

Traction Geared

This application utilizes a hoist machine, ropes and counterweights. Front and rear openings of any configuration can be used. The main guide rails are mounted in the hoistway at each side of the car. There is also a pair of counterweight rails located on either one side or the rear of the hoistway. Several rope/sheave arrangements are used, depending upon the specific requirements. The geared machine along with the related drive equipment is generally located atop the hoistway in the penthouse/machine room or in some limited situations can be located next to the hoistway at a lower landing. It can be used with both passenger and service applications.

Advantages:

- No risk of oil contamination to the ground.
- An almost unlimited floor travel and capacity with multiple front, rear and or side openings.
- Faster car speeds than those of the hydraulic type applications.
- A wide range of capacities are available from low capacity passenger cars to high capacity freight cars.
- With the use of counterweights, power efficiency is greater than that of a hydraulic elevator.

Disadvantages:

- Material cost can be substantially higher than that of all the hydraulic types offered.
- Structural considerations.
- Elevator maintenance cost is generally higher than a hydraulic elevator.
- Equipment delivery as well as the installation time is longer than that of a hydraulic elevator.

If this is the type of elevator you are looking for, please contact us for capacity, hoistway, and car dimensions.