

MOVE BEYOND

TKE

Low- to mid-rise elevators

ABOVE AND BEYOND

Setting our sights on the future by utilizing modernization, we continue to be consistent in supplying high-quality products and services.

In August 2020, TK Elevator became a standalone elevator company through its sale by thyssenkrupp AG. Now solely focusing on elevators, we are moving forward with state-of-the-art tools and technology to reinvent prior transportation expectations. In order to challenge the limits of what was previously possible -- we introduce evolution -- our advanced, pre-engineered low- to mid-rise elevators.







CONTENTS

02 Above and be

| 00 | |
|----------------------------------|----|
| We design solutions for everyone | 06 |
| Choose evolution | 04 |
| Above and beyond | |

NS

| Mobility made easier | 08 |
|----------------------|----|
| 12 | |
| AGILE | 12 |

13 MAX 14

| x | 13 |
|---|----|
| | |

| Simple yet sophisticated | 14 |
|--------------------------|----|
| Steel Shell Design | 15 |
| Finishes | 16 |
| Applied Panel | 17 |
| Fixtures and returns | 18 |
| Cab accessory options | 19 |
| Door configurations | 20 |
| Entrance options | 21 |

22 Planning

| Passenger elevators | 23 |
|-------------------------------|----|
| Service elevators | 24 |
| Evolution hoistway efficiency | 25 |
| Contoller closets | 25 |
| Technical specifications | 26 |

CHOOSE EVOLUTION 200

An elevator that defines innovation and goes beyond the essentials.

The world is rapidly growing. New ideas, innovations, and modernizations are rising to make the future safer and more efficient. When you're deciding on an elevator, you'll want the most dependable option.

Choosing the evolution 200 will be the easiest decision you've ever made. This elevator provides everything you need to keep your building moving safely with the technology of tomorrow.

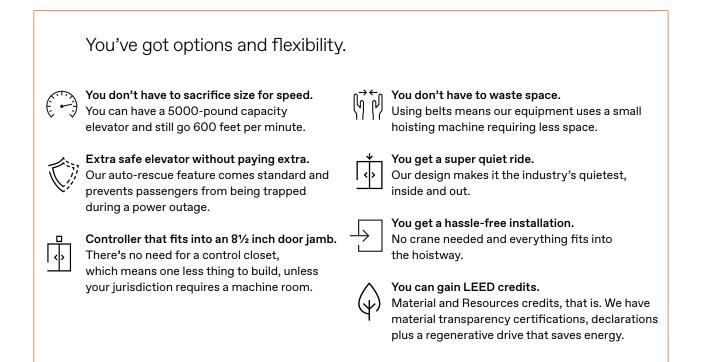






We design solutions for everyone

We've designed an MRL elevator for up to 35 stops that's not only competitive, it's better.



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 masterpiece.
- Our elevator is supported from the guide rails.
- 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 various 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.





Building owners

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

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

- Everything you need arrives at the job site in one sequentially packaged shipment.
- It's an MRL. It truly is. All the components fit in the hoistway. 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.

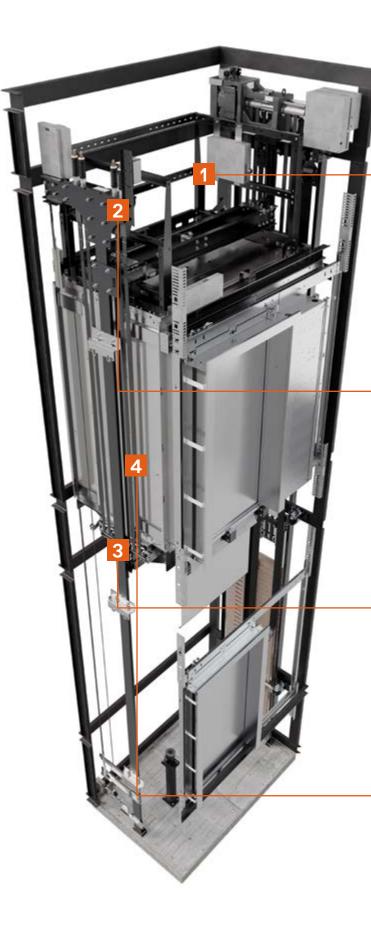


MOBILITY MADE EASIER

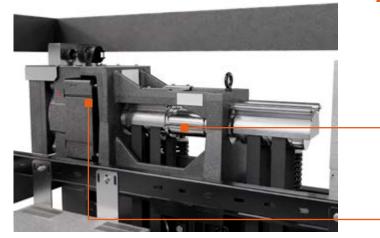
evolution 200 combines simplicity and ease of service.

