GP
THE GLASS AND PANORAMA ELEVATOR
Our key figures
Schmitt + Sohn at a glance – Aspects of a successful company

1861
Foundation of the company. Tradition in lift construction and service.

6
generations of experience. The company family as a constant.

1,500
systems annual production. Production in our own works.

90,000
lift systems built. Our references throughout Europe.

1,600
employees. Success has many faces. This figure includes 84 trainees.

4
countries in Europe. We are at home in: Germany, Portugal, Austria, the Czech Republic.

9001

1,500
systems annual production. Our references throughout Europe.

40,000
systems to be serviced annually. Competence you can rely on.

160
€ million turnover. Ultimately convincing.

0
bank liabilities. Independence for strong partnerships.

Our values
Daily learning:
This is what our 1,600 dedicated employees stand for, by devoting all their skills and abilities to their work.

Quality:
Continual further development and improvement of processes and products. For example in production. Every year, 1,500 new lift systems leave our works. All to consistently high quality.

Entrepreneurial reliability:
The basis of enduring relationships, both with our customers and with our employees, is entrepreneurial reliability. And not only since yesterday, but for over 100 years.

Our Products
We develop unusual products, which comply with exacting requirements, both technically and aesthetically. Those products arise from the dialogue between architecture, design and technology. This is part of our conviction. Systematics, functionality and the quality of careful finishing down to the last detail belong just as much to the commitment to rational development and design.

Our Service
We will assign you one of our service managers, who will be there to assist you throughout the complete service life of your lifts. A great responsibility, because we look after over 40,000 lift systems annually. Thanks to our decentralised network, we are always in the neighbourhood to provide convincing on-site service. Safety takes top priority: Our service is available 24 hours per day, 365 days per year – with 0 waiting time. For a successful and lasting partnership.
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GP Glass and Panorama Elevator
With pleasure and also a little pride, we present to you today the product brochure of the original GP glass panorama lifts from Schmitt + Sohn. An internationally outstanding top product, which in the face of all rapid change relies uncompromisingly on quality.

Created by the passion of 1,600 dedicated employees and over 100 years in-house experience in lift construction. Our answer. Our attitude. Our understanding for 6 generations.

Out of the conviction for reliable construction. For customers who place the highest demands on themselves and their business partners. For all those in search of peak performances, down to the last detail. A product which is inspiring from the planning stage right through to service.

With brilliant elegance, high-quality materials and convincing details. Constructed for the pleasure of use and the reliability of special personal service.

We and our name stand firmly for these values. Out of the conviction of a family-managed company with a long tradition. In the responsibility for employees, customers and partners. Look, read and discover.

Welcome to Schmitt + Sohn.

Maximilian Schmitt
Managing partner
GP
The Glass and Panorama Elevator
GP The glass panorama elevator

One aspiration.
One approach.
One statement.

We believe in quality construction and timeless values.

GP The glass panorama elevator


For customers who expect top performances in architecture, technology and design and who are looking for long-lasting partnerships. A product that excites from its planning phase to its being put into service. A product that has set international standards. A product that will excite you. Developed for architecture that wants to set new standards, planned with great care and built with sustainability in mind.

From a family business with a long tradition. Taking on responsibility for employees, customers and partners.

Welcome to Schmitt + Sohn elevators.

GP Design

Transparency and highest functionality characterise the GP design. Architecture, technology and design in an inspiring dialog. Aimed towards innovation, mobility and intelligent building development.

The premium materials that go into the construction and design of a GP car, coupled with striking details and easy to follow instructions, all add up to giving a feeling of space, comfort and convenience.

A new take on elevator architecture. Highly-functional and innovative LED RGB illuminated ceilings create an impressive light design to perfection. The brilliant light quality enhances the exceptional elegance of the CG cars. Numerous attractive designs can also be achieved by using intelligent RGB colour controls. Colours, colour changes and colour rhythms can be effectively combined with each other. This is how impressive, inspiring and atmospheric lighting is achieved in the GP car.

