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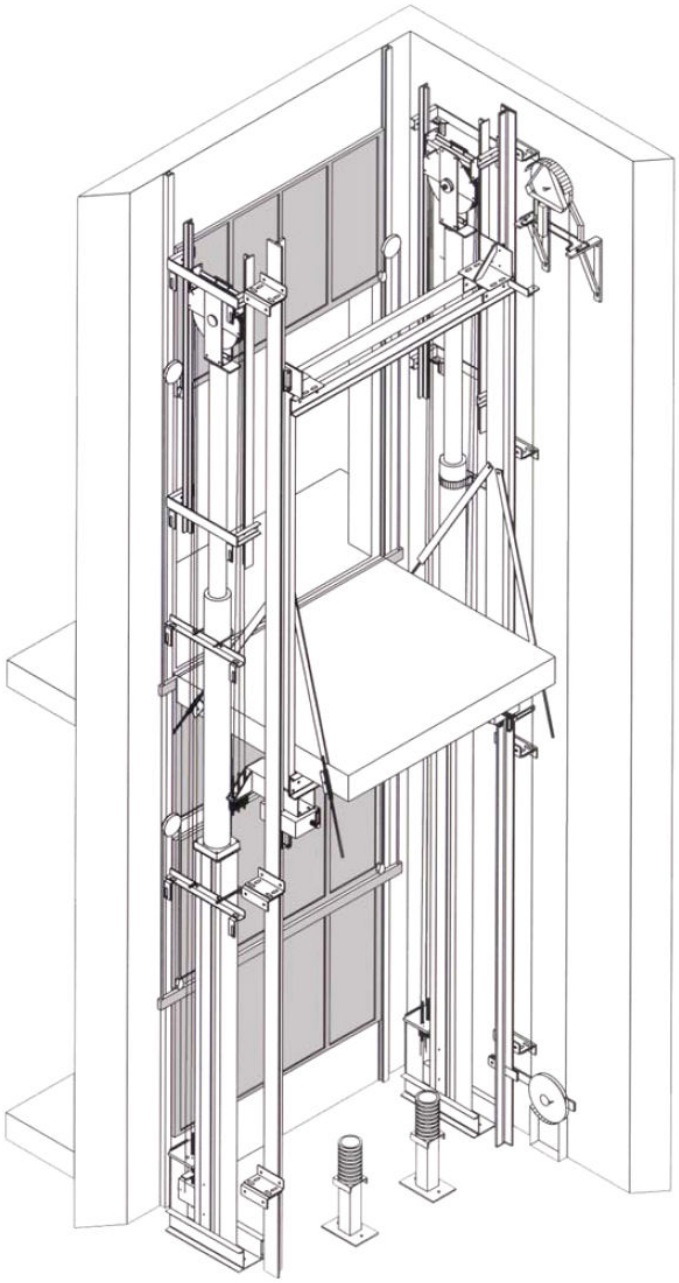
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Twin Jack Roped Freight

Application Summary

This design utilizes wire ropes in conjunction with two hydraulic jacks to lift the car at a 1:2 ratio. For every foot that the jacks rise, the car rises two feet. The use of two jacks, one on each side of the car, provides maximum structural stability.

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



Advantages:

- No jack holes are required even though the travel can be as great as 100 feet. Without any jacks in the ground, the risk of oil contamination is eliminated.
- Accommodates front and rear openings in any configuration.
- Available for both low and high capacity cars.
- No extensive pit or overhead is required.
- Large platform designs and high capacity projects can be accommodated.
- System oil requirements are minimized as a result of the 1:2 ratio.

Disadvantages:

- Requires a wider hoistway because the jacks and roped equipment are located on both sides of the car.
- The installation time is greater than that of a borehole application.

