thyssenkrupp moves people – the future of urban mobility.

In 40 short years, we’ve become one of the world’s leading elevator companies with unique engineering capabilities, offering next-generation solutions like MULTI, the ropeless elevator, ACCEL, an accelerated people mover and MAX, a cloud-based predictive maintenance service. Whether building a new state-of-the-art system or optimizing and modernizing existing ones, our solutions deliver crucial energy and time efficiencies, helping to address the challenges of urbanization and transform cities into the best places to live.

A trusted partner
We support our customers throughout their project lifecycle, from the design to the end-of-life phase. Every step of the way, we strive to fully understand their needs and consistently deliver the safest, highest quality passenger transportation solutions, maintenance and modernization packages.

Through our internal technical support function, International Technical Services Americas, thyssenkrupp trains its service technicians in a multibrand portfolio, enabling them to successfully service more than 1.2 million units under maintenance.

thyssenkrupp – the diversified industrial group

engineering.tomorrow.together – three words that describe who we are, what we do, and how we do it. Driven by global megatrends such as urbanization and the need for efficient use of environmental resources, our global community of more than 156,000 colleagues works together with our customers to harness our engineering expertise and strive for technological and business solutions that satisfy the demand for “more” in a “better” way.

Find out more: www.thyssenkrupp.com
We provide smart and innovative products for a wide variety of applications:

- Passenger and freight elevators
- Escalators and moving walks
- Passenger boarding bridges
- Stair and platform lifts
- Customized service and modernization solutions
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>**Low-rise</td>
<td>hydraulic elevators**</td>
</tr>
<tr>
<td>endura MRL – machine room-less</td>
<td>08</td>
</tr>
<tr>
<td>endura – above-ground</td>
<td>10</td>
</tr>
<tr>
<td>endura – below-ground</td>
<td>12</td>
</tr>
<tr>
<td>endura – machine rooms and controllers</td>
<td>14</td>
</tr>
<tr>
<td>**Low-rise to mid-rise</td>
<td>traction MRL elevators**</td>
</tr>
<tr>
<td>evolution 200 – overview</td>
<td>18</td>
</tr>
<tr>
<td>evolution 200 – self supported</td>
<td>20</td>
</tr>
<tr>
<td>synergy – self supported</td>
<td>22</td>
</tr>
<tr>
<td>synergy – building supported – standard</td>
<td>23</td>
</tr>
<tr>
<td>synergy – building supported – performance</td>
<td>24</td>
</tr>
<tr>
<td>Support configurations</td>
<td>26</td>
</tr>
<tr>
<td>Controller closets – self supported and building supported</td>
<td>28</td>
</tr>
<tr>
<td>**Mid-rise to high-rise</td>
<td>traction elevators**</td>
</tr>
<tr>
<td>momentum – passenger standard and performance</td>
<td>32</td>
</tr>
<tr>
<td>momentum – service standard</td>
<td>33</td>
</tr>
<tr>
<td><strong>Interior design</strong></td>
<td>34</td>
</tr>
<tr>
<td>Cab designs – laminate, steel and applied panel</td>
<td>36</td>
</tr>
<tr>
<td>Finishes – color selections</td>
<td>39</td>
</tr>
<tr>
<td>Cab accessory options – ceilings, handrails and sills</td>
<td>40</td>
</tr>
<tr>
<td>Fixtures – standard and upgraded</td>
<td>41</td>
</tr>
<tr>
<td>Upgraded and custom cabs</td>
<td>44</td>
</tr>
<tr>
<td>Door and entrance configurations</td>
<td>48</td>
</tr>
<tr>
<td><strong>Innovations and enhancements</strong></td>
<td>50</td>
</tr>
<tr>
<td>AGILE – elevator technology</td>
<td>52</td>
</tr>
<tr>
<td>TWIN – elevator system</td>
<td>54</td>
</tr>
<tr>
<td>MAX – predictive maintenance</td>
<td>56</td>
</tr>
<tr>
<td>Occupant evacuation operation</td>
<td>57</td>
</tr>
</tbody>
</table>
Small offices, shops, schools, worship facilities and hotels up to four stories need sensible options in elevators. The uncomplicated design of the hydraulic elevator uses fewer moving parts to lift heavy loads and keeps maintenance costs low. And you don’t have to sacrifice building space or sustainability. Our hydraulic elevators use environmentally-safe fluids and we even make an innovative elevator that fits entirely in the hoistway.

Cost-effective, capable hydraulics get the job done, whether you are moving a few or even thousands of people each day.

Save thousands. Low maintenance costs saves tens of thousands spent over an elevator’s 25-year life span.

Interior quality. UL–validated, low-emitting materials exceed stringent indoor air quality standards.

You can choose enviromax, a product with the Platinum Material Health Certificate.

- Speeds up to 1.0 m/s
- Capacities up to 2268 kg
endura MRL
Machine room-less

endura
Above-ground

endura
Below-ground

Machine room
and controllers
<table>
<thead>
<tr>
<th>Passenger</th>
<th>1- and 2-Stage</th>
<th>3-Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Hoistway A x B</td>
<td>Hoistway A x B</td>
</tr>
<tr>
<td>953 kg</td>
<td>2235 x 1753</td>
<td>2337 x 1753</td>
</tr>
<tr>
<td>953 kg</td>
<td>2235 x 2051</td>
<td>2337 x 2051</td>
</tr>
<tr>
<td>1134 kg</td>
<td>2540 x 1753</td>
<td>2642 x 1753</td>
</tr>
<tr>
<td>1134 kg</td>
<td>2540 x 2051</td>
<td>2642 x 2051</td>
</tr>
<tr>
<td>1361 kg</td>
<td>2540 x 1905</td>
<td>2642 x 1905</td>
</tr>
<tr>
<td>1361 kg</td>
<td>2540 x 2203</td>
<td>2642 x 2203</td>
</tr>
<tr>
<td>1588 kg</td>
<td>2540 x 2108</td>
<td>2642 x 2108</td>
</tr>
<tr>
<td>1588 kg</td>
<td>2540 x 2407</td>
<td>2642 x 2407</td>
</tr>
<tr>
<td>1814 kg</td>
<td>2845 x 2108</td>
<td>2946 x 2108</td>
</tr>
<tr>
<td>1814 kg</td>
<td>2845 x 2407</td>
<td>2946 x 2407</td>
</tr>
</tbody>
</table>

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

- **Inside clear height:** 2235 mm
- **Door clear height:** 2134 mm
- **Minimum overhead:**
  - Up to 0.5 m/s: 2235 mm
  - Over 0.5 m/s: 2785 mm
- **Door clear width:**
  - 1-Stage: 982 mm
  - 2-Stage: 982 mm
  - 3-Stage: 982 mm
- **Minimum pit depth:** 1219 mm
- **Safety beam required** per OSHA 1926.502
- **Max travel possible (mm):**
  - 1-Stage: Up to 0.5 m/s – 5766
  - 2-Stage: 8687
  - 3-Stage: 14,719

1. A 1524 mm min. pit is required for additional travel. Travel above 4166 mm (1-Stage) or 7684 mm (2-Stage) or 11,138 mm (3-Stage) requires additional pit and/or overhead by adding 25 mm for every 25mm (1-Stage) or 51 mm (2-Stage) or 76 mm (3-Stage) of additional travel. Max increase 610 mm allowed in overhead.
2. In areas where a 178 mm deep pit ladder is required, additional hoistway width or wall pocket will be required.
3. This capacity is not available with center-opening doors.
4. To meet the requirements of IBC code for 2134 mm stretchers, a 1219 mm center-opening (for 1814 kg capacity only) or 1067 mm side opening (for 1588 kg or 1814 kg capacity) door is required. For a 1588 kg capacity car with front and rear doors, the doors must be in adjacent corners.
5. Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.
6. Provided and installed by others, as directed by your thyssenkrupp Elevator representative. Clear overhead is shown to the bottom of the safety beam.
7. For multiple elevators: Add 102 mm for a divider beam between hoistways.
endura MRL