GP economic efficiency

GP sets standards. Without machine room, space-saving, with low energy and operating costs. Apart from the excellent drive advantages, the GP is a sound, first choice investment: as high-quality, unique and innovative serial product.

Easy to plan. Quick to produce. Safe to assemble. Service-friendly.

The economic efficiency of the GP is not only down to the superior concept of simplified planning and personal project support. Premium quality materials and the careful execution of sophisticated detailed solutions guarantee its longevity and make it unique. With its excellent backup support each Schmitt + Sohn elevator delivers maximum running time. We stand for these values and so do all our employees.

GP comfort and safety

Winning ergonomics, excellent ride comfort in an exceptional product. This is the result of intensive development dialog on architecture, design and technology.

User, operator and service personnel enjoy the effective protection of a comprehensive safety concept. Developed in accordance with the European standards. It goes without saying that it is type-tested. Our own staff from development, sales, production, installation and service are continuously trained and this guarantees highest quality and permanent availability.
Quality
Perfect to the last detail
### Lighting LD5X-LED-illuminated ceiling

- **Dimensions:** HWD 100 x 940 x 1,240 mm*
- **Light frame:** Underside LSG, semi-transparent, lighted. Side acrylic glass, white, polished, semi-transparent
- **Central area:** LSG, semi-transparent, lighted
- **Light:** LED neutral white

### Operating panel BT-I-TFT-LED

- **Dimensions:** HWD 1,205 x 150 x 15 mm
- **Operating panel:** Stainless steel, satin finish
- **Light frame:** Acrylic glass, white, satin finish, white LED
- **Information panel:** Acrylic glass, white
- **Display:** High-resolution TFT
- **Buttons:** Stainless steel, satin finish, inset flush
- **Call acceptance:** Blue LED
- **Symbols:** Plastic, light grey

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

Handrail: Stainless steel, satin finish,
ø 33.70 mm
Handrail holder: Stainless steel, satin finish, solid
Handrail ends: Stainless steel, satin finish

Handrail bow: Stainless steel, satin finish, welded
Handrail support: Stainless steel, satin finish, solid
Details

Handrail GP cabs ≥ 1,000 kg

- Handrail: Stainless steel, satin finish, Ø 33.70 mm
- Handrail holder: Stainless steel, satin finish, solid
- Handrail ends: Stainless steel, satin finish
- Handrail bows: Stainless steel, satin finish, welded

Floor / skirting rail

- Floor: Granit, light grey
- Skirting rail: Stainless steel, satin finish

Horizontal section of central panel, side wall with operating panel
Accent Color Glas®

Horizontal section of central panel, side wall without operating panel
Accent Color Glas®

Vertical section of rear wall / floor
Skirting rail fitted. Concealed, generously dimensioned cab ventilation under the skirting rail.
# GP Product specification

