



NEXT LEVEL  
NEW INSTALLATION

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thyssenkrupp Elevator

**ThyssenKrupp**





WELCOME TO  
NEXT LEVEL

Next Level is our promise to deliver perfect solutions – based on your specific requirements and with the key aim of taking you one step ahead with us, whether it's in cost-efficiency, performance, reliability, sustainability or design.

It doesn't matter if you're looking for the optimal elevator system for a new building, want to update your existing system (regardless of the manufacturer), or you would simply like to be able to place your trust in a service partner, everywhere and at all times, we can offer you solutions that far exceed industry standards. We invite you to hold us to our promise and achieve the next level with us.

Build on true quality.  
Made by thyssenkrupp.

## OUR STANDARDS

### DIVERSITY IN EXPERTISE

While many can deliver quality, very few can deliver quality combined with diversity. Whether it's elevators, escalators, moving walks, passenger boarding bridges or stair lifts, thyssenkrupp Elevator can offer you comprehensive solutions that boast efficiency, intelligence and an innovative spirit.

### FOCUS ON PEOPLE

We're not only product specialists, but also specialise in providing our customers with highly tailored, seamless advice. From planning to maintenance, we can offer you quick, reliable, personal and comprehensive support.

### FASCINATION OF PROGRESS

Our products feature numerous innovative technologies that save a great deal of energy, without compromising on comfort or performance. Day after day, we continue to further develop our portfolio and optimise it in line with the latest findings and standards – for a future that's even more energy-efficient and worth living.





# Exceeding expectations: our new, highly efficient systems.

Our product portfolio is just as diverse as the buildings in which our systems are used.

Innovative ideas, efficient and high-performance technologies, international experience and trendsetting design ensure that we're able to provide you with the ideal solutions regardless of the type of building – and, of course, always perfectly tailored to your specific requirements. Take a closer look at our products.

01



**INNOVATIONS** | PAGE 06–13  
Mobility solutions which revolutionise our industry.

02



**ELEVATORS** | PAGE 14–24  
Intelligent solutions which are setting benchmarks in terms of performance and sustainability.

03



**E.COR** | PAGE 25  
The next generation of elevator control.

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**ESCALATORS** | PAGE 26–27  
Escalator systems which boast maximum availability and dependability.

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**MOVING WALKS** | PAGE 28–29  
Moving walk systems which boast maximum safety and optimal energy efficiency.

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**PROJECT MANAGEMENT** | PAGE 30–31  
Competent project management which achieves the planned success without detours.

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**SERVICING AND MODERNISATION** | PAGE 32–33  
Comprehensive support which aims to maintain the value of your system.

08



**SUSTAINABILITY AND SAFETY** | PAGE 34–35  
Responsibility which we're happy to assume.

With our innovations, we're changing the elevator industry around the world.

TECHNOLOGICALLY AND VISUALLY ALWAYS ONE STEP AHEAD

How do you become the world's leading manufacturer of mobility solutions? And how do you maintain this position for decades? The answer is simple: with innovations which revolutionise the elevator industry.



Velino  
escalator

Elevator  
test tower

NEXT LEVEL  
INNOVATION

MULTI  
elevator system

ACCEL  
moving walk

MAX  
maintenance solution



# Higher and higher. And faster and faster.

## TEST TOWER

- 246-METRE RESEARCH AND DEVELOPMENT TOWER
- FASTER DEVELOPMENT OF NEW ELEVATOR SOLUTIONS
- DESIGNED BY HELMUT JAHN AND WERNER SOBEK

In 2014, we laid the foundation for the development of new elevator solutions in the form of the test tower, which is unique around the world. The 246-metre structure has been designed to test and certify high-speed elevators.

With nine test shafts and speeds of up to 18m/s, the tower offers brand-new opportunities for solving future challenges and therefore represents a cutting-edge innovation hub for elevator technology.



### HEAT MANAGEMENT

The heat generated by devices is stored in an air cell and, from there, fed by heat exchangers back into rooms that require heating.

### ENERGY RECOVERY

In certain loading conditions, the installed traction elevators operate in generator mode and can generate electricity when in motion.

### VIEWING PLATFORM

At 232 metres, Germany's highest public viewing platform offers visitors a 360 degree view as far as the Swabian Jura and, when conditions are ideal, as far as the Swiss Alps.

