

LIFTCO



NY & NJ

Elevator Planning Guide



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About Liftco Elevator Installers

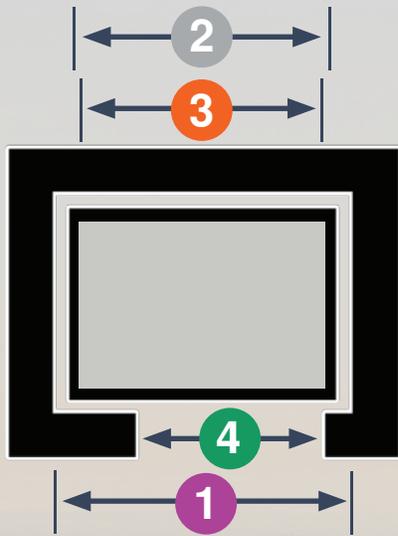
Liftco is a family owned elevator installers and equipment supplier offering complete elevator packages and elevator components tailored to the needs of our customers. With over 40 years experience in the elevator industry we are committed to providing high quality, accurate, and complete product to our customers in a timely manner. Our factory is conveniently located in the Mid-Atlantic region, allowing us to provide optimal service to the Northeastern United States. Liftco is exceptionally experienced with both government and municipal projects. Our continued commitment to providing the best quality of products and service has made us one of the largest independent elevator companies in the nation.

The Liftco Elevator NY & NJ Elevator Planning Guide

We understand that planning an elevator to meet NY & NJ requirements can be challenging and complex. With over 60,000 passenger elevators making over 35 million trips per day in NY & NJ, elevators are one of the most crucial elements of a new building project. Liftco offers a variety of applications suited for the needs of any project. Our NY & NJ Elevator Planning Guide was created to assist architects in the planning stages and help you select the optimal application for your project. With Liftco, you can be confident that your project specifications will meet NY & NJ many requirements.

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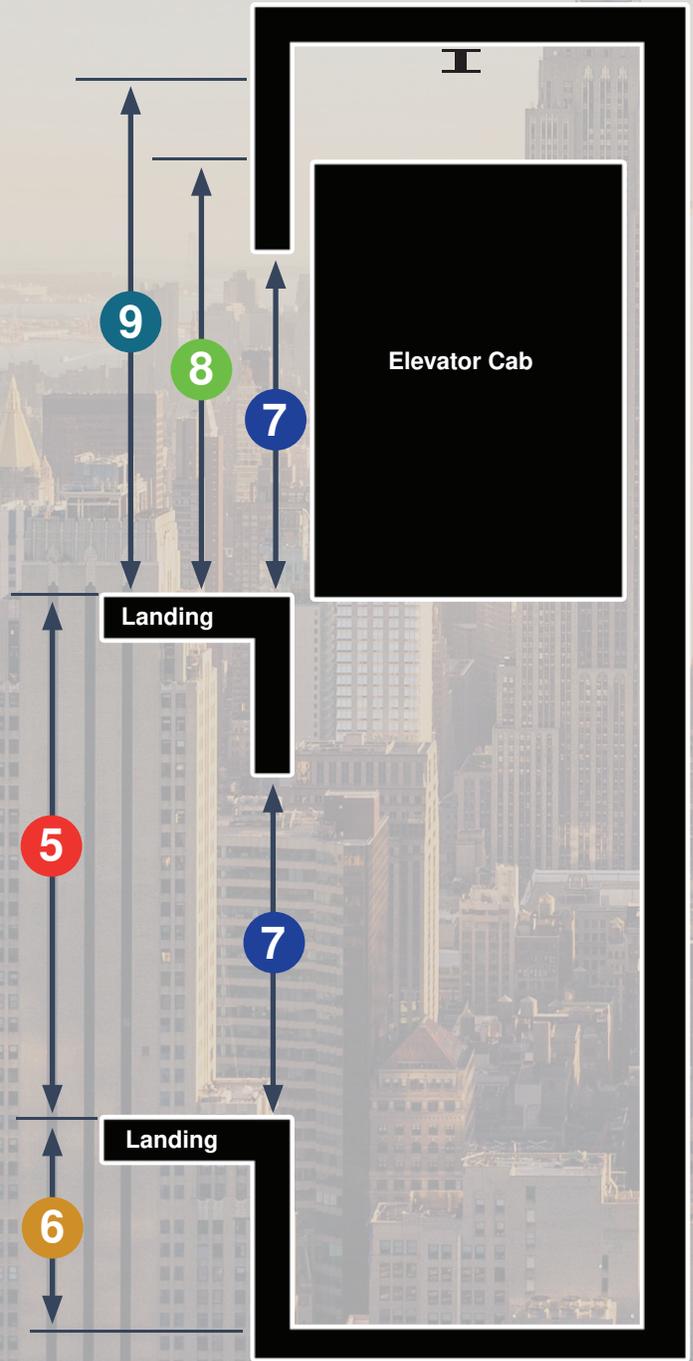
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Basic Elevator Dimensions

- 1** Hoistway Width
 - 2** Platform Width
 - 3** Clear Inside Cab Width
 - 4** Entrance Width
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- 5** Travel
 - 6** Pit Depth
 - 7** Entrance Height
 - 8** Cab Height
 - 9** Overhead
-

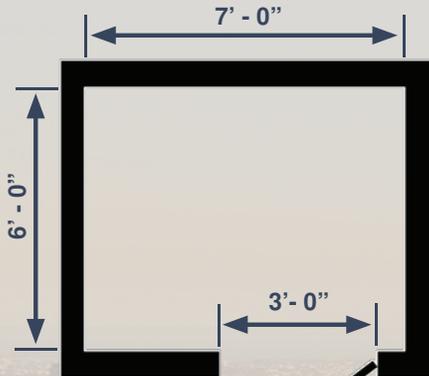


Basic Elevator References



- 1 Hoistway - The shaft constructed where the elevator travels.
 - 2 Platform - The platform that the elevator cab sits on.
 - 3 Clear Inside - The inside dimension of the cab interior.
 - 4 Entrance Width - The width of the entrance into the elevator.
 - 5 Travel - The distance the elevator travels from lowest landing to highest landing.
 - 6 Pit - The space below the elevator car from the lowest landing to the bottom of the hoistway.
 - 7 Entrance Height - The height of the entrance into the elevator.
 - 8 Cab - The enclosure that travels from floor to floor.
 - 9 Overhead - The distance from the top landing to the top of the hoistway.
-
- Capacity - The weight that the elevator is rated to hold. This is based on the elevator's Clear Inside dimension.
 - Speed - The rate at which the elevator is traveling measured in feet per minute (FPM).

