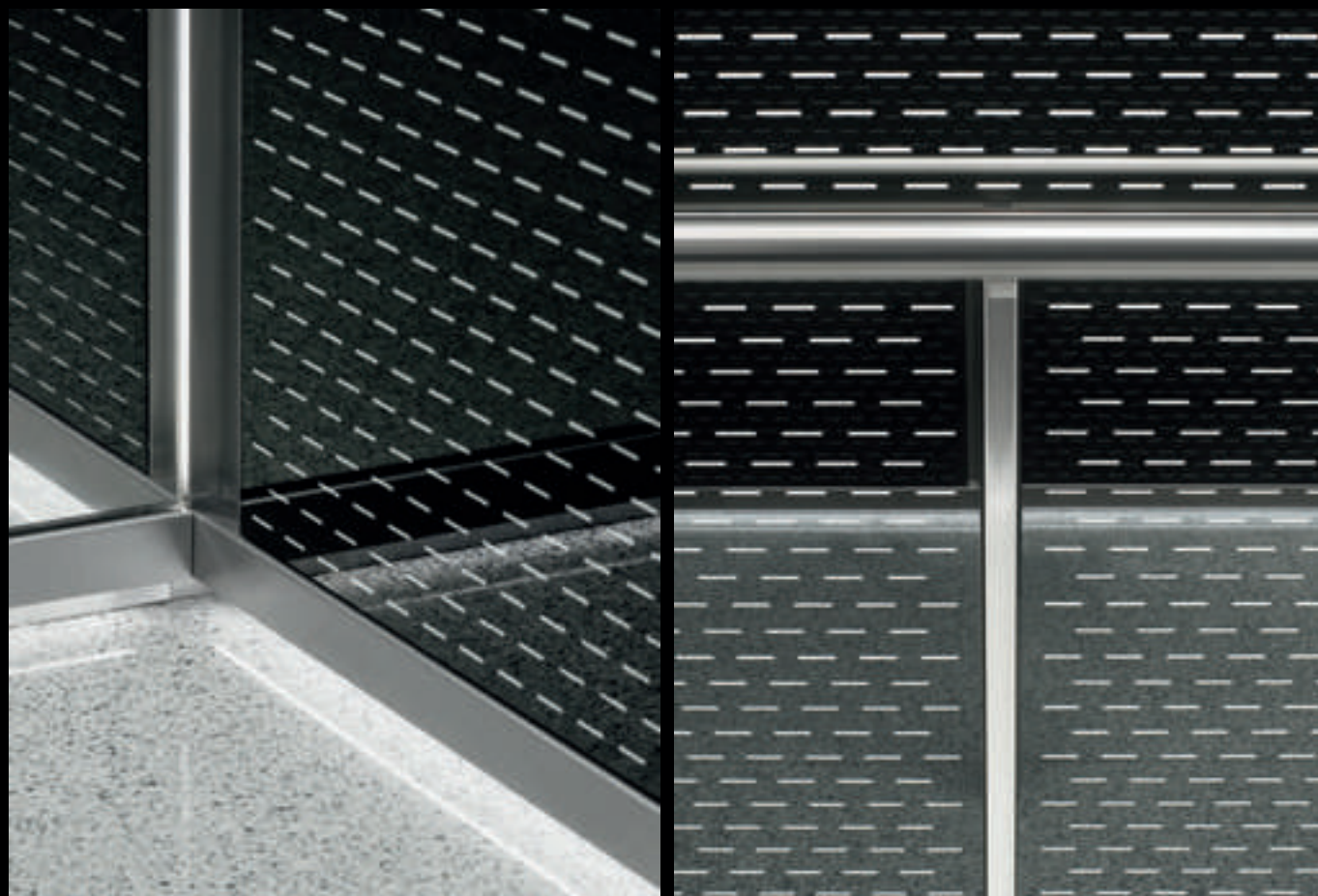


CG-X THE COLOR GLAS[®] ELEVATOR

CG-X BRILLIANT BLACK
Graphic. Expressive.
A statement for elegance.

CG-X Brilliant black

Side walls:	CG-X Color Glas [®] , single safety glass SSG, brilliant black, line graphic brilliant white Glass frame stainless steel, satin finish Pilaster strip stainless steel, satin finish
Rear wall:	Mirror, bright, mirror edges ground and polished, vertical LED neutral white, backlit
Cab door:	Stainless steel, satin finish
Floor:	Granite light grey
Skirting rail:	Stainless steel, satin finish, LED neutral white backlit
Ceiling:	White varnishing, semi-gloss
Operating panel:	BT-I-TFT-LED-XS Information panel: acrylic glass, black, semi-gloss Logo: black inlay, high-gloss, trademark engraved, high-resolution TFT
Lighting:	LD5X-LED / LD5X-LED-RGB
Handrail:	Stainless steel, satin finish



CG-X BRILLIANT BLACK

elegant and fascinating design
emotional, custom ambiance
impressive and generous spatial design

- precise product details for all equipment components
- impressive lighting design, glare-free and unique, developed for customer-specific lighting scenarios
- outstanding user ergonomics for all equipment components
- intuitive orientation and excellent user comfort thanks to clearly organised, clearly legible information on the control panel
- functional, high-quality and easy-care materials like safety glass, mirrors, stainless steel and granite
- brilliant mirroring of room details and light in the CG-X Color Glas®
- linear LED light signatures in the control panel area, mirror, base
- accentuated , black/white contrast graphics in the CG-X Color Glas® cab walls
- digital print quality for sharp contours
- excellent surface technologies like inlays, engraving and glass cutting



Wall connection T1

Shaft door:	Two-piece, centre-opening, sliding door, primed steel plate, Accessories: Stainless steel, satin finish
Door frame / wall connection:	Primed steel plate, Accessories: Stainless steel, satin finish
Operating panel:	Stainless steel, satin finish, Information panel acrylic glass, deep black, white LED
Buttons:	Stainless steel, satin finish, inset flush
Call acceptance:	Blue LED
Symbols:	Plastic, light grey



Wall connection T1 / Door sills

Shaft door:	Two-piece, centre-opening, sliding door, primed steel plate, Accessories: Stainless steel, satin finish
Door frame / wall connection:	Primed steel plate, Accessories: Stainless steel, satin finish
Cab door:	Two-piece, centre-opening, sliding door, stainless steel, satin finish
Buttons:	Stainless steel, satin finish, inset flush
Door sills:	Aluminium



Operating panel BT-TP-CG-1

Dimensions:	HWD 400 x 66 x 6 mm
Operating panel:	Stainless steel, satin finish
Skirting frame:	Acrylic glass, white
Information panel:	Stainless steel, satin finish, acrylic glass, deep black, high-gloss
Display:	White LED
Buttons:	Stainless steel, satin finish, inset flush
Call acceptance:	Blue LED
Symbols:	Plastic, light grey

CG-X ACCESSORIES FOR INDIVIDUAL REQUIREMENTS





Operating panel BT-I-TFT-LED-XS

Dimensions:	HWD 1,205 x 150 x 15 mm
Operating panel:	Stainless steel, satin finish
Light frame:	Acrylic glass, white, satin finish, LED neutral white
Information panel	Acrylic glass, black, semi-gloss Logo: acrylic glass inlay, black, high-gloss Trademark: engraved
Display:	High-resolution TFT
Buttons:	Stainless steel, satin finish, inset flush
Call acceptance:	Blue LED
Symbols:	Plastic, light grey

Name plate panel TNS2-XS

Dimensions:	HWD 763 x 90 x 15 mm
Name plate panel:	Stainless steel, polished, Acrylic glass, black, semi-matte, with transparent view window
Light frame:	Acrylic glass, white, satin finish, Neutral white LED
Nameplates:	Acrylic glass, black, Digital print, process white

CG-X LIGHTDESIGN

THE 4TH DIMENSION
OF ARCHITECTURAL
DESIGN.