Twinpost above-ground

Hydraulic machine room-less

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

1 Insert the jack type for specific product details.

Service 1- and 2-Stage

<table>
<thead>
<tr>
<th>Capacity (kg)</th>
<th>Hoistway 2, 3</th>
<th>Hoistway 3</th>
<th>Front/rear</th>
<th>Inside clear</th>
<th>Door type</th>
<th>Door width</th>
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</thead>
<tbody>
<tr>
<td>2041</td>
<td>2235 x 2908</td>
<td>2337 x 2908</td>
<td>F</td>
<td>1727 x 2375</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268</td>
<td>2235 x 3099</td>
<td>2337 x 3099</td>
<td>F</td>
<td>1727 x 2566</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268H</td>
<td>2235 x 3277</td>
<td>2337 x 3277</td>
<td>F</td>
<td>1727 x 2745</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268H</td>
<td>2235 x 3651</td>
<td>2337 x 3651</td>
<td>F/R</td>
<td>1727 x 2756</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
</tbody>
</table>

1 A 1524 mm min. pit is required for additional travel. Travel above 4166 mm (1-Stage) or 7684 mm (2-Stage) or 11,138 mm (3-Stage) requires additional pit and/or overhead by adding 25 mm for every 25 mm (1-Stage) or 51 mm (2-Stage) or 76 mm (3-Stage) of additional travel. Max increase 610 mm allowed in overhead. Consult your thyssenkrupp Elevator representative for details.

2 For multiple elevators: Add 102 mm for a divider beam between hoistways.

3 In areas where a 178 mm deep pit ladder is required, additional hoistway width or wall pocket will be required.

4 With additional 1372 mm two-speed side opening door, hoistway width becomes 2489 mm.

5 Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.

6 Provided and installed by others, as directed by your thyssenkrupp Elevator representative. Clear overhead is shown to the bottom of the safety beam.

7 For multiple elevators: Add 102 mm for a divider beam between hoistways.

8 A 4166 mm min. pit is required for additional travel. Travel above 4166 mm (1-Stage) or 7684 mm (2-Stage) or 11,138 mm (3-Stage) requires additional pit and/or overhead by adding 25 mm for every 25 mm (1-Stage) or 51 mm (2-Stage) or 76 mm (3-Stage) of additional travel. Max increase 610 mm allowed in overhead. Consult your thyssenkrupp Elevator representative for details.

9 In areas where a 178 mm deep pit ladder is required, additional hoistway width or wall pocket will be required.

10 With additional 1372 mm two-speed side opening door, hoistway width becomes 2489 mm.

11 Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.

12 Provided and installed by others, as directed by your thyssenkrupp Elevator representative. Clear overhead is shown to the bottom of the safety beam.

13 For multiple elevators: Add 102 mm for a divider beam between hoistways.
Jack types  |  Travel  |  Speed  |  Capacity
--- | --- | --- | ---
1-Stage  | 3861 mm | 0.4, 0.56, 0.76 m/s | 953–1814 kg
2-Stage  | 7074 mm | 0.4, 0.56, 0.76 m/s | 953–1814 kg
3-Stage  | 10.22 m | 0.4, 0.5, 0.64, 0.76 m/s | 953–1814 kg

1 Click jack type for specific product specs

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

Inside clear height: 2235 mm
Minimum overhead (mm): Up to 0.5 m/s: Over 0.5 m/s: 1-Stage – 3708 1-Stage – 3785 2-Stage – 3861 2-Stage – 3861 3-Stage – 3937 3-Stage – 3937
Door clear height: 2134 mm
Minimum pit depth: 1219 mm
Safety beam required per OSHA 1926.502
Max travel possible (mm): 1
1-Stage: Up to 0.5 m/s – 5766 Over 0.5 m/s – 5690 2-Stage: 8687 3-Stage: 14,719

1 Max travel possible in note T (above) is obtained by adding 25 mm for every 25 mm (1-Stage) or 51 mm (2-Stage) or 76 mm (3-Stage) of net travel over the standard. Max increase 610 mm allowed in overhead. (For 2021 and 2268 kg capacities, max additional travel and speed could be reduced based on cab weights. Consult your thyssenkrupp Elevator representative for details.)
2 In areas where a 178 mm deep pit ladder is required, additional hoistway width or wall pocket will be required.
3 This capacity is not available with center-opening doors.
4 To meet the requirements of IBC code for 2134 mm stretchers, a 1219 mm center-opening (for 1814 kg capacity only) or 1067 mm side opening (for 1588 kg or 1814 kg capacity) door is required.
5 Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.
6 Provided and installed by others, as directed by your thyssenkrupp Elevator representative. Clear overhead is shown to the bottom of the safety beam.
7 For multiple elevators: Add 102 mm for a divider beam between hoistways.
8 Refer to page 14 for elevator machine room sizes.
Dimensional data shown above is for both seismic and non-seismic zones and complies with current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your thyssenkrupp Elevator representative for details.

1. Inside clear height: 2235 mm
2. Door clear height: 2134 mm
3. Minimum pit depth: 1219 mm
4. Max travel possible (mm): 1

1 Max travel possible in note T (above) is obtained by adding 25 mm for every 25mm (1-Stage) or 51 mm (2-Stage) or 76 mm (3-Stage) of net travel over the standard. Max increase 610 mm allowed in overhead. (For 2021 and 2268 kg capacities, max additional travel and speed could be reduced based on cab weights. Consult your thyssenkrupp Elevator representative for details.)
2. With optional 1372 mm two-speed side opening door, hoistway width becomes 2489 mm
3. Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.
4. Provided and installed by others, as directed by the local thyssenkrupp office. Clear overhead is shown to the bottom of the safety beam.
5. For multiple elevators: Add 102 mm for a divider beam between hoistways.
6. * Refer to page 14 for elevator machine room sizes.
Hydraulic with machine room

endura

Below-ground

<table>
<thead>
<tr>
<th>Passenger</th>
<th>Jack types</th>
<th>Travel</th>
<th>Speed</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>953 kg ²</td>
<td>Conventional</td>
<td>18.29 m</td>
<td>0.4, 0.5, 0.64, 0.76, 0.89, 1.0 m/s</td>
<td>953–1814 kg</td>
</tr>
<tr>
<td>953 kg ²</td>
<td>Conventional</td>
<td>2235 x 1753</td>
<td>F</td>
<td>1727 x 1295</td>
</tr>
<tr>
<td>1134 kg</td>
<td>Conventional</td>
<td>2540 x 1753</td>
<td>F</td>
<td>2032 x 1295</td>
</tr>
<tr>
<td>1134 kg</td>
<td>Conventional</td>
<td>2540 x 2051</td>
<td>F/R</td>
<td>2032 x 1308</td>
</tr>
<tr>
<td>1361 kg</td>
<td>Conventional</td>
<td>2540 x 1905</td>
<td>F</td>
<td>2032 x 1448</td>
</tr>
<tr>
<td>1361 kg</td>
<td>Conventional</td>
<td>2540 x 2203</td>
<td>F/R</td>
<td>2032 x 1460</td>
</tr>
<tr>
<td>1588 kg ³</td>
<td>One-speed</td>
<td>2540 x 2108</td>
<td>F</td>
<td>2032 x 1651</td>
</tr>
<tr>
<td>1588 kg ³</td>
<td>One-speed</td>
<td>2540 x 2407</td>
<td>F/R</td>
<td>2032 x 1664</td>
</tr>
<tr>
<td>1814 kg ³</td>
<td>One-speed</td>
<td>2845 x 2108</td>
<td>F</td>
<td>2337 x 1651</td>
</tr>
<tr>
<td>1814 kg ³</td>
<td>One-speed</td>
<td>2845 x 2407</td>
<td>F/R</td>
<td>2337 x 1664</td>
</tr>
</tbody>
</table>

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

1. Inside clear height: 2235 mm
2. Door clear height: 2134 mm
3. Minimum overhead (mm): Up to 0.5 m/s – 3658
   Over 0.5 m/s – 3734
4. Minimum pit depth: 1219 mm
5. Safety beam required per OSHA 1926.502
6. Standard jack hole depth: Travel + 1829 mm

1 In areas where a 178 mm deep pit ladder is required, additional hoistway width or wall pocket will be required.
2 This capacity is not available with center-opening doors.
3 To meet the requirements of IBC code for 2134 mm stretchers, a 1219 mm center-opening (for 1814 kg capacity only) or 1067 mm side opening (for 1588 kg or 1814 kg capacity) door is require.
4 Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.
5 Provided and installed by others, as directed by the local thyssenkrupp office. Clear overhead is shown to the bottom of the safety beam.
6 For multiple elevators: Add 102 mm for a divider beam between hoistways.

