Elevator Technology **EVOLUTION** Low- to mid-rise elevator





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### engineering.

### tomorrow.

### together.

### Making cities better.

Half of the world's population now lives in cities. And urban populations are expected to grow by another 2.8 billion people by 2050.

To meet changing resident and business demands, cities need to adopt efficient urban planning and infrastructure development. They also need to create solutions for keeping people mobile in the midst of rapid growth.

As your urban mobility leader, thyssenkrupp Elevator is reshaping the elevator industry and transforming cities. We're constantly evolving, with new products like MULTI, the first rope-less and horizontally moving elevator and MAX, the industry's first cloud-based digitally enhanced maintenance solution.

To help customers and cities grow, we introduce evolution. It's a low- to mid-rise elevator that combines safe and reliable performance, energy-efficient features and a hassle-free installation.



MULTI: our award-winning multidirectional elevator

At thyssenkrupp Elevator, our aim is to make cities the best ever places to live: to move people safely, comfortably and efficiently, today and tomorrow.

We do this by intelligently applying existing technologies and developing next-generation solutions – working closely with you to advance an industry that moves more than 1 billion people per day, worldwide.



MAX: real-time predictive maintenance

# Content

Choose evolution.

You've got options and flexibility. We designed solutions for everyone.

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# Choose

# evolution.

### Don't buy more than you need.

You know the routine. You need an elevator for your low- to mid-rise building. But it seems like there are always limitations, compromises or added costs from unwanted features.

These could be speed and capacity limitations, or complex workarounds leading to additional construction, longer schedules and frustration.

With evolution, you'll choose a traction machine room-less (MRL) model based on travel, performance, features and cab options.

We help make your choice easy.



### evolution 100

This value-driven low-rise elevator includes all the essentials.



**Travel** Up to 100'-0"

Speed 200 fpm



**Max stops** 11



**Capacity** 2100 – 3500 lbs

### evolution 200

Our low- to mid-rise elevator travels farther, faster and has greater cab weight allowance.



**Travel** Up to 350'-0"

**Speed** 200 – 600 fpm



**Max stops** 35

**Capacity** 2100 – 5000 lbs

# You've got options

## and flexibility.

We've designed an MRL elevator for up to 35 stops that's not only competitive, it's better. Or if you prefer a model that covers buildings up to 11 stops, designed to give you what need - you're covered.

#### You don't have to sacrifice size for speed. You can have a 5000-pound capacity elevator and still go 600 feet per minute.

#### You get an extra safe elevator without paying extra.

Our auto-rescue feature, which prevents passengers from being trapped during a power outage, comes standard.

#### You get a controller that fits into an 8<sup>1</sup>/<sub>2</sub>-inch door jamb.

There's no need for a control closet, which means one less thing to build, unless your jurisdiction requires a machine room.

#### You don't have to waste space.

Using belts means our equipment uses a small hoisting machine and therefore requires less space.

#### You get a super quiet ride.

Our design makes it the industry's quietest, inside and out.

You get a hassle-free installation. No crane needed and everything fits into the hoistway.

#### You can gain LEED credits.

Material and Resources credits, that is. We have material transparency certifications, declarations plus a regenerative drive that saves energy.



 $\bigcirc$  The controller is located in the door jamb at the top landing unless your local jurisdiction requires a control closet.

## We designed solutions

### for everyone.

- masterpiece.

### high-quality features.

This elevator uses belts, not ropes. It's quiet and doesn't have jerky stops and starts. Belts are better. They weigh less than steel ropes, so the major components don't have to move as much weight, making them smaller and lighter.

- Shhh... this elevator car is super quiet, just 50 decibels — like a conversation at home after the kids are in bed.
- It's all about suspension and a finely-tuned electronic drive that gives you a smooth, smooth ride.

### Hey contractors...

#### You don't need to dedicate so much time to getting your elevators installed. And since time is money, you can put your checkbook away.

your schedule.

- How easy is that?
- fit in the hoistway

### Hey architects...

#### Stop stressing over elevator space. We've got you covered.

When we say machine room-less, we mean it. Literally everything fits into the hoistway. • It has belts, so major components like the machine and sheaves take up less space. You've got more room to design that

 Our elevator is supported from the guide rails — so no more overhead steel or beam pockets. Scratch that off your list. • The controller is built right into the door jamb. So don't worry about building that controller closet or machine room.

Your lobby design doesn't have to stop at the elevator door.

- evolution 200 has lots of design choices for your cabs.
- Each pre-engineered cab design meets ASME A17.1 code.
- If those don't work, our 200 model lets you choose custom finishes, even heavy ones. Design with granite, marble, glass, barn wood — you name it.
- If you just want a basic, functional and reliable elevator, you may find the evolution 100 stainless steel cabin is the right fit.