### ELEVATOR SHAFTS

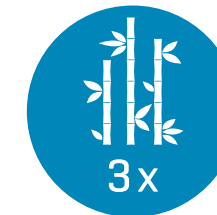
In a total of nine test shafts, elevator solutions with top speeds of up to 18m/s can be tested and certified here.

### DEFLECTION

A tuned mass damper is installed to minimise tower deflection caused by wind. The mass damper has made it possible to reduce the original tower movements from up to 76 centimetres in all directions to below 15 centimetres.

But it's the system's secondary function that's so groundbreaking: thanks to the active pendulum, the thyssenkrupp Elevator design engineers can test elevator systems in realistic conditions.

An intelligent mechanism was thus developed to artificially reproduce realistic oscillations – even when there's no wind.



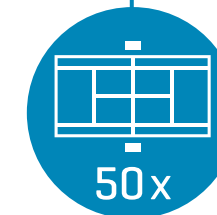
### CONSTRUCTION AT AN IMPRESSIVE SPEED.

At 3.6 metres a day, the tower is growing three times as fast as a bamboo plant in ideal conditions.



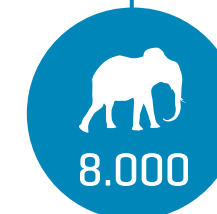
### A PROJECT WITH DEPTH.

By the end of the project, 30,000m<sup>3</sup> of excavated material will have been moved, which is equivalent to the weight of 60 million filled water bottles.



### BIG IDEAS NEED PLENTY OF SPACE.

Measuring 10,000m<sup>2</sup>, the plot could hold around 50 tennis courts.



### IMPRESSIVE HEAVYWEIGHT.

Once it's finished, the tower will weigh 40,000 tonnes, which is equivalent to around 8,000 African elephants.



### HIGHER THAN ALL THE OTHERS.

At 232 metres, Germany's highest public visitor platform is more than 80 metres higher than the top of the Stuttgart TV tower and offers a spectacular panoramic view.



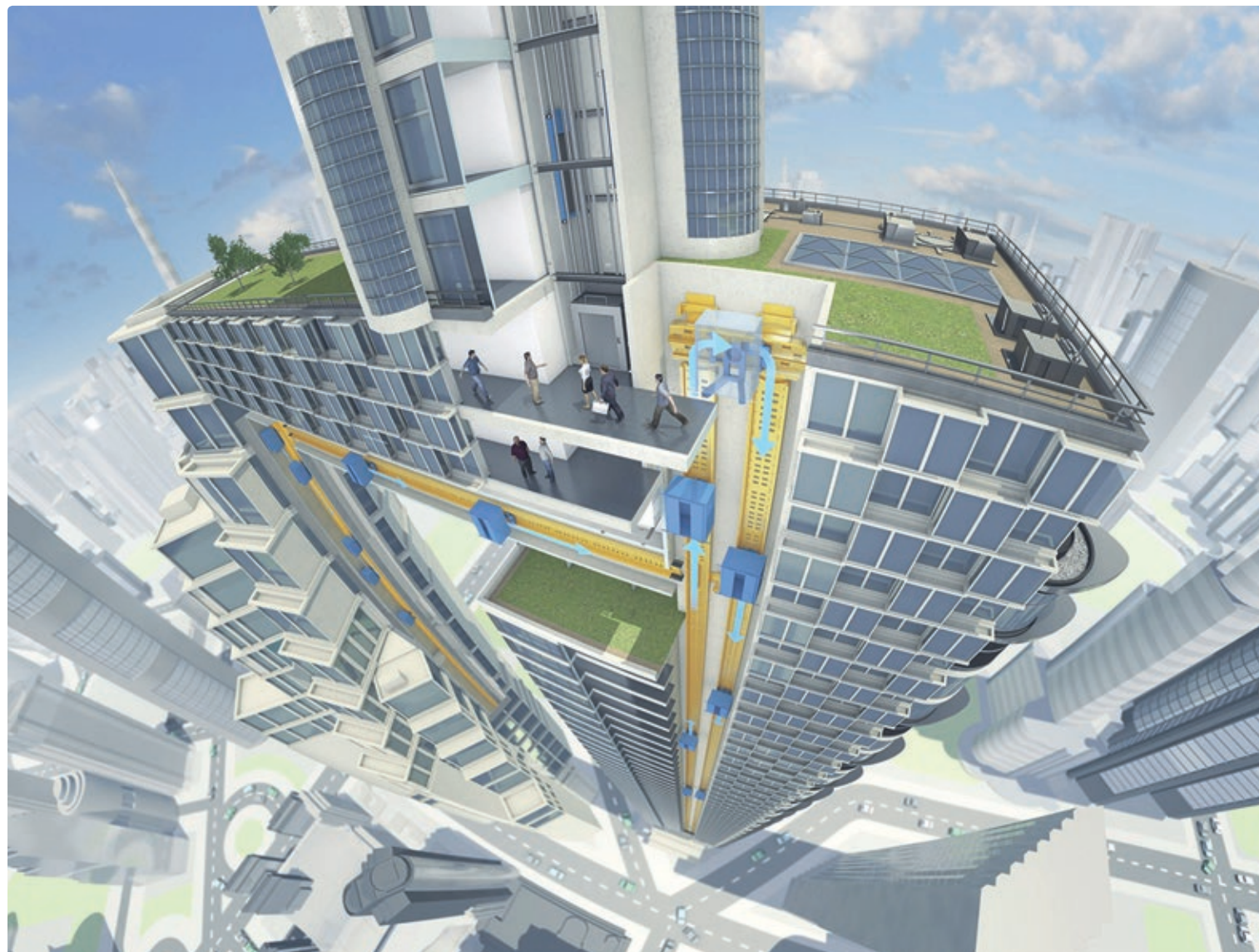
## Trendsetting. For the entire industry.