* Refer to page 14 for elevator machine room sizes.
Front opening (F)

- Hoistway width
- Hoistway depth
- Inside clear width
- Inside clear depth
- Door clear width
- Inside clear height
- Door clear height
- Minimum overhead
- Minimum pit depth
- Safety beam
- Travel
- Jack hole depth

Front and rear opening (F/R)

- Hoistway width
- Hoistway depth
- Inside clear width
- Inside clear depth
- Door clear width
- Inside clear height
- Door clear height
- Minimum overhead
- Minimum pit depth
- Safety beam
- Travel
- Jack hole depth

Two-speed side opening doors

Service elevator

<table>
<thead>
<tr>
<th>Capacity (kg)</th>
<th>Hoistway $A \times B$</th>
<th>Front/rear</th>
<th>Inside clear $C \times D$</th>
<th>Door type</th>
<th>Door width $E$</th>
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<tbody>
<tr>
<td>2041</td>
<td>2235 x 2908</td>
<td>F</td>
<td>1727 x 2375</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2041</td>
<td>2235 x 3283</td>
<td>F/R</td>
<td>1727 x 2588</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268</td>
<td>2235 x 3099</td>
<td>F</td>
<td>1727 x 2565</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268</td>
<td>2235 x 3473</td>
<td>F/R</td>
<td>1727 x 2578</td>
<td>Two-speed</td>
<td>1219/1372</td>
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<tr>
<td>2268H</td>
<td>2235 x 3277</td>
<td>F</td>
<td>1727 x 2743</td>
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<td>1219/1372</td>
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<tr>
<td>2268H</td>
<td>2235 x 3651</td>
<td>F/R</td>
<td>1727 x 2756</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
</tbody>
</table>

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

- Inside clear height: 2235 mm
- Door clear height: 2134 mm
- Minimum pit depth: 1219 mm
- Safety beam required per OSHA 1926.502
- Minimum overhead (mm): Up to 0.5 m/s – 3658
  Over 0.5 m/s – 3734
- Standard jack hole depth: Travel + 1829 mm

1. In areas where a 178 mm deep pit ladder is required, additional hoistway width or wall pocket will be required.
2. With optional 1372 kg two-speed side opening door, hoistway width becomes 2489 mm.
3. Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.
4. Provided and installed by others, as directed by the local thyssenkrupp office. Clear overhead is shown to the bottom of the safety beam.
5. For multiple elevators: Add 102 mm for a divider beam between hoistways.
6. Refer to page 14 for elevator machine room sizes.
Hydraulic elevator machine rooms

Your endura system determines the machine room you’ll need.*

The most desirable controller closet location is on the lowest floor served, adjacent to the elevator hoistway. At an additional cost, the machine room can be located remotely from hoistway.

Single-car configurations

<table>
<thead>
<tr>
<th>Power unit</th>
<th>A</th>
<th>B</th>
<th>C1</th>
<th>Door height</th>
<th>Room height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submersible (large)</td>
<td>2184</td>
<td>2172</td>
<td>1219</td>
<td>Min 2134</td>
<td>Min 2286</td>
</tr>
<tr>
<td>Dry (large)</td>
<td>2997</td>
<td>1676</td>
<td>1219</td>
<td>Min 2134</td>
<td>Min 2286</td>
</tr>
</tbody>
</table>

Dual-car configurations

<table>
<thead>
<tr>
<th>Power unit</th>
<th>D</th>
<th>E</th>
<th>F1</th>
<th>Door height</th>
<th>Room height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submersible (large)</td>
<td>3188</td>
<td>3188</td>
<td>1219</td>
<td>Min 2134</td>
<td>Min 2286</td>
</tr>
<tr>
<td>Dry (large)</td>
<td>4445</td>
<td>2153</td>
<td>1219</td>
<td>Min 2134</td>
<td>Min 2286</td>
</tr>
</tbody>
</table>

Smaller machine rooms available in some cases. Consult your thyssenkrupp Elevator representative if needed.

1 Clear opening.

* Consult your thyssenkrupp Elevator representative to help determine your needs, as machine room arrangements may vary from those shown.
Hydraulic MRL controller details

endura MRL controller

Our endura MRL is designed to maximize space by locating the controller in the elevator entrance jamb. As a result, we require a minimum 203 mm actual wall thickness at the floor where the controller will be located. The wall construction can be done with dry wall or masonry block. For installation purposes, however, the entire wall at the controller level must be left out until the elevator frame and controller are in place. The controller must be located at the landing directly above the lowest landing served by the elevator. If that is not possible, the location must be coordinated with your thyssenkrupp Elevator representative.

Note A: 203 mm minimum structural support for sill installation.

These illustrations are for reference purposes and not for construction purposes.
Flexible.  
Efficient.  
Smart.

Low-rise to mid-rise traction MRL

Traction elevators provide optimal ride quality, faster speeds and expend less time and energy to move people in your building.

Low-rise to mid-rise buildings, up to 35 floors, are ideal for commercial, residential and mixed-use spaces that provide retail space close to where people live and work. So choosing an elevator that is flexible, takes up less space and transports people efficiently is a smart move. Our mid-rise elevators are available in two configurations, self-supported and building supported. The machine room-less design will save leasable space and features our regenerative drive technology.

Save space.  
Saves up to 11 square meters traditionally used for a machine room.

Sustainability.  
Regenerative drive technology feeds generated power back into the building’s grid reducing energy costs.

Quality interiors.  
UL-validated, low-emitting materials exceed stringent indoor air quality standards.

We have disclosed the chemical make-up and earned Health Product Declarations on our standard line of elevator cabs.

_speed_ Speeds up to 3.0 m/s  
_capacity_ Capacities up to 2268 kg
evolution 200
Overview

18

evolution 200
Self supported

20

synergy
Self supported

22

synergy
Building supported

23

Support configurations
Self supported and building supported

26

Controller closets
Simplex and duplex

28
Don’t compromise. Choose evolution 200.

evolution 200 is a low- to mid-rise MRL elevator that was developed for you. Whether it’s increased speed, capacity or energy efficiency, you finally have an elevator that comes without compromises. You also get special features like regenerative drive and auto-rescue without paying extra. Best of all, everything fits into the hoistway.
Belts and small sheaves
Belts bend better than steel ropes, so sheaves are smaller.

Gearless system
Implements ride quality while increasing energy efficiency.

Belts and small sheaves
Belts bend better than steel ropes, so sheaves are smaller.

Gearless system
Improves ride quality while increasing energy efficiency.

Hoistway
Because evolution 200 uses smaller components, literally everything fits into its hoistway.

Overhead and pit
These are smaller giving you more leasable building space.

Machines
Our machines transport elevators up to 3.0 meters per second (m/s). There’s no machine room, so you have more leasable building space.

Rail-supported
Evolution 200 is supported entirely by its rails, rather than your building.