### Hey building owners...

### Just because it's for low- to mid-rise buildings does not mean you can't get some

You really get more for your money. These advantages are standard in both evolution 100 and 200.

- We've got the power. Our auto-rescue feature means tenants won't get stuck between floors in case of power failure.
- Regenerative drive captures unused energy produced by the elevator and feeds it back in your building grid. We'll throw that in, too.
- · MAX, our predictive maintenance solution, can lower your elevator downtime by up to 50 percent. Tenants will be thankful.

evolution has a simple design for a simple installation. So go ahead and accelerate

• Everything you need arrives at the job site in a single shipment, crates sequentially ordered. Even the electrical disconnects.

• It's an MRL. It truly is. All the components

- The controller is in the door jamb at the top landing.
- It's designed so you can install the roof early. We won't need to use your crane.
- · You don't need remote runs of wires from the elevator machine to the controller.
- · The elevator supports itself. No need for overhead support steel.

# This elevator is designed for you.

Count on safety, reliability, energy efficiency and strong performance.



### Machines

Our machines transport elevators up to 600 feet per minute with evolution 200, and 200 feet per minute with evolution 100. There's no machine room, so you have more leasable building space.



### Sheaves

The smaller sheaves in evolution have a tighter turning radius, allowing for a compact motor that takes up less overhead space.

Permanent magnet gearless system Improves ride quality while increasing energy efficiency

**3** Underslung design Helps evolution offer a smaller hoistway and reduced overhead space.





### 2 Rail-supported

evolution is supported by its rails rather than your building. That means your installation requires less coordination between trades.







### Belts

Belts have a longer life span than ropes. They also provide a quieter and smoother ride. Belts consist of twelve internal steel cords encased in FT1 rated polyurethane material, making the suspension means lighter than steel cables.





### Features and components that enhance performance, reliability, energy efficiency and safety.

### Controller

Fits into a tiny 8½-inch door jamb and is fully digital. This saves space and helps reduce elevator noise.

### Regenerative drive

Captures unused energy generated by the elevator and feeds it back into your building grid. It's more compact, faster to install, easier to maintain and replaces motor and brake contactors with SIL3 solid-state devices for a quieter and more reliable drive.

### Auto-rescue

In a power outage, passengers are automatically transported to the next available floor and doors open so they can get out.





### Universal door operator

Malfunctioning doors are the leading cause of elevator service calls. This new technology provides door reliability as well as quick and smooth door operation.





### Absolute positioning system

Precisely measures your elevator's speed and positioning. This promotes accurate floor stopping, so floors are level and passengers are safe.



evolution elevators

## Steel shell



### Steel shell wall design

Clean and modern flat cab interior designs convey quality. Our durable formed steel shell cab is available in a variety of powder coat options in evolution 200, or can be upgraded to stainless steel. In evolution 100, brushed stainless steel is the only available cabin finish (powder coat options are not available).

## Applied panel

Upgraded cab



### Steel shell wall with removable panel design

Mix beauty and practicality with this decorative and durable cab. The panel design is constructed with a high-quality steel shell and vertical raised panels made with a core of urea formaldehyde-free wood. Not available with evolution 100.

### **Finishes**





<sup>1</sup> Plastic laminates or powder coated wall finishes are not available for evolution 100 cabin walls, but select colors are available for entrances and hall doors.















<sup>2</sup> evolution 100 powder coat option for entrances and hall doors.

<sup>3</sup> Limited application. Contact your local representative for details.

### Cab accessory options



### Braille plates your sills to any other design component Option 3: Flush (inlaid) mount

LED lighting with six or nine lights (based on cab size.) Lights are mounted in your choice of powder coat <sup>1</sup> or stainless steel ceiling panels. Handrails Cylindrical  $1\frac{1}{2}$ " cylindrical handrail is a continuous metal form with ends turned toward the wall. Comes in stainless steel finish. **Option 1:** Resin braille plate Option 2: Surface mount

cast braille plate cast braille plate 1

Flat bar<sup>1</sup> Metal bar handrail is available in <sup>1</sup>/<sub>4</sub>" thickness and 2". 4" or 6" widths. Comes in stainless steel finish.

Ceilings

coat<sup>2</sup> or stainless steel finish.<sup>1</sup>

Metal pan downlight ceiling features

White translucent diffusers for LED lighting are available with ceiling frames in a powder

Suspended

Downlight

### **Fixtures**

### Traditional fixtures

#### Product details

000

- Faceplates in brushed or polished stainless steel\*
- Position indicator displays car location with matrix of red LED-illuminated dots (evolution 200)
- or blue LED-illuminated dots (evolution 100)



Illustrations vary based on configurations. <sup>1</sup> Not available on evolution 100. <sup>2</sup> Ceiling frame is only available in black power coat finish for evolution 100.