### MULTI®

- HORIZONTALLY AND VERTICALLY MOVING ELEVATOR
- COMPLETION OF A PROTOTYPE: 2019
- +30% TRANSPORT CAPACITY
- INITIAL TEST IN THE RESEARCH AND DEVELOPMENT TOWER IN EARLY 2017

MULTI® is ringing in a new era of elevator technology and revolutionising building construction all over the world. With the possibility of vertical and horizontal transport technology, architects can be more creative and design buildings to be higher and more user-friendly.

This will lead to a whole new level of efficiency: numerous cabins in a single shaft mean passengers never have to wait more than 15 to 30 seconds for an elevator. Less space is required, transport capacity is increased significantly, and a great deal of energy is saved.



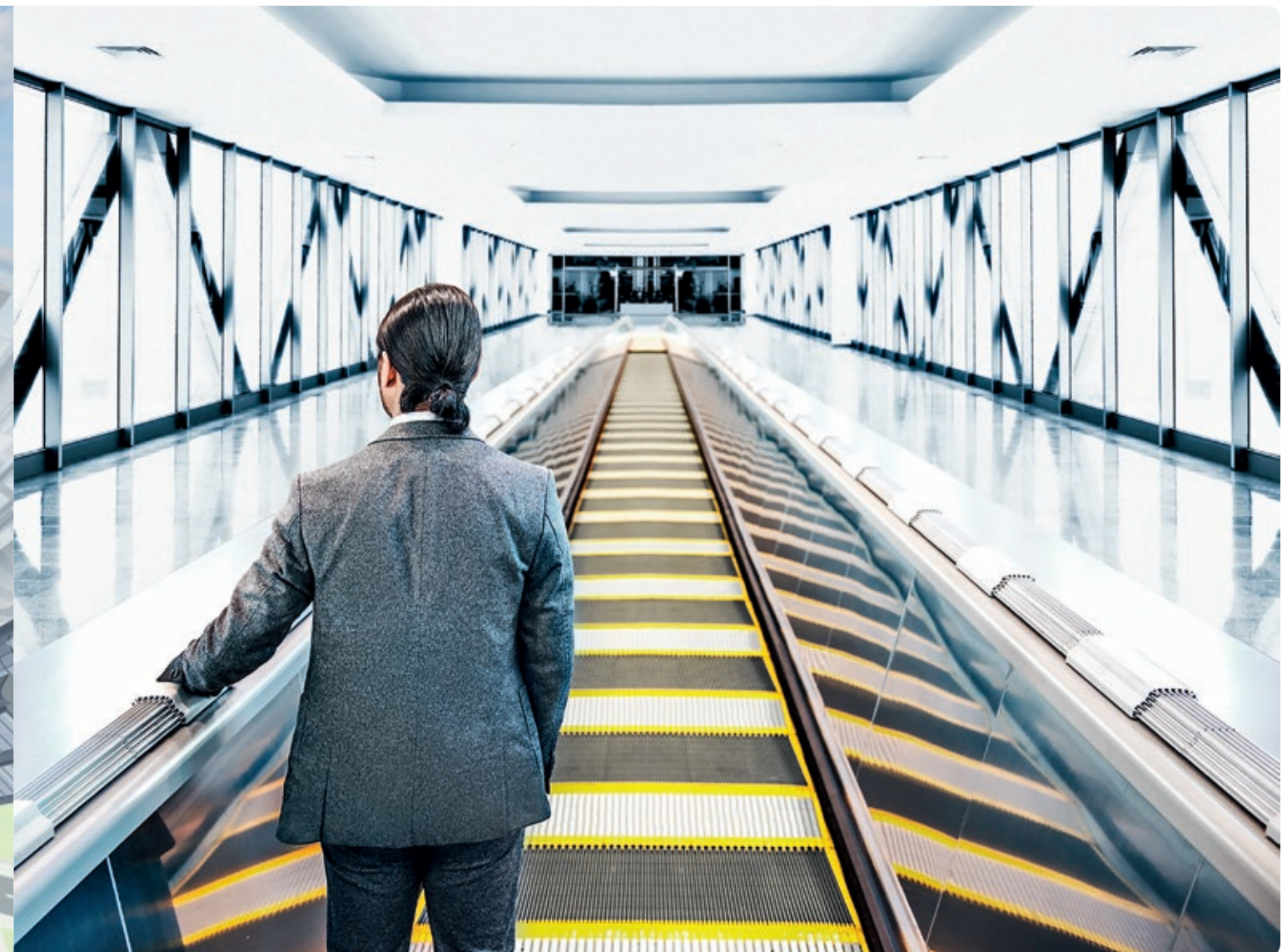
## Fast and safe. Regardless of the destination.