Controller
Fits into a tiny 203 mm door jamb and is fully-digital. Because there aren’t loud mechanical contactors, this elevator is extremely quiet.

Regenerative drive
Captures unused energy and feeds it back into your building grid. Comes standard in evolution 200.

Cab
Evolution 200 has up to 680 kilogram cab weight allowance depending on car configuration. This lets you choose heavy finishes, such as marble, and not slow your elevator.

LED lights
These come standard. You won’t have to change your lightbulbs for decades.

Standby mode
Fans and lights turn off when the elevator is not in use.
Low-rise to mid-rise traction elevators

### evolution 200

**Self supported**

<table>
<thead>
<tr>
<th>Travel</th>
<th>Speed</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>106.68 m</td>
<td>1.0–3.0 m/s</td>
<td>953–1814 kg</td>
</tr>
</tbody>
</table>

Click above for specific product specs

### Passenger elevator

<table>
<thead>
<tr>
<th>Capacity (kg)</th>
<th>Hoistway</th>
<th>Front/rear</th>
<th>Inside clear</th>
<th>Door type</th>
<th>Door width</th>
</tr>
</thead>
<tbody>
<tr>
<td>953</td>
<td>2286 x 1753</td>
<td>F</td>
<td>1727 x 1305</td>
<td>One-speed</td>
<td>914</td>
</tr>
<tr>
<td>1134</td>
<td>2591 x 1753</td>
<td>F</td>
<td>2032 x 1305</td>
<td>One-speed</td>
<td>1067</td>
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<td>1134</td>
<td>2591 x 2042</td>
<td>F/R</td>
<td>2032 x 1318</td>
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<td>1067</td>
</tr>
<tr>
<td>1361</td>
<td>2591 x 1905</td>
<td>F</td>
<td>2032 x 1448</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1361</td>
<td>2591 x 2184</td>
<td>F/R</td>
<td>2032 x 1461</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1588</td>
<td>2591 x 2108</td>
<td>F</td>
<td>2032 x 1651</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1588</td>
<td>2591 x 2388</td>
<td>F/R</td>
<td>2032 x 1664</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1814</td>
<td>2896 x 2108</td>
<td>F</td>
<td>2337 x 1651</td>
<td>One-speed</td>
<td>1067/1219</td>
</tr>
<tr>
<td>1814</td>
<td>2896 x 2388</td>
<td>F/R</td>
<td>2337 x 1664</td>
<td>One-speed</td>
<td>1067/1219</td>
</tr>
</tbody>
</table>

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

1. Inside clear heights of 2540 mm and 2845 mm are also available. Dimension shown is the distance between the suspended ceiling and a maximum 19 mm finished floor. If 20 mm finished floor, the inside clear height increases to 2245 mm.

2. This capacity is not available with center opening doors.

3. For non-seismic installations, add 25 mm to hoistway width when travel exceeds 30.48 m. For seismic Zone 2 or greater or IBC equivalent, add 51 mm to hoistway width if travel is greater than 76.2 m. For seismic Zone 3 or greater or IBC equivalent, add 76 mm to hoistway width if travel is greater than 76.2 m.

4. To meet the requirements of IBC code for 2134 mm stretchers, a 1219 mm center opening (for 1814 kg capacity only) or 1067 mm side opening (for 1588 kg or 1814 kg capacity) door is required.

5. For areas enforcing ASME A17.1 2010 code or greater, the minimum overhead requirement is the same for simplex/multi car/seismic/non-seismic. For areas enforcing pre-2010 ASME A17.1 code and speed is equal to 1.0 m/s, the minimum overhead is still the same, but if speed increases to 1.78 m/s or more, the minimum overhead is greater than what is shown.

6. Provided and installed by others, as directed by the local thyssenkrupp Elevator office. Minimum overhead is shown to the bottom of the safety beam.

7. Clear inside cab is based on maximum 13 mm applied wall panel.

8. No occupied space allowed below pit.

9. Door clear height of 2438 mm is also available for taller cabs but contact your local representative for additional details.

10. Minimum pit depth increases to 1981 mm on a 1814 kg capacity car, 1.78 m/s when it exceeds 68.58 m of travel because it needs a compensation wheel for balancing the car.

11. For multiple elevators: Add 102 mm for a divider beam between hoistways.
evolution 200

Low-rise to mid-rise traction elevators

Self supported

<table>
<thead>
<tr>
<th>Travel</th>
<th>Speed</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>106.68 m</td>
<td>1.0–3.0 m/s</td>
<td>953–1814 kg</td>
</tr>
</tbody>
</table>

Click above for specific product specs

Service elevator

<table>
<thead>
<tr>
<th>Capacity (kg)</th>
<th>Hoistway A x B</th>
<th>Front/rear C x D</th>
<th>Door type</th>
<th>Door width E</th>
</tr>
</thead>
<tbody>
<tr>
<td>2041</td>
<td>2286 x 2908</td>
<td>F</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2041</td>
<td>2286 x 3264</td>
<td>F/R</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268</td>
<td>2286 x 3099</td>
<td>F</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268</td>
<td>2286 x 3454</td>
<td>F/R</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268H</td>
<td>2286 x 3277</td>
<td>F</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268H</td>
<td>2286 x 3633</td>
<td>F/R</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
</tbody>
</table>

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

- Inside clear height: 2235 mm
- Door clear height: 2134 mm
- 203 mm safety beam (51 mm clear above) capable of holding 3402 kg
- Minimum overhead: 4.5
- Minimum pit depth: 7

1 Inside clear heights of 2540 mm and 2845 mm are also available. Dimension shown is the distance between the suspended ceiling and a maximum 19 mm finished floor. If 10 mm finished floor, the inside clear height increases to 2245 mm.
2 For 1372 mm doors, hoistway width increases to 2515 mm for non-seismic and seismic.
3 For 1219 mm doors, see note 3.
4 For non-seismic installations, add 25 mm to hoistway width when travel exceeds 30.48 m.
5 For seismic Zone 2 or greater or IBC equivalent, add 152 mm to hoistway width if travel is greater than 76.2 m.
6 For areas enforcing ASME A17.1 2010 code or greater, the minimum overhead requirement is the same for simplex/multi car/seismic/non-seismic. For areas enforcing pre-2010 ASME A17.1 code and speed is equal to 1.0 m/s, the minimum overhead is still the same, but if speed increases to 1.78 m/s or more, the minimum overhead is greater than what is shown.
7 Provided and installed by others, as directed by the local thyssenkrupp Elevator office. Minimum overhead is shown to the bottom of the safety beam.
8 Clear inside cab is based on maximum 13 mm applied wall panel.
9 No occupied space allowed below pit.
10 Door clear height of 2438 mm is also available for taller cabs but contact your local representative for additional details.
11 For multiple elevators: Add 102 mm for a divider beam between hoistways.
synergy

Self supported

Max Travel Speed Capacity

<table>
<thead>
<tr>
<th></th>
<th>Max Travel</th>
<th>Speed</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25.90 m</td>
<td>0.76 m/s</td>
<td>953–1588 kg</td>
</tr>
</tbody>
</table>