Aluminum

Nickel silver

Sills

inside the cab.

Our cab sill finishes allow you to match

Fixtures shown above are for representation only. Your project-specific application may vary. \* For evolution 100, the following are not available: Vandal resistant fixtures; polished stainless steel finishes on car or hall fixtures; red, green or blue push button illumination.

### Vandal-resistant fixtures\*

#### Product details

- Faceplates in brushed or polished stainless steel\*
- Extra level of protection in challenging environments
- Pry-resistant hall jamb symbols and buttons are mounted flush with the door frame



### **Door configurations**

### Door orientation options offer a range of benefits to accommodate different project needs.

#### **One-speed**

The most economical door offering, available with either right- or left-hand opening. (right-hand shown)

#### Two-speed\*

Wrap-around returns

This return features a hinged car

Cab wall-

Edge of platform

operating panel and separate

filler panel. Comes standard.

Provides a wider opening without compromising door cycling time. Two doors move in the same direction, one sliding faster than the other. Available with either right- or left-hand opening. (right-hand shown)

#### Center opening

Best for high-traffic buildings. Permits the quickest entry and exit, improving elevator service while giving an attractive, symmetrical appearance.

Column returns\*\*

with the column.

This return features a hinged car

filler panel and aligned vertically

Filler -

Cab wall-

Edge of platform

operating panel secured to the



### Front returns



Front returns include the car station, return panel, signal fixtures and head jamb. Images above represent return types in brushed stainless steel.

00000 -

Not available on evolution 100. \*\* Column returns only available on 4500 - 5000 lbs with a 4'-6" door, therefore not available on evolution 100.

### **Entrance options**

The entrance frame and door are supplied by thyssenkrupp Elevator. You'll choose from powder coats or metal finishes.

### Hoistway and door entrance finishes

Typically, the entrance frame would match the door selection, but nothing says you have to. Choose from any powder coat color or metal finish.



Powder coat finish T-style entrance frame in Blue Patina powder T-style entrance frame in Brushed coat. evolution 100 has limited color options. Stainless Steel.

Metal finish

### Hoistway entrance frame

Face of frame is a minimum of four inches. Decreases to three inches on controller landing.





See page 15 for evolution 100 limited color options



### Planning

#### evolution 100 numbers at a glance Speed Travel 100'-0" 200 fpm ഹ Capacity Technology 2100 – 3500 lbs Gearless traction Fit Туре Self supported Machine room-less Max stops Max openings 11 (front only) 11 22 (front and rear)

### evolution 200 numbers at a glance





You've got options and simplicity.
Planning is easy.

### evolution 100 Passenger elevators



evolution 1	.00 – passenger ele	evators	
Capacity (lbs)	Hoistway A x B	Front/ rear	Inside clear <sup>8</sup> C x D
2100 3, 13	7'-6" x 5'-9"	F	5'-9" x 4'-3%"
2500	8'-6" x 5'-9"	F	6'-9" x 4'-3%"
2500 5, 25	8'-6" x 6'-8¾"	F/R	6'-9" x 4'-3%"
3000 5	8'-6" x 6'-3"	F	6'-9" x 4'-9½"
3000 5, 25	8'-6" x 7'-2"	F/R	6'-9" x 4'-9½"
3500 5	8'-6" x 6'-11"	F	6'-9" x 5'-5½"
3500 5, 25	8'-6" x 7'-10"	F/R	6'-9" x 5'-5½"

Door type	Door width E
One-speed	3'-0"
One-speed	3'-6"

- Inside clear height: 7'-4" <sup>1, 2</sup>
- G Door clear height: 7'-0"
- S 8" safety beam (2" clear above) required capable of holding 7500 lbs 7
- O Minimum overhead: 12'-8" 6,7
- Pit depth: 5'-0" 9

All dimensions are based on a standard single hoistway in non-seismic zones. No oversized hoistway width is allowed.

Contact your local representative for various code or jurisdictional exceptions. Also contact them if same hand door configurations or other alterations are required.

See endnotes on page 29.