Roped Hydraulic Freight, Twin Jack

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"	9'-0" x 8'-8"	9'-0" 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"	9'-0" x 8'-10"	9'-0" 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"	10'-2" x 9'-8"	10'-2" 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"	10'-2" x 9'-10"	10'-2" 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'-6" x 10'-8"	12'-6" x 10'-9 ¾"	4'-6"	F	10'-0" x 9'-7"	10'-0" x 9'-4 ½"	10'-0" x 8'-0"
6000	10'-4" x 10'-0"	12'-6" x 10'-10"	12'-6" x 11'-1 ½"	4'-6"	F/R	10'-0" x 9'-6"	10'-0" x 9'-1"	10'-0" x 8'-0"
8000	10'-4" x 12'-0"	12'-10" x 12'-8"	12'-10" x 12'-9 ¾"	4'-6"	F	10'-0" x 11'-7"	10'-0" x 11'-4 ½"	10'-0" x 8'-0"
8000	10'-4" x 12'-0"	12'-10" x 12'-10"	12'-10" x 13'-1 ½"	4'-6"	F/R	10'-0" x 11'-6"	10'-0" x 11'-1"	10'-0" x 8'-0"
10000	10'-4" x 14'-0"	13'-0" x 14'-8"	13'-0" x 14'-9 ¾"	4'-6"	F	10'-0" x 13'-7"	10'-0" x 13'-4 ½"	10'-0" x 8'-0"
10000	10'-4" x 14'-0"	13'-0" x 14'-10"	13'-0" x 15'-1 ½"	4'-6"	F/R	10'-0" x 13'-6"	10'-0" x 13'-1"	10'-0" x 8'-0"
12000	12'-4" x 12'-0"	15'-8" x 12'-8"	15'-8" x 12'-9 ¾"	5'-0"	F	12'-0" x 11'-7"	12'-0" x 11'-4 ½"	12'-0" x 8'-0"
12000	12'-4" x 12'-0"	15'-8" x 12'-10"	15'-8" x 13'-1 ½"	5'-0"	F/R	12'-0" x 11'-6"	12'-0" x 11'-1"	12'-0" x 8'-0"
15000	12'-4" x 16'-0"	16'-0" x 16'-8"	16'-0" x 16'-9 ¾"	5'-0"	F	12'-0" x 15'-7"	12'-0" x 15'-4 ½"	12'-0" x 8'-0"
15000	12'-4" x 16'-0"	16'-0" x 16'-10"	16'-0" x 17'-1 ½"	5'-0"	F/R	12'-0" x 15'-6"	12'-0" x 15'-1"	12'-0" x 8'-0"
20000	12'-4" x 20'-0"	16'-0" x 20'-8"	16'-0" x 20'-9 ¾"	5'-0"	F	12'-0" x 19'-7"	12'-0" x 19'-4 ½"	12'-0" x 8'-0"
20000	12'-4" x 20'-0"	16'-0" x 20'-10"	16'-0" x 21'-1 ½"	5'-0"	F/R	12'-0" x 19'-6"	12'-0" x 19'-1"	12'-0" x 8'-0"
25000	14'-4" x 20'-0"	18'-0" x 20'-8"	18'-0" x 20'-9 ¾"	5'-6"	F	14'-0" x 19'-7"	14'-0" x 19'-4 ½"	14'-0" x 8'-0"
25000	14'-4" x 20'-0"	18'-0" x 20'-10"	18'-0" x 21'-1 ½"	5'-6"	F/R	14'-0" x 19'-6"	14'-0" x 19'-1"	14'-0" x 8'-0"

Notes:
Overhead dimensions are based on 6 foot high car gate.
Two section car gates are not recommended for high usage installations or wide openings.
For extra high door opening requirements, or special conditions, consult your representative.

ASME A17.1 code requirements for minimum rated capacity are as follows:

Class A (General Freight Loading) – 50 lbs. per sq. ft.
Class B (Motor Vehicle Loading) – 30 lbs. per sq. ft.
Class C-1 (Industrial Truck Loading – truck carried by elevator) – 50 lbs. per sq. ft., but not less than load, including weight of truck.
Class C-2 (Industrial Truck Loading – truck is normally used for loading and unloading only, and is not usually carried by elevator) – for elevators of 20,000 lbs. capacity or less capacity shall equal the weight of the loaded truck – maximum load on platform during loading and unloading not exceed 150% of rated load.
Class C-3 (Other loading with heavy concentrations where truck is not usually used) – 50 lbs. per sq. ft., but not less than load.
Note: Square feet area of platform is determined by net inside area.

General Note:
1 lb. = 0.454 kg. $1ft^2 = 9.29$ E-$2m^2$

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