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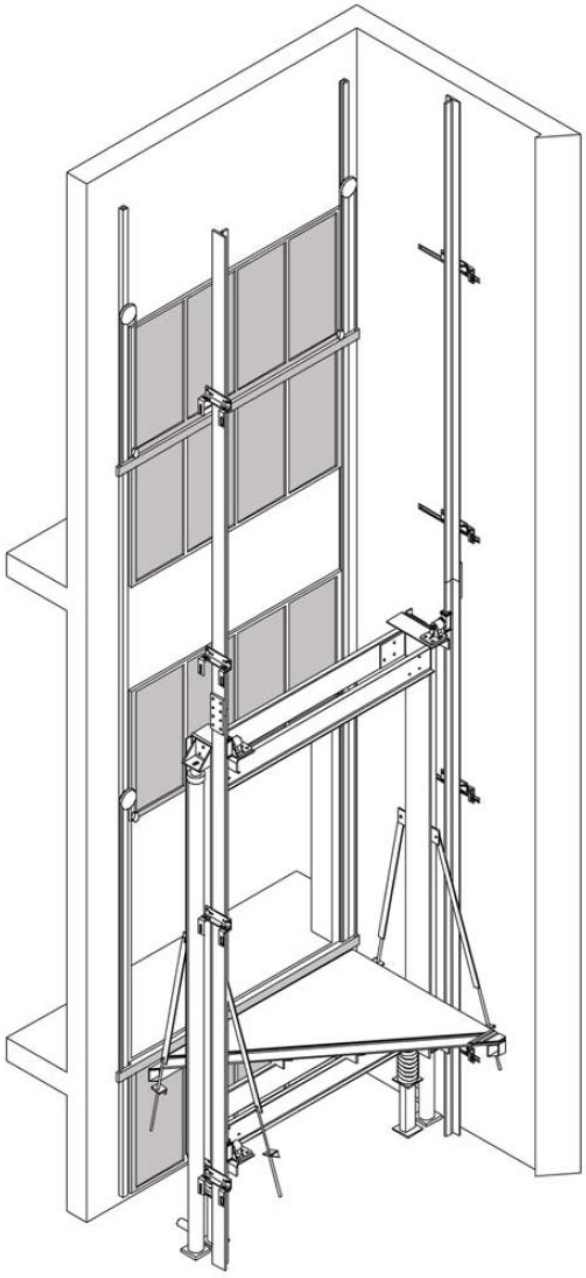
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Twin Jack Holeless Freight

Application Summary

This design utilizes two hydraulic jacks and provides maximum structural stability. The jacks, located on each side of the car, are either single-stage or telescopic. The appropriate jack type is determined by the amount of travel and the project conditions. The single-stage jacks are popular for two-stop arrangements, while telescopic jacks are generally used for three- and four-stop projects.

- This design can accommodate both **passenger** and **freight** applications.



Advantages:

- No jack hole is required. This eliminates the cost of drilling and the risk of oil contamination.
- Accommodates front and rear openings in any configuration.
- Available for both low and high capacity cars.

Disadvantages:

- Usually requires more overhead than a borehole project. The greater the travel, the greater the overhead must be.
- Requires a wider hoistway because the jacks are located on both sides of the car.
- The material cost is typically higher than that of a borehole package.