### evolution 200

Passenger elevators



evolution	evolution 200 – passenger elevators					
Capacity (lbs)	Hoistway <sup>4</sup> A x B	Front/ rear	Inside clear <sup>8</sup> C x D	Door type	Door width E	
2100 3, 13	7'-6" x 5'-9"	F	5'-8" x 4'-3%"	One-speed	3'-0"	
2500	8'-6" x 5'-9"	F	6'-8" x 4'-3³⁄%"	One-speed	3'-6"	
2500 5, 25	8'-6" x 6'-8¾"	F/R	6'-8" x 4'-3%"	One-speed	3'-6"	
3000 5	8'-6" x 6'-3"	F	6'-8" x 4'-9"	One-speed	3'-6"	
3000 5, 25	8'-6" x 7'-2"	F/R	6'-8" x 4'-9½"	One-speed	3'-6"	
3500 5	8'-6" x 6'-11"	F	6'-8" x 5'-5"	One-speed	3'-6"	
3500 5, 25	8'-6" x 7'-10"	F/R	6'-8" x 5'-5½"	One-speed	3'-6"	
4000 5	9'-6" x 6'-11"	F	7'-8" x 5'-5"	One-speed	3'-6"/4'-0"	
4000 5	9'-6" x 7'-10"	F/R	7'-8" x 5-5½"	One-speed	3'-6"/4'-0"	



One-speed side opening doors



- Inside clear height: 7'-4" <sup>1, 2</sup>
- G Door clear height: 7'-0" 10
- S 8" safety beam (2" clear above) required capable of holding 7500 lbs 7
- O Minimum overhead: 6, 7 **200 fpm:** 12'-8" **500 fpm:** 13'-11" 350 fpm: 13'-4" 600 fpm: 15'-0"
- P Minimum pit depth: 9, 12 200 fpm: 5'-0" 500 fpm: 6'-6" 350 fpm: 5'-6" 600 fpm: 7'-2"
- All dimensions are based on a standard single hoistway in non-seismic zones.

Contact your local representative for various code or jurisdictional exceptions. Also contact them if same hand door configurations or other alterations are required.

See endnotes on page 29.





evolution	n 200 – service e	elevators		
Capacity (Ibs)	Hoistway <sup>4, 11</sup> A x B	Front/ rear	Inside clear <sup>8</sup> C x D	
4500	7'-6" x 9'-6½"	F	5'-8" x 7'-9½"	
4500 <sup>25</sup>	7'-6" x 10'-8½"	F/R	5'-8" x 7'-10"	
5000	7'-6" x 10'-2"	F	5'-8" x 8'-5"	
5000 <sup>25</sup>	7'-6" x 11'-4"	F/R	5'-8" x 8'-5½"	
5000H	7'-6" x 10'-9"	F	5'-8" x 9'-0"	
5000H <sup>25</sup>	7'-6" x 11'-11"	F/R	5'-8" x 9'-0½"	

Contact your local representative for various code or jurisdictional exceptions. Also contact them if same hand door configurations or other alterations are required.

See endnotes on page 29.

### **Technical specifications**

Power characteristics	Low- or high-voltage power requirement is based on machine size, car capacity and number of belts. 480 volts, 3 phase, 60 hertz (high voltage) is used on six belt systems with speed of 200 fpm or greater and 3500-pound cars or greater, but high voltage may be required on some four belt systems if the larger machine is used. With a 3500-pound car or less, using four belts with speed of 200 fpm, the lower voltage option is available.
	Isolation transformer may be required on jobs with less than 480 VAC, 3 phase or if building supply is 575 VAC. Transformer must be located within 125 feet of controller. Transformer installed by thyssenkrupp Elevator but wiring installed by others.
Brakes	Dual braking system (main and emergency)
Solid state brake controls	Contactor-less components for emergency and normal brakes as well as motor that reduces noise
Number of belts	Four or six, based on car capacity, car weight requirements and travel.
Suspension means	Flat belt: 42.5 mm belt width and 3.1 mm thickness; 12 internal steel cords encased in FT1 rated PU material
Belt monitoring	Monitored by residual life span, traction loss detection device, belt member loss and a trip count
Machines	Permanent magnet gearless machine
Absolute position system	Elgo, sensor reads position data off of magnetic tape
Drive	Fully regenerative digital drive with automatic rescue included
Controller	TAC32T (in the wall or in optional control space if required by local jurisdictions, building constraints, and job-specific performance)
Door operator	Universal door operator
Car guides	Slide guides standard at 200 fpm; Roller guides standard at 350 – 600 fpm
Counterweight guides	Slide guides standard at 200 – 600 fpm
Counterweight	Side only
Governor	Wittur, remote resetting governor
Finished floor height	3/4" or 3/8" standard



### evolution hoistway efficiency

Everything fits into the hoistway, giving you more leasable building space.

Reduced hoistway width, depth and height are due to the compact machine with small components and underslung design. This results in a smaller building footprint.



### evolution controller closets

### The features of your evolution system determine the controller closet you'll need.

Controller closets includes room for controller, disconnect and resistor boxes. The most desirable controller closet location is on the top floor served, adjacent to the elevator hoistway.