<table>
<thead>
<tr>
<th>Detail</th>
<th>Description</th>
<th>Series</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Side walls</td>
<td>Laminated safety glass LSG, stainless steel, satin finish.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear wall</td>
<td>Laminated safety glass LSG. Glass frames stainless steel, satin finish.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cab corners</td>
<td>Stainless steel, satin finish.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceiling</td>
<td>Painted RAL 9016 traffic white. Concealed, generously dimensioned cab ventilation at cabin depth in both side walls.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lighting</td>
<td>LD5X LED illuminated ceiling, direct, indirect and glare-free illumination. LED neutral white. Illuminated frame made of laminated safety glass, semi-transparent, white acrylic glass side, half-glass, semi-transparent. Central area made of laminated safety glass, semi-transparent. 11, 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD5X LED RGB illuminated ceiling with RGB colour and light control.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD7 LED ceiling light, indirect and glare-free illumination. LED neutral white. Shade, varnished metal, brilliant white. Filter disk and illuminated frame made of white acrylic glass, semi-transparent.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD7 LED RGB ceiling light. LED neutral white. RGB with colour and light control.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD8 LED illuminated ceiling, direct and glare-free illumination. LED neutral white. Aluminium frame, brilliant white. Light surface made of white plastic, semi-transparent.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Floor</td>
<td>Granite, light grey. Lowered cab floor for installed floor covering. 11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skirting rail</td>
<td>Stainless steel, satin finish. Concealed, generously dimensioned cab ventilation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Handrail</td>
<td>Stainless steel, satin finish, suitable for the handicapped to DIN EN 81-70. 5, rear wall, side walls ø 33.70 mm. Handrail holder stainless steel, solid. Corner connection stainless steel welded with finishing grinding. Handrail ends: Stainless steel.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating panel</td>
<td>Stainless steel, satin finish, concealed attachment. Information panel acrylic glass, white, light frame acrylic glass, white, satin finish. Display high-resolution TFT. Short-travel buttons, flush, round, button surface stainless steel, call acceptance blue LED, symbols plastic, light grey.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cab</td>
<td>Stainless steel, satin finish, suitable for the handicapped to DIN EN 81-70. 5 Appendix G, horizontal, concealed attachment. Separate information panel. Large, raised buttons, round, button surface stainless steel, call acceptance blue LED, symbols raised, tactile, plastic, light grey. 51</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nameplates</td>
<td>Nameplates in control panel NS2. 11 Stainless steel, satin finish, concealed attachment, set flush in operating panel. Replaceable. Dark grey engraving.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cab portal</td>
<td>Stainless steel, satin finish.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cab door</td>
<td>Full glass door. Laminated safety glass, stainless steel, satin finish, centre-opening 3, door height 2.100 mm. 51</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Full glass door, two-piece, opening one side.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Glass frame door. Laminated safety glass, stainless steel, satin finish.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Steel plate door, stainless steel, satin finish.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Door drive
- Energy-saving regulated drive with intelligent travel measurement.

## Door monitoring
- 2-0 safety light grid over full door height.
- 3-0 safety light grid with vestibule monitoring.

## Shaft doors
- Full glass door. Laminated safety glass, stainless steel, satin finish 11, centre-opening 5, door height as for cab door.
- Full glass door, two-piece, opening one side.
- Glass frame door. Laminated safety glass, stainless steel, satin finish. 11
- Steel plate door; primed; stainless steel, satin finish, stainless steel lines. 11
- Wall bezel settings M1, primed, stainless steel, satin finish, stainless steel, linien. 11
- Portals: P1 primed, stainless steel, satin finish, stainless steel lines. Color Glass: P7-G laminated safety glass. 11

## Operating panel
- Stainless steel, satin finish, mounted in door frame, concealed attachment. Skirting frame acrylic glass, white, Dispaly blue LED. Short-travel buttons, inset flush, button surface stainless steel, call acceptance blue LED, symbols plastic, light grey.
  - Positioned in the portal or masonry, easier accessibility to DIN EN 81-70, cover plate screw-fitted.
  - Large buttons, suitable for the handicapped to DIN EN 81-70 Appendix G, panel width 80 mm. 11

## Controls
- 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 frame made of stainless steel, satin finish, stainless steel linen.
  - Service access frame at any stop or service panel in neighbouring rooms. 10
  - Collective two-button control, collective group control.

## Emergency call system
- 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. 11
- Video misuse identification for the digital emergency call and diagnosis system. 11
- Remote monitoring of lift attendant functions, transmission of diagnosis data, GSM module. 11

## Shaft
- Acoustic decoupler of the drive to reduce structure-borne noise that meets increased requirements in accordance with VDI 2566, supplement 2 for DIN 4109 - 25 dB(A). 11

## Drive
- Gearless cable drive in shaft. High efficiency and low energy consumption. Load transfer via guide rails into the shaft pit. Speed 1.0 and 1.6 m/s, travel height up to 40 m.