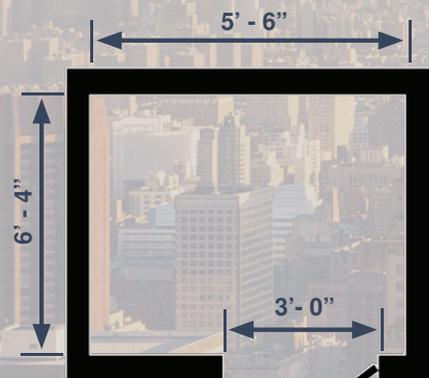
Basic Elevator Requirements



● Hydraulic Machine Room

This is a small room containing the pump unit and controller. These are a requirement with hydraulic elevators and must be adequate size to provide clearances around and between equipment as required by code. Only elevator related equipment is permitted in the machine room. This room can be located adjacent or remote to the hoistway.

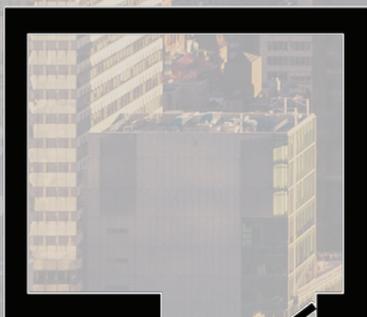
*Dimensions shown as a minimum. Other sizes and shapes can be utilized.



● MRL Control Room

This is a small room containing the MRL (Machine Room-Less) controller. Elevator control rooms must be adequate size to provide clearances around and between equipment as required by code. Only elevator related equipment is permitted in the control room. This room can be located adjacent or remote to the hoistway within 160'-0" from machine to controller.

*Dimensions shown as a minimum. Other sizes and shapes can be utilized.



● Overhead Machine Room

This is a room above the hoistway containing the overhead traction elevator's machine and controller. Elevator machine rooms must be adequate size to provide clearances around and between equipment as required by code. Only elevator related equipment is permitted in the machine room.

*Dimensions may vary based on application.

New York City Special Requirements

NYC Elevator Requirement
 New York City requires that buildings 5 stories or more in height to have at least one elevator that provides access to all floors.

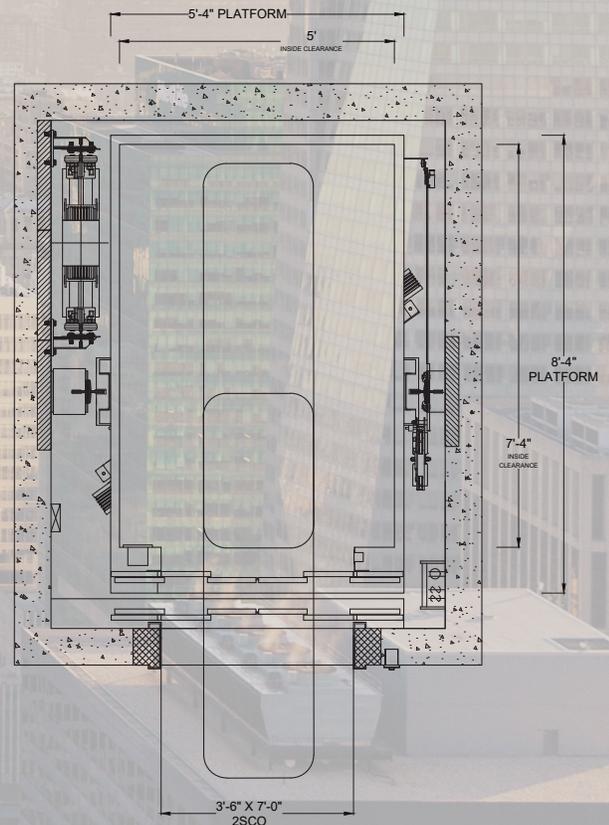
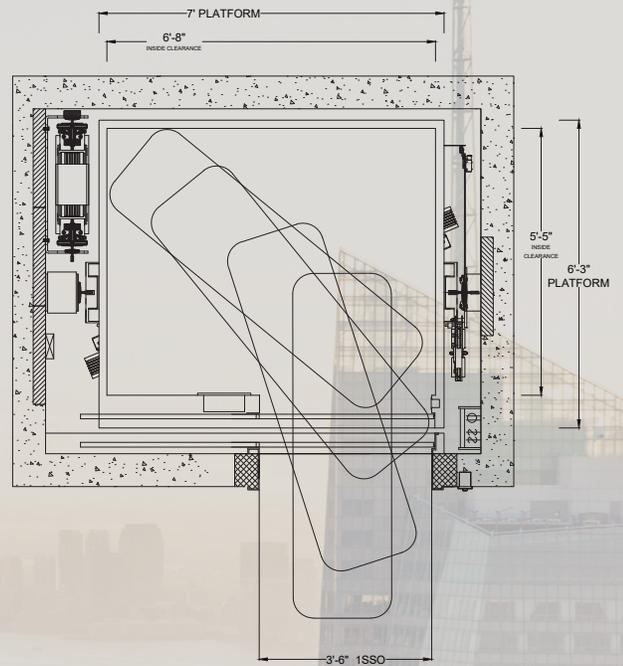
*N.Y.C. Buildings Department. Bulletin 2017-008. Section BC 3002.4

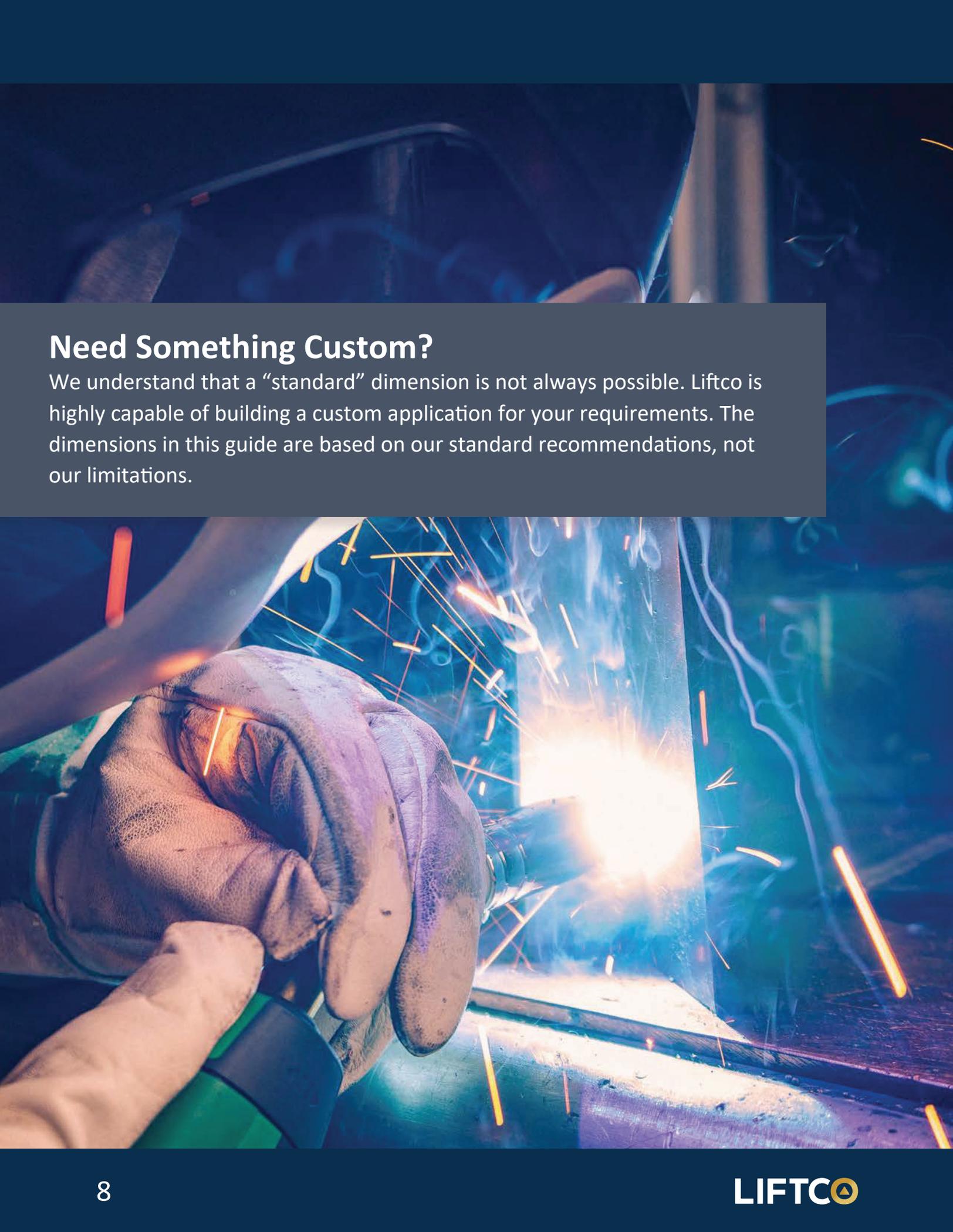
NYC Stretcher Compliance
 New York City requires buildings that are 5 stories or more in height to have at least one elevator cab that is sized to accommodate a (24" x 84") ambulance stretcher.