### ACCEL®

- SPEED UP TO 2 M/S
- UNIQUE OVERLAPPING PALLET CONCEPT
- MUCH SHORTER WAITING TIMES

Longer, faster, more efficient – the ACCEL® transport solution has managed to increase urban mobility to a new level. With a total length of up to 1,500 metres and top speeds of 3,3 m/s, up to 30% more passengers can be transported than with conventional moving walks.

That's equivalent to 7,300 people in just an hour of constant use. Particularly in high-traffic areas such as metro stations, railway stations and airports, this prevents long waiting times and increases convenience significantly.







## Predictive. Next-generation service.

### MAX\*

- MAXIMUM AVAILABILITY AND RELIABILITY THANKS TO IOT
- LONGER SERVICE LIFE
- HIGHER EFFICIENCY IN BUILDINGS AND TRANSPORT STRUCTURES

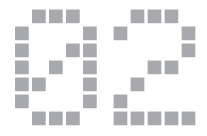
Thanks to MAX, both elevator operators and passengers benefit from greater reliability and save time. That's because MAX, the cloud-based predictive maintenance solution, identifies maintenance issues before they even occur.

MAX uses Microsoft Azure IoT services to collect data from the networked elevators in real time and, based on algorithms, calculates the remaining service life of key systems and components. Information such as operating speed, capacity and door mechanisms is transmitted via the cloud, so that service technicians can maintain an overview of the current situation of the elevator at all times.

MAX facilitates predictive, efficient maintenance on behalf of thyssenkrupp technicians and engineers. Building owners are informed in advance, allowing them to have systems and components repaired or replaced early on. This in turn makes it easier to plan maintenance work and reduces elevator downtime by up to 50%. For passengers, that means less stress, greater convenience and more time for what's important.

\*MAX is currently not available in the UK & Ireland.





Our new systems are second to none,  
from the whole package down to the  
smallest detail.