## Lifting gear
- Special elevator suspension ropes, very smooth running, maintenance free. No electronic monitoring required.
<table>
<thead>
<tr>
<th>Detail</th>
<th>Description</th>
<th>Series</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Energy-saving mode</strong></td>
<td>Deactivation of cab light, fan and displays in the event of stoppage. On call entry, the assemblies switch themselves on again automatically. Potential saving of up to 70% of power consumption.</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td><strong>Stand-by mode</strong></td>
<td>Staggered shutdown of light grid, control and frequency control in the event of longer standstill (night mode).</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td><strong>Energy calculator</strong></td>
<td>Production of energy efficiency forecasts to VDI 4707.</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td><strong>Shaft smoke extraction</strong></td>
<td>X-Trac: heat loss reduction system via shaft ventilation. Electrically controlled window, rooflight dome or ventilation hood.</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td><strong>Intermediate circuit collective switching</strong></td>
<td>Reciprocal energy feed in case of opposite movement direction of cabs in one group.</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

We will be happy to assist you with your planning. Please contact us.
Subject to technical amendment.
<table>
<thead>
<tr>
<th>Colour/Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG Brilliant white</td>
</tr>
<tr>
<td>CG Silk grey</td>
</tr>
<tr>
<td>CG Deep black</td>
</tr>
<tr>
<td>CG Dark blue</td>
</tr>
<tr>
<td>CG Deep orange</td>
</tr>
<tr>
<td>CG Light green</td>
</tr>
<tr>
<td>CG Light blue</td>
</tr>
<tr>
<td>CG Beige</td>
</tr>
<tr>
<td>CG Light yellow</td>
</tr>
<tr>
<td>Stainless steel</td>
</tr>
<tr>
<td>LSG</td>
</tr>
<tr>
<td>Traffic white</td>
</tr>
<tr>
<td>Granite Light grey</td>
</tr>
<tr>
<td>Granite White-grey</td>
</tr>
<tr>
<td>Granite Grey</td>
</tr>
</tbody>
</table>
Colours – Materials

GP 1  Stainless steel
GP 2  CG® Brilliant white
GP 3  CG® Silk grey
GP 4  CG® Deep black
GP 5  CG® Dark blue
GP 6  CG® Deep orange
GP 7  CG® Light green
GP 8  CG® Light blue
GP 9  CG® Beige
GP 10 CG® Light yellow
Colours – Materials

GP 6 CG® Deep orange

GP 1 Stainless steel
GP 4 CG® Deep black
GP 7 CG® Light green

GP 2 CG® Brilliant white
GP 5 CG® Dark blue
GP 8 CG® Light blue

GP 3 CG® Silk grey
GP 6 CG® Deep orange
GP 9 CG® Beige
GP 10 CG® Light yellow

GP 1,000 kg
Cab Exterior

Full glazing: Laminated safety glass
Cab exterior panelling: Stainless steel, satin finish, concealed fixing
Ceiling rails: Stainless steel, satin finish
Platform: Aluminum bulb plate all-over
Crossarms and traction angles: lacquered
Door drive: lacquered
Cab and shaft door with wall connection T1

Shaft door: Two-piece, central opening, sliding door, glass door, laminated safety glass
Door frame / wall connection: Stainless steel, satin finish
Operating panel: Stainless steel, satin finish, acrylic glass
Buttons: Stainless steel, satin finish, inset flush
Call acceptance: Blue LED
Symbols: Plastic, light grey

Horizontal section of cab and shaft door with door frame / wall connection T1
Cab and shaft door with wall connection T1
Door sills
Shaft door: Two-piece, central opening, sliding door
Door frame / wall connection: Stainless steel, satin finish
Door sills: Aluminium

Wall connection T1 with service access frame
Service access frame: Stainless steel, satin finish

Horizontal section of central door opening/service access frame

Cab and shaft door with wall connection T1
Door sills, service access frame
Shaft door: Two-piece, central opening, sliding door
Door frame / wall connection: Stainless steel, satin finish
Service access frame: Stainless steel, satin finish
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: Acrylic glass, blue
Display: Blue LED
Buttons: Stainless steel, satin finish, inset-flush
Call acceptance: Blue LED
Symbols: Plastic, light grey
Responsibility

“One customer - one responsible project manager. An exacting demand we place on ourselves. For the customer, this means: An expert partner, who takes care of everything from planning to production, installation and service. Throughout Europe.”