At an additional cost, it may be located remotely, but the traveling cable must be no longer than 150 feet from the machine to controller.

Some jurisdictions require controller closets to be full-body entry; small spaces or closets may not be acceptable. Check with your thyssenkrupp Elevator representative.

evolution simplex <sup>23</sup>				evolution duplex <sup>23, 24</sup>			
Size	Α	В	С	Size	D	E	F
Small	4'-6"	2'-0"	3'-0"	Small	5'-6"	5'-5"	3'-0"
Medium	3'-10"	4'-7"	3'-0"	Large	9'-2"	5'-5"	3'-0"
Large	4'-6"	5'-11"	3'-6"				

See endnotes on page 29.

### A quiet ride

This elevator is very quiet. It emits fewer decibels than a normal conversation at home.\*

\*Source: Decibel comparison values from E+A+RCAL Laboratory, 3M Occupational Health and Environmental Safety Division













Duplex – large

evolution 100

White (PC) only

Fixture, entrance and other options

 $\oslash$ 

 $\oplus$ 

 $\oslash$ 

Traditional

TAC32T slim controller 📿

Car canopy – 14 gauge 📿

Safety beam – provided ⊘

and installed by others<sup>18</sup> Hall station type –

Regenerative drive

Regenerative disable

Car canopy finish

terminal or intermediate<sup>19</sup> Hall fixtures evolution 200

 $\oslash$ 

 $\oslash$ 

 $\oplus$ 

 $\oslash$ 

 $\oslash$ 

 $\oslash$ 

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 $\oplus$ 

3" at controller landing; all others 2"

White (PC) only

Traditional and Vandal-resistant Arrow only

### Technical comparisons

	evolution 100	evolution 200
Base options		
Elevator load capacities	2100, 2500, 3000, 3500	2100, 2500, 3000, 3500, 4000, 4500, 5000, 5000H
Elevator car speed	200 fpm	200, 350, 500 and 600 fpm
Max travel	100'-0"	350'-0"
Max stops	11	35
Seismic zones	0, 1, 2, 3, 4	0, 1, 2, 3, 4
Cab weight allowances	Up to 300 lbs, depending on speed/ capacity combination	Up to 1500 lbs, depending on speed/ capacity combination
Cab type	TKS	TKAP, TKS
Cab height (nom.)	8'-0" only	8'-0", 9'-0", 10'-0"
Door clear height	7'-0" only	7'-0", 8'-0", 9'-0"
Front and rear openings <sup>13</sup>	$\oplus$	$\oplus$
Door width:		
3'-0"	$\oplus$	$\oplus$
3'-6"	$\oplus$	$\oplus$
4'-0"	$\otimes$	$\oplus$
4'-6"	$\otimes$	$\oplus$
Door opening type – single speed LH or RH and CO <sup>3</sup>	$\oplus$	$\oplus$
Maximum openings (front only   front and rear)	11   22	35 70
Max number of cars in a group	8	8
Permanent magnet gearless machine	(PMB285L)	(PMB285XL or PMB285L)
Car sling and platform	$\oslash$	$\oslash$
Rail-supported	$\oslash$	$\oslash$
Remote-resetting governor (Wittur, 12")	$\oslash$	$\oslash$
Jamb-mounted digital controller	$\oplus$	$\oplus$
Universal door operator (LD16 / LD16 Plus)	(LD16 only)	$\oslash$

	evolution 100	evolution 200
Base options		
Absolute positioning system (ELGO)	$\oslash$	$\oslash$
Dual braking system (main and emergency)	$\oslash$	$\oslash$
Solid state brake controls <sup>14</sup>	$\oslash$	$\oslash$
Complies with IBC codes	yes	yes
Voltage (3 phase 60 hertz)	208, 240, 460, 575 (Canada only)	208, 240, 460, 575 (Canada only)
Flat belts suspension means <sup>15</sup>	$\oslash$	$\oslash$
Number of belts	4	4 or 6 (for 3500 lbs capacities or greater and exceeds 250' of travel)
Flat belts monitoring <sup>16</sup>	$\oslash$	$\oslash$
Car rails	15 lbs	15 lbs
Counterweight rails	8 lbs or 15 lbs	8 lbs or 15 lbs
Counterweight – side mounted only	$\oslash$	$\oslash$
Car guides	slide	slide or roller (used at 350-600 fpm)
Counterweight guides	slide	slide
Compensation	Not required at any speed or travel	No compensation required. Up to 100 ft travel, EXCEPT all 5000 lbs capacities & speed > 350 for 4000 and 4500 lb capacities
Pit ladders – retractable, 12" (16" also available)	$\oslash$	$\oslash$
Ladder brackets	$\oslash$	$\oslash$
Minimum pit depth – 5'	🖉 (5 foot pit depth only)	$\oslash$
Car buffers – stroke determined by speed	$\bigcirc$	$\oslash$
Counterweight buffers – always two	$\oslash$	$\bigcirc$
Controller location – if re	emote <sup>17</sup>	
In jamb at top landing	$\bigcirc$	$\oslash$
Controller closet	(adjacent at top landing)	🕂 (150' max wire run)