*N.Y.C. Buildings Department. Bulletin 2017-008. Section BC 3002.4

Seismic Zone 2
 New York City is located in seismic zone 2. Although this entails additional requirements, the dimensions in this guide are already compliant to seismic zone 2.

*The dimensions in this guide are based on seismic zone 2.





Need Something Custom?

We understand that a “standard” dimension is not always possible. Liftco is highly capable of building a custom application for your requirements. The dimensions in this guide are based on our standard recommendations, not our limitations.

Choosing The Optimal Elevator



Analyze Capabilities

Although there are many factors in choosing an elevator, we suggest determining the appropriate elevator by analyzing the Capabilities of each elevator. This includes Travel, Capacity, Overhead and Speed.

1

Travel ●

The first consideration should be the required travel distance of the elevator. Each elevator has a max travel capability.

2

Capacity ●

The second consideration should be the capacity of the elevator. Factors to consider are: building population, building usage, and code. If a stretcher compliant elevator is needed, the car must be a capacity of 3500lb or higher.

3

Overhead ●

The third consideration should be the overhead. New York City has special overhead requirements which entail additional overhead space. This can be an additional challenge in New York City as it often requires more space and building higher.

4

Speed ●

The fourth consideration should be the speed of the elevator. Factors to consider are: travel, building population, and building traffic. Higher speeds will typically entail higher material costs.

5

Requirements ●

Determine the selected elevator's additional Requirements. This may include dimensions like: minimum Overhead or minimum Pit Depth. This may also include additional factors like a Machine Room or a Control Room.

Contact Us

Need help selecting the optimal elevator? Contact a Liftco sales representative for more details.

Capabilities

- Max Travel: Up to 300 ft.
- Capacity(lb): 2100 - 5000
- Max Speed: Up to 500 FPM

MRL

Low Overhead



Summary

The “Machine Room Less” is an application that utilizes an efficient gearless machine located in the hoistway. This eliminates the need for a traditional machine room. The Low Overhead application utilizes a side mounted machine to reduce the required overhead.

Advantages

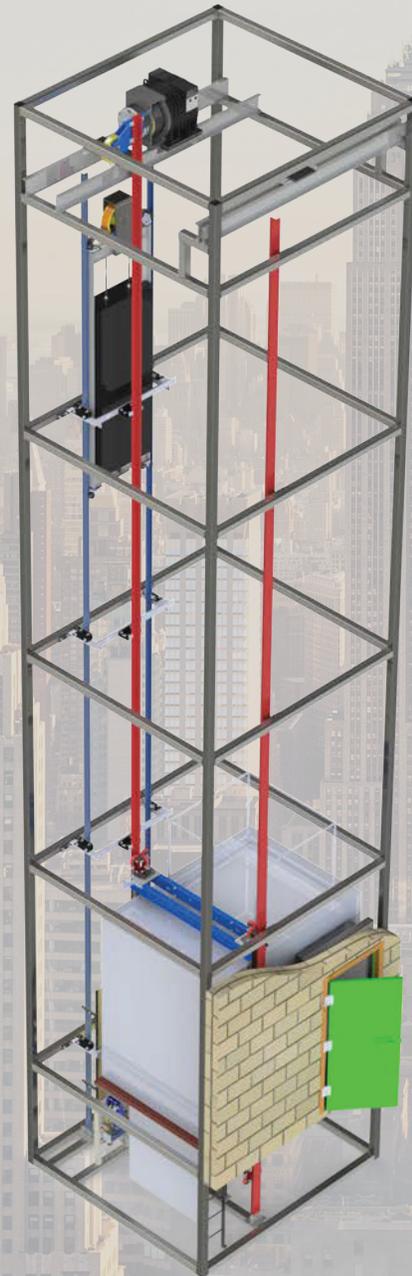
- Saves on valuable floor space.
- Energy efficient.
- Superior ride quality.
- Lower Overhead required than standard MRL's.

Disadvantages

- Higher material cost than standard MRL's.

Considerations

- Requires a separate control room.
- Overhead varies depending on Speed.



MRL

Custom Dimensions

Need a hoistway with low overhead? We can help! This MRL is a custom application offered in a variety of hoistway dimensions. Contact a Liftco sales representative for more information.

MRL Cornerpost



Capabilities

- Max Travel: Up to 300 ft.
- Capacity(lb): 2100 - 5000
- Max Speed: Up to 500 FPM

Summary

The “Machine Room Less” is an application that utilizes an efficient gearless machine located in the hoistway. This eliminates the need for a traditional machine room. The Cornerpost MRL allows a side opening cab.

Advantages

- Saves on valuable floor space.
- Energy efficient.
- Superior ride quality.
- Enables a side opening.

Disadvantages

- Higher material cost than standard MRL's.

Considerations

- Requires a separate control room.
- Overhead varies depending on Speed.

Custom Dimensions

The Cornerpost MRL is a custom application offered in a variety of hoistway dimensions. Contact a Liftco sales representative for more information.