Unlike yesterday's elevators, we've simplified the installation process. You no longer need a crane and can install the roof early — no more waiting on us. Everything arrives at the job site in one shipment, with sequential packaging.

When we're not onsite, your elevator is constantly being monitored by MAX, the elevator industry's first cloud- and IoT-based digital predictive maintenance solution. Because of MAX, you'll receive smarter service and maintenance along with transparency and peace of mind.









Machines

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

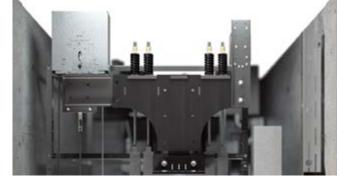
Sheaves

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.

Rail-supported

evolution 200 is supported by its rails rather than your building. That means your installation requires less coordination between trades.









2

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



Belts

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

Efficiency and high-performance

evolution 200 is built with robust and high-quality components. The powerful yet compact motor transports passengers to their destinations up to 25 percent faster than competitors.

LED lights come standard, are energy-efficient, and automatically turn off when the elevator isn't in use.

Controller

Fits into a tiny 8½-inch (216 mm) 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, easier to maintain and replaces motor and brake contractors 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.



evolution 200 travels up to 25% faster than competitors.





Universal door operator

The new linear door operator technology provides enhanced door reliability as well as quick, smooth door operation. This reduces the number of service calls due to malfunctioning doors.





Absolute positioning system

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

ENHANCE EFFICIENCY. REDUCE TRAFFIC.

Upgrade your elevators — and your building — by adding AGILE. Our Destination Dispatch solution combines four intelligent elements that improve elevator performance, enhance passenger experiences, reduce building traffic and increase your building security.

AGILE groups passengers together who are traveling to similar floors, resulting in 25 percent faster travel time. The technology also lets you make data-driven decisions to manage your elevator performance.

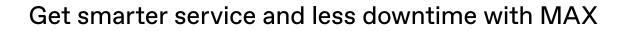
It integrates with your building's security system or can function as a standalone system. You're also set for future upgrade opportunities with built-in cameras and RFID card readers.

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 control systems. Contact your local sales representative for further details.



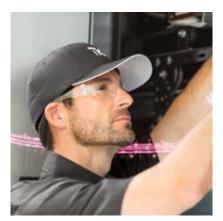
With a wide variety of design options to choose from, you can create a unique look that reflects your building and tenants.

MAXIMIZE YOUR UPTIME.



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



Repairs are completed in less time.



MAX sends equipment diagnostic analysis.



MAX works onsite 24/7/365.

1.4

SIMPLE YET SOPHISTICATED

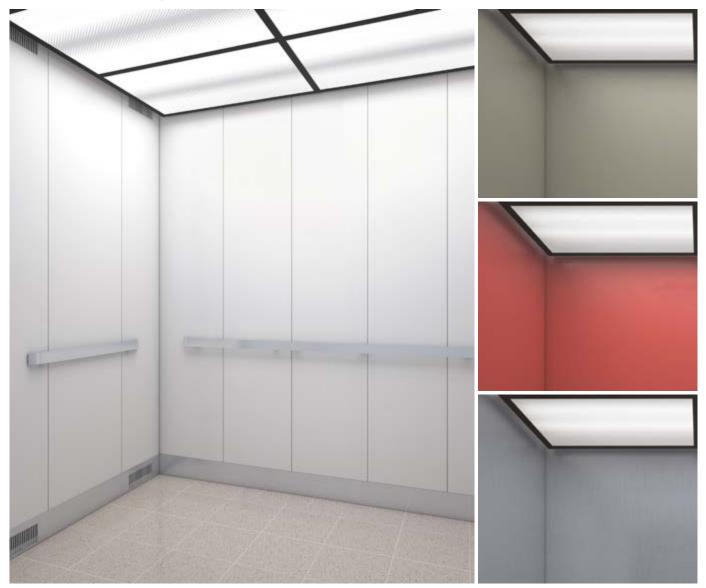
0

Our cab and finish options let you personalize your evolution 200 elevator interior. Just like you want to.

