



SCHMITT+SOHN ELEVADORES

OSH and Lifts

Miguel Leichsenring-Franco | 2024

SHOTEN SHOW THE SHOW





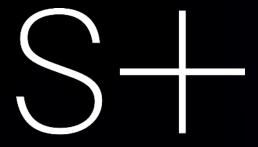
SCHMITT+SOHN ELEVADORES

Agenda

- 1. Our company
- 2. Context
- 3. Risks
- 4. Process | Preventive measures

SACTAVA IS INDOSTITIVADO





SCHMITT+SOHN ELEVADORES

1. Our company

5+

1861

Foundation of the company

Tradition in lift construction and service

2.100

Systems annual production Production in our own works.

24

-hour in-call readiness 365 days per year Always there for you. 6

Generations of experience

The family run company as a constant

100.000

Lift systems build Our references.

50.000

Equipments under maintenance
Competence you can rely on.

18

Companies

Decentralised and close to you.

9001

Standard quality

Improving. Developing. Looking ahead.

220

Million Euros turnover Ultimately convincing

4

Countries in Europe

We are at home in: Germany, Portugal, Austria, Czech Republic.

1.900

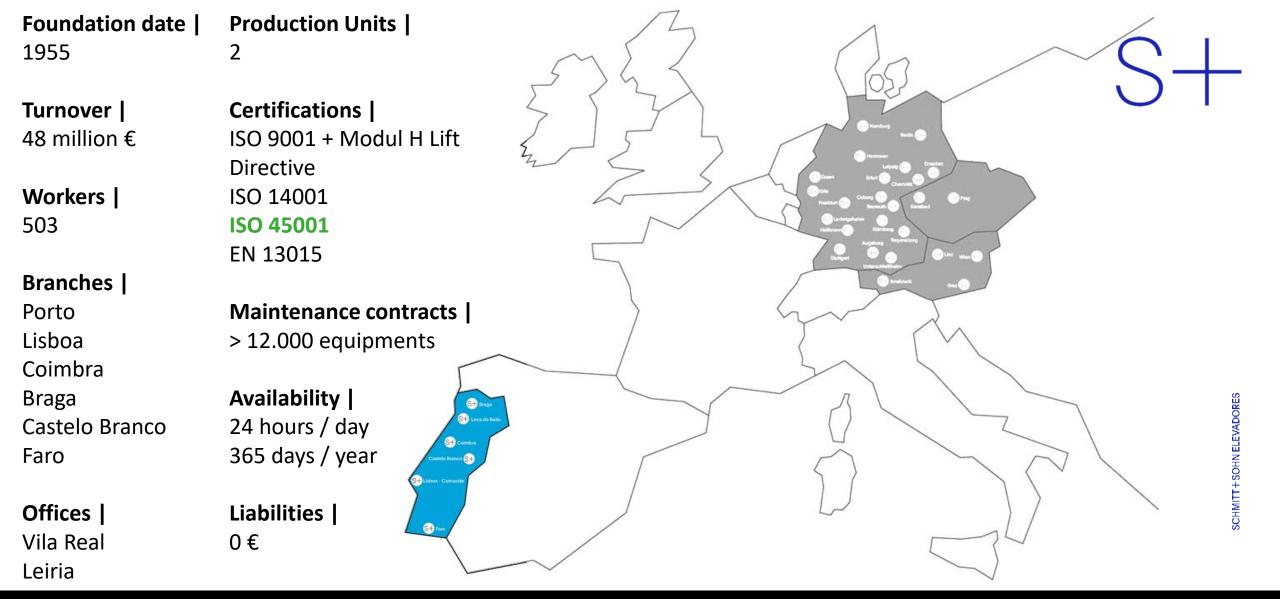
Employees

Success has many faces.

0

Bank liabilities

Independence for strong partnerships.