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

1 Inside clear height: 2203 mm
2 Minimum pit depth: 1524 mm
3 Safety beam required per OSHA 1926.502

Click above for specific product specs
Low-rise to mid-rise traction elevators

Building supported – standard

Max Travel  Speed  Capacity

91.44 m  1.0, 1.78 m/s  1134–1814 kg

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

**Passenger standard**

<table>
<thead>
<tr>
<th>Capacity (kg)</th>
<th>Hoistway 2,3 A x B</th>
<th>Front/ rear</th>
<th>Inside clear C x D</th>
<th>Door type</th>
<th>Door width E</th>
</tr>
</thead>
<tbody>
<tr>
<td>1134</td>
<td>2540 x 2032 4</td>
<td>F</td>
<td>2032 x 1295</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1134</td>
<td>2794 x 1753 5</td>
<td>F</td>
<td>2032 x 1295</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1361</td>
<td>2540 x 2184 4</td>
<td>F</td>
<td>2032 x 1448</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1361</td>
<td>2794 x 1905 5</td>
<td>F</td>
<td>2032 x 1448</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1588 7,6</td>
<td>2540 x 2388 4</td>
<td>F</td>
<td>2032 x 1651</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1588</td>
<td>2794 x 2108 5</td>
<td>F</td>
<td>2032 x 1651</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1814 7,5</td>
<td>2845 x 2388 4</td>
<td>F</td>
<td>2337 x 1651</td>
<td>One-speed</td>
<td>1067/1219</td>
</tr>
<tr>
<td>1814</td>
<td>3099 x 2108 5</td>
<td>F</td>
<td>2337 x 1651</td>
<td>One-speed</td>
<td>1067/1219</td>
</tr>
<tr>
<td>1814</td>
<td>3099 x 2407 5</td>
<td>F/R</td>
<td>2337 x 1664</td>
<td>One-speed</td>
<td>1067</td>
</tr>
</tbody>
</table>

---

1 Inside clear heights up to 2813 available in 25 mm increments. Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.
2 To meet the requirements of IBC code for 2134 mm stretchers, a 1219 mm center-opening (for 1814 kg capacity only) or 1067 mm side opening (for 1518 or 1814 kg capacity) door is required.
3 1.0 m/s unavailable for 1814 kg capacity.
4 For Seismic Zones 2 or greater, add 102 mm to hoistway width.
5 Configuration with side counterweight on front opening arrangement.
6 Provided and installed by others, as directed by local thyssenkrupp office. Minimum overhead is shown to bottom of the safety beam.
7 Occupied space is allowed below pit, but increases minimum hoistway and clear overhead dimension. Consult your thyssenkrupp representative for increased dimensions.
8 For multiple elevators: Add 102 mm for a divider beam between hoistways.
Low-rise to mid-rise traction elevators

synergy

Building supported – performance

<table>
<thead>
<tr>
<th>Travel</th>
<th>Speed</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>91.44 m</td>
<td>1.0, 1.78, 2.5 m/s</td>
<td>953–1814 kg</td>
</tr>
</tbody>
</table>

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

- Inside clear height: 2235 mm
- Door clear height: 2134 mm
- Safety beam required per OSHA 1926.502

<table>
<thead>
<tr>
<th>Capacity (kg)</th>
<th>Hoistway A x B</th>
<th>Front/rear Inside clear C x D</th>
<th>Door type</th>
<th>Door width E</th>
</tr>
</thead>
<tbody>
<tr>
<td>953 ²</td>
<td>2235 x 2032 ⁴</td>
<td>F 1727 x 1295</td>
<td>One-speed</td>
<td>914</td>
</tr>
<tr>
<td>1134</td>
<td>2540 x 2032 ⁴</td>
<td>F 2032 x 1295</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1134</td>
<td>2794 x 2051 ⁵</td>
<td>F/R 2032 x 1308</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1361</td>
<td>2540 x 2184 ⁴</td>
<td>F 2032 x 1448</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1361</td>
<td>2794 x 2203 ⁵</td>
<td>F/R 2032 x 1461</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1588 ³</td>
<td>2540 x 2388 ⁴</td>
<td>F 2032 x 1651</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1588 ³</td>
<td>2794 x 2407 ⁵</td>
<td>F/R 2032 x 1664</td>
<td>One-speed</td>
<td>1067</td>
</tr>
<tr>
<td>1814 ³</td>
<td>2845 x 2388 ⁴</td>
<td>F 2337 x 1651</td>
<td>One-speed</td>
<td>1067/1219</td>
</tr>
</tbody>
</table>

- Minimum overhead (mm): ¹
  - 1.0 m/s: 4877
  - 1.78 m/s: 5029
  - 2.5 m/s: 5334
- Minimum pit depth (mm): ⁶
  - 1.0 m/s: 1524
  - 1.78 m/s: 1524
  - 2.5 m/s: 1981

² Inside clear heights available in 25 mm increments. Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.
³ This capacity is not available with center opening doors.
⁴ To meet the requirements of IBC code for 2134 mm stretchers, a 1219 mm center-opening (for 1814 kg capacity only) or 1067 mm side opening (for 1518 or 1814 kg capacity) door is required.
⁵ For Seismic Zones 2 or greater, add 102 mm to hoistway width and 51 mm to hoistway depth.
⁶ For Seismic Zones 2 or greater, add 178 mm to hoistway width.
⁷ Occupied space is allowed below pit, but increases minimum hoistway and clear overhead dimensions. Consult with your thyssenkrupp representative for increased dimensions.
⁸ Provided and installed by others, as directed by the local thyssenkrupp office. Minimum overhead is shown to the bottom of the safety beam.
⁹ For multiple elevators: Add 102 mm for a divider beam between hoistways.
Low-rise to mid-rise traction elevators

Building supported – performance

<table>
<thead>
<tr>
<th>Travel</th>
<th>Speed</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>91.44 m</td>
<td>1.0, 1.78, 2.5 m/s</td>
<td>2041–2268 kg</td>
</tr>
</tbody>
</table>

Service performance

<table>
<thead>
<tr>
<th>Capacity (kg)</th>
<th>Hoistway (^3)</th>
<th>Front/ rear</th>
<th>Inside clear (C \times D)</th>
<th>Door type</th>
<th>Door width (^3)</th>
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<tbody>
<tr>
<td>2041</td>
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<td>1727 x 2375</td>
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<td>1219/1372</td>
</tr>
<tr>
<td>2041</td>
<td>2489 x 3283</td>
<td>F/R</td>
<td>1727 x 2388</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268</td>
<td>2489 x 3099</td>
<td>F</td>
<td>1727 x 2565</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268</td>
<td>2489 x 3473</td>
<td>F/R</td>
<td>1727 x 2578</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268H</td>
<td>2489 x 3277</td>
<td>F</td>
<td>1727 x 2743</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
<tr>
<td>2268H</td>
<td>2489 x 3651</td>
<td>F/R</td>
<td>1727 x 2756</td>
<td>Two-speed</td>
<td>1219/1372</td>
</tr>
</tbody>
</table>

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

1. Inside clear cab heights available in 25 mm increments. Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.

2. With optional 1372 mm two-speed side opening door, hoistway width remains 2489 mm.

3. For Seismic Zones 2 or greater, add 178 mm to hoistway width.

4. Occupied space is allowed below pit, but increases minimum hoistway and overhead dimension. Consult your thyssenkrupp representative for increased dimensions.

5. For multiple elevators: Add 102 mm for a divider beam between hoistways.

6. Provided and installed by others, as directed by the local thyssenkrupp office. Minimum overhead is shown to the bottom of the safety beam.
Support configurations

Our MRL traction elevators come in two different configurations: self supported and building supported. Let’s see which one is right for your building.

Self supported

- Supported by elevator rails
- Block or wood construction not intended to carry the loads of an elevator system.
- Travel distance up to 25.90 m; car capacities up to 1588 kg and speeds up to 0.76 m/s. Choose synergy.
- Travel distance up to 106.68 m; car capacities up to 2268 kg and speeds up to 3.0 m/s. Choose evolution 200.
- Standard and upgraded finishes and flooring.

Building supported

- Supported by building
- Steel, concrete or other construction methods capable of carrying the loads of an elevator system
- Buildings with travel distance up to 91.44 m
- Elevators with capacities up to 2268 kg and speeds up to 2.5 m/s
- Standard and upgraded finishes and flooring.

The self supported configuration enables the loads imposed by the elevator system to be transferred from the machine at the top of the hoistway, down the guide rails, to the pit below.