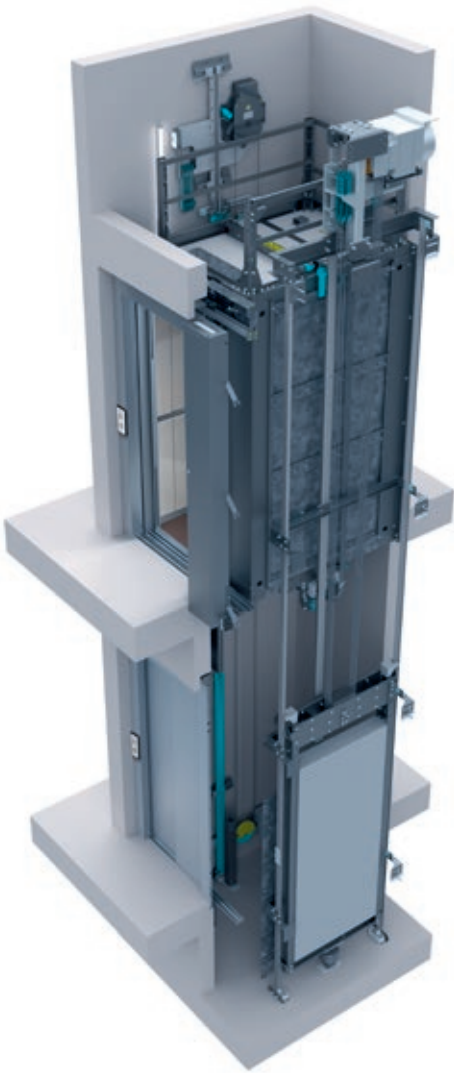




Functional.  
Efficient.

**SYNERGY  
ELEMENT**

- COMPACT, FUNCTIONAL DESIGN
- MODERN SYNCHRONOUS GEARLESS DRIVE
- HIGH-QUALITY MATERIALS



**SIMPLE AND FUNCTIONAL.**  
synergy element is the thyssenkrupp ideal solution designed for residential buildings with functional elevator needs.  
  
Featuring a pure, timeless design, optimised manufacturing process and efficient installation, the element package is our most competitive price-performance option.

Max. travel height m:	15
Load kg:	450, 630
Max. number of stops:	6
Speed m/s:	1.0
Machine room:	without
Cabin dimensions:	fixed
Application:	

LEGEND

- |                      |          |         |                    |            |                 |
|----------------------|----------|---------|--------------------|------------|-----------------|
| Residential building | Hotel    | Event   | High-rise building | Hospital   | Public building |
| Office building      | Shopping | Airport | Express elevators  | Production | Transport       |





# Flexibility with outstanding performance.

## SYNERGY ESSENCE & EXCELLENCE

- MODERN SYNCHRONOUS GEARLESS DRIVE
- COMPACT: REDUCED HEADROOM AND PIT AVAILABLE\*
- INDIVIDUAL DESIGN OPTIONS

**EXCEPTIONAL ACROSS THE BOARD.**  
synergy is the thyssenkrupp solution for residential buildings suitable for commercial uses, that meets the highest demands in terms of space flexibility, design and performance.

Its proven technology and optimised layout helps you to cut costs and save energy, resulting in an intelligent elevator system that benefits everyone: passengers, building owners and our environment.

synergy features a cutting-edge decor concept that offers you enormous flexibility in cabin design. These are elevators that will meet the needs of your building and exceed passenger expectations in genuine style.



Max. travel height m:	45
Load kg:	320, 450, 630, 825, 1,000
Max. number of stops:	16
Speed m/s:	1.0/1.6/1.75
Machine room:	without
Cabin dimensions:	fixed
Application:	

LEGEND		Residential building		Hotel		Event		High-rise building		Hospital		Public building
		Office building		Shopping		Airport		Express elevators		Production		Transport

\*subject to approval of derogations and notified body.



Requires minimal space and provides efficient access to each destination.

SYNERGY®  
BLUE

- SIMPLE INTEGRATION THANKS TO FLEXIBLE CONSTRUCTION
- VARIED DESIGN
- ROBUST, FUTURE-PROOF COMPONENTS
- CABIN DESIGN WITH MORE VARIANTS AND MORE OPTIONS FOR A GREATER RANGE OF REQUIREMENTS



ATTRACTIVE AND ENERGY-EFFICIENT.

synergy® BLUE not only fulfils the highest design standards, but also minimises costs and energy consumption thanks to energy recovery.

With a shaft head that's up to 30% lower and a pit that's up to 70% smaller, the passenger elevator without machine room is suitable for new buildings and old buildings with limited space in particular.

Max. travel height m:	40/45
Load kg:	450, 630, 1,000
Max. number of stops:	16
Speed m/s:	1.0
Machine room:	without
Cabin dimensions:	fixed
Application:	

LEGEND

Residential building

Hotel

Event

High-rise building

Hospital

Public building

Office building

Shopping

Airport

Express elevators

Production

Transport

\*Model information in accordance with EN 81-20/50: the rated load for dual entrance is identical to the rated load for single entrance; travel height ≤ 40 m; available from 10/2016.

Carefree living.  
Just the way you want it.