1. OUR COMPANY



PRODUCTS AND SERVICES

5+

CHMITT+SOHN ELEVA



ELEVATORS

Passenger Elevators

Bed elevators

Freight Elevators

MODERNIZATION

Drive

Cabin

Doors

Controller

Energy efficiency

Safety

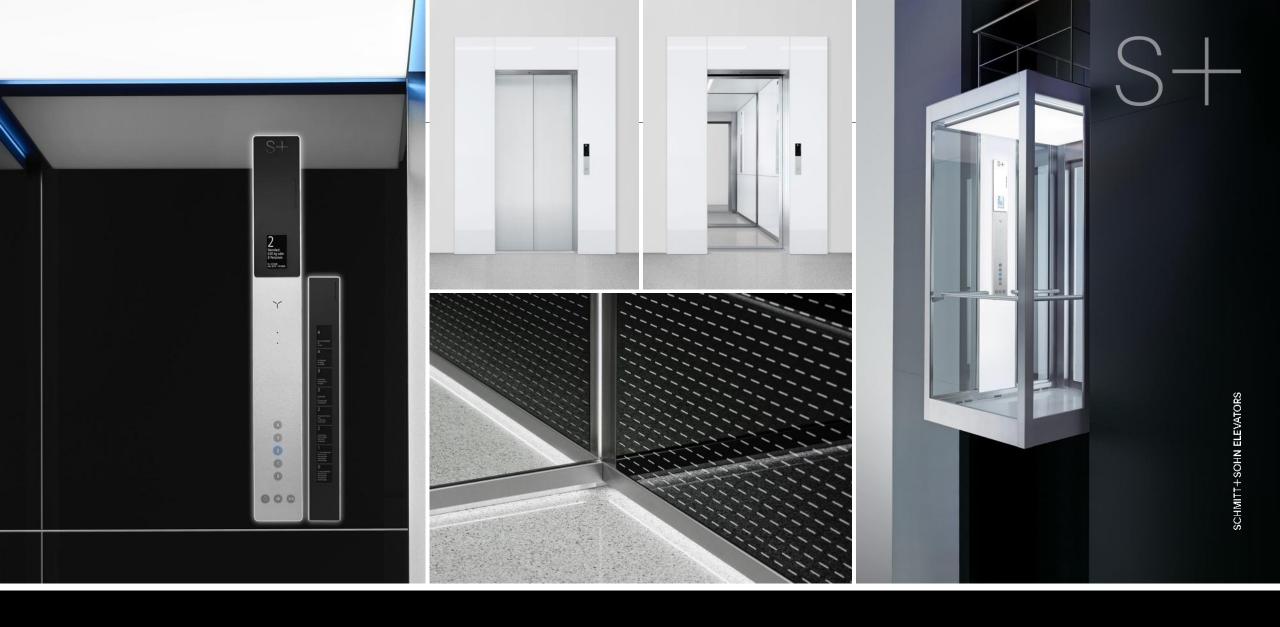
Comfort

SERVICE

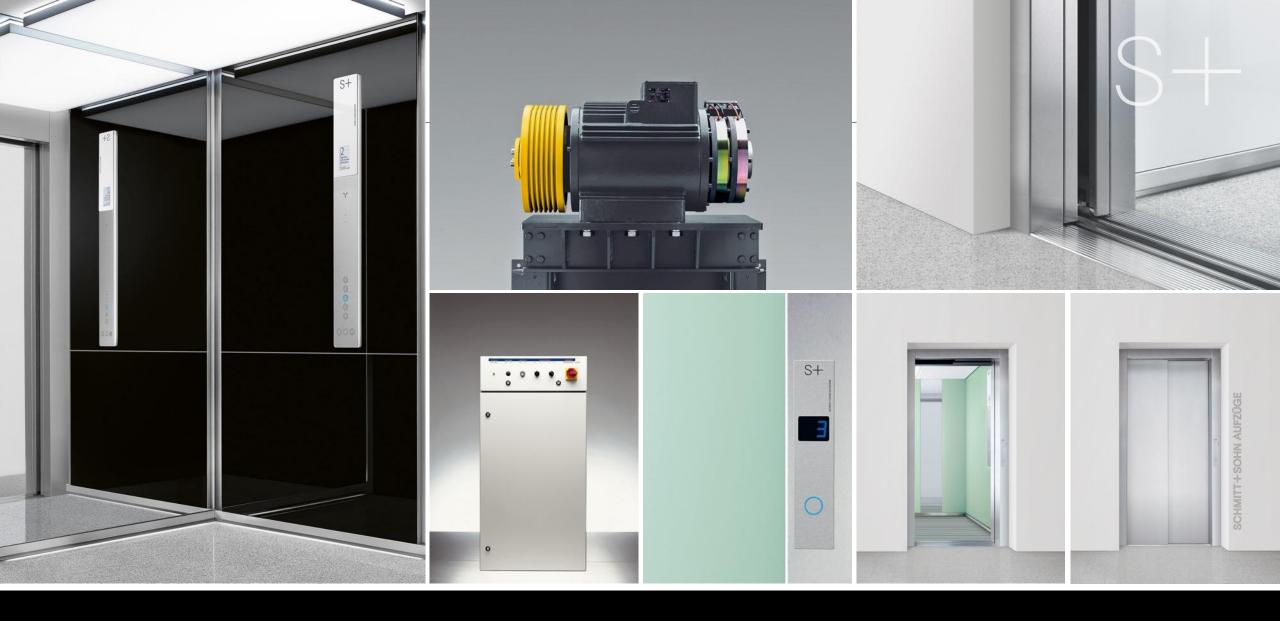
Service contracts

Service quality

Support



PRODUCTS AND SERVICES



PRODUCTS AND SERVICES



PRODUCTS AND SERVICES

SCHMITT+SOHN ELEVATORS

REFERENCES

SHOUNTER SOUND BY BY BY BY

S+

LIVING



Condomínio do Parque | RAR Imobiliária Elevators: 16



Prata Riverside Village | Vic Properties Elevators: 65



Reserva | Quinta do Lago Elevators: 26



Liberdade 203 | Avenue Elevators: 7

HEALTH



Hospital da Luz Guimarães Elevators: 6



Grupo Trofa Saúde | Várias unidades Elevators and Escalators: 74



Centro Hospitalar e Universitário São João Elevators: 54



Hospital CUF Viseu Elevators: 7



Centro Hospitalar e Universitário Santo António Elevators: 61

CHMITT + SOHN EI EVADOBES

SH

OFFICES



Lagoas Park | Oeiras Elevators: 65



Porto Office Park | Porto Elevators: 14



ALTICE Portugal Elevators: 112



Edifício MARCONI | Lisboa Elevators: 9

S+



TRADE AND SERVICE

Grupo Jerónimo Martins Elevators, escalators and autowalks: 242



IKEA | Braga Elevators: 4



Sonae MC Elevators, escalators and autowalks: 66



ALDI Portugal Elevators and autowalks: 7

S+



TRADE AND SERVICE

Nova School of Business & Economics | Oeiras Elevators: 12



Universidade Católica Portuguesa | Porto Elevators: 15



Campo Pequeno | Lisboa Elevators, escalators and autowalks: 33



Shopping Cidade do Porto | Porto Elevators and escalators: 18

SHOUNTE SOUND BY BY BY

S+

TOURISM



World of Wine | Vila Nova de Gaia Elevators: 24



Hotel da Música e Mercado Bom Sucesso | Porto Elevators: 10



Yeatman Hotel | Vila Nova de Gaia Elevators: 17



Palácio Verride Santa Catarina | Lisboa Elevators: 4

HMITT + SOHN ELEVADOBES

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TOURISM