The building supported configuration requires structural support by the building. As a result, this elevator is able to achieve faster speeds and higher capacities.
Building supported connection details

Machine beam supported in beam pocket on sides or front or back of hoistway

Machine beam supported by steel beam on sides or front or back of hoistway

Machine beam supported in beam pocket

Machine beam supported by steel beam

Beam by others
Controller closets

The features of your MRL traction 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.

Simplex

evolution

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>1372 mm</td>
<td>610 mm</td>
<td>914 mm</td>
</tr>
<tr>
<td>Medium</td>
<td>1168 mm</td>
<td>1397 mm</td>
<td>914 mm</td>
</tr>
<tr>
<td>Large</td>
<td>1372 mm</td>
<td>1803 mm</td>
<td>1067 mm</td>
</tr>
</tbody>
</table>

synergy self supported

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>1676 mm</td>
<td>1930 mm</td>
<td>914 mm</td>
</tr>
<tr>
<td>Performance</td>
<td>1524 mm</td>
<td>1803 mm</td>
<td>914 mm</td>
</tr>
</tbody>
</table>

synergy building supported

Dimensional data shown above is for both evolution and synergy, seismic and non-seismic zones and complies with current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes.

At an additional cost, it may be located remotely, but must be within 45.72 meters of wire length from motor to controller.

*If local jurisdiction or building codes dictate using a control room or closet for evolution, consult your thyssenkrupp Elevator representative for details.
**Duplex**

**evolution**

Small

Large

**synergy self supported**

Small

Large

**synergy building supported**

Standard

Performance

---

**evolution 200 duplex**

<table>
<thead>
<tr>
<th>Size</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>1676 mm</td>
<td>1651 mm</td>
<td>914 mm</td>
</tr>
<tr>
<td>Large</td>
<td>2794 mm</td>
<td>1651 mm</td>
<td>914 mm</td>
</tr>
</tbody>
</table>

**synergy self supported duplex**

<table>
<thead>
<tr>
<th>Size</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>2134 mm</td>
<td>1676 mm</td>
<td>914 mm</td>
</tr>
<tr>
<td>Large</td>
<td>2134 mm</td>
<td>2337 mm</td>
<td>914 mm</td>
</tr>
</tbody>
</table>

**synergy building supported duplex**

<table>
<thead>
<tr>
<th>Size</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>2591 mm</td>
<td>1829 mm</td>
<td>914 mm</td>
</tr>
<tr>
<td>Performance</td>
<td>3048 mm</td>
<td>1803 mm</td>
<td>914 mm</td>
</tr>
</tbody>
</table>

* Consult your thyssenkrupp Elevator representative to help determine your needs for your evolution 200 or synergy self supported installation.

1 Devices are stacked in duplex configuration.

2 Controller closet temperature range 0°C minimum, 40°C maximum. 10-95% non-condensing relative humidity.

3 May also use two separate closets.
Mid-rise to high-rise traction

When height and speed are essential, our high-rise elevators can adapt to your vision as quickly as we can move people.

The world’s high-rise buildings are skyrocketing to over 610 m. And our elevators can reach the top because of advanced technology and the creativity of our most experienced engineers. The result is an elevator that moves with precision and speed, while remaining remarkably energy-efficient and reliable. There are few restrictions on travel height and with speeds up to 10.2 m/s, the technology can be adapted to buildings that truly want it all.

Superior efficiency.
AC Gearless machine improves efficiency.

Sustainability.
Regenerative-drive technology feeds generated power back into the building’s grid to reduce energy costs.

Interior quality.
UL-validated, low-emitting materials exceed indoor air quality standards.

Capacities up to 2268 kg

Speeds 1.78 – 10.2 m/s
Mid-rise to high-rise traction elevators

**momentum**

Passenger standard and performance

<table>
<thead>
<tr>
<th>Travel</th>
<th>Speed</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>91.44 m</td>
<td>1.78, 2.5 m/s</td>
<td>953–1814 kg</td>
</tr>
<tr>
<td>251.46 m</td>
<td>3.56, 5.1, 6.1 m/s</td>
<td>1134–1814 kg</td>
</tr>
</tbody>
</table>

Click above for specific product specs

* Higher travel, faster speed, and higher capacity available.

---

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

- **Pit depth:** 1, 2
  - 1.78 m/s: 1524 mm
  - 2.5 m/s: 1981 mm
  - 3.56 m/s: 1981 mm
  - 5.0 m/s: 3505 mm
  - 6.1 m/s: 6858 mm

- **Inside clear height:** 2235 mm

- **Door clear height:** 2134 mm

- **Minimum overhead:** 7
  - 1.78 m/s: 4648 mm
  - 2.5 m/s: 5029 mm
  - 3.56 m/s: 6096 mm
  - 5.0 m/s: 7518 mm
  - 6.1 m/s: 8280 mm

- **Safety beam required per OSHA 1926.502**

- **Minimum machine room height:** 2
  - Standard: 2286 mm
  - Performance: 2946 mm

- **Minimum machine room depth:** 2
  - Standard: 4877 mm
  - Performance: 5486 mm

---

1. This capacity is not available with center-opening doors.
2. To meet the requirements of IBC code for 2134 mm stretchers, a 1219 mm center-opening (for 1814 kg capacity only) or 1067 mm side opening (for 1588 or 1814 kg capacity) door is required.
3. For seismic conditions, add 152 mm to hoistway width.
4. Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.
5. Provided and installed by others, as directed by the local thyssenkrupp office. Minimum overhead is shown to the bottom of the safety beam.
6. For non-seismic conditions on 5.1 m/s speeds, add 51 mm to hoistway width. For 6.1 m/s speeds, add 51 mm to hoistway width and 102 mm to depth. For seismic conditions on 1.78 and 2.5 m/s speeds, add 102 mm to hoistway width and 76 mm to depth. For 3.56 m/s speeds, add 102 mm to hoistway width and 51 mm to depth. For 5.1 and 6.1 m/s speeds, add 127 mm to hoistway width and 102 mm to depth.
7. Minimum overhead and pit can be reduced in some cases, consult your thyssenkrupp Elevator representative if required.
8. Occupied space below the pit increases hoistway size.
9. For multiple elevators: Add 102 mm for a divider beam between hoistways.
Front opening (F)

- A: Hoistway width
- B: Hoistway depth
- C: Inside clear width
- D: Inside clear depth
- E: Door clear width
- F: Inside clear height
- G: Door clear height
- H: Minimum overhead
- I: Pit depth
- J: Car top railing
- K: Safety beam
- L: Travel
- M: Machine room depth
- N: Machine room height

Two-speed side opening doors

Front and rear opening (F/R)

- A: Hoistway width
- B: Hoistway depth
- C: Inside clear width
- D: Inside clear depth
- E: Door clear width
- F: Inside clear height
- G: Door clear height
- H: Minimum overhead
- I: Pit depth
- J: Car top railing
- K: Safety beam
- L: Travel
- M: Machine room depth
- N: Machine room height

Two-speed side opening doors

Mid-rise to high-rise traction elevators

Service standard

<table>
<thead>
<tr>
<th>Travel</th>
<th>Speed</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>91.44 m</td>
<td>1.78, 2.5 m/s</td>
<td>2041–2268 kg</td>
</tr>
</tbody>
</table>

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

- **Pit depth:**
  - 1.78 m/s: 1524 mm
  - 2.5 m/s: 1981 mm

- **Inside clear height:**
  - 2235 mm

- **Safety beam required per OSHA 1926.502**

- **Minimum machine room height:**
  - Standard: 2286 mm

- **Minimum overhead:**
  - 1.78 m/s: 4572 mm
  - 2.5 m/s: 5029 mm

- **Door clear height:**
  - 2134 mm

1. Dimension shown is based on suspended ceiling design. An increase in cab height will result in an increase in overhead requirements.
2. Provided and installed by others, as directed by the local thyssenkrupp office. Minimum overhead is shown to the bottom of the safety beam.
3. Minimum overhead and pit can be reduced in some cases, consult your thyssenkrupp Elevator representative if required.
4. Occupied space below the pit increases hoistway size.
5. For multiple elevators: Add 102 mm for a divider beam between hoistways.
Interior design

Cab interiors can take on a beautiful form while they function, so we give you choices. Customize your own or choose from our upgraded cabs and let us do the work.