Karl-Heinz Weixelbaum, New system sales
Accessories for individual requirements
Nameplates NS2

Dimensions: HW 81 x 30 mm
Nameplates: Stainless steel, satin finish, individually replaceable.
Lettering: Dark grey engraving.
Lightdesign
Schmitt + Sohn
redefine the 4th dimension of architecture
LD6X 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 turn this light guidance into an independent and exceptional light design. The newly developed LD6X 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 is how impressive, inspiring and out-of-the-ordinary atmospheric lighting can be achieved in the elevator car. 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

Dimensions HWD: 100 x 940 x 1,320 mm
(Example car, 630 kg, WD 1,100 x 1,400 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: laminated safety glass, LED illuminated, neutral white, acrylic glass side, white, high-gloss, semi-transparent, central area: laminated safety glass, semi-transparent, LED illuminated
LD7 LED ceiling light
LD7 LED RGB ceiling light

Schmitt + Sohn light design make many attractive light designs possible by using intelligent RGB colour controls. Colours, colour changes and colour rhythms can be effectively combined with each other. This is how impressive, inspiring and out-of-the-ordinary atmospheric lighting can be achieved in the elevator car.

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 frame 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

Dimensions HWD: 12 x 132 x 1,260 mm
(Example car, 630 kg, WD 1,100 x 1,400 mm)
Lamps: power LED
Accessories: LED RGB, colour control
Illuminated frame: white acrylic glass, satin-finished, semi-transparent
Shade: varnished metal, brilliant white
Filter disk: white acrylic glass, semi-transparent
LD8 LED 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. Slightly rounded decorative profiles on the front give the LD8 a characteristic and distinctive design.

The interior of the elevator car appears generously roomy and elegant. Impressive colours and shapes are a feast for your eyes.

Dimensions HWD: 38 x 940 x 1,300 mm
(Example car, 630 kg; WD 1.100 x 1.400 mm)
Edge distance to side walls 80 mm each, to entry side and to back wall 50 mm each.
Lighting: power LED, neutral white
Frame: aluminium, brilliant white
Light surface: plastic, white translucent, B1 flame-resistant

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

GP Glass and Panorama Elevator
Operating panel EN 81-70-G

- **Dimensions:** HWD 180 x 500/600 x 99.5 mm
- **Operating panel:** Stainless steel, satin finish  
  EN 81-70, Appendix G
- **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

- **Dimensions:** HWD 490 x 150 x 15 mm
- **Display panel:** Stainless steel, satin finish
- **Light frame:** Acrylic glass, white, satin finish, LED white
- **Information panel:** Acrylic glass, white
- **Display:** High-resolution TFT

Vertical section of side wall
Operating panel EN 81-70-G

Horizontal section of side wall with operating panel  
DIN EN 81-70; Appendix G, Surface-mounted display panel, Lighting scheme, light frame
Luggage protection rails

Profile: Stainless steel, satin finish, ø 33.70 mm
Handrail holder: Stainless steel, satin finish, solid
Handrail ends: Stainless steel, satin finish

Car and shaft door with T1 wall connection

Shaft door: Two-piece, central opening, sliding door, primed steel plate
Accessories: Stainless steel, satin finish
Door frame / wall connection: Primed steel plate
Accessories: Stainless steel, satin finish
Door sills: Aluminium

Horizontal section of side wall with fitted operating panel. Luggage protection rails all round, Handrail bows.