0

0

Steel Shell Design



Standard cab designs

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.

Finishes

| Plastic lam | inates | | | | | | | |
|-------------------------------------|----------------------------|-----------------------------|-----------------------|----------------------|------------------------|-------------------------|-------------------------|-------------------|
| Woods | | _ | | | | | | |
| 6206 Planked | 7759 Select | 8902 White | 8905 Waxed | 8906 Danish | 8907 Fox | 8908 Storm | 8915 Walnut | 8916 Blackened |
| Deluxe Pear | Cherry | Painted Wood | Maple | Maple | Teakwood | Teakwood | Fiberwood | Fiberwood |
| Solids | | | | | | | | |
| 7197 | 464 | 8792 | 839 | 8795 | | | | |
| Dover White | Graystone | Winter Sky Matte | Stop Red | Matrix Blue | - | | | |
| Patterns | | - | | | | | | |
| 8826 | 8827 | 8958 | | | | | | |
| Neutral Twill | Sarum Twill | Bubble Art | | | | | | |
| Powder coa | ats | | | | | | | |
| F 405 | E 410 | F 410 | F 400 | F 404 | F 400 | E 404 | F 405 | |
| F-105 Cedar Brown | F-112 Pitch Black | F-119 Chalk Board | F-120 Hibiscus | F-121 Clover | F-122 Whistle Red | F-124 Coral Cables | F-125 Chai | |
| | | | | | | | | |
| F-126 Mustard Seed | F-127 Field Coat | F-128 Prairie Grass | F-129 Elephant Ear | F-130 Blue Patina | F-131 Smoked Silver | F-132 Toasted Cotton | F-133 Reclaimed Gray | |
| Metals | | | | | | | | |
| Metals | | | | | | | | |
| 5WL Stainless Steel ¹ | Brushed Stainless Steel | Polished Stainless Steel | | | | | | |

 $^{\rm t}$ Limited application. Contact your local representative for details.

 ${
m }$ Colors may vary. We recommend examining a large color selector sheet before making a selection.



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 particle board.

⊢ Fixtures

Traditional fixtures

Product details

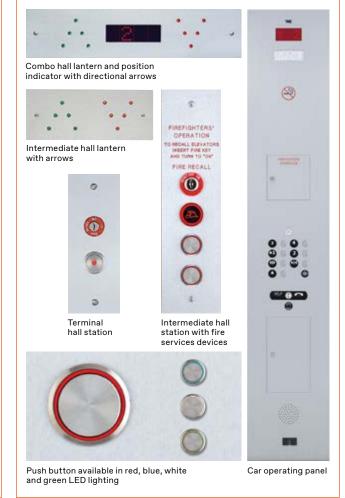
- Faceplates in brushed or polished stainless steel
- Position indicator displays car location



Vandal-resistant fixtures

Product details

- Faceplates in brushed or polished stainless steel
- Metal push buttons and durable car riding lanterns
- Pry-resistant hall jamb symbols and buttons



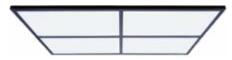
Fixtures shown above are for representation only. Your project-specific application may vary.

Cab accessory options

Ceilings

Suspended

White translucent diffusers for LED lighting are available with ceiling frames in a powder coat or stainless steel finish.



Downlight

Metal pan downlight ceiling features LED lighting with six or nine lights (based on cab size). Lights are mounted in your choice of powder coat or stainless steel ceiling panels.



Handrails

Cylindrical

11⁄2" cylindrical handrail is a continuous metal form with ends turned toward the wall. Comes in stainless steel finish.





Sills

Our cab sill finishes allow you to match your sills to any other design component inside the cab.



Braille plates



Option 1: Resin braille plate Option 2: Surface mount cast braille plate Option 3: Flush (inlaid) mount cast braille plate

Flat bar Metal bar handrail is available in ¼" thickness and 2", 4" or 6" widths Comes in stainless steel finish.



