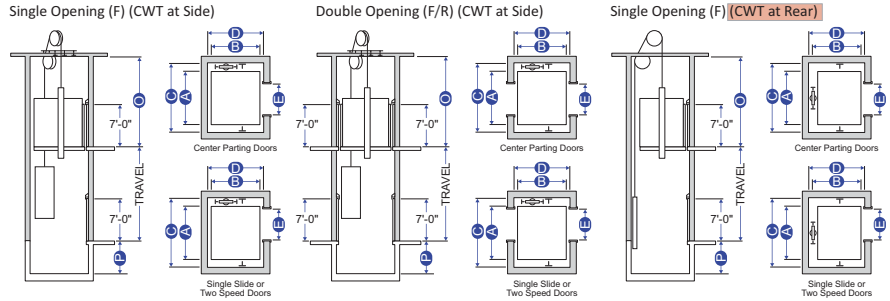
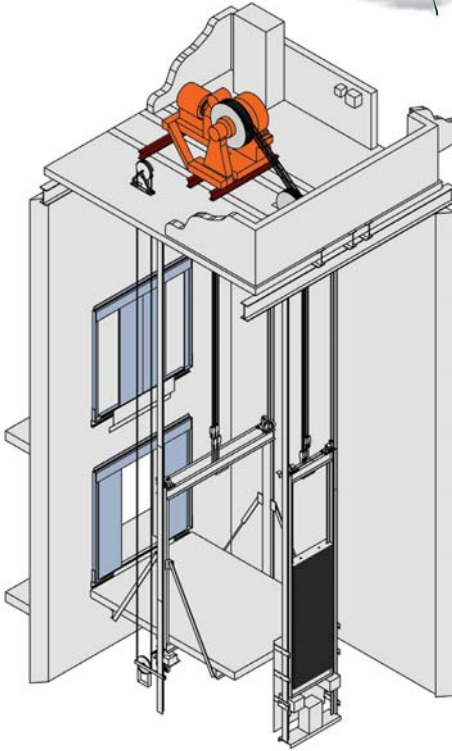




**green tip**

Regenerative drives available.

Call MEI for Sizes or Capacities Outside Listed Ranges **507.245.3060**



**A** = Platform Width      **C** = Hoistway Width      **E** = Clear Door Opening      **P** = Pit Depth  
**B** = Platform Depth      **D** = Hoistway Depth      **O** = Overhead

**Application Summary**

This design utilizes a geared machine, ropes, and counterweights instead of hydraulic equipment. The main guide rails are mounted on each side of the car and an additional pair of counterweight rails is located on one side or at the rear. The geared machine, along with the related drive equipment, is generally located above the hoistway in a penthouse machine room. In some limited situations, it can be located next to the hoistway at a lower landing. This latter arrangement is referred to as a basement traction.

**Advantages**

- No risk of oil contamination to the ground.
- Accommodates front and rear openings in any configuration.
- Available for both low and high capacity cars.
- Nearly unlimited floor travel is possible.
- Has greater power efficiency than hydraulic applications.
- Allows significantly higher car speeds than hydraulic designs.

**Disadvantages**

- The material cost is substantially higher than that of hydraulic applications.
- There are structural building considerations because the elevator is supported by the top of the hoistway.
- Elevator maintenance cost is generally greater than that of hydraulic elevators.
- Cycle time for securing the material package and installing it is generally longer than that of hydraulic elevators.