Choose signals, fixtures, door types and entrance finishes to create your cab interior. Select woods, textures, patterns, metals and colors to design a cab that conveys the look and feel of your building. Our products are environmentally friendly because taking even the smallest steps to be greener can make a lasting impression on the world we live in. We offer a complete line of elevator interiors free from wood products containing added urea-formaldehyde. We also utilize powder coating as opposed to solvent-based paint and are validated by a third party (UL Underwriters Laboratories) to be low-emitting.

Quality materials
Durable, environmentally-safe finishes and wood materials.

Reliable lighting
Low-voltage, energy-saving LED lights are standard.

Energy saving
Auto shut-off fans and lights conserve energy.

Beautiful.
Customizable.
Safe.
**Cab designs**
Laminate, steel shell and applied panel

**Finishes**
Color selections

**Accessories**
Ceilings, handrails and sills

**Fixtures**
Standard and upgraded

**Upgraded and custom Cabs**

**Door and entrance Configurations**
Wood core laminate wall design
Create an impressive design with our wide variety of standard options. Walls include a laminate finish on a quality wood core. This cost-conscious choice is practical and durable.

Wall finish options
Plastic laminates

<table>
<thead>
<tr>
<th>Woods</th>
<th>Solids</th>
<th>Patterns</th>
</tr>
</thead>
</table>

Base finish options
Powder coats

<table>
<thead>
<tr>
<th>Metals</th>
</tr>
</thead>
</table>
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 or can be upgraded to stainless steel.

**Wall finish options**

<table>
<thead>
<tr>
<th>Powder coats</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Metallics</td>
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<td>Metals</td>
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</tbody>
</table>

**Base finish options**

<table>
<thead>
<tr>
<th>Powder coats</th>
<th></th>
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<td>Metallics</td>
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<td>Metals</td>
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</tr>
</tbody>
</table>
Applied panel

Steel shell wall with applied 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.

<table>
<thead>
<tr>
<th>Panel finish options</th>
<th>Plastic laminates</th>
<th>Wood veneer and metals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Woods</td>
<td><img src="image1" alt="Wood Options" /></td>
<td><img src="image2" alt="Wood Options" /></td>
</tr>
<tr>
<td>Solids</td>
<td><img src="image3" alt="Solids Options" /></td>
<td><img src="image4" alt="Solids Options" /></td>
</tr>
<tr>
<td>Patterns</td>
<td><img src="image5" alt="Patterns Options" /></td>
<td><img src="image6" alt="Patterns Options" /></td>
</tr>
</tbody>
</table>

Reveal, base, frieze finish options
Powder coats

<table>
<thead>
<tr>
<th>Powder coats</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7" alt="Powder Coats" /></td>
</tr>
</tbody>
</table>
# Finishes

## Plastic laminates

### Woods

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>6206</td>
<td>Planked Deluxe Pear</td>
</tr>
<tr>
<td>7759</td>
<td>Select Cherry</td>
</tr>
<tr>
<td>8902</td>
<td>White Painted Wood</td>
</tr>
<tr>
<td>8905</td>
<td>Waxed Maple</td>
</tr>
<tr>
<td>8906</td>
<td>Orange Maple</td>
</tr>
<tr>
<td>8907</td>
<td>Fox Teakwood</td>
</tr>
<tr>
<td>8908</td>
<td>Storm Teakwood</td>
</tr>
<tr>
<td>8915</td>
<td>Walnut Fiberwood</td>
</tr>
<tr>
<td>8916</td>
<td>Blackened Fiberwood</td>
</tr>
</tbody>
</table>

## Wood veneer

### Woods

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>461-1</td>
<td>Premium Mahogany</td>
</tr>
<tr>
<td>461-2</td>
<td>Premium Walnut</td>
</tr>
<tr>
<td>461-3</td>
<td>Premium Maple</td>
</tr>
<tr>
<td>461-4</td>
<td>Premium Cherry</td>
</tr>
<tr>
<td>462-1</td>
<td>Premium Red Oak</td>
</tr>
</tbody>
</table>

## Solids

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>7197</td>
<td>Dover White</td>
</tr>
<tr>
<td>464</td>
<td>Graysone</td>
</tr>
<tr>
<td>8792</td>
<td>Winter Sky Matte</td>
</tr>
<tr>
<td>839</td>
<td>Stop Red</td>
</tr>
<tr>
<td>8795</td>
<td>Manns Blue</td>
</tr>
<tr>
<td>8794</td>
<td>Enamel</td>
</tr>
</tbody>
</table>

## Patterns

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>8826</td>
<td>Neutral Twill</td>
</tr>
<tr>
<td>8827</td>
<td>Sarum Twill</td>
</tr>
<tr>
<td>8958</td>
<td>Bubbell Art</td>
</tr>
</tbody>
</table>

## Powder coats

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-105</td>
<td>Cedar Brown</td>
</tr>
<tr>
<td>F-112</td>
<td>Paint Black</td>
</tr>
<tr>
<td>F-119</td>
<td>Chalk Bead</td>
</tr>
<tr>
<td>F-120</td>
<td>Hibiscus</td>
</tr>
<tr>
<td>F-121</td>
<td>Clover</td>
</tr>
<tr>
<td>F-122</td>
<td>Whistle Red</td>
</tr>
<tr>
<td>F-124</td>
<td>Coral Cotten</td>
</tr>
<tr>
<td>F-125</td>
<td>Chai</td>
</tr>
<tr>
<td>F-126</td>
<td>Mustard Seed</td>
</tr>
<tr>
<td>F-127</td>
<td>Field Coat</td>
</tr>
<tr>
<td>F-128</td>
<td>Prairie Grass</td>
</tr>
<tr>
<td>F-129</td>
<td>Elephant Ear</td>
</tr>
<tr>
<td>F-130</td>
<td>Blue Patina</td>
</tr>
<tr>
<td>F-131</td>
<td>Smoked Silver</td>
</tr>
<tr>
<td>F-132</td>
<td>Toasted Cotton</td>
</tr>
<tr>
<td>F-133</td>
<td>Reclaimed Gray</td>
</tr>
</tbody>
</table>

## Metals

<table>
<thead>
<tr>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bronze¹</td>
</tr>
<tr>
<td>SWL Stainless Steel¹</td>
</tr>
<tr>
<td>Brushed Stainless Steel</td>
</tr>
<tr>
<td>Polished Stainless Steel¹</td>
</tr>
</tbody>
</table>

Colors may vary. We recommend examining a large selector sheet before making a selection.

¹ Requires special pricing.
Cab accessory options

Ceilings

**Basic flat**
Exposed cab top with optional recessed lighting is available in a powder coated steel finish. Ideal for service cars.

**Downlight**
Metal pan downlight ceiling features LED lighting. Lights are mounted in your choice of powder coated or stainless steel ceiling panels.

**Suspended**
White translucent diffusers for LED lighting are available with ceiling frames in a powder coated, aluminum or stainless steel finish.

**Island downlight**
Particle board core faced with your choice of plastic laminate, stainless steel or bronze. Houses a concealed emergency exit, as well as concealed metal framework.

Handrails

**Cylindrical**
38 mm cylindrical handrail is a continuous metal form with ends turned toward the wall. We also offer straight endcaps in lieu of the returned ends. Comes in brushed stainless steel.

**Flat bar**
Metal bar handrail is available in 6 mm thickness and 51 mm, 102 mm, or 152 mm widths. Comes in brushed stainless steel.