EVOLUTION®  
BLUE

- CABIN DESIGN WITH MIX-AND-MATCH COMPONENTS
- INTELLIGENT TECHNOLOGIES THAT BENEFIT BOTH THE ENVIRONMENT AND THE BUDGET
- ADJUSTMENT DOWN TO THE MILLIMETRE FOR INSTALLATION IN YOUR SHAFT
- EXCEPTIONAL QUALITY AND HIGH COMFORT
- HIGH TRANSPORT CAPACITY
- MINIMAL ENERGY AND OPERATING COSTS



MULTIFACETED AND EFFICIENT.

EVOLUTION® BLUE is considered to be the next-generation elevator for all exceptional buildings and specific customer desires, thanks to the unique combination of excellent technology, premium design and very high sustainability.

This passenger elevator boasts fascinating details such as its easy-to-adapt bi-colour/bi-material design, intelligent control and its individually adjustable Comfortlight.

It also offers very quiet operation and can be adjusted down to the millimetre for installation in the existing shaft.

Max. travel height m:	100
Load kg:	320–4,000
Max. number of stops:	40
Speed m/s:	1.0/1.6/2.0/2.5
Machine room:	without
Cabin dimensions:	variable in increments of one millimetre
Application:	













The highest level of comfort from A to B.

VELINO

- DEPARTMENT STORE ESCALATOR WITH INDIVIDUAL BI-COLOUR DESIGNS AND LED LIGHTING
- INNOVATIVE ENERGY-SAVING AND ENERGY RECOVERY SYSTEMS
- EXCEPTIONALLY QUIET
- ECO STEP CHAIN WITH LUBRICATION

Travel height m:	0,95-15
Angle of inclination °:	30   35
Speed m/s:	0.2   0.4   0.5   0.65
Step width mm:	600   800   1,000
Transport capacity (people/h at a speed 0.5m/s)	3,600   4,800   6,000
Balustrade:	slim
Balustrade height mm:	1,000   1,100
Application:	



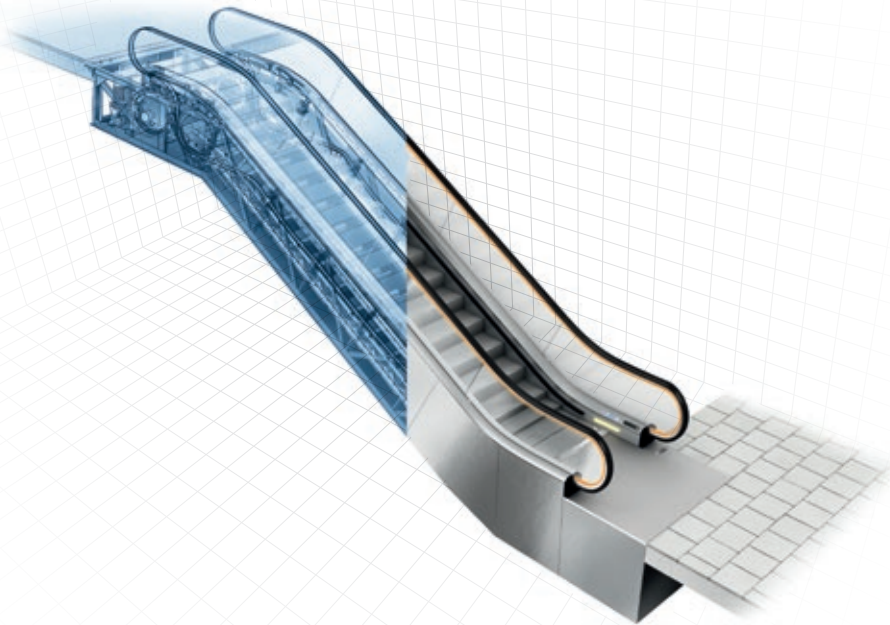
LEGEND	Residential building	Hotel	Event	High-rise building	Hospital	Public building
	Office building	Shopping	Airport	Express elevators	Production	Transport

Superior transport capacity. Regardless of weather.