Vila Vita Parc | Armação de Pêra Elevators: 17



Ivens Autograph Collection | Lisboa Elevators: 5



Wyndham Grand Algarve | Almancil Elevators: 13



Monumental Palace Hotel | Porto Elevators: 3

SCHMITTE COUNTY DYAPOBES

S+

CULTURE



Museu do Oriente | Lisboa Elevators: 6



Palácio Nacional da Ajuda | Lisboa Elevators: 7



Centro Internacional José de Guimarães | Guimarães Elevators: 5



Theatro Circo | Braga Elevators: 5

S+





Barragem do Alqueva | Moura Elevators: 5



Super Bock Group | Matosinhos Elevators: 10



Continental | Lousado Elevators: 5



Bosch | Braga & Ovar Elevators: 33

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TRANSPORTATION









Infraestruturas de Portugal Elevators, escalators and autowalks: 463

SECOND ENDORSE

S+

TRANSPORTATION













Metropolitano de Lisboa Elevators, escalators and autowalks : 385

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2. Context

CHMITT+SOHN ELEVATORS

SCHMITT+SOHNELEVADORE

Our process



SALES



Suport to arquitechts and project engineers

- + Installation studies
- + Traffic studies
- + Preliminary projects
- + Lift projects

New lift sales





2. CONTEXT



ENGINEERING

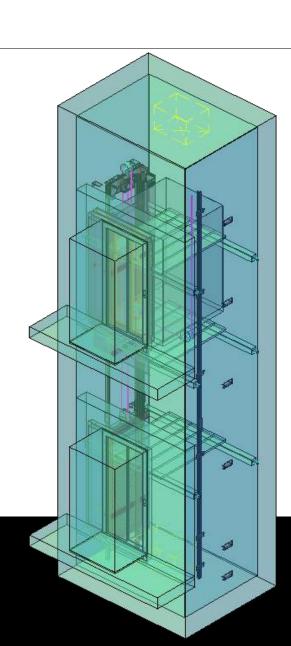


Major milestones

Order confirmation

Conversion of customer requirements into product specifications

- + Installation project
- + Selection of the best technical solution
- Development of technical drawings + BOM + files necessary for production



Our process





Conversion of technical specifications into functional groups

confirmation

- Traction systems
- + Cars
- + Car and floor doors









- Electronic control
- + Shaft equipment

2. CONTEXT

Our process





Functional group assembly in the building

- + Assembling
- + Testing and final checks
- Conformity assessment by
 Notified Body for Lift Directive



2. CONTEXT

Our process





Multi-brand maintenance

- + Preventive maintenance
- Corrective maintenance
- Modernizations
- + 24-hours service