Car 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
Two-button and group collective controls

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, blue
Display: Blue LED
Buttons: Stainless steel, satin finish, flush-mounted, arrangement to DIN EN 81-70
Call acceptance: Blue LED
Symbols: Plastic, light grey
Shaft door with Color Glas® Portal

Portal: Color Glas®
Glass frame: Stainless steel, satin finish

Shaft door with stainless steel portal

Portal: Stainless steel, satin finish
Glass portal P7-G

Portal: Full glazing laminated safety glass
Stainless steel, satin finish

Door: Glass door
Laminated safety glass
Stainless steel, satin finish

Door frame: Stainless steel, satin finish

Operating panel: Stainless steel, satin finish

Accessories
GP Glass Panorama
The planning

Schmitt + Sohn Elevators
The planning

Technical data and dimensions

Vertical section

Shaft ventilation to state building regulations (LBG) and EN81 1)

Options:
1) Reduced shaft head
2) Reduced shaft pit
3) Reduced shaft head at v = 1.0 m/s
4) Height of wall recess: HM = TH + 115 mm.
5) Shaft depth can be reduced by 120 mm by fitting the shaft doors in niches.
6) Shaft depth can be reduced by 240 mm by fitting the shaft doors in niches.
7) Doors opening on one side/centrally.
8) For CH = 2300 mm, SK + 100 mm.
9) CH = 2,200 mm for LD7 + LD8; CH = 2,300 mm for LD5X

We will be happy to assist you with the planning and tender.

Please give us a call.

<table>
<thead>
<tr>
<th>Capacity in kg and persons</th>
<th>Cab dimensions in mm</th>
<th>Door dimensions in mm</th>
<th>Shaft dimensions in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>kg</td>
<td>Persons</td>
<td>Width (KB)</td>
<td>Depth (KT)</td>
</tr>
<tr>
<td>450</td>
<td>6</td>
<td>1,000</td>
<td>1,250</td>
</tr>
<tr>
<td>630</td>
<td>8</td>
<td>1,100</td>
<td>1,400</td>
</tr>
<tr>
<td>675</td>
<td>9</td>
<td>1,200</td>
<td>1,400</td>
</tr>
<tr>
<td>1,000</td>
<td>13</td>
<td>1,100</td>
<td>2,100</td>
</tr>
<tr>
<td>1,600</td>
<td>21</td>
<td>1,400</td>
<td>2,400</td>
</tr>
</tbody>
</table>

1) Customers should note the Energy Saving Directive (EnEV)
2) 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
3) Reduced shaft head at v = 1.0 m/s:
   For CH 2,200 mm
   ≥ 3,000 to < 3,900 mm (Q ≤ 1,600 kg) technically possible with alternative measures.
   ≥ 2,800 to < 3,000 mm (Q ≤ 1,000 kg) in consultation and technical clarification with alternative measures possible.
   ≥ 2,700 to < 2,800 mm (Q ≤ 1,000 kg) CH 2,100 mm, CH 2,000 mm in consultation and technical clarification with alternative measures possible.
   For CH 2,300 mm on request.
   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
4) Height of wall recess: HM = TH + 115 mm.
5) Shaft depth can be reduced by 120 mm by fitting the shaft doors in niches.
6) Shaft depth can be reduced by 240 mm by fitting the shaft doors in niches.
7) Doors opening on one side/centrally.
8) For CH = 2300 mm, SK + 100 mm.
9) CH = 2,200 mm for LD7 + LD8; CH = 2,300 mm for LD5X

We will be happy to assist you with the planning and tender.

Please give us a call.
The planning

Quality and passenger comfort

GP Glass and Panorama Elevator
Type-approved lift system to EN 81

The drive:
- Convenient: Superior, frequency-regulated drives
- Energy-saving: High-efficiency drives
- Quiet: Noise pressure level below the requirements of the standard
- Safe: Stopping accuracy better than the standard

The controls:
- Passenger comfort: Float up and down with the Glass and Panorama Elevator
- Energy-saving mode: Automatic switching off of cab lights and displays after longer standstill.
- Stand-by mode: Staged running-down of controls and frequency regulation after longer standstill.
- LED technology: In operating and display panels
- Bus technology: Easy installation and maintenance

The cab:
- Large: Maximum shaft utilisation in new and existing shafts
- User-friendly: Fast orientation and easy operation
- Bright: Cab lighting with light frame
- Airy: Generous ventilation in the skirting and ceiling area
- Friendly: Materials, colours and surfaces
- Smooth: Horizontal and vertical acceleration with top values