MRL Rail Supported



Capabilities

- Max Travel: Up to 50 ft.
- Capacity(lb): 2100 - 3500
- Max Speed: Up to 350 FPM

Summary

The “Machine Room Less” is an application that utilizes an efficient gearless machine located in the hoistway. This eliminates the need for a traditional machine room.

Advantages

- Saves on valuable floor space.
- Energy efficient.
- Superior ride quality.

Disadvantages

- Higher material and maintenance costs.
- Limited Capacity options.

Considerations

- Requires a separate control room.
- Overhead varies depending on Speed.



MRL

Capacity	Openings F = Front R = Rear	Hoistway	Platform	Clear Inside	Stretcher Compliant
Front Opening					
2100	F	7'-10" x 5'-10"	6'-0" x 5'-1"	5'-8" x 4'-3"	N
2500	F	8'-10" x 5'-10"	7'-0" x 5'-1"	6'-8" x 4'-3"	N
3000	F	8'-10" x 6'-3"	7'-0" x 5'-6"	6'-8" x 4'-8"	N
3500	F	8'-10" x 7'-0"	7'-0" x 6'-3"	6'-8" x 5'-5"	Y
Front & Rear Openings					
2100	F&R	7'-10" x 6'-8 1/2"	6'-0" x 5'-8"	5'-8" x 4'-4"	N
2500	F&R	8'-10" x 6'-8 1/2"	7'-0" x 5'-8"	6'-8" x 4'-4"	N
3000	F&R	8'-10" x 6'-11 1/2"	7'-0" x 5'-11"	6'-8" x 4'-7"	N
3500	F&R	8'-10" x 7'-9 1/2"	7'-0" x 6'-9"	6'-8" x 5'-5"	Y

Requirements

- Based on an 8'-0" Cab Height
- A Control Room is required

Overhead Requirements

- 100 - 200 FPM = 16' -11"
- 250 - 300 FPM = 17' -3"
- 350 FPM = 17' -6"

*For every 1'-0" added to the cab height; add 1'-0" to the overhead.

Pit Depth Requirements

- 100 - 200 FPM = 5' -0"
- 250 - 350 FPM = 5'-6"

New York City MRL's

New York City has special Overhead requirements that apply to MRL's.

MRL Frame Building Supported



Capabilities

- Max Travel: Up to 200 ft.
- Capacity(lb): 2100 - 3500
- Max Speed: Up to 350 FPM

Summary

The “Machine Room Less” is an application that utilizes an efficient gearless machine located in the hoistway. This eliminates the need for a traditional machine room. Frame Building Supported MRL's require small machine beam pockets at the top of the hoistway.

Advantages

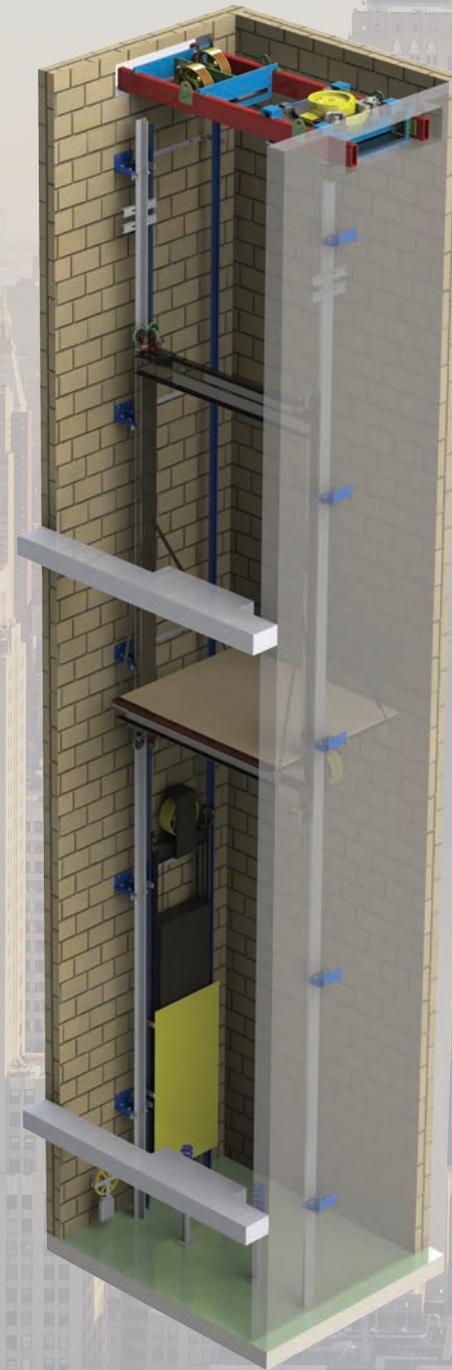
- Saves on valuable floor space.
- Energy efficient.
- Superior ride quality.

Disadvantages

- Higher material cost than hydraulic elevators.
- Limited Capacity options.

Considerations

- Requires a separate control room.
- Overhead varies depending on Speed.



MRL

Capacity	Openings F = Front R = Rear	Hoistway	Platform	Clear Inside	Stretcher Compliant
Front Opening					
2100	F	7'-10" x 5'-10"	6'-0" x 5'-1"	5'-8" x 4'-3"	N
2500	F	8'-10" x 5'-10"	7'-0" x 5'-1"	6'-8" x 4'-3"	N
3000	F	8'-10" x 6'-3"	7'-0" x 5'-6"	6'-8" x 4'-8"	N
3500	F	8'-10" x 7'-0"	7'-0" x 6'-3"	6'-8" x 5'-5"	Y
Front & Rear Openings					
2100	F&R	7'-10" x 6'-8 1/2"	6'-0" x 5'-8"	5'-8" x 4'-4"	N
2500	F&R	8'-10" x 6'-8 1/2"	7'-0" x 5'-8"	6'-8" x 4'-4"	N
3000	F&R	8'-10" x 6'-11 1/2"	7'-0" x 5'-11"	6'-8" x 4'-7"	N
3500	F&R	8'-10" x 7'-9 1/2"	7'-0" x 6'-9"	6'-8" x 5'-5"	Y

Requirements

- Based on an 8'-0" Cab Height
- A Control Room is required

Overhead Requirements

- 100 - 200 FPM = 17' -2"
- 250 - 300 FPM = 17' -6"
- 350 FPM = 17' -9"

*For every 1'-0" added to the cab height; add 1'-0" to the overhead.

Pit Depth Requirements

- 100 - 200 FPM = 5' -0"
- 250 - 350 FPM = 5'-6"

New York City MRL's

New York City has special Overhead requirements that apply to MRL's.

MRL Building Supported



Capabilities

- Max Travel: Up to 300 ft.
- Capacity(lb): 2100 - 5000
- Max Speed: Up to 500 FPM

Summary

The “Machine Room Less” is an application that utilizes an efficient gearless machine located in the hoistway. This eliminates the need for a traditional machine room. Building Supported MRL's require small machine beam pockets at the top of the hoistway.