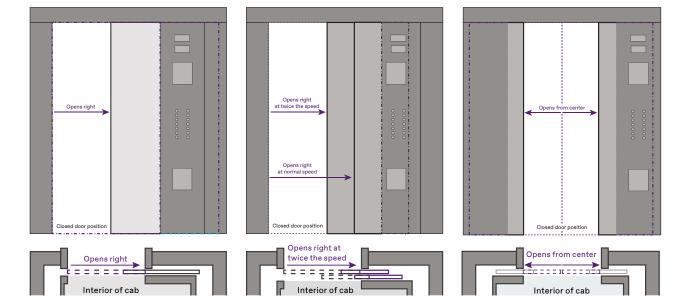
⚠ Illustrations vary based on configurations.

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)

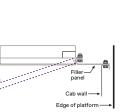
Two-speed Provides a wider opening without compromising door cycling time. Two doors move in the same direction, one sliding faster than the other. Available with either right- or left-hand opening. (right-hand shown) **Center opening** Best for high-traffic buildings. Permits the quickest entry and exit, improving elevator service while giving an attractive, symmetrical appearance.



Front returns

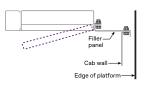


Wrap-around returns This return features a hinged car operating panel and separate filler panel. Comes standard.





Column returns This return features a hinged car operating panel secured to the filler panel and aligned vertically with the column.



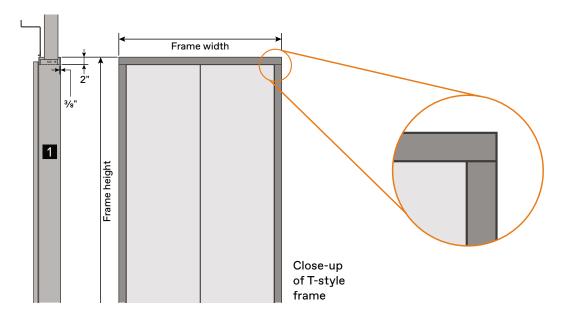
Front returns include the car station, return panel, signal fixtures and head jamb. Images above represent return types in brushed stainless steel.

Entrance options

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

Hoistway entrance frame

Face of frame is a minimum of two inches. Increases to three inches on controller landing.



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 coat.





Metal finish T-style entrance frame in Brushed Stainless Steel.

PLANNING

and a second second











Self supported



Max stops 35



Speed 200 - 600 fpm

Capacity 2100 – 5000 lbs



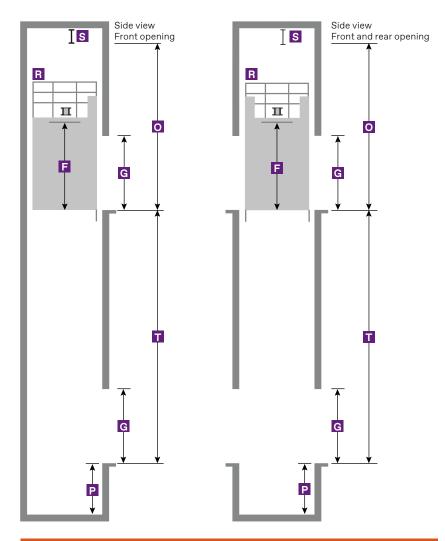
Fit Machine room-less



Max openings 35 (front only) 70 (front and rear)

evolution 200

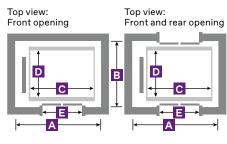
Passenger elevators



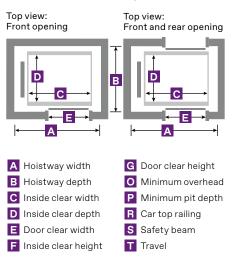
Passenger elevators

| Capacity (Ibs) | Hoistway ⁴ A x B | Front/ rear | Inside clear ⁸ C x D | Door type | Door width E |
|-----------------------|---------------------|----------------|--|--------------|-----------------|
| 2100 3, 13 | 7'-6" x 5'-9" | F | 5'-8" x 4'-3¾" | 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 ⁷ / ₈ " | 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 center opening doors