The lift shaft:
- Maximum cab size: In new and existing systems
- Adaptable: Optional reduction of shaft pits and heads
- Lift shaft smoke extraction: heat loss reduction system via shaft ventilation, optionally with electrically controlled window, rooflight dome or ventilation hood.
- Special carrier cables, very smooth running

The doors:
- Convenient: Adjustable operating settings
- Safe: Light grid over the full door height
- Standby mode: Running-down of light grid after longer standstill
- Flexible: Center, Left- or right-opening. One-sided or opposite

Subject to technical amendment.

<table>
<thead>
<tr>
<th>Capacity in kg</th>
<th>Energy efficiency class (10)</th>
<th>In front of shaft doors</th>
<th>Noise pressure level in dB (A)</th>
<th>In the cab</th>
<th>In the shaft</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VDI Directive (11)</td>
<td>GP Elevator (12)</td>
<td>GP Elevator (12)</td>
<td>GP Elevator (12)</td>
<td>GP Elevator (12)</td>
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<tr>
<td>450</td>
<td>A</td>
<td>65</td>
<td>40</td>
<td>No specification</td>
<td>48</td>
</tr>
<tr>
<td>630/675</td>
<td>A</td>
<td>65</td>
<td>40</td>
<td>No specification</td>
<td>48</td>
</tr>
<tr>
<td>1,000</td>
<td>A</td>
<td>65</td>
<td>40</td>
<td>No specification</td>
<td>48</td>
</tr>
<tr>
<td>1,600</td>
<td>A</td>
<td>65</td>
<td>40</td>
<td>No specification</td>
<td>48</td>
</tr>
</tbody>
</table>

Capacity in kg | Brightness in Lux | Stopping accuracy in mm |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>1 m above cab floor</td>
<td>EN 81 (16)</td>
<td>GP Elevator (12)</td>
</tr>
<tr>
<td>450</td>
<td>min. 100</td>
<td>min. 200</td>
</tr>
<tr>
<td>630/675</td>
<td>min. 100</td>
<td>min. 200</td>
</tr>
<tr>
<td>1,000</td>
<td>min. 100</td>
<td>min. 200</td>
</tr>
<tr>
<td>1,600</td>
<td>min. 100</td>
<td>min. 200</td>
</tr>
</tbody>
</table>

Capacity in kg | Smoothness in milli-G (17) | Air volume determination in terms of air exchange rate in m³/h |
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>horizontal</td>
<td>vertical</td>
<td>DIN (18)</td>
</tr>
<tr>
<td>450</td>
<td>11 +/- 1</td>
<td>11,2 +/- 1</td>
</tr>
<tr>
<td>630/675</td>
<td>11 +/- 1</td>
<td>11,2 +/- 1</td>
</tr>
<tr>
<td>1,000</td>
<td>11 +/- 1</td>
<td>11,2 +/- 1</td>
</tr>
<tr>
<td>1,600</td>
<td>11 +/- 1</td>
<td>11,2 +/- 1</td>
</tr>
</tbody>
</table>

10) VDI 4707, Lifts, energy efficiency in usage category 1. In usage category 2, the Glass and Panorama Elevator complies with energy efficiency class A with optional measures. In usage category 2 and 3, the Glass and Panorama Elevator complies with energy efficiency class B.
11) VDI Directive 2566-2, noise protection for machine room-less lift systems. The observation of DIN 4109 on the basis of VDI Directive 2566 must be ensured by constructional noise protection. Constructional noise protection measures must be taken into account in the planning. Consultation on noise requirements is recommended.
12) The specified noise pressure levels refer to an elevator in a concrete shaft with a mass per unit area of m ≥ 490 kg/m² to Supplement 1 of DIN 4109.
13) The VDI Directive 2566 specifies no reference value here. The noise pressure levels specify only the degree of comfort for the user.
14) DIN EN 81-20, Safety regulations for the construction and installation of lifts. Requirement: Minimum lighting intensity 1 m above cab floor and the controls: 100 Lux.
15) Further maximum values up to 350 Lux are possible, depending on the selected lighting and equipment.
16) EN 81-20. Adjustment accuracy: At level differences ≥ 20 mm when loading and unloading, the lift is adjusted and must regain the prescribed stopping accuracy.
17) ISO 18738, Lifts - Measurement of passenger comfort of lifts, describes the measurement procedure.
18) DIN 1946 Part 1 and 2 - Cab volume x 5.
The planning