Advantages

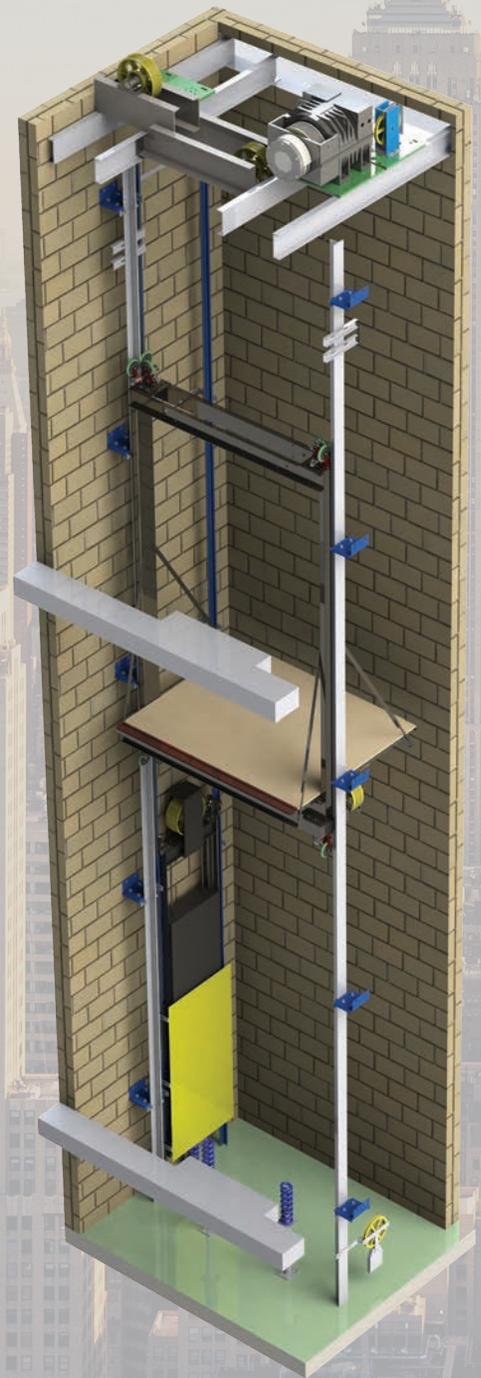
- Saves on valuable floor space.
- Energy efficient.
- Superior ride quality.
- High Capacity and high Travel capability.

Disadvantages

- Higher material cost than lighter duty MRL's.

Considerations

- Requires a separate control room.
- Overhead varies depending on Speed.



MRL

Capacity	Openings F = Front R = Rear	Hoistway	Platform	Clear Inside	Stretcher Compliant
Front Opening					
2100	F	7'-8" x 6'-5"	6'-0" x 5'-1"	5'-8" x 4'-3"	N
2500	F	8'-8" x 6'-5 1/2"	7'-0" x 5'-1"	6'-8" x 4'-3"	N
3000	F	8'-8" x 6'-8"	7'-0" x 5'-6"	6'-8" x 4'-8"	N
3500	F	8'-8" x 7'-0"	7'-0" x 6'-3"	6'-8" x 5'-5"	Y
4000	F	9'-8" x 7'-0"	8'-0" x 6'-3"	7'-8" x 5'-5"	Y
Front & Rear Openings					
2100	F&R	7'-8" x 6'-8 1/2"	6'-0" x 5'-8"	5'-8" x 4'-4"	N
2500	F&R	8'-8" x 6'-8 1/2"	7'-0" x 5'-8"	6'-8" x 4'-4"	N
3000	F&R	8'-8" x 7'-5 1/2"	7'-0" x 6'-5"	6'-8" x 5'-1"	N
3500	F&R	8'-8" x 7'-9 1/2"	7'-0" x 6'-9"	6'-8" x 5'-5"	Y
4000	F&R	9'-8" x 7'-9 1/2"	8'-0" x 6'-9"	7'-8" x 5'-5"	Y
Service Front Opening					
S3500	F	7'-0" x 9'-3"	5'-4" x 8'-4"	5'-0" x 7'-4"	Y
S4000	F	7'-8" x 9'-3"	6'-0" x 8'-5"	5'-8" x 7'-5"	Y
S4500	F	7'-8" x 9'-7"	6'-0" x 8'-9"	5'-8" x 7'-9"	Y
S5000	F	7'-8" x 10'-6"	6'-0" x 9'-8"	5'-8" x 8'-8"	Y
Service Front & Rear Openings					
S3500	F&R	7'-0" x 10'-3 1/2"	5'-4" x 9'-0"	5'-0" x 7'-4"	Y
S4000	F&R	7'-8" x 10'-4 1/2"	6'-0" x 9'-1"	5'-8" x 7'-5"	Y
S4500	F&R	7'-8" x 10'-9 1/2"	6'-0" x 9'-6"	5'-8" x 7'-10"	Y
S5000	F&R	7'-8" x 11'-7 1/2"	6'-0" x 10'-4"	5'-8" x 8'-8"	Y

Requirements

- Based on an 8'-0" Cab Height
- A Control Room is required

Pit Depth Requirements

2100-3500 Capacity

- 100 - 200 FPM = 5' -0"
- 250 - 350 FPM = 5' -6"
- 400 FPM = 5' -9"
- 450 - 500 FPM = 6' -3"

4000-5000 Capacity

- 100 - 200 FPM = 5' -0"
- 250 - 350 FPM = 5' -6"
- 400 FPM = 6' -0"
- 450 - 500 FPM = 6' -6"

Overhead Requirements

- 100 - 200 FPM = 17' -0"
- 250 - 300 FPM = 17' -4"
- 350 FPM = 17' -7"
- 500 FPM = 18' -7"

*For every 1'-0" added to the cab height; add 1'-0" to the overhead.

Overhead Traction



Capabilities

- Max Travel: Over 500 ft.+
- Capacity(lb): 2100 - 5000
- Max Speed: Up to 800 FPM

Summary

This high Travel design utilizes a traction machine located in a Machine Room directly above the hoistway. Overhead Traction elevators use hoist ropes and counterweights (at the side or rear) to move the cab.

Advantages

- High Travel and Speed capabilities.
- Energy Efficient
- Available in low and high capacity applications.

Disadvantages

- Larger Overhead Machine Room is required.

Considerations

- Requires an overhead Machine Room.