One-speed side opening doors



- F Inside clear height: 7'-4" ^{1,2}
 G Door clear height: 7'-0" ¹⁰
 S 8" safety beam (2" clear above)
- required capable of holding 7500 lbs ⁷
- Minimum overhead: ^{6,7}
 200 fpm: 12'-8" 500 fpm: 13'-11"
 350 fpm: 13'-4" 600 fpm: 15'-0"
- Minimum pit depth: ^{9,12}
 200 fpm: 5'-0" 500 fpm: 6'-6"
 350 fpm: 5'-6" 600 fpm: 7'-2"

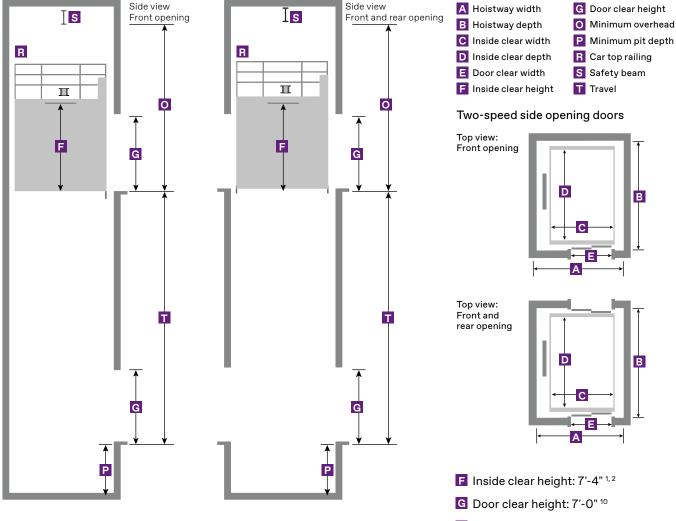
All dimensions are based on a standard single hoistway in non-seismic installations.

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 26.

evolution 200

Service elevators



| Service elevators | | | | | | |
|---------------------|------------------------------------|----------------|------------------------------------|--------------|-------------------------------|--|
| Capacity (Ibs) | Hoistway ^{4, 11} A x B | Front/ rear | Inside clear ⁸ C x D | Door type | Door width ¹¹ E | |
| 4500 | 7'-6" x 9'-6½" | F | 5'-8" x 7'-9½" | Two-speed | 4'-0"/4'-6" | |
| 4500 ²⁵ | 7'-6" x 10'-8½" | F/R | 5'-8" x 7'-10" | Two-speed | 4'-0"/4'-6" | |
| 5000 | 7'-6" x 10'-2" | F | 5'-8" x 8'-5" | Two-speed | 4'-0"/4'-6" | |
| 5000 ²⁵ | 7'-6" x 11'-4" | F/R | 5'-8" x 8'-5½" | Two-speed | 4'-0"/4'-6" | |
| 5000H | 7'-6" x 10'-9" | F | 5'-8" x 9'-0" | Two-speed | 4'-0"/4'-6" | |
| 5000H ²⁵ | 7'-6" x 11'-11" | F/R | 5'-8" x 9'-0½" | Two-speed | 4'-0"/4'-6" | |

 S 8" safety beam (2" clear above) required capable of holding 7500 lbs ⁷
 Minimum overhead: ^{6,7} 200 fpm: 12'-8" 500 fpm: 13'-11" 350 fpm: 13'-4" 600 fpm: 15'-0"
 Minimum pit depth: ⁹ 200 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 installations.

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

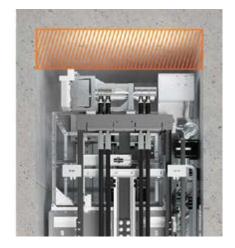
See endnotes on page 26.

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 200 controller closets

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

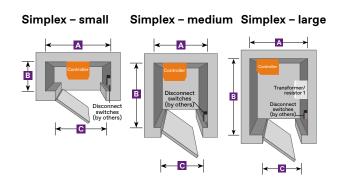
Controller closets includes room for controller, disconnect and resistor boxes. The most desirable controller closet location is on the top floor served, adjacent to the elevator hoistway.

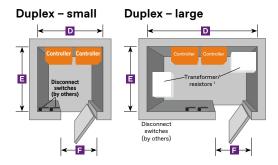
At an additional cost, it may be located remotely, but the traveling cable must be no longer than 150 feet from the machine to controller.