TUGELA

- HEAVY DUTY ESCALATOR FOR HIGH TRAFFIC AREAS.
- WEATHER-RESISTANT MATERIALS
- INNOVATIVE COST AND ENERGY-SAVING SYSTEMS
- INTEGRATED SAFETY SENSORS

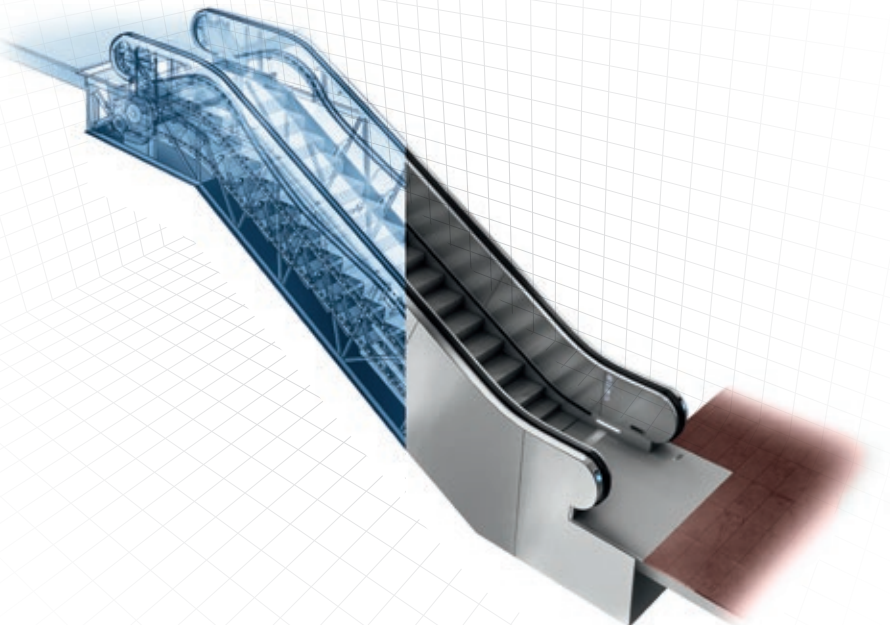
Travel height m:	1,8-22
Angle of inclination °:	27.3   30   35
Speed m/s:	0.2   0.4   0.5   0.65
Step width mm:	600   800   1,000
Transport capacity (people/h at a speed 0.5m/s)	4,400   5,900   7,300
Balustrade:	metal, robust
Balustrade height mm:	1,000   1,100
Application:	



VICTORIA

- EXTRA HEAVY DUTY HIGH PERFORMANCE ESCALATOR FOR MAXIMUM AVAILABILITY AND EXTREME TRAVEL HEIGHTS.
- ENERGY-SAVING SOLUTIONS
- COMPREHENSIVE SAFETY SYSTEM
- ROBUST WEATHER PACKAGES FOR HIGH DURABILITY

Travel height m:	2-75
Angle of inclination °:	27.3   30   35
Speed m/s:	0.2   0.4   0.5   0.65   0.75
Step width mm:	600   800   1,000
Transport capacity (people/h at a speed 0.5m/s)	4,900   6,600   8,200
Balustrade:	metal, robust
Balustrade height mm:	1,000   1,100
Application:	







More comfortable on the go.  
Faster access to destinations.

ORINOCO

- MOVING WALK FOR LONGER ROUTES
- INCLINED OR HORIZONTAL
- MAXIMUM AVAILABILITY
- ENERGY-SAVING, DURABLE AND QUIET

Travel height m:	0,9-9
Travel distance m:	5-280
Angle of inclination °:	0   6   10   12
Speed m/s:	0.2   0.4   0.5   0.65   0.75   0.9
Step width mm:	800   1,000   1,200   1,400   1,600
Transport capacity (people/h at a speed 0.5 m/s)	4,800   6,000   6,000   6,000   6,000
Balustrade:	metal, robust, slim
Balustrade height mm:	1,000   1,100
Application:	

IWALK®

- MODULAR MOVING WALK SYSTEM
- EASY TO INSTALL AND ADAPTABLE
- CAN BE INSTALLED SUBSEQUENTLY
- EFFICIENT THANKS TO ENERGY RECOVERY

Travel height m:	2,5-6
Travel distance m:	max. 100
Angle of inclination °:	0
Speed m/s:	0.2   0.4   0.5
Step width mm:	1,100   1,400
Transport capacity (people/h at a speed 0.5 m/s)	5,000   6,000
Balustrade:	robust, slim
Balustrade height mm:	1,000
Application:	

LEGEND											
	Residential building		Hotel		Event		High-rise building		Hospital		Public building
	Office building		Shopping		Airport		Express elevators		Production		Transport







We maintain an overview.  
And have an eye for detail.