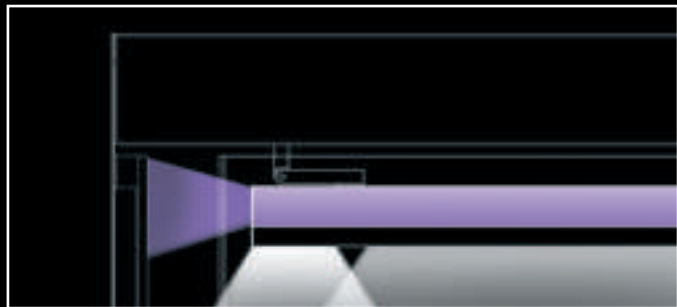




CG-X Color Glas® Elevator with LD5X LED RGB illuminated ceiling.

- Dimensions: HWD 100 x 940 x 1,320 mm*
 Edge distance to side walls 80 mm each,
 to entry side and to back wall 40 mm each.
- Lamps: power LED
- Accessories: LED RGB, colour control
- Illuminated frame: LSG, semitransparent, LED illuminated,
 neutral white, side acrylic glass, white,
 high-gloss, semitransparent
- Light surface: LSG, semitransparent,
 LED illuminated

* Example dimensions for car size
 KB 1,100 mm x KT 1,400 mm



Vertical section of LD5X LED RGB illuminated ceiling.
 Functional diagram of direct/indirect lighting.
 LED neutral white / light colour as required.

LD5X LED RGB illuminated ceiling

Schmitt+Sohn offer sophisticated LED lighting solutions for elevator cars that are geared towards creating comfort and a generous impression of space. The lighting configuration in the elevator cars meets the requirements of an efficient and accentuated architectural lighting design.

Vertical lighting plays a prominent role in the architecture. Schmitt+Sohn translates this unique lighting control into an outstanding light design. The newly developed LD5X LED illuminated ceiling sets standards with its design and its functional furnishing.

Intelligent LED RGB colour controls make many attractive light designs possible. Colours, colour changes and colour rhythms can be effectively combined with each other.

This creates impressive lighting moods in the elevator cab.. The colours change in the illuminated frame of the car. The light coming from the side is optically enhanced in the reflection on the car ceiling. The excellent basic brightness in the car is generated by the powerful white LED illuminated field and the LED area in the centre.

Light installations can be programmed in accordance with customer-specific, design or functional requirements. Applications are, e.g.:

- Simulation of a natural cycle of daylight.
- Creating lighting effects,
- Colour floor visualisation



CG-X Color Glas® Elevator with LD5X LED RGB illuminated ceiling.



LD8 LED illuminated ceiling LD8 LED RGB illuminated ceiling

Highest functionality, puristic design and brilliant light technology characterise the totally new LD8 LED illuminated ceiling. The homogenous, neutral white illuminated surface and the very flat design of the LD8 are among its essential features.

The especially developed frame geometry not only achieves a virtually frameless light surface – it also gives the LD8 a very delicate appearance. The interior of the elevator car appears generously roomy and elegant. Impressive colours and shapes are a feast for your eyes.

Intelligent LED RGB color control facilitates versatile and attractive lighting designs. Colors, color changes and rhythms can be combined with one another effectively.

This creates impressive, inspiring, and unusual lighting effects in the elevator cab.

Colors change in the illuminated frame of the cab lighting. The light coming from the side is visually amplified by the reflection on the ceiling of the cab.

The powerful LED light panel in the car generates excellent brightness

Lighting effects can be programmed based on customer-specific, design, or functional requirements.

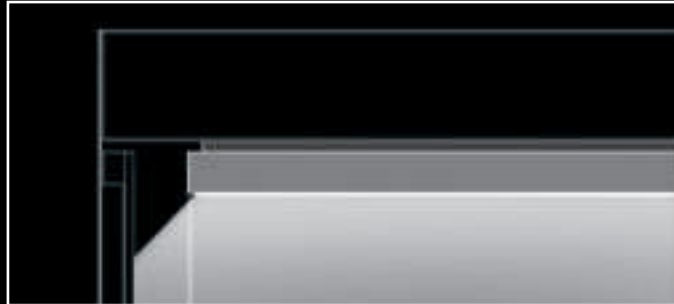
Applications include, for instance:

- Simulating the natural progression of daylight
- Creating lighting moods
- Visualizing different floors in different colors

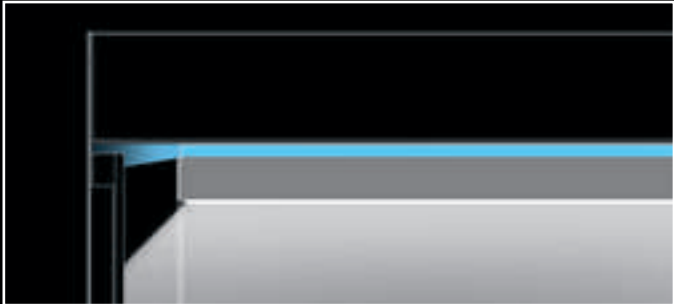
CG-X Color Glas® elevator with LD8 LED illuminated ceiling.

- Dimensions: HWD 38 x 940 x 1,300 mm*
Edge distance to side walls 80 mm each,
to entry side and to back wall 50 mm each.
- Lighting: power LED, neutral white
- Accessories: LED RGB, colour control
- Frame: aluminium, brilliant white
- Light surface: plastic, white translucent,
B1 flame-resistant

* Example dimensions for car size
KB 1,100 mm x KT 1,400 mm



Vertical section of LD8 LED illuminated ceiling.
Functional diagram of direct lighting.
LED neutral white.



Vertical section: LD8-LED-RGB ceiling light
Functional diagram of direct and indirect lighting
Neutral white LED, LED-RGB lighting control.





Operating panel EN 81-70-B

Dimensions:	HWD 180 x 500 / 600 x 99.5 mm
Operating panel:	Stainless steel, satin finish DIN EN 81-70, Appendix B
Buttons:	Stainless steel, satin finish Large buttons, raised Main access: plastic ring, green, raised Emergency call button: recessed
Call acceptance:	Blue LED
Symbols:	Plastic, light grey, raised, tactile

Display panel AT-I-TFT-LED-XS

Dimensions:	HWD 490 x 150 x 15 mm
Display panel:	Stainless steel, satin finish
Light frame:	Acrylic glass, white, satin finish, LED neutral white
Information panel:	Acrylic glass, black, semi-gloss Logo: acrylic glass inlay, black, high-gloss
	Trademark: engraved
Display:	High-resolution TFT



Surrounding HL handrail

Handrail: Stainless steel, satin finish, \varnothing 33.7 mm
 Handrail holder: Stainless steel, satin finish, solid
 Handrail ends: Stainless steel, satin finish, welded