Overhead Traction

Capacity	Openings F = Front R = Rear	Hoistway Size	Platform Size	Clear Inside	Stretcher Compliant
Front Opening (Counterweight at REAR)					
2100	F	7'-4" x 6'-8"	6'-0" x 5'-1"	5'-8" x 4'-3"	N
2500	F	8'-4" x 6'-8"	7'-0" x 5'-1"	6'-8" x 4'-3"	N
3000	F	8'-4" x 7'-1"	7'-0" x 5'-6"	6'-8" x 4'-8"	N
3500	F	8'-4" x 7'-10"	7'-0" x 6'-3"	6'-8" x 5'-5"	Y
4000	F	9'-4" x 7'-10"	8'-0" x 6'-3"	7'-8" x 5'-5"	Y
Front Opening (Counterweight at SIDE)					
2100	F	8'-4" x 5'-10"	6'-0" x 5'-1"	5'-8" x 4'-3"	N
2500	F	9'-4" x 5'-10"	7'-0" x 5'-1"	6'-8" x 4'-3"	N
3000	F	9'-4" x 6'-3"	7'-0" x 5'-6"	6'-8" x 4'-8"	N
3500	F	9'-4" x 7'-0"	7'-0" x 6'-3"	6'-8" x 5'-5"	Y
4000	F	10'-4" x 7'-0"	8'-0" x 6'-3"	7'-8" x 5'-5"	Y
Front & Rear Openings (Counterweight at SIDE)					
3500	F&R	9'-4" x 7'-9 1/2"	7'-0" x 6'-9"	6'-8" x 5'-5"	Y
4000	F&R	10'-4" x 6'-9 1/2"	8'-0" x 7'-9"	7'-8" x 5'-5"	Y
Hospital Front Opening (Counterweight at SIDE)					
3500H	F	7'-2" x 9'-2"	5'-4" x 8'-4"	5'-0" x 7'-4"	Y
4000H	F	7'-10" x 9'-3"	6'-0" x 8'-5"	5'-8" x 7'-5"	Y
4500H	F	7'-10" x 9'-7"	6'-0" x 8'-9"	5'-8" x 7'-9"	Y
5000H	F	7'-10" x 10'-7"	6'-0" x 9'-8"	5'-8" x 8'-8"	Y
Hospital Front & Rear Openings (Counterweight at SIDE)					
3500H	F&R	7'-2" x 10'-3 1/2"	5'-4" x 9'-0"	5'-0" x 7'-4"	Y
4000H	F&R	7'-10" x 10'-4 1/2"	6'-0" x 9'-1"	5'-8" x 7'-5"	Y
4500H	F&R	7'-10" x 10'-9 1/2"	6'-0" x 9'-6"	5'-8" x 7'-10"	Y
5000H	F&R	7'-10" x 11'-7 1/2"	6'-0" x 10'-4"	5'-8" x 8'-8"	Y

Requirements

- Minimum required Pit Depth = 5'-0"
- Minimum required Overhead = 15'-0"
- Based on an 8'-0" Cab Height
- Based on a Speed of 200FPM
- A Overhead Machine Room is required

*The Pit and Overhead above only apply to a speed of 200FPM.

Contact Us

Overhead Traction elevators offer a multitude of options and capabilities. Consult with a D.E.M. Representative for required dimensions based on your application.

Twin Jack Holeless Hydraulic



Capabilities

- Max Travel: Up to 50 ft.
- Capacity(lb): 2100 - 5000
- Max Speed: Up to 150 FPM

Summary

This application uses two hydraulic jacks; one on each side of the platform. These are typically used for low travel applications.

Advantages

- Less material and maintenance cost.
- Easy installation.
- Available in low and high capacity applications.

Disadvantages

- Limited Speed capability.
- Limited Travel capability.

Considerations

- Requires a separate machine room.

*Machine Rooms can be remote up to 100ft.



Hydraulic

Capacity	Openings F = Front R = Rear	Hoistway Size	Platform Size	Clear Inside	Stretcher Compliant
Front Opening					
2100	F	7'-4" x 5'-10"	6'-0" x 5'-1"	5'-8" x 4'-3"	N
2500	F	8'-4" x 5'-10"	7'-0" x 5'-1"	6'-8" x 4'-3"	N
3000	F	8'-4" x 6'-3"	7'-0" x 5'-6"	6'-8" x 4'-8"	N
3500	F	8'-4" x 7'-0"	7'-0" x 6'-3"	6'-8" x 5'-5"	Y
4000	F	9'-4" x 6'-11"	8'-0" x 6'-3"	7'-8" x 5'-4"	Y
Front & Rear Openings					
2100	F&R	7'-4" x 6'-8 ½"	6'-0" x 5'-8"	5'-8" x 4'-4"	N
2500	F&R	8'-4" x 6'-8 ½"	7'-0" x 5'-8"	6'-8" x 4'-4"	N
3000	F&R	8'-4" x 6'-11 ½"	7'-0" x 5'-11"	6'-8" x 4'-7"	N
3500	F&R	8'-4" x 7'-9 ½"	7'-0" x 6'-9"	6'-8" x 5'-5"	Y
4000	F&R	9'-4" x 7'-8 ½"	8'-0" x 6'-8"	7'-8" x 5'-4"	Y
Hospital Front Opening					
3500H	F	6'-8" x 9'-3"	5'-4" x 8'-4"	5'-0" x 7'-4"	Y
4000H	F	7'-4" x 9'-3"	6'-0" x 8'-5"	5'-8" x 7'-5"	Y
4500H	F	7'-4" x 9'-7"	6'-0" x 8'-9"	5'-8" x 7'-9"	Y
5000H	F	7'-6" x 10'-7"	6'-0" x 9'-8"	5'-8" x 8'-8"	Y
Hospital Front & Rear Openings					
3500H	F&R	6'-8" x 10'-3 ½"	5'-4" x 9'-0"	5'-0" x 7'-4"	Y
4000H	F&R	7'-4" x 10'-4 ½"	6'-0" x 9'-1"	5'-8" x 7'-5"	Y
4500H	F&R	7'-4" x 10'-9 ½"	6'-0" x 9'-6"	5'-8" x 7'-10"	Y
5000H	F&R	7'-6" x 11'-7 ½"	6'-0" x 10'-4"	5'-8" x 8'-8"	Y

Requirements

- Minimum required Pit Depth = 4'-0"
- Minimum required Overhead = 12'-6"
- Based on an 8'-0" Cab Height
- A Hydraulic Machine Room is required

*For every 1'-0" added to the cab height; add 1'-0" to the overhead.

In-Ground Hydraulic



Capabilities

- Max Travel: Up to 100 ft.
- Capacity(lb): 2100 - 5000
- Max Speed: Up to 150 FPM

Summary

This is a traditional elevator application that has been used for many years. The hydraulic jack is located directly underneath the platform. The jack unit is drilled deep into the ground and protected by a PVC liner.

Advantages

- Less material and maintenance cost.
- Long life expectancy
- Available in low and high capacity applications.

Disadvantages

- Requires drilling (equal to the length of travel).
- Drilling can be costly depending on conditions.

Considerations

- Requires a separate machine room.
- Drilling can be expensive depending on travel.

*Machine Rooms can be remote up to 100ft.