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

| Simplex ²³ | | | | Duple | x ^{23, 24} | | |
|-----------------------|--------|--------|-------|-------|---------------------|-------|-------|
| Size | А | В | С | Size | D | Е | 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 26.





| 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 TK Elevator but wiring installed by others. |
| Solid state brake controls | Dual braking system (main and emergency.) 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: 14 internal steel cords encased in FT1 fire rated PU material |
| Belt monitoring ¹⁶ | Monitored by residual life span, traction loss detection device, belt member loss and a trip count |
| Machines | Permanent magnet gearless machine |
| Absolute position system | 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 and counterweight guides | Car: Slide guides standard at 200 fpm; Roller guides standard at 350 – 600 fpm Counterweight: Slide guides standard at 200 – 600 fpm (counterweight-side only) |
| Governor | Remote resetting governor |
| Finished floor height | 3/4" or 3/8" standard |

Endnotes

Dimensional data shown is for non-seismic installations and complies with current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your TK Elevator representative for details.

- ¹ Inside clear heights of 8'-4" and 9'-4" are also available on an evolution 200 model.
- 2 Dimension shown is the distance between the suspended ceiling and a maximum $\%^*$ finished floor. If $\%^*$ finished floor, the inside clear height increases to 7'-4\%''.
- ³ 2100 lbs car capacity is not available with center opening doors.
- ⁴ For non-seismic installations, add 1" to hoistway width when travel exceeds 100'.
- For seismic conditions, hoistway width must be increased based on overall travel. Add 2" if travel is 100 feet or less. If travel is greater than 100 feet but less than 250 feet, add 3". If over 250 feet of travel, add 6". Contact your local TK Elevator representative to evaluate the building location to determine the seismic requirement.
- ⁵ 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 TK Elevator representative for specific cab and door configurations.
- ⁶ 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.

- ⁷ Provided and installed by others, as directed by the local office. Minimum overhead is shown to the bottom of the safety beam.
- ⁸ Inside clear cab dimensions are based on maximum ½" applied wall panel for the evolution 200 product.
- ⁹ If occupied space below a pit is required, counterweight safeties come standard for evolution 200.
- ¹⁰ Door clear height of 8'-0" and 9'-0" are also available for taller cabs on evolution 200 but contact your local representative for additional details.
- " 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.
- ¹² 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 balancing the car.
- ¹³ Front and rear openings are not available on 2100 Ibs capacity cars.
- ¹⁴ Contractor-less components for brakes as well as motor that reduces noise.
- ¹⁵ Suspension belts consists of; 14 internal steel cords encased in FT1 fire rated PU material.
- ¹⁶ Monitor remains a part of system indefinitely or until it is replaced or upgraded. Belt monitors are mandatory for California, but optional for other jurisdictions. Contact your local sales representative for more information.

- ¹⁷ Entrance mounted controllers cannot be grouped with closet applications.
- ¹⁸ A minimum of 2" of clearance between the top of the 8" safety beam and underside of hoistway ceiling is required.
- ¹⁹ Features in hall stations are limited to a combination of 3 devices.
- ²⁰ Powder coat colors from standard selection; no special paints.
- ²¹ Emergency evacuation to the next landing. (It is automatic and load dependent.)
- ²² 5- or 10-car supported. With jamb-mounted controllers, mounting location and provisions will have to be determined.
- ²³ Controller closet temperature range 32°F minimum, 104°F maximum. 10-95% noncondensing relative humidity.
- ²⁴ May also use two separate closets.
- ²⁵ 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.

YOUR INNOVATION PARTNER

elevators and escalators under maintenance

countries of customers

1,500,000 100+

employees



service available for customers

locations

24/7 1,000+

service technicians

25,000+

TK Elevator Corporation 788 Circle 75 Parkway SE Suite 500 Atlanta, GA 30339 P: +1 844 427 5461 www.tkelevator.com/us

> TK Elevator reserves the right to change specifications or design and to discontinue items without prior notice or obligation. © 2023 TK Elevator Corporation. CA License #C11-651371 | 28482-1 | evolution 200 elevator product brochure All illustrations and specifications are based on information in effect at time of publication approval.