#### See endnotes on page 29.

Lantern illumination	
Traditional, Vandal-resistant – red, blue, green, white	(Traditional only, white only)
Braille	(Limited to two characters, no flush-mount ava
Fire service – mounted separate or in hall station	$\oslash$
Fire service signage	⊘ (No engraving)
Appendix H/O signage	(Separate adhesive-backe wall-mounted of
Hall call lockouts	$\otimes$
Entrances	
Face of frame	3" at controller landi all others 4"
AGILE 12" Kiosk	$\otimes$
Black anodized aluminum frame with black-edged screen	$\otimes$
Polished aluminum frame with black- edged glass screen	$\otimes$
Polished aluminum frame with white- edged glass screen	$\otimes$
edged glass screen	

Comes standard

Key

🕂 Available

🚫 Not available

FPM Feet per minute LBS Pounds

	evolution 100	evolution 200
Fixture, entrance a	nd other options	
Door and frame finish		
Powder coat <sup>20</sup>	$\oplus$	$\oplus$
Brushed stainless steel #4	$\oplus$	$\oplus$
Polished stainless steel #8	$\otimes$	$\oplus$
Fascia	Partial or full; partial applies automatically with the code year selection of 2000 or greater	Partial or full; partial applies automatically with the code year selection of 2000 or greater
Bottom pit fascia	$\oplus$	$\oplus$
Keyholes	$\oplus$	$\oplus$
3-D door protection	$\oplus$	$\oplus$
Predictive maintenance solution – MAX	$\oslash$	$\oslash$
Auto-rescue <sup>21</sup>	$\oslash$	$\oslash$
Fixture finish		
Brushed stainless steel #4	$\oplus$	$\oplus$
Polished stainless steel #8	$\otimes$	$\oplus$
Final limit location		
Car top mount	$\oslash$	$\oslash$
Hoistway mount	$\oplus$	$\oplus$
Controller options		
Infant security	$\otimes$	$\oplus$
Sabbath	$\otimes$	$\oplus$
Inconspicuous riser	$\otimes$	$\oplus$
MKII shutdown	$\otimes$	$\oplus$
Car riding lantern	$\oslash$	$\oslash$
Hall lantern	$\oplus$	$\oplus$
Door hold (Door operator controls)	$\otimes$	$\oplus$
eMax (aka MAX)	$\oplus$	$\oplus$
Fire service	$\oslash$	$\oslash$
Hoistway access	$\oplus$	$\oplus$

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	evolution 100	evolution 200
Fixture, entrance a	nd other options	
Independent service	$\oplus$	$\oplus$
Loadweigher controls	$\oplus$	$\oplus$
Position indicator	$\oplus$	$\oplus$
Remote governor reset	$\oplus$	Ð
Sleep mode	$\oplus$	$\oplus$
User Interface tool	$\oplus$	$\oplus$
Hoistway enable/ Inspection operation	$\oplus$	Ð
Isolation transformer	$\otimes$	$\oplus$
Standby power	$\oplus$	$\oplus$
Tenant security (3.1 only)	$\oplus$	Ð
Cab design		
Protection pads	$\oplus$	$\oplus$
Cab shell		
14 gauge	$\otimes$	$\oplus$
16 gauge	$\oplus$	$\oplus$
Shell finish		
Powder coat 20	$\otimes$	$\oplus$
Brushed stainless steel #4	<b>⊕</b>	•
Brushed stainless steel #4 (316 series)	$\otimes$	$\oplus$
Polished stainless steel #8	$\otimes$	Ð
5WL stainless pattern	$\otimes$	$\oplus$
Finished floor height		
³⁄₄" floor	$\oplus$	$\oplus$
³⁄₀" floor	$\oslash$	$\oslash$
Cab finishes		
Powder coat 20	$\otimes$	$\oplus$
Brushed stainless steel #4	$\oplus$	•
Polished stainless steel #8	$\otimes$	•
Brushed stainless steel #4 (316 series)	$\bigotimes$	<b>•</b>
Plastic laminates - for applied panels	$\otimes$	<b>•</b>
Laminate color	$\otimes$	Solids, patterns and woods