Twin Jack Holeless Freight, One and Two Stage

Cap.	Platform	Hoistway With Power Regular Type Doors	Hoistway With Power Pass Type Doors	Pit Depth	Front (F) Rear (R)	Clear Inside With Single Section	Clear Inside With Two Section	Door Width and Height
4000	7'-0" x 8'-0"	8'-8" x 8'-8"	8'-8" x 8'-9 ¾"	4'-6"	F	6'-8" x 7'-7"	6'-8" x 7'-4 ½"	6'-8" x 8'-0"
4000	7'-0" x 8'-0"	8'-8" x 8'-10"	8'-8" x 9'-1 ½"	4'-6"	F/R	6'-8" x 7'-6"	6'-8" x 7'-1"	6'-8" x 8'-0"
5000	8'-0" x 9'-0"	9'-10" x 9'-8"	9'-10" x 9'-9 ¾"	4'-6"	F	7'-8" x 8'-7"	7'-8" x 8'-4 ½"	7'-8" x 8'-0"
5000	8'-0" x 9'-0"	9'-10" x 9'-10"	9'-10" x 10'-1 ½"	4'-6"	F/R	7'-8" x 8'-6"	7'-8" x 8'-1"	7'-8" x 8'-0"
6000	10'-4" x 10'-0"	12'-2" x 10'-8"	12'-2" x 10'-9 ¾"	4'-6"	F	10'-2" x 9'-7"	10'-0" x 9'-4 ½"	10'-0" x 8'-0"
6000	10'-4" x 10'-0"	12'-2" x 10'-10"	12'-2" x 11'-1 ½"	4'-6"	F/R	10'-2" x 9'-6"	10'-0" x 9'-1"	10'-0" x 8'-0"
8000	10'-4" x 12'-0"	12'-4" x 12'-8"	12'-4" x 12'-9 ¾"	4'-6"	F	10'-2" x 11'-7"	10'-0" x 11'-4 ½"	10'-0" x 8'-0"
8000	10'-4" x 12'-0"	12'-4" x 12'-10"	12'-4" x 13'-1 ½"	4'-6"	F/R	10'-2" x 11'-6"	10'-0" x 11'-1"	10'-0" x 8'-0"
10000	10'-4" x 14'-0"	12'-4" x 14'-8"	12'-4" x 14'-9 ¾"	4'-6"	F	10'-2" x 13'-7"	10'-0" x 13'-4 ½"	10'-0" x 8'-0"
10000	10'-4" x 14'-0"	12'-4" x 14'-10"	12'-4" x 15'-1 ½"	4'-6"	F/R	10'-2" x 13'-6"	10'-0" x 13'-1"	10'-0" x 8'-0"
12000	12'-4" x 12'-0"	14'-4" x 12'-8"	14'-4" x 12'-9 ¾"	4'-6"	F	12'-2" x 11'-7"	12'-0" x 11'-4 ½"	12'-0" x 8'-0"
12000	12'-4" x 12'-0"	14'-4" x 12'-10"	14'-4" x 13'-1 ½"	4'-6"	F/R	12'-2" x 11'-6"	12'-0" x 11'-1"	12'-0" x 8'-0"

Quick check for determining required overhead.

For 1 Stage Jack

A) Car Speed = Up to 150 FPM
B) Top Overtravel = 5”
C) Bottom Overtravel = 12”
D) Pit Depth = 4’-6”
E) Cab Height = 8’-0”

For 2 Stage Jack

A) Car Speed = Up to 150 FPM
B) Top Overtravel = 12”
C) Bottom Overtravel = 10”
D) Pit Depth = 4’-6”
E) Cab Height = 8’-0”

One Stage Jack Overhead Requirement for Single Section Gate:

- Minimum of 14’-6” overhead required for 14’-6” of travel and under. If over 14’-6” travel, overhead must equal or be greater than total travel.

One Stage Jack Overhead Requirement for Two Section Gate:

- Minimum of 12’-5” overhead required for 12’-5” of travel and under. If over 12’-5” travel, overhead must equal or be greater than total travel.

Two Stage Jack Overhead Requirement for Single Section Gate:

- Minimum of 15’-0” overhead required for 27’-2” of travel and under. Add ½” to 15’-0” for every additional 1” of travel over 27’-2”.

Two Stage Jack Overhead Requirement for Two Section Gate:

- Minimum of 13’-2” overhead required for 23’-6” of travel and under. Add ½” to 13’-2” for every additional 1” of travel over 23’-6”.

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