Luggage protection rails

Dimensions: HW 100 x 20 mm
 Stainless steel, satin finish



Cab- and shaft door with T1 wall connection and M1 wall enclosure

Wall bezel: Primed steel plate,
 Accessories stainless steel, satin finish



Operating panel BT-TP-CG-2
 collective two-button and group control

Dimensions: HWD 400 x 66 x 6 mm
 Operating panel: Stainless steel, satin finish, concealed attachment
 Skirting frame: Acrylic glass, white
 Information panel: Acrylic glass, deep black, high-gloss
 Display: White LED
 Buttons: Stainless steel, satin finish, flush-mounted, positioning to DIN EN 81-70
 Call acceptance: Blue LED
 Symbols: Plastic, light grey



Color Glas® Portal

Portal:	Color Glas® brilliant white / Color Glas® brilliant black
Glass frame:	Stainless steel, satin finish
Shaft door:	Two-piece, centre-opening, sliding door, primed steel plate, accessories stainless steel, satin finish
Operating panel:	Stainless steel, polished, Acrylic glass, deep black, high-gloss Base frame: acrylic glass, white
Display:	White LED
Buttons:	Stainless steel, satin finish, inset flush, call acceptance blue LED
Symbols:	Plastic, light grey

Responsibility

„One customer – one responsible project manager. The expectations we place on ourselves are exacting. For the customer, this means they always have a competent partner to handle all of their needs from the first planning meeting to acceptance by the building owner, throughout Europe.“

Florian Hensen, New system sales



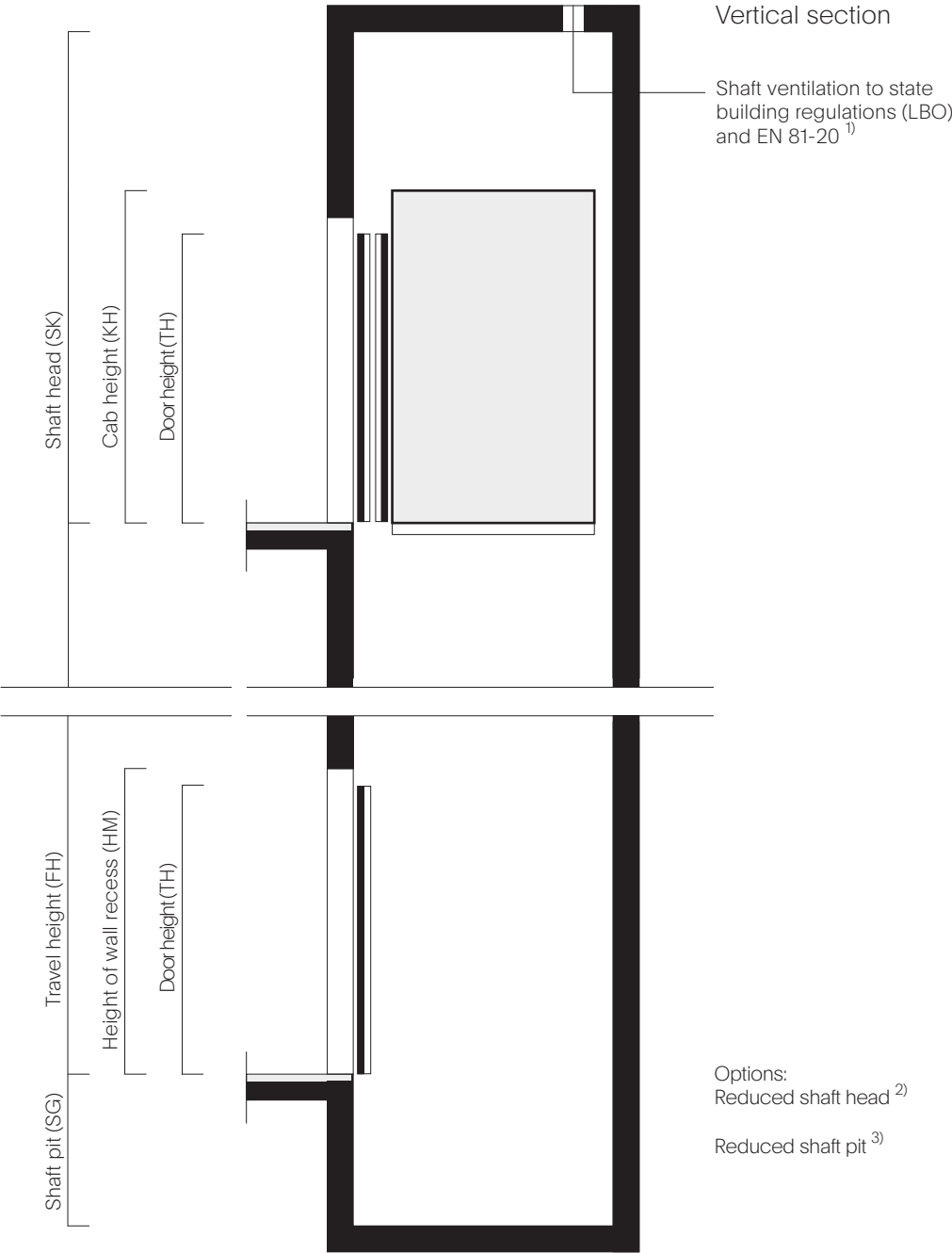
CG-X THE PLANNING

Technical drawing and dimension

Door height (TH)

Cab height (KH)

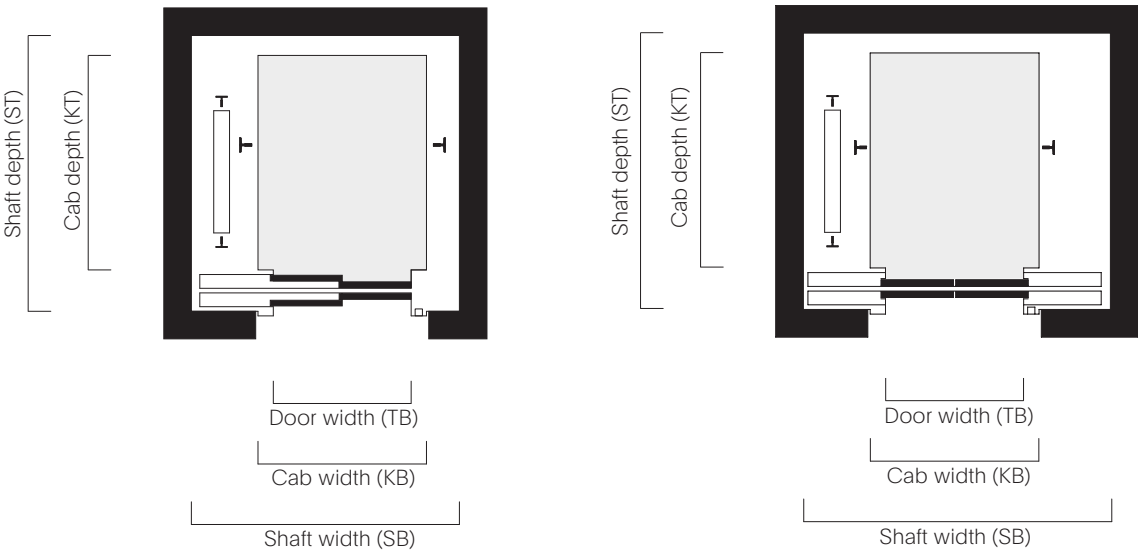
Shaft head (SK)