Hydraulic

Capacity	Openings F= Front R= Rear	Hoistway Size	Platform Size	Clear Inside	Stretcher Compliant
Front Opening					
2100	F	7'-4" x 5'-10"	6'-0" x 5'-1"	5'-8" x 4'-3"	N
2500	F	8'-4" x 5'-10"	7'-0" x 5'-1"	6'-8" x 4'-3"	N
3000	F	8'-4" x 6'-3"	7'-0" x 5'-6"	6'-8" x 4'-8"	N
3500	F	8'-4" x 7'-0"	7'-0" x 6'-3"	6'-8" x 5'-5"	Y
4000	F	9'-4" x 7'-0"	8'-0" x 6'-3"	7'-8" x 5'-5"	Y
Front & Rear Openings					
2100	F&R	7'-4" x 6'-8 1/2"	6'-0" x 5'-8"	5'-8" x 4'-4"	N
2500	F&R	8'-4" x 6'-8 1/2"	7'-0" x 5'-8"	6'-8" x 4'-4"	N
3000	F&R	8'-4" x 6'-11 1/2"	7'-0" x 5'-11"	6'-8" x 4'-7"	N
3500	F&R	8'-4" x 7'-9 1/2"	7'-0" x 6'-9"	6'-8" x 5'-5"	Y
4000	F&R	9'-4" x 7'-9 1/2"	8'-0" x 6'-9"	7'-8" x 5'-5"	Y
Hospital Front Opening					
3500H	F	6'-8" x 9'-3"	5'-4" x 8'-4"	5'-0" x 7'-4"	Y
4000H	F	7'-4" x 9'-3"	6'-0" x 8'-5"	5'-8" x 7'-5"	Y
4500H	F	7'-4" x 9'-7"	6'-0" x 8'-9"	5'-8" x 7'-9"	Y
5000H	F	7'-6" x 10'-7"	6'-0" x 9'-8"	5'-8" x 8'-8"	Y
Hospital Front & Rear Openings					
3500H	F&R	6'-8" x 10'-3 1/2"	5'-4" x 9'-0"	5'-0" x 7'-4"	Y
4000H	F&R	7'-4" x 10'-4 1/2"	6'-0" x 9'-1"	5'-8" x 7'-5"	Y
4500H	F&R	7'-4" x 10'-9 1/2"	6'-0" x 9'-6"	5'-8" x 7'-10"	Y
5000H	F&R	7'-6" x 11'-7 1/2"	6'-0" x 10'-4"	5'-8" x 8'-8"	Y

Requirements

- Minimum required Pit Depth = 4'-0"
- Minimum required Overhead = 12'-6"
- Based on an 8'-0" Cab Height
- A Hydraulic Machine Room is required

*For every 1'-0" added to the cab height; add 1'-0" to the overhead.

Hydraulic Freight



Capabilities

- Max Travel: Up to 100 ft.
- Capacity(lb): 4000 - 50000+
- Max Speed: Up to 100 FPM

Summary

Hydraulic Freight elevators are used for heavy industrial equipment and automotive vehicles. Freight elevators are rated by classes, which dictate the load per square foot.

Advantages

- Ability to lift heavy equipment.

Disadvantages

- Typically requires larger Machine Room.

Considerations

- Requires a separate machine room.

Class Ratings

- Class A: General Freight Not less than 50lb per sq. ft.
- Class B: Motor Vehicles Not less than 30lb per sq. ft.
- Class C: Industrial Truck Loading Not less than 50lb per sq. ft.



Hydraulic

Capacity	Openings F = Front R = Rear	Hoistway Size	Platform Size	Clear Inside
Class A & C Front Opening				
4000	F	7'-8" x 8'-8"	6'-0" x 8'-0"	5'-8" x 7'-5"
5000	F	8'-10" x 10'-8"	7'-0" x 10'-0"	6'-8" x 9'-5"
6000	F	10'-2" x 10'-8"	8'-4" x 10'-0"	8'-0" x 9'-5"
8000	F	10'-2" x 12'-8"	8'-4" x 12'-0"	8'-0" x 11'-5"
10000	F	12'-2" x 14'-8"	10'-4" x 14'-0"	10'-0" x 13'-5"
12000	F	14'-4" x 16'-8"	12'-4" x 16'-0"	12'-0" x 15'-5"
15000	F	14'-4" x 18'-8"	12'-4" x 18'-0"	12'-0" x 17'-5"
Class A & C Front & Rear Openings				
4000	F&R	7'-8" x 8'-10"	6'-0" x 8'-0"	5'-8" x 7'-4"
5000	F&R	8'-10" x 10'-10"	7'-0" x 10'-0"	6'-8" x 9'-4"
6000	F&R	10'-2" x 10'-10"	8'-4" x 10'-0"	8'-0" x 9'-4"
8000	F&R	10'-2" x 12'-10"	8'-4" x 12'-0"	8'-0" x 11'-4"
10000	F&R	12'-2" x 14'-10"	10'-4" x 14'-0"	10'-0" x 13'-4"
12000	F&R	14'-4" x 16'-10"	12'-4" x 16'-0"	12'-0" x 15'-4"
15000	F&R	14'-4" x 18'-10"	12'-4" x 18'-0"	12'-0" x 17'-4"
Class B Motor Vehicle Front Opening				
8000	F	11'-2" x 22'-8"	9'-4" x 22'-0"	9'-0" x 21'-5"
10000	F	12'-2" x 24'-8"	10'-4" x 24'-0"	9'-0" x 23'-5"
Class B Motor Vehicle Front & Rear Openings				
8000	F&R	11'-2" x 22'-10"	9'-4" x 22'-0"	9'-0" x 21'-4"
10000	F&R	12'-2" x 24'-10"	10'-4" x 24'-0"	10'-0" x 23'-4"

Requirements

- Minimum required Pit Depth = 4'-6"
- Minimum required Overhead = 14'-6"
- Based on an 8'-0" Cab Height and 6' gate height
- A Hydraulic Machine Room is required

*The requirements above are limited to the indicated cab height.

Contact Us

Freight Elevators offer a multitude of sizing options and capabilities. Consult with a Liftco. Representative for required dimensions based on your application.