Cab systems

**450/6**
450 kg Capacity  6 Persons

**630/8**
630 kg Capacity  8 Persons

**1000/13**
1,000 kg Capacity  13 Persons

**1600/21**
1,600 kg Capacity  21 Persons

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<table>
<thead>
<tr>
<th>TH</th>
<th>KH</th>
<th>KB</th>
<th>KT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door height</td>
<td>Cab height</td>
<td>Cab width</td>
<td>Cab depth</td>
</tr>
</tbody>
</table>

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GP  Glas Panorama Aufzug

SCHMITT + SOHN ELEVATORS

450/6 450 kg Capacity  6 Persons

630/8 630 kg Capacity  8 Persons

1000/13 1,000 kg Capacity  13 Persons

1600/21 1,600 kg Capacity  21 Persons
Hoistway frames systems

Aluminium façade profile

Glazing between the profiles

Glass fixing, point fixing

Vertical section
Aluminium façade profile

Glazing between the profiles

Glass fixing, point fixing

Horizontal section

Horizontal section

Horizontal section
The planning

The Glass and Panorama Elevator complies with the highest energy efficiency class A

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

The energy consumption of a lift 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 lift. The stopped consumption of lifts in residential buildings alone makes up about 70% of the total energy consumption of the lifts.

The power consumption is determined primarily by the system components and their energy efficiency. For lifts which are mostly in standby operation, the energy consumption can be reduced by modern controls by up to 50%.

For cable lifts 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 lift groups optimised, depending on the level of traffic.

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

Energy-saving potential in movement consumption

The power consumption of lifts 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 an Glass and Panorama Elevator with common drive types:

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

Energy-saving in standstill consumption

The power consumption of lifts 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 Glass and Panorama Elevator:

- 32% Energy-saving potential through the use of efficient lighting and switching off the cab lighting when the lift is at a standstill.
- 5% Energy-saving potential through the switching off of the door drive and light grid.
- 1% Energy-saving potential through the switching off of the cab stopping and direction displays.
- 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.

Three steps to the energy-efficient lift

The planning of serviceable and capable lift 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 Glass and Panorama 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.
GP Glass Panorama
The service
What counts.

Excellent service. Closeness to the customer. Quick reaction time. Reliability.

1+1

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

40.000

Schmitt + Sohn maintains lift 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.

479

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

106

Service managers are responsible for the customer, the service technicians and the lift systems.

13015

DIN standard quality. The standard for qualified servicing of lift systems.

572

Personnel 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.

32

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

547

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 lift 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 lift 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, lift attendant and building control technology module, online care all round the clock.
In every one of our 32 European branches, you will find competent contact partners, who will be able to assist you on all subjects relating to lifts.
The company Schmitt + Sohn Elevators has been awarded internationally renowned design prizes for its corporate design, the company presentation, its lift systems and lift series.

- iF product design award 1997, Schmitt + Sohn Lift Systems
- iF product design award 2008, Schmitt + Sohn Color Glas® Lifts
- 2009 Design Prize of the Federal Republic of Germany, nomination, Schmitt + Sohn Color Glas® Lifts
- 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
- Iconic Award 2014 für Schmitt + Sohn Produktbroschüren
- Iconic Award 2014 für Schmitt + Sohn Produktion
- Iconic Award 2014 für Schmitt + Sohn Forum Produktt
- German Design Award 2015, Special Mention for Schmitt + Sohn Corporate Design
- German Design Award 2015, Special Mention for Schmitt + Sohn Color Glas® Aufzug

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