Layout

Door opening on one side

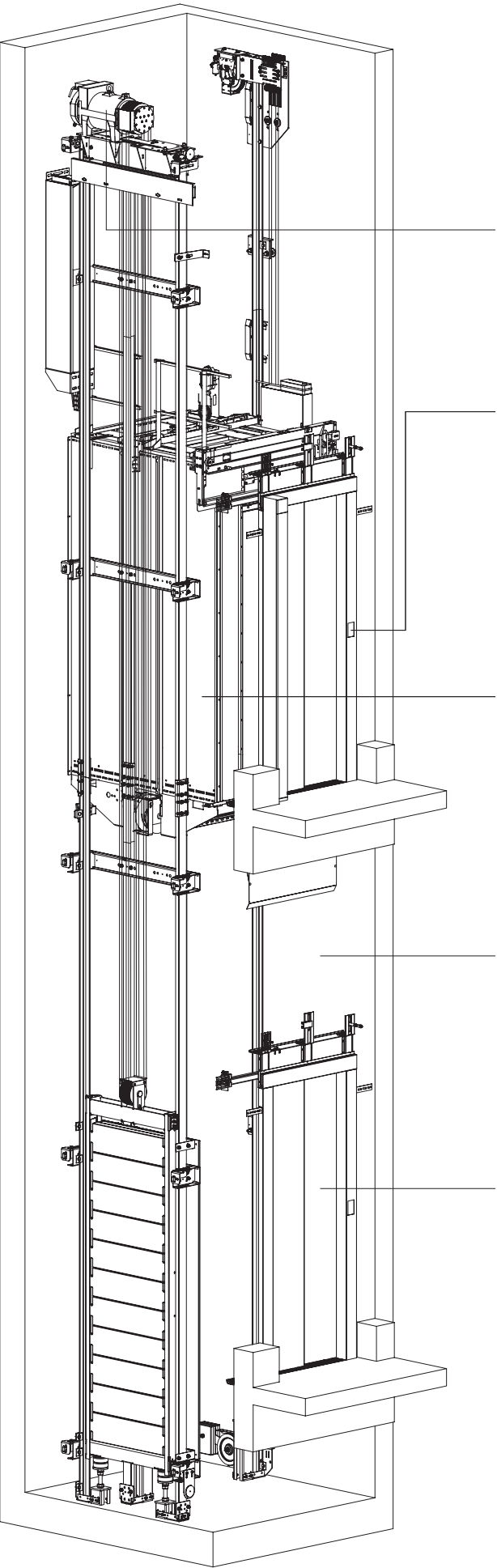
Doors centrally opening



- 1) Compliance with the Buildings Energy Act (GEG) on site.
- 2) Reduced shaft head at 1.0 m/s:
≥ 3,100 [Q ≤ 1,600 kg] technically possible with alternative measures.
≥ 2,900 to < 3,100 mm [Q ≤ 1,000 kg] in consultation and technical clarification with alternative measures possible.
Note: there are different approvals for reduced shaft heads and shaft pits in individual countries. In some cases a reduction is not permitted.
A clarification with the authorities responsible may be necessary.
We will be happy to support with your inquiries.
At v = 1.6 m/s on request.
- 3) Reduced shaft pit:
≥ 500 mm [Q ≤ 1,000 kg] with 6 mm flooring and adhesive.
≥ 650 mm [Q ≤ 1,000 kg] with 6 mm flooring and adhesive.
At v = 1.6 m/s on request.
- 4) Shaft depth reduced by 120 mm is possible with arrangement of the shaft doors in niches.
- 5) Shaft depth reduced by 240 mm is possible with arrangement of the shaft doors in niches.
- 6) Door opening from one side/centrally.
- 7) For LD8 LED illuminated ceiling, CH = 2,200 mm, SH -100 mm.

We will be happy to assist you with the planning and tender.
Please give us a call.

Capacity in kg and persons		Cab dimensions in mm			Door dimensions		Shaft dimensions in mm				
kg	Persons	Width (KB)	Depth (KT)	Height (KH) ^{2) 7)}	Width (TB)	Height (TH)	Width (SB)	Depth (ST)		Shaft pit (SG) ³⁾ v = 1.0 m/s / 1.6 m/s	Shaft head (SK) ^{2) 6)} v = 1.0 m/s / 1.6 m/s
								Door one side ⁴⁾	Opposite entrances ⁵⁾		
450	6	1,000	1,250	2,300	800	2,100	1,610/1,900 ⁶⁾	1,650	1,790	1,050/1,250	3,600/3,800 ⁶⁾
630	8	1,100	1,400	2,300	900	2,100	1,660/1,900 ⁶⁾	1,800	1,940	1,050/1,250	3,600/3,800 ⁶⁾
675	9	1,200	1,400	2,300	900	2,100	1,750/1,950 ⁶⁾	1,800	1,940	1,050/1,250	3,600/3,800 ⁶⁾
1,000	13	1,100	2,100	2,300	900	2,100	1,660/1,900 ⁶⁾	2,500	2,640	1,050/1,250	3,600/3,800 ⁶⁾
1,600	21	1,400	2,400	2,300	1,200	2,100	2,240/2,150 ⁶⁾	2,800	2,940	1,100/1,300	4,000/4,200 ⁶⁾



CG-X Color Glas® Elevator
Type-approved elevator system
to EN 81

The drive:

- Convenient: Superior, frequency-regulated drives
- Energy-saving: High-efficiency drives ¹⁰⁾
- Quiet: Noise pressure level below the requirements of the standard. ¹²⁾
- Safe: Stopping accuracy better than the standard. ¹⁶⁾

The controls:

- Passenger comfort: Float up and down with the Color Glas® CG-X Elevator ¹⁷⁾
- Energy-saving mode: Automatic switching off of cab lights and displays after longer standstill. ¹⁰⁾
- Standby mode: Staged running-down of controls and frequency regulation after longer standstill. ¹⁰⁾
- LED technology: In operating and display panels ¹⁰⁾
- Bus technology: Easy installation and maintenance.

The cab:

- Large: Maximum shaft utilisation in new and existing shafts. ²⁻⁷⁾
- User-friendly: Fast orientation and easy operation.
- Bright: Cabin lighting with vertical light, illumination of the side walls, indirect, glare-free. ^{14) 15)}
- Airy: Generous ventilation in the skirting and ceiling area. ¹⁸⁾
- Friendly: Materials, colours and surfaces.
- Smooth: Horizontal and vertical acceleration with top values. ¹⁷⁾

The elevator shaft:

- Maximum cab size: In new and existing systems ²⁻⁷⁾
- Adaptable: Optional reduction of shaft pits and heads. ^{2) 3)}
- Elevator shaft smoke extraction: system to reduce heat loss through shaft ventilation, optionally with electrically controlled window, rooflight dome or ventilation hood. ⁹⁾
- Quiet running: plastic sheathed specialised cable ¹²⁾

The doors:

- Convenient: Adjustable operating settings ¹⁷⁾
- Safe: Light curtain with narrow detection range
- Standby mode: Running-down of light grid after longer standstill. ¹⁰⁾
- Flexible: Centre-, left- or right-opening. One-sided or opposite.
- Fire resistance: certified according to EN 81-58

Subject to technical amendment.