Sills

Our cab sill finishes allow you to match your sills to any other design component inside the cab. The standard sill design is aluminum or bronze. You can upgrade the finish to nickel silver for maximum durability.

**Aluminum**

**Nickel silver**

Braille

**Option 1**
Resin braille plate with raised floor and elevator identification. Adhered to door jamb.

**Option 2**
Surface mount cast Braille plate with raised floor elevator identification.

**Option 3**
Flush (inlaid) mount cast Braille plate with raised floor elevator identification.

---

¹ Comes standard. Finishes may vary based on your project selections. ² Lighting options may vary depending on cab size. ³ Not available on all models.
Standard fixtures

Signa4

**Product details**

- **Satin stainless-steel finish with charcoal trim**
- **Allows for renovation of metal finish without requiring removal of box or frame**
Upgraded fixtures

Traditional

- Car operating panel
- Intermediate hall lantern and car riding lantern with arrows
- Terminal hall lantern
- Intermediate hall station
- Position indicator with directional arrows
- Intermediate hall station with fire services devices
- Push button available in blue, white, red and green LED lighting

Product details:
- Faceplates in brushed or polished stainless steel
- Position indicator displays car location with matrix of red LED-illuminated dots
- Buttons available with white, blue, red or green LED lighting
Vandal resistant

Car operating panel
Terminal hall lantern with arrow
Intermediate hall lantern with arrow
Intermediate hall station with fire services, appendix H and appendix O signage
Terminal hall station with fire service key switch
Combo hall lantern and position indicator With directional arrows
Intermediate hall station With fire services devices
Push button Available in red, blue, white and green LED lighting

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
Piece together perfection.
Upgraded cabs

Easy cab design
Get the look of custom-designed interiors without the custom price tag. Choose from pre-designed arrangements and finish options. Our three-step approach will keep your schedule and budget in line.

Innovative clip system for a quicker, quieter and cleaner install

Custom-designed look without the custom price tag

Additional arrangements available

Carpets by others. Configurations shown above include standard and optional selections. Colors may vary. We recommend examining a large selector sheet before making a choice.
As unique as your building.
Custom cabs

Use the materials and colors of your choice.

Complement your décor or make a design statement.

Custom design

Elevator cab interiors are a blank slate. We can help you customize to tastefully complement your building’s décor or make a statement with a unique design.
Door configurations

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

**Most economical**

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

**Wider door opening**

**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)

**Best for high traffic**

**Center opening**
Permits the quickest entry and exit, improving elevator service while giving an attractive, symmetrical appearance.

*Door configurations may vary based on elevator system chosen.*
Entrance details

Transoms

Arrangement 1: standard height
This transom arrangement features a top panel that spans the width of the door and mounts flush with the entrance frame. The panel height is variable but limited based on the wall construction type – 102 mm max height for drywall and 305 mm max height for masonry walls. Finish options available to match the entrance frame, which include the powder coat and metal options featured on page 39.

Arrangement 3: full height
This transom arrangement is used to close in the hoistway opening and features extended height columns with a 51 mm trim panel across the top. The panel has a variable height and inset as shown above and can include a cutout for an elevator hall signal fixture. Finish options are available to match the entrance frame, which include the powder coat and metal options featured on page 39.

Entrance wall construction

Drywall type

Masonry type

Standard sill supports

Center opening and one-speed doors

Two-speed doors

Front walls should be left out until entrances are set in place or leave a minimum rough opening that is 381 mm wider and 381 mm higher than frame opening of doorway.

Sill support details shown above are for thyssenkrupp Elevator’s standard entrance design.

These diagrams show wall thickness and construction detail required in order to supply a minimum fire resistance rating of 1½ hours. Warnock Hersey Label on entrances. The dimension shown (89 mm) is the minimum wall thickness.
Intelligent.
Innovative.
Sustainable.

Innovations and enhancements

Raise the standard in safety, sustainability and performance with thyssenkrupp’s innovations.

Your elevator system becomes more agile with our intelligent control system that reduces wait times and keeps your elevators secure. Move more people in fewer elevator shafts with the TWIN elevator system that operates two cabs in one hoistway.

Predictive and pre-emptive maintenance is provided with the Internet of Things-enabled MAX. And employ the absolute latest emergency exit equipment with our “first in the industry” evacuation solution that utilizes elevators.

We’re also at the forefront of our industry when it comes to sustainability. From elevator products to lighting to LEED-certified manufacturing facilities; we are taking the right actions today for a better world tomorrow.

thyssenkrupp has over 200 LEED professionals to help guide our customers as they build projects with tomorrow in mind.

LEED
GREEN
ASSOCIATE
This is AGILE.
For quicker, smarter, more flexible elevators
Four intelligent elements to enhance your elevators

Introducing AGILE — an innovative family of elevator enhancers from thyssenkrupp designed to make your elevator system quicker, smarter and more flexible.

With smarter elevator operation, you’ll be able to make your building more efficient. With customization, you’ll be able to make it yours. With flexible security, you’ll be able to better control access. With comprehensive data and reporting, you’ll be able to make it a better elevator experience for both passengers and management.

The AGILE elevator enhancer solution includes four intelligent elements that can improve performance, enhance aesthetics, reduce traffic and much more.

**Destination Controls**
Elevate the efficiency of your current system and move people like never before.

**Design Center**
Customize the graphic interface of your kiosks for a richer user experience.

**Security Access**
Heighten a new or existing security system with our adaptable, turnkey solutions.

**Management Center**
Remotely manage the performance of your system to forecast for the future.
TWIN. A precise and efficient elevator system.
The TWIN® elevator system has two cars, arranged on top of each other, that operate in one hoistway. Each elevator has its own traction drive, controller, ropes, counterweight and governor and share the same guide rails and landing doors. The cars move independently in the hoistway. However, they always maintain a minimum separation.

TWIN motors are in perfect sync and harmony. Motors operate independently and efficiently on top of one shaft.

Fully certified by the German TÜV inspectorate — the most stringent and rigorous safety standard an elevator can attain.
Safety is standard with TWIN

We provide four levels of safety to prevent TWIN cabs in the same hoistway from getting too close to each other.

1. Intelligent allocation of calls
   Requests are always distributed by the Destination Controls so elevator cars do not obstruct each other and a minimum distance is always observed.

2. Emergency stop function
   If the safety distance is breached, the system shuts down the drives and activates the brakes, which triggers an emergency stop for both elevator cars.

3. Minimum safety distances
   The minimum separation is constantly monitored automatically. In order to avoid an emergency stop, the system will stop at the next landing to allow the other car to move on before continuing to its destination.

4. Automatic safety gear
   The safety gears of both elevator cars are activated in the very unlikely event that the first three safety stages fail or there is an insufficient deceleration of the elevator cars. It is not possible for the elevator cars to make contact.

TWIN is in compliance with ASME A17.7/CSA B44.7; A17.7 specifically intended for new elevator technology and practices.

Safety level 3 and 4 will be monitored by an independent control system according to IEC EN 61508 — giving TWIN the highest safety classification of Safety Integrity Level 3 (SIL3). System satisfies the regulations in accordance with elevator directive 95/16/EC and EN 81-1 with approved deviations and is EN 81-A3 compliant.
MAX is the elevator industry’s first real-time, cloud-connected predictive maintenance solution. It alerts technicians to potential problems before breakdowns happen.

Prevent problems before they occur. MAX is the elevator industry’s first real-time, cloud-connected predictive maintenance solution. It alerts technicians to potential problems before breakdowns happen.

The revolutionary technology in MAX can reduce elevator downtime by up to 50 percent.
In case of emergency – use the elevators. Our new protocol can be implemented into an elevator system to mobilize people in the event of an emergency.

Occupant Evacuation Operation (OEO)
It’s a more feasible way to evacuate people from tall buildings. The OEO protocol uses software that operates the elevator system during fires as well as signal fixtures to direct occupants to safety.