+ Audit and consultancy services

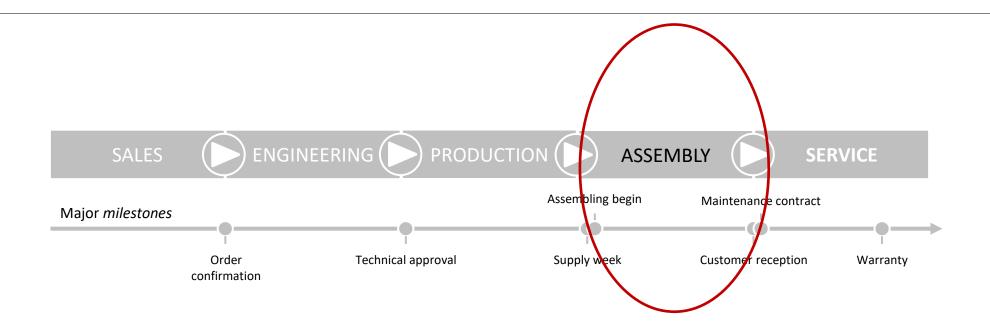
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3. Risks

CHMITT+SOHN ELEVATOR



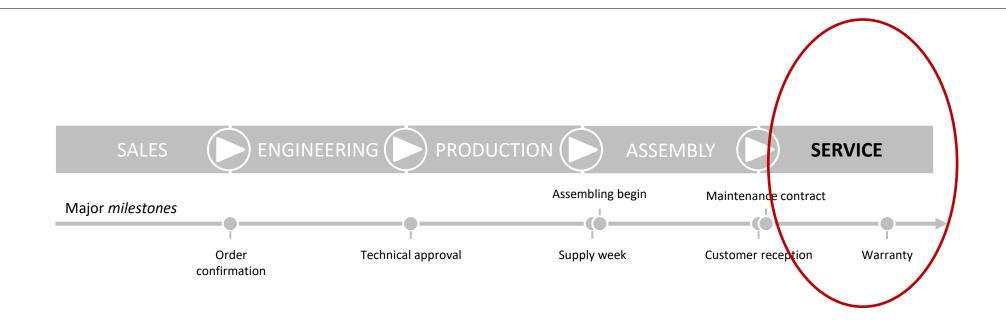
ASSEMBLY

ACTIVITIES

- Transportation and unloading the truck.
- Working inside the elevator shaft (height).
- Assembling guide rails, doors, cabin, traction system, control, etc.
- Coordination with other activities on site.

RISKS

- Risk of falling.
- Risk of falling objects.
- Risk of musculoskeletal injuries.
- Risk of cut.
- Risk of crushing / trapping.
- Risk of exposure to Sharp objects.
- Risk of exposure to electricity / electrocution.





5+

5

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4. Process

CHMITT+SOHN ELEVATOR

Solutions





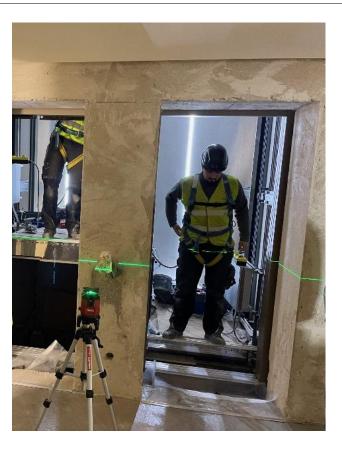




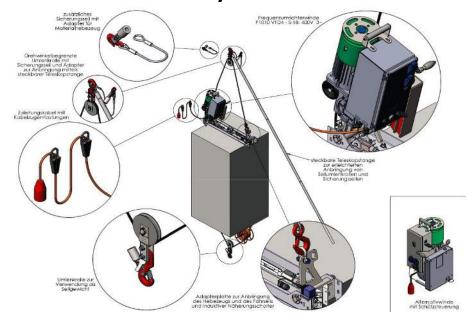
- Harmonized European Norms → Standardization | Risk assessment and mitigation
 - EN 81-20:2020 Safety rules for the construction and installation of lifts Lifts for the transport of persons and goods
 - EN81-xx:yyyy Safety rules for the construction and installation of lifts
- ISO 45001:2018 Occupational health and safety management system Integrated with:
 - ISO 9001:2015 Quality management system
 - ISO 14001:2015 Environmental management system
- Daily Kaizen (Continuous improvement)
 - Daily Management (Team boards and meetings)
 - Standardisation (5S, Standard work, Gemba walks)
 - Training and coaching (Job instruction)
 - Advanced problem solving
- Qualifying, training and auditing

Solutions





- Compliance with Portuguese laws and requirements
- Standardized assembly methods: without scaffolding





Schindler's R.I.S.E. Robotic Installation System for Elevators

• Packaging concept: ergonomic | according to the assembly method





Solutions





- Standardized service methods
- Compliance with Portuguese laws and requirements
 - Decreto-Lei nº 320/2002
 - Lei nº 65/2013
- EN 13015:2001+A1:2008 | European Norm: Maintenance for lifts and escalators Rules for maintenance instructions