Capacity in kg	Energy efficiency class ¹⁰⁾	Noise pressure level in dB (A)					
		In front of shaft doors		In the cab		In the shaft	
		DIN ¹¹⁾	CG-X Elevator ¹²⁾	DIN ¹³⁾	CG-X Elevator ¹²⁾	DIN ¹¹⁾	CG-X Elevator ¹²⁾
450	A	65	40	No specification	48	75	50
630/675	A	65	40	No specification	48	75	50
1,000	A	65	40	No specification	48	75	50
1,600	A	65	40	No specification	48	75	50

Capacity in kg	Brightness in Lux		Stopping accuracy in mm			
	1 m above cab floor		Stopping accuracy		Adjustment accuracy	
	EN 81 ¹⁴⁾	CG-X Elevator ¹⁵⁾	EN 81 ¹⁶⁾	CG-X Elevator	EN 81 ¹⁶⁾	CG-X Elevator
450	min. 100	min. 200	+/- 10	+/- 3	+/- 20	+/- 8
630/675	min. 100	min. 200	+/- 10	+/- 3	+/- 20	+/- 8
1,000	min. 100	min. 200	+/- 10	+/- 3	+/- 20	+/- 8
1,600	min. 100	min. 200	+/- 10	+/- 3	+/- 20	+/- 8

Capacity in kg	Smoothness in milli-G ¹⁷⁾		Air volume determination in terms of air exchange rate in m³/h	
	horizontal	vertical	DIN ¹⁸⁾	CG-X Elevator
450	11 +/- 1	11.2 +/- 1	14	39
630/675	11 +/- 1	11.2 +/- 1	17	53
1,000	11 +/- 1	11.2 +/- 1	25	66
1,600	11 +/- 1	11.2 +/- 1	42	110

10) VDI 4707, Energy efficiency of elevators.
In usage category 2, - the CG-X Color Glas® elevator fulfils energy efficiency class A with optional measures.

11) DIN 8989, Acoustical design in buildings - Lifts. Compliance with VDI 4100 on the basis of DIN 8989 must be ensured through structural sound insulation. Structural sound insulation measures must be taken into account in the design. We recommend you obtain advice from an acoustic sound consultant.

12) The sound pressure level indicated refers to a CG-X Color Glas® elevator in a concrete shaft with a mass per unit area in accordance with DIN 8989.

13) DIN 8989 does not specify a reference value.
The sound pressure levels merely specify a measurement of comfort for the user.

14) DIN EN 81-20, safety rules for the construction and the installation of elevators. Requirement: minimum illumination level 1 m above the elevator car and on the control devices: 100 lux.

15) Further maximum values up to 350 Lux are possible, depending on the selected equipment.

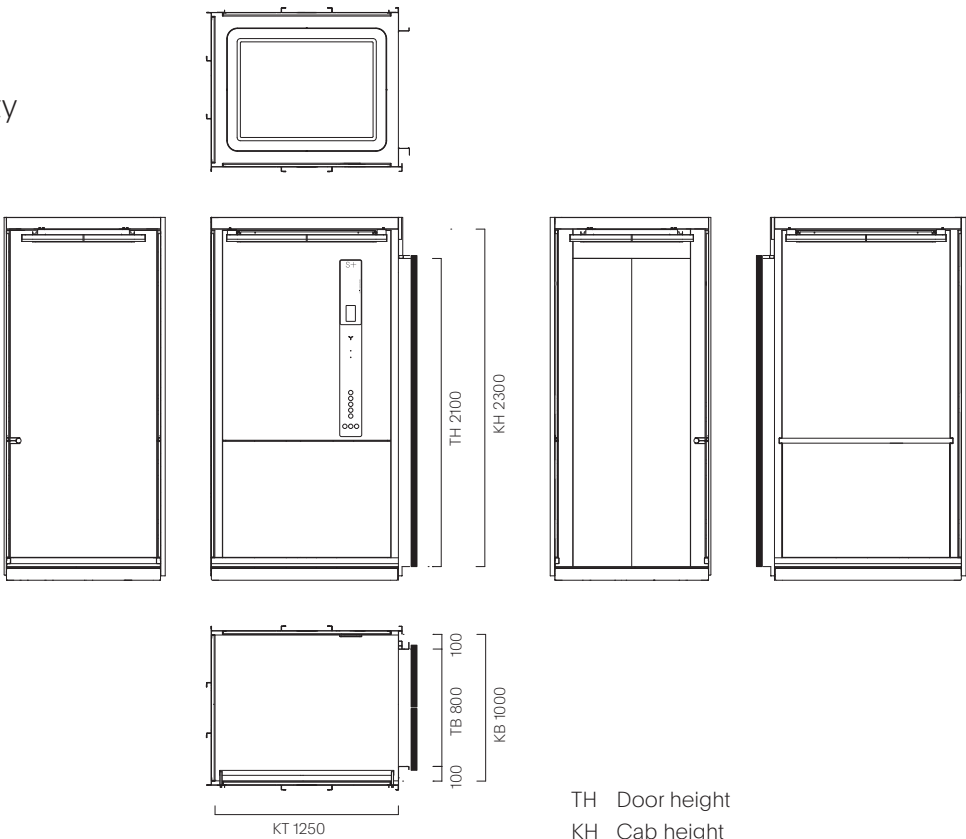
16) EN 81-20.
Adjustment accuracy: At level differences ≥ 20 mm when loading and unloading, the elevator is adjusted and must regain the prescribed stopping accuracy.

17) ISO 18738, Elevators - Measurement of passenger comfort of elevators, describes the measurement procedure.

18) DIN 1946 Part 1 and 2: Cab volume x 5.