## PLANNING AND PROJECT MANAGEMENT

- PROFESSIONAL, PERSONAL ADVICE IN ALL PHASES
- COMPREHENSIVE EXPERIENCE WITH LARGE PROJECTS
- SOUND INSTALLATION EXPERTISE

### PRECISE AND SERVICE-ORIENTED.

We see ourselves as a partner to our customers, so our project management is correspondingly solution-oriented, reliable and forward-looking. From advice with potential traffic calculation to installation and preventive servicing, there's an entire team of specialists responsible for each of our projects, available at all times to provide our customers with their bundled expertise. Our production facilities in Europe also ensure short distances and exceptionally fast delivery of spare parts. The sooner we get involved in a project, the more successful and seamless implementation is – and this applies to all our projects.



## LEED BREEAM

- CERTIFICATION SYSTEM FOR OPTIMAL BUILDING COMPARISON
- INCREASED WELL-BEING INSIDE THE BUILDING
- ENERGY-EFFICIENT AND SUSTAINABLE SYSTEMS

### CONVENIENT AND INTELLIGENT.

Eco-friendly solutions are required to fulfil the high sustainability requirements of international certification standards such as LEED and BREEAM.

We already offer our customers an extensive product portfolio of forward-looking innovations which allow us to significantly reduce energy consumption without compromising on performance, design or safety. They also increase well-being inside the building with great success: more than 350 buildings featuring ThyssenKrupp Elevator passenger transportation systems have been LEED-certified to date.

Innovative transport solutions  
that reach for the sky.



## HIGH-RISE

### OUTSTANDING AND INNOVATIVE.

We also offer optimal transport solutions for the world's tallest buildings, incorporating specific design requirements that reflect the building architecture and your very own style. Take for instance One World Trade Center, where thyssenkrupp installed 71 elevators and twelve escalators. At 453 tonnes, the elevator counterweights weigh more than twice the Statue of Liberty. High-rise projects are rarely comparable with average building developments. They not only demand a very high degree of flexibility and commitment, but often also sound knowledge of the local situation.

Our international high-rise project teams are therefore always managed by a local project manager, who carefully coordinates all the project stages with you and ensures that everything goes according to plan.





We give you the  
'more than satisfied' feeling.



## SERVICE

### TAILORED SERVICES, REGARDLESS OF MANUFACTURER.

We have a network of branches across the UK and Ireland delivering a world class service from a Global organisation, with the benefit of a local approach. Our International Technical Services team of highly skilled technicians specialise in third party equipment.

This enables our field engineers to maintain and repair all makes of elevators, including training and onsite support.

## MODERNISATION

### TAILORED SERVICES, REGARDLESS OF MANUFACTURER.

Even elevator systems get long in the tooth and, sooner or later, operators face the challenge of modernisation, whether it's about increasing transport capacity or convenience, reducing energy costs or adapting the design following building renovation.

But it's more than just that: with thyssenkrupp Elevator, you have a reliable partner to help you achieve and, as a rule, even exceed your aims without any detours along the way – as a 360 degree complete solution or step by step, as you see fit.





A great feeling.  
Every day anew.

## SUSTAINABILITY

- ONE CONTACT REPRESENTATIVE PER PROJECT AND CUSTOMER
- PROFESSIONAL ADVICE IN ALL PHASES
- PRECISE TIME MANAGEMENT
- SERVICE-ORIENTED PROCESSES

### RESPONSIBLE AND INNOVATIVE.

When it comes to designing our products, we focus on achieving the perfect balance – one that benefits you and the environment across the board. This is made possible, in part, by the high-quality materials we use, which tend to be up to 100% recyclable. The combination of cutting-edge components and technologies also facilitates an energy balance which is superior to that of conventional systems.

In addition to minimising operating and maintenance costs, our systems also help you to obtain valuable building certificates such as LEED and BREEAM. Make a statement and set new benchmarks in passenger transportation systems – for a great feeling every day. We would be happy to advise you on energy-efficiency audits provided by neutral organisations.

## SAFETY

- COMPLIANCE WITH CURRENT REGULATIONS
- REGULAR CHECKS AND TECHNOLOGY UPDATES
- HEALTH AND SAFETY

### SEAMLESS AND RELIABLE.

Safety is the top priority when it comes to elevators and escalators. Current safety regulations therefore need to be fulfilled at the very least, a task that requires expertise and responsibility.