🕂 Available

🚫 Not available

Comes standard

	evolution 100	evolution 200
Cab design		
Cab finishes by others	$\otimes$	$\oplus$
Ceiling type		
Basic flat	$\otimes$	$\otimes$
Suspended	(frame finish in black only)	$\oplus$
Downlight	(stainless steel panels only)	$\oplus$
Handrail finishes		
Brushed stainless steel #4	$\oslash$	<b>•</b>
Polished stainless steel #8	$\otimes$	①
Handrail type		
1.5" cylindrical	$\oslash$	$\oplus$
2" flat bar	$\otimes$	$\oplus$
4" flat bar	$\otimes$	$\oplus$
6" flat bar	$\otimes$	$\oplus$
Bumpers	$\otimes$	$\oplus$
Sills		
Aluminum	$\oslash$	$\oplus$
Nickel silver	$\otimes$	$\oplus$
Entrances		
Door gauge	18 gauge	18 gauge (standard), 16 gauge
Cab door and frame fini	sh	
Powder coat 20	$\otimes$	$\oplus$
Brushed stainless steel #4	$\oslash$	• •
Polished stainless steel #8	$\otimes$	$\oplus$
Kickplate	$\otimes$	$\oplus$
Cab base	$\otimes$	$\oplus$
Welded frames	$\otimes$	$\oplus$
Microlight	$\oslash$	$\bigcirc$
Cab fan – two speed	$\oslash$	$\oslash$
Car fixtures	Traditional	Traditional and Vandal-resistant
Car fixtures buttons – traditional with T2	White only	White, red, green and blue
Car fixtures buttons – traditional with vandal-resistant	$\otimes$	White, red, green and blue
		See andrates on page 20
FPM Feet per minute	IBS Pounds	See enuriotes on page 29.

	evolution 100	evolution 200		evolution 100	evolution 200
Cab design			Cab design		
Car signals and COP			Locked compartment	$\oplus$	$\oplus$
Car call lockout	$\otimes$	$\oplus$	Fire compartment	$\oplus$	$\oplus$
Emergency light test	$\oplus$	$\oplus$	Medical emergency key switch	$\oplus$	$\oplus$
Door hold open	$\otimes$	$\oplus$	Card reader	<b>A</b>	$\oplus$
Braille plates	Standard	Standard, Cast Disc Flush	override switch		
Desition indicator	(III III III III III III III III III II	11 01	Fire service	$\oplus$	$\oplus$
Position Indicator	(No CE display)	CE dot matrix	Hoistway enable	$\oplus$	$\oplus$
Capacity plate	Standard, no engraving	Standard or engraved	Independent service	$\oplus$	$\oplus$
Smart rescue phone <sup>22</sup>	$\oslash$	$\oslash$	NC special access	$\oplus$	$\oplus$
Auxiliary COP	1 only	Maximum of 3 – limited by cab openings and door types	Card reader 4 x 4 space only	$\oplus$	$\oplus$
Car riding lanterns	Traditional	Traditional and Vandal-resistant	Seismic jewel	$\oplus$	$\oplus$
			ndal-resistant thyssenkrupp (for front and rear) Elevator emblem French english car station markings	$\oplus$	$\oplus$
Additional car	$\otimes$	(for front and rear)			
riding lanterns	- -			$\oplus$	$\oplus$
AGILE supported	$\otimes$				

#### Endnotes

Local codes may vary from the national codes. Consult your thyssenkrupp Elevator representative for details.

<sup>1</sup> Inside clear heights of 8'-4" and 9'-4" are also available on an evolution 200 model.

<sup>2</sup> Dimension shown is the distance between the suspended ceiling and a maximum <sup>3</sup>/<sub>4</sub>" finished floor. If <sup>3</sup>/<sub>8</sub>" finished floor, the inside clear height increases to 7'-4%".

 $^{\scriptscriptstyle 3}$  2100 lbs car capacity is not available with center opening doors.

<sup>4</sup> For non-seismic installations, add 1" to hoistway width when travel exceeds 100'. For seismic Zone 2 or greater or IBC equivalent, add 2" to hoistway width if travel is less than or equal to 100'. For seismic Zone 2 or IBC equivalent, add 3" to hoistway width if travel exceeds 100'. For seismic Zone 3 or greater or IBC equivalent, add 3" to the hoistway width if travel is between 100' - 250'. For seismic Zone 3 or greater or IBC equivalent, add 6"

to hoistway width if travel is greater than 250'. <sup>5</sup> To achieve IBC stretcher compliance, you can accommodate an 84" ambulance stretcher in car capacities of 2500, 3000, 3500, and 4000 lbs with 3'-6" side opening doors. However, this is dependent on cab and door configurations. We also offer 4500 and 5000 lbs car capacities with no configuration restrictions.