450/6

450 kg Capacity
6 Persons

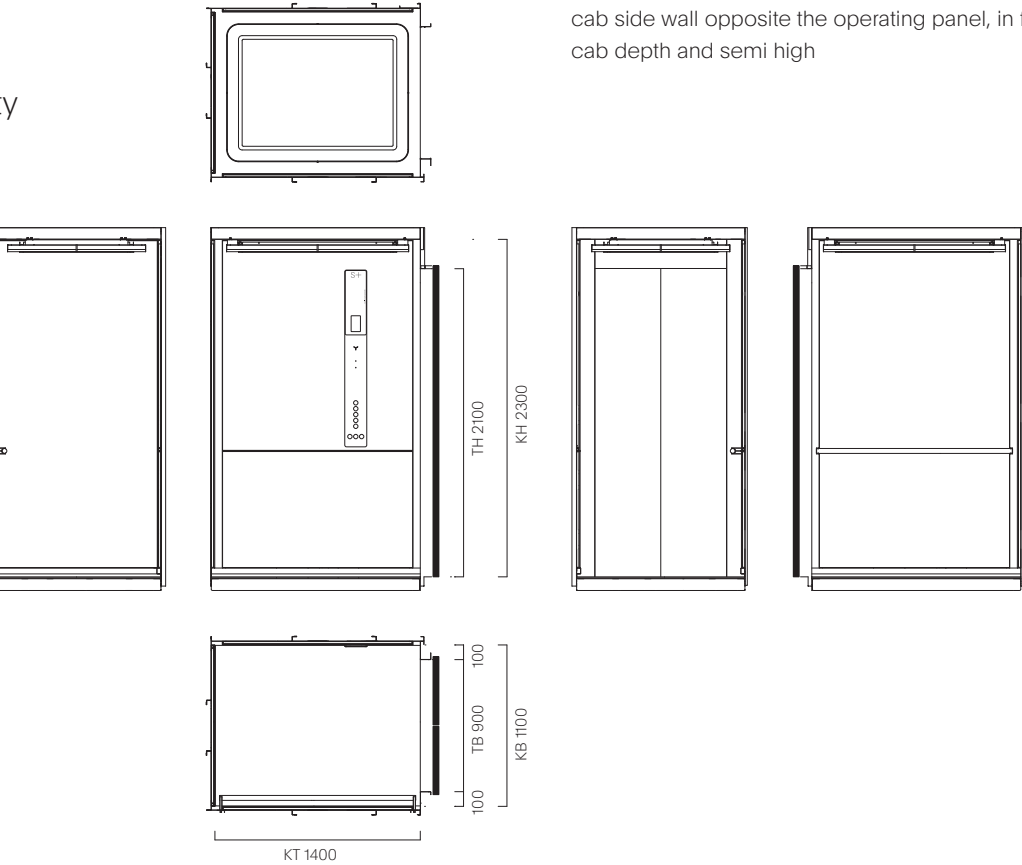


TH Door height
KH Cab height
KB Cab width
KT Cab depth

Mirror: For elevators with two opposing entrances, only the S5 mirror is available, positioned on the cab side wall opposite the operating panel, in full cab depth and semi high