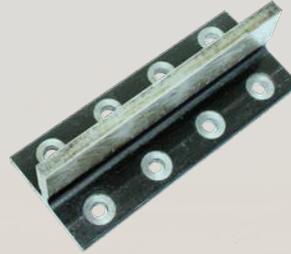


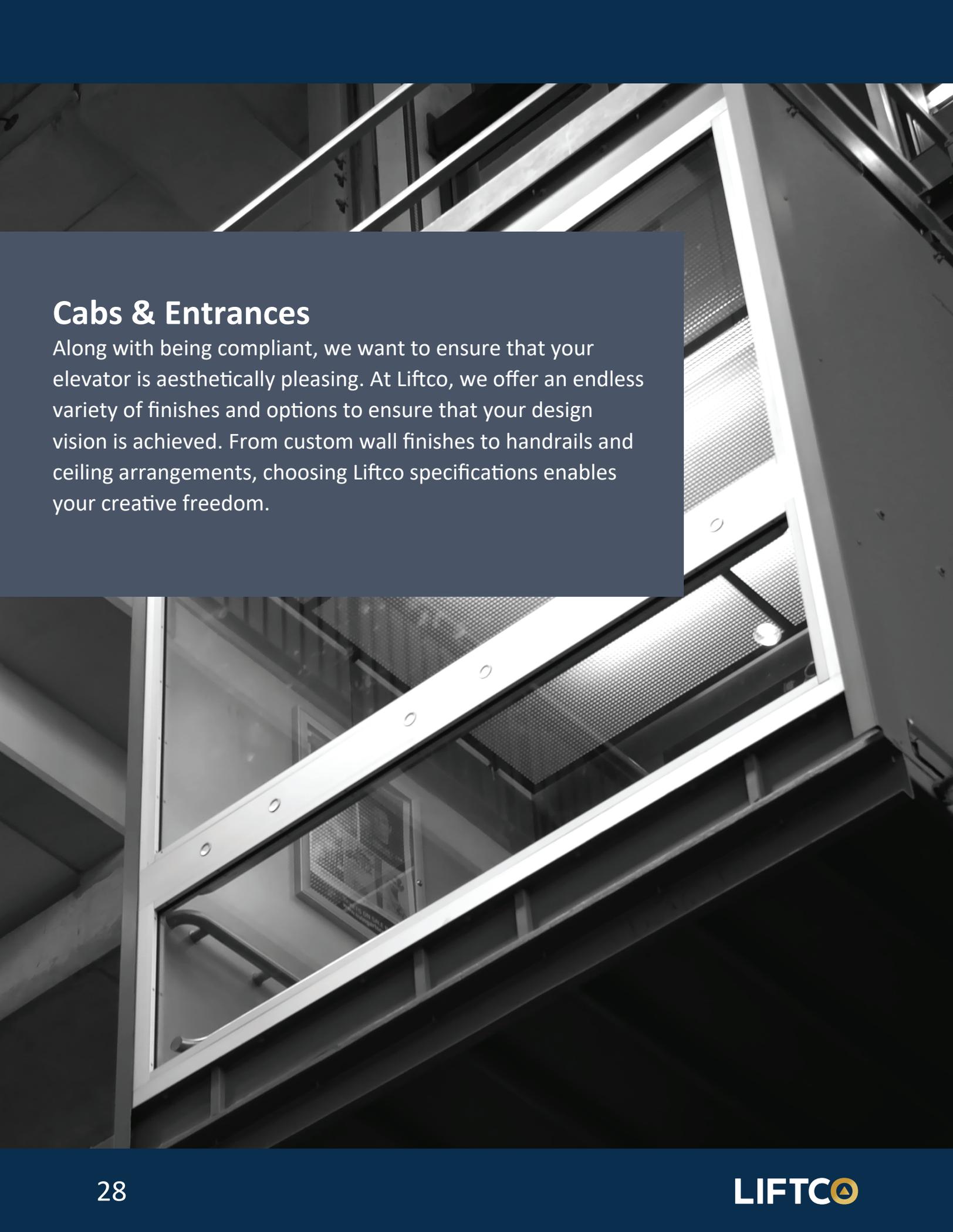
Parts & Components

Liftco is your complete source for all elevator equipment. From complete elevator packages to parts and components, Liftco Elevator Installers offers everything your elevator contractor needs to complete their project. This includes pump units, valves, sheaves, pit equipment, cabs, entrances and more.

Parts & Components

Complete Elevator Packages
Custom Pump Units
Pump Unit Accessories
Traction Machines
Roller Guides
Pit Equipment
Piping
Rails
Controllers
Wiring
Cabs
Entrances
And More...





Cabs & Entrances

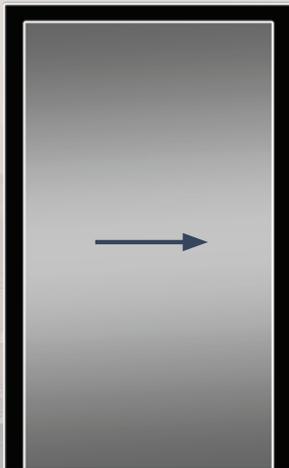
Along with being compliant, we want to ensure that your elevator is aesthetically pleasing. At Liftco, we offer an endless variety of finishes and options to ensure that your design vision is achieved. From custom wall finishes to handrails and ceiling arrangements, choosing Liftco specifications enables your creative freedom.

Elevator Door Types

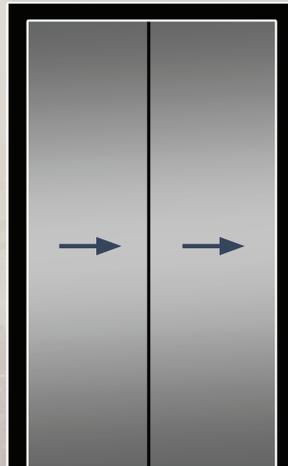


Door Types

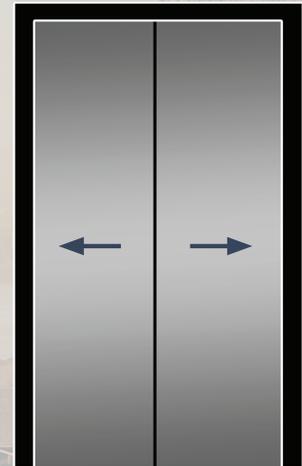
Form & Function: A variety of door configurations are available to maximize entrance space, utilize cab arrangements and the aesthetics of the elevator's entrance.



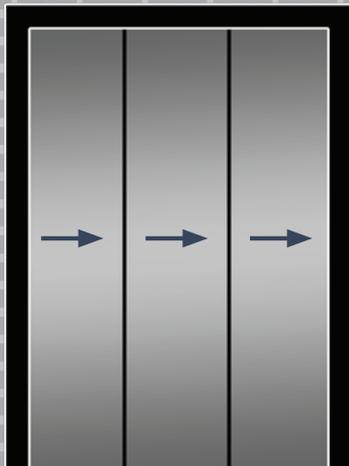
SSSO
Single Speed Single Opening



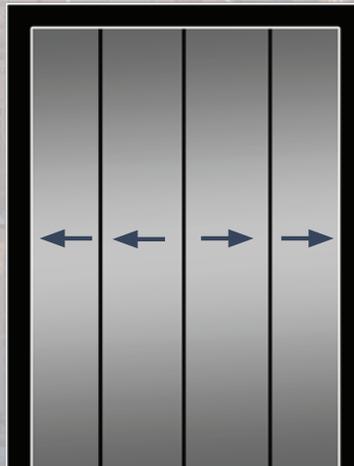
2SSO
Two Speed Single Opening



SSCO
Single Speed Center Opening



3SSO
Three Speed Single Opening



2SCO
Two Speed Center Opening

Liftco Cab & Entrances

Need help designing the perfect cab and entrance? We can help!

Liftco Elevator Installers is affiliated with Liftco, a manufacturer of cabs and entrances. Liftco offers a large selection of interior designs and finishes.

LIFTCO

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LIFTCO ELEVATOR
GOLD STANDARD