Contact your thyssenkrupp Elevator representative for specific cab and door configurations <sup>6</sup> For areas enforcing ASME A17.1 2010 code or greater, the minimum overhead requirement is the same for simplex/multicar/seismic/non-seismic. For areas enforcing pre-2010 ASME A17.1 code and speed is equal to 200 fpm, the minimum overhead is still the same, but if speed increases to 350 fpm or more, the minimum overhead is greater than what is shown. Contact your local representative for overhead requirements.

balancing the car. capacity cars.

 $^{\rm 14}$  Contactor-less components for brakes as well as motor that reduces noise. <sup>15</sup> 42.5 mm belt width and 3.1 mm thickness: 12 internal

or until it is replaced or upgraded.

### Dimensional data shown is for non-seismic zones and complies with current ASME A17.1 and CSA B44 Safety Code for Elevators.

office. Minimum overhead is shown to the bottom of the

 $^{\rm 8}$  Inside clear cab dimensions are based on maximum  $^{1}\!/\!_{2}"$ applied wall panel for the evolution 200 product, but dimensions for evolution 100 are based on stainless

<sup>9</sup> If occupied space below a pit is required, counterweight safeties come standard for evolution 200, but contact your local representative for full details.

<sup>10</sup> Door clear height of 8'-0" and 9'-0" are also available for taller cabs on evolution 200 but contact your local

<sup>11</sup> For 54" (4'-6") doors, hoistway width increases to 8'-3" for non-seismic and seismic and are limited to the closet-mounted controller configuration only. For 48" (4'-0") doors, see note 4.

<sup>12</sup> Minimum pit depth increases to 6'-6" on a 4000 lbs capacity car, going 350 fpm when it exceeds 225' of travel because it needs a compensation wheel for

<sup>13</sup> Front and rear openings are not available on 2100 lbs

steel cords encased in FT1 rated PU material.

<sup>16</sup> Monitored by residual life span, traction loss detection device and belt member loss and a trip counter. Monitor remains a part of system indefinitely

- <sup>7</sup> Provided and installed by others, as directed by the local <sup>17</sup> Entrance mounted controllers cannot be grouped with closet applications.
  - <sup>18</sup> A minimum of 2" of clearance between the top of the 8" safety beam and underside of hoistway ceiling is required.
  - <sup>19</sup> Features in hall stations are limited to a combination of 3 devices.
  - <sup>20</sup> Powder coat colors from standard selection; no special paints. Not available on evolution 100 cab interiors, but limited color options available on entrances and hall doors.
  - <sup>21</sup> Emergency evacuation to the next landing. (It is automatic and load dependent.)
  - $^{\rm 22}$  5- or 10-car supported. With jamb-mounted controllers, mounting location and provisions will have to be determined.
  - <sup>23</sup> Controller closet temperature range 32°F minimum, 104°F maximum. 10-95% non-condensing relative humidity.
  - <sup>24</sup> May also use two separate closets.
  - <sup>25</sup> On front and rear door opening cars that are configured with same hand doors (catty-corner), additional hoistway width is required. For 2500, 3000, 3500 capacity cars with 42" (3'-6") doors and 4500, 5000 cars with 48" (4') doors, hoistway width must be increased additionally by 2". For 4500, 5000 cars with 54" (4'-6") doors, hoistway width must be increased additionally by 11".

Illustrations and images in this brochure may differ from the installed product. Consult your local representative for more information.



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You can use AGILE to integrate evolution with your building's security system or allow it to function as a stand-alone system.

AGILE touchscreen kiosks direct elevator passengers to their destination. They have clear, concise graphics, making them simple to use. The kiosks can be easily customized using your company's background and logos — or choose from pre-loaded options.

AGILE is only available on evolution 200 product line.





### Get smarter service and less downtime with MAX.

Combining the power of cloud computing, big data and machine learning, MAX continuously collects data about your elevator's components and systems, and sends it to the cloud.



MAX works onsite 24/7/365.

The data is analyzed, and algorithms determine when your elevator will require maintenance from our technicians.

We call this predictive maintenance. It's revolutionary and can reduce your elevator downtime by up to 50 percent. We're continuously improving MAX, so you can expect its benefits to get bigger and better over time.

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Reliable and high-quality products, services and solutions with precision and a superior cost-benefit ratio.

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### We innovate.

We strive to find technology and business solutions that cater to future customer needs.

### engineering. tomorrow. together.

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We act with foresight and a solutionoriented mindset to progress our customers, employees and other stakeholders.

### We act as a reliable partner.

We act in an honest, authentic and responsive manner towards customers, employees and other stakeholders.

### We build on strong experience.

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We live an innovation culture based on respect and efficient collaboration.



**Elevator Technology** 

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