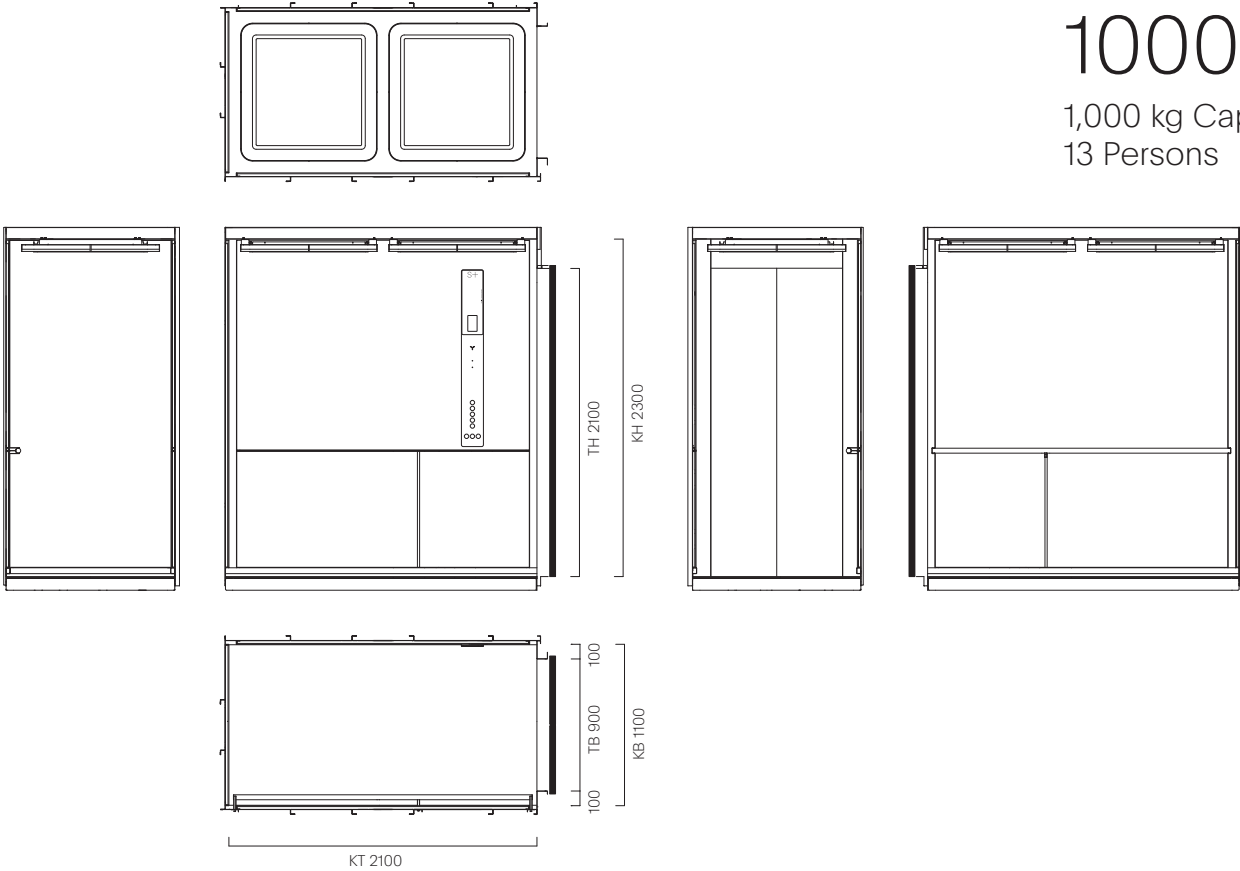
630/8

630 kg Capacity
8 Persons



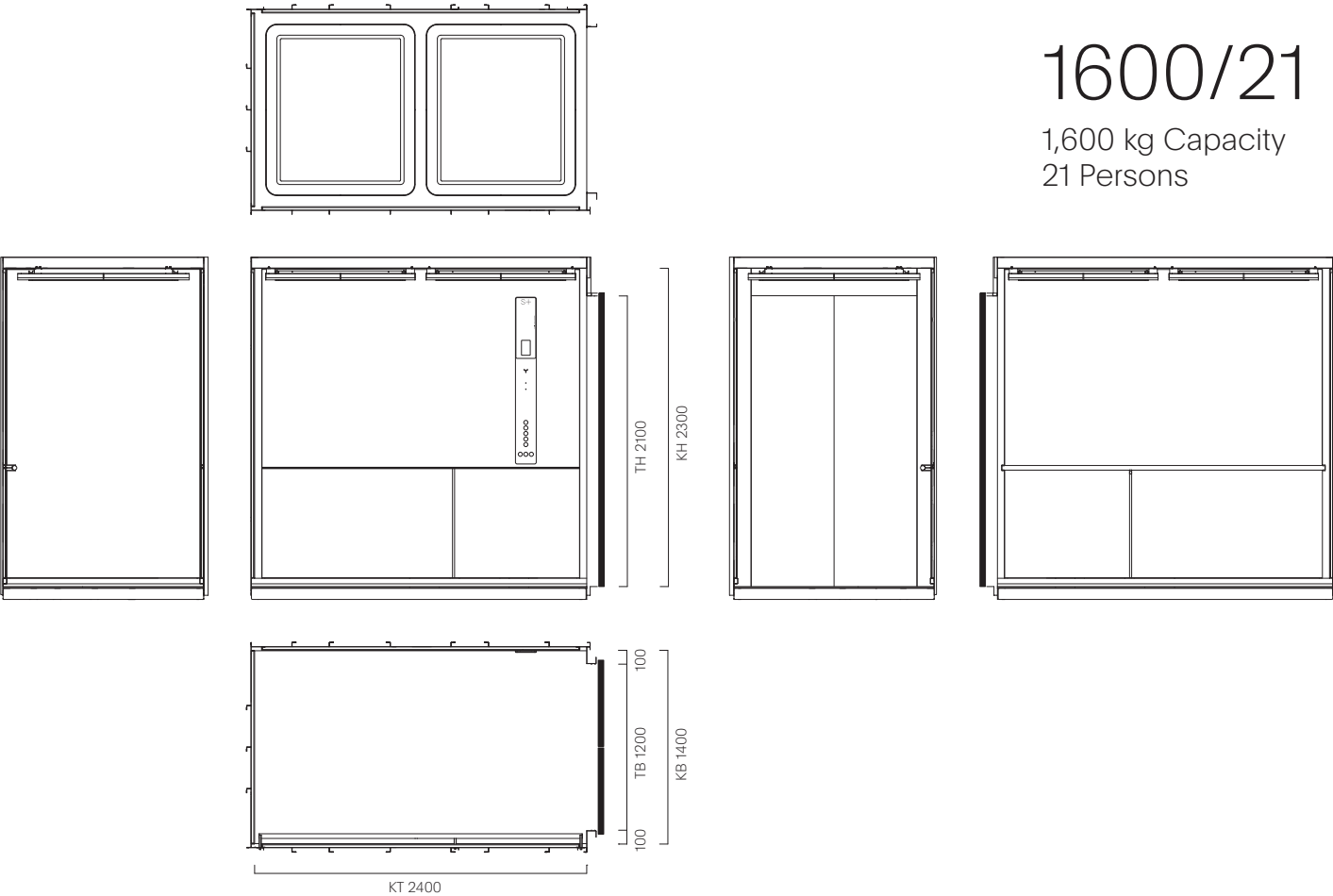
1000/13

1,000 kg Capacity
13 Persons



1600/21

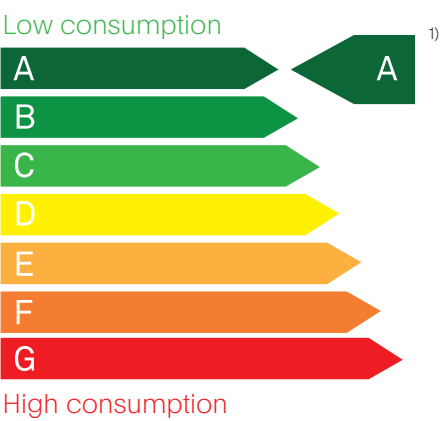
1,600 kg Capacity
21 Persons



ENERGY EFFICIENCY

THE CG-X ELEVATOR

COMPLIES WITH THE HIGHEST ENERGY EFFICIENCY CLASS A¹⁾



The energy consumption of all buildings in Germany is approx. 40 % of the total energy consumption.²⁾ Elevators take up to 3 to 5 % of this, which in the whole of Europe makes 18 TWh annually.³⁾

The energy consumption of an elevator is determined by many factors. The main factors are:

- the movement consumption
- the consumption when stopped
- the energy loss due to heat escaping via the shaft ventilation

The weighting of the factors depends heavily on the use of the relevant elevator. The stopped consumption of elevators in residential buildings alone makes up about 70 % of the total energy consumption of the elevators.

The power consumption is determined primarily by the system components and their energy efficiency.

For elevators which are mostly in standby operation, the energy consumption can be reduced by modern controls by up to 50 %. For cable elevators subject to frequent usage, high-quality drives with a high efficiency level should be used. With the use of intelligent control systems, mistaken trips can be avoided, and call assignment in elevator groups optimised, depending on the level of traffic. Reciprocal energy feed is possible in case of opposite movement direction of cabs in elevator groups. Roll resistance should be optimised by high-quality, maintenance-free ball bearings, round grooves and plastic-sheathed cables and lighter constructions.

A shaft smoke extraction system can reduce the energy loss caused by heat escaping through the shaft. Correct and sustainable elevator maintenance by qualified specialist personnel on the basis of EN 13015 permanently ensures the success of energy-saving measures.

1) The basis for calculation is usage category 2 in accordance with VDI 4707 for a CG-X Color Glas® elevator with a carrying capacity of 1000 kg, 25 m travel height, 1.0 m/s speed and energetic recovery.
2) Source: REGIERUNGonline, Bauen und Wohnen
3) Source: VDMA, Energieeffizienz in der Aufzugstechnik
4) The calculation basis are shaft dimensions of 1,750 x 1,800 mm surface area, 5 doors 900 x 2,000 mm, one-sided opening, shaft height 16 m

ADVANCED TECHNOLOGY

FOR CONSISTENT ENERGY-SAVING.

Energy-saving potential in movement consumption

The power consumption of elevators during movement depends mainly on the drive type. Modern, high-quality drive and control technology reduce the energy consumption significantly. This is shown by the comparison of the movement consumption of a CG-X Color Glas® elevator with common drive types:

- 10 % Energy-saving in comparison to a comparable cable elevator with gearbox and frequency regulation.
- 45 % Energy-saving in comparison to a comparable cable elevator with gearbox, pole-changing with 2 speeds.
- 75 % Energy-saving in comparison to a comparable hydraulic elevator.

Energy-saving in standstill consumption

The power consumption of elevators during standstill depends mainly on its active consumption sources. The standstill consumption can comprise up to 82 % of the total energy consumption of a lift. The greatest energy-saving potential lies in the switching off of unneeded consumers. This is shown by the technical solutions of the CG-X Color Glas® elevator:

- 32 % Energy-saving potential through the use of efficient lighting and switching off the cab lighting when the elevator is at a standstill.
- 5 % energy savings thanks to switching off light curtains, car level and directional indicators.
- 9 % Energy-saving potential through the switching off of the frequency converter in off-peak times.

Energy-saving potential in the shaft

Heat can escape unhindered to the outside through the required smoke extraction openings in the shaft head. Here the greatest energy-saving potential lies in closing the smoke extraction openings electrically operated dome lights or louvers. The dome lights or louvers open on smoke detection (automatically) or deliberate ventilation (manually).

- 10,400 Energy-saving is possible throughout the year if the escape of heat through the smoke extraction openings in the shaft head is prevented.⁴⁾

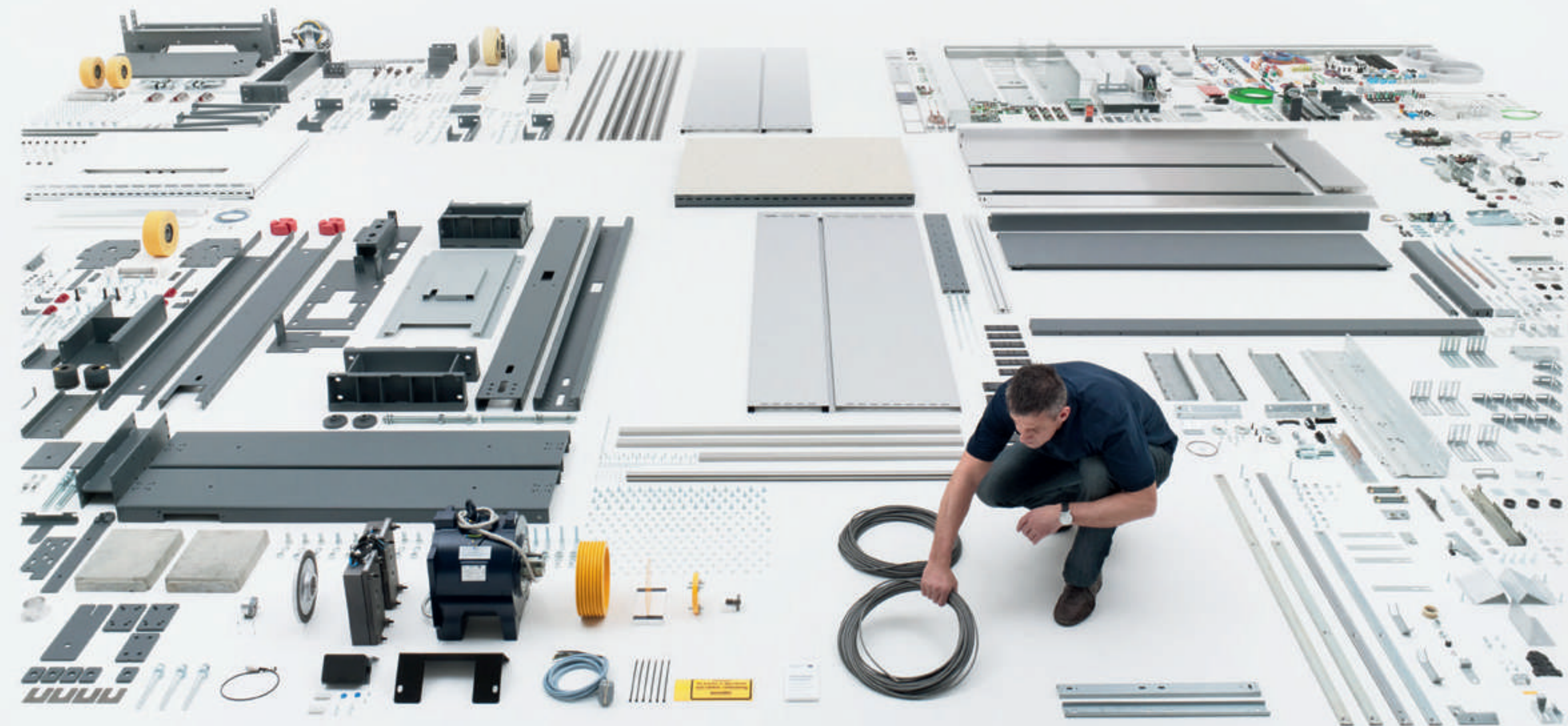
Three steps to the energy-efficient elevator.

The planning of serviceable and capable elevator systems should at an early stage take into account the building type, the planned use, and the applicable legal standards and regulations. The energy assessment of a CG-X Color Glas® elevator in three steps:

- Determination of the usage category
- Production of the energy-efficiency forecast
- Determination of heat energy loss through the smoke extraction openings in the shaft head

We will be happy to assist you with your planning. Please give us a call.

CG-X THE SERVICE



PERSONAL, COMPETENT AND ALWAYS AVAILABLE.

- 1+1

One customer - one responsible service manager.
An experts partner for all matters relating to service.
- 50,000

Schmitt+Sohn maintains elevator systems annually, both own and other makes.
- 24/365/0

Our on-call service: 24 hours per day, 365 days per year with 0 waiting time.
- 638

Qualified service technicians. Always on the move. Specialist maintenance, repair and assessment of elevator systems..
- 117

Service managers are responsible for the customer, the service technicians and the elevator systems.
- 13015

DIN standard quality. The standard for qualified servicing of elevator systems.
- 657

employees in Technology, Development, Production and Administration.
Fully up-to-date and service-orientated. Always on the job. Immediate reaction in case of emergency.
- 1

The central spare parts warehouse near Nürnberg, which stocks all spare parts, most of which are original parts from our own production.
- 34

Branches and sales offices throughout Europe. Closeness to our customers.
For all types of service required for your elevator.
- 796

Service vehicles as mobile spare parts stores, carrying over 300 of the most important wear parts. Direct on site. Quick reaction times. High availability.
- 10,000

A Schmitt+Sohn elevator consists of over 10,000 parts, almost all of which we produce ourselves in our own works. Genuine original parts to consistently high quality. 20 years spare parts guarantee. For orders placed before 16:00, we deliver any of these 10,000 parts overnight.



- 3

Performance-based service contracts.
For a long-lasting partnership.
- SYSTEM MAINTENANCE

The service contract for system maintenance covers the checking and servicing of all safety devices, setting and adjustment work to DIN 31051.
- FULL MAINTENANCE

The service contract for full maintenance covers all costs which can be incurred in connection with the operation of a elevator system:
Maintenance work and repair measures, including all spare parts deliveries and fault rectification, and the performance of the regular official tests.
- C 2000

The service contract C 2000 consists of modular services: Emergency call and video misuse detection, elevator attendant and building control technology module, online care all round the clock.



NEXSD[®] NEXT ELEVATOR SERVICES

NEXSD[®] is the result of many years of research and development at Schmitt+Sohn elevator. Cross-manufacturer and compatible with over 100 different controllers, NEXSD[®] offers the best service, predictive analysis and the highest availability with full transparency thanks to intelligent algorithms.

Every CG-X Color Glas[®] elevator comes already equipped with an NEXSD[®] Box, meaning it can offer all the advantages of NEXSD[®].

Because it is manufacturer-independent and can be retrofitted at any time, NEXSD[®] is unique on the market.



More information is available at:
<https://www.schmitt-elevators.com/nexsd>.
For a video on NEXSD[®], please scan this QR code with your smartphone.

NEXSD CUSTOMER COCKPIT[®]

The NEXSD CUSTOMER COCKPIT[®] provides access to all key operating data for your elevators in real time.

NEXSD AWM[®]

Electronic elevator attendant
The fourth generation of the elevator attendant fulfills all statutory requirements and is seamlessly connected to the controller. Elevator systems are tested fully and on an ongoing basis to detect problems promptly.

NEXSD CARE[®]

The NEXSD CARE[®] system automatically records operating and fault data. Predictive analyses make it possible to detect and correct wear promptly.

NEXSD INSPECT[®]

NEXSD INSPECT[®] is used to collect and analyze relevant data from systems subject to frequent faults. This makes it easier to determine the status of the system on a preventative basis, and identify necessary measures.

You will find your competent contact
in any of our 34 branches.
We look forward to hearing from you.

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The company Schmitt+Sohn Elevators has been awarded internationally renowned design prizes for its corporate design, the company presentation, its elevator systems and elevator series.

- iF product design award 1997, Schmitt+Sohn Elevator Systems
- iF product design award 2008, Schmitt+Sohn Color Glas® Elevators
- 2009 Design Prize of the Federal Republic of Germany, nomination, Schmitt+Sohn Color Glas® Elevators
- red dot award communication design 2011, Schmitt+Sohn Corporate Design
- red dot award communication design 2011, Schmitt+Sohn Corporate Company Brochure
- iF communication design award 2011, Schmitt+Sohn Company Brochure
- 2012 Design Prize of the Federal Republic of Germany, nomination, Schmitt+Sohn Company Brochure
- German Design Award 2015, special mention for Schmitt+Sohn Corporate Design
- German Design Award 2015, special mention for Schmitt+Sohn Color Glas® Elevators
- Iconic Award 2014 for Schmitt+Sohn product brochures
- Iconic Award 2014 for Schmitt+Sohn exhibition stand construction 2013
- Iconic Award 2014 for Schmitt+Sohn new construction of branch in Coburg
- Iconic Award 2014 for Schmitt+Sohn Color Glas® Elevators
- Iconic Award 2014 for Schmitt+Sohn Product Forum
- German Brand Award 2020, Winner in Excellence in Brand Strategy and Creation
- German Brand Award 2020, Gold in Excellent Brands for Schmitt+Sohn Elevators



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