|                      | Cap. (lbs)          | Platform A x B          | Hoistway C x D      | Front/ Rear | Cwt. Location       | Laminate Clear Inside W x D | Door Type | Door Width E | Max Speed FPM | Minimum Overhead O | Minimum Pit Depth P |
|----------------------|---------------------|-------------------------|---------------------|-------------|---------------------|-----------------------------|-----------|--------------|---------------|--------------------|---------------------|
| <b>Low Capacity</b>  | 2100                | 6'-0" x 5'-1"           | 7'-4" x 6'-7 1/2"   | F           | Rear                | 5'-9" x 4'-3 1/2"           | 1-SP      | 3'-0"        | 350           | 16'-0"             | 5'-2"               |
|                      | 2500                | 7'-0" x 5'-1"           | 8'-4" x 6'-7 1/2"   | F           | Rear                | 6'-9" x 4'-3 1/2"           | 1-SP      | 3'-6"        | 350           | 16'-0"             | 5'-2"               |
|                      | 3000                | 7'-0" x 5'-6"           | 8'-4" x 7'-0 1/2"   | F           | Rear                | 6'-9" x 4'-8 1/2"           | 1-SP      | 3'-6"        | 350           | 16'-0"             | 5'-2"               |
|                      | 3500                | 7'-0" x 6'-2"           | 8'-4" x 7'-8 1/2"   | F           | Rear                | 6'-9" x 5'-4 1/2"           | 1-SP      | 3'-6"        | 350           | 16'-0"             | 5'-2"               |
|                      | 4000                | 8'-0" x 6'-2"           | 9'-4" x 7'-8 1/2"   | F           | Rear                | 7'-9" x 5'-4 1/2"           | 1-SP      | 4'-0"        | 350           | 16'-0"             | 5'-2"               |
|                      | 2100                | 6'-0" x 5'-1"           | 7'-10" x 5'-9"      | F           | Side                | 5'-9" x 4'-3 1/2"           | 1-SP      | 3'-0"        | 350           | 16'-0"             | 5'-2"               |
| <b>Hospital</b>      | 2500                | 7'-0" x 5'-1"           | 8'-10" x 5'-9"      | F           | Side                | 6'-9" x 4'-3 1/2"           | 1-SP      | 3'-6"        | 350           | 16'-0"             | 5'-2"               |
|                      | 3000                | 7'-0" x 5'-6"           | 8'-10" x 6'-2"      | F           | Side                | 6'-9" x 4'-8 1/2"           | 1-SP      | 3'-6"        | 350           | 16'-0"             | 5'-2"               |
|                      | 3500                | 7'-0" x 6'-2"           | 8'-10" x 6'-10"     | F           | Side                | 6'-9" x 5'-4 1/2"           | 1-SP      | 3'-6"        | 350           | 16'-0"             | 5'-2"               |
|                      | 3500                | 7'-0" x 6'-9"           | 8'-10" x 7'-9 1/2"  | F/R         | Side                | 6'-9" x 5'-4 1/2"           | 1-SP      | 3'-6"        | 350           | 16'-0"             | 5'-2"               |
|                      | 4000                | 8'-0" x 6'-2"           | 9'-10" x 6'-10"     | F           | Side                | 7'-9" x 5'-4 1/2"           | 1-SP      | 4'-0"        | 350           | 16'-0"             | 5'-2"               |
|                      | 4000                | 8'-0" x 6'-8"           | 9'-10" x 7'-8 1/2"  | F/R         | Side                | 7'-9" x 5'-3 1/2"           | 1-SP      | 4'-0"        | 350           | 16'-0"             | 5'-2"               |
|                      | 3500H               | 5'-4" x 8'-4"           | 7'-2" x 9'-2"       | F           | Side                | 5'-1" x 7'-5"               | 2-SP      | 3'-6"        | 350           | 16'-0"             | 5'-2"               |
|                      | 3500H               | 5'-4" x 9'-0 1/2"       | 7'-2" x 10'-4"      | F/R         | Side                | 5'-1" x 7'-5"               | 2-SP      | 3'-6"        | 350           | 16'-0"             | 5'-2"               |
|                      | 4000H               | 6'-0" x 8'-5"           | 7'-10" x 9'-3"      | F           | Side                | 5'-9" x 7'-6"               | 2-SP      | 4'-0"        | 350           | 16'-0"             | 5'-2"               |
|                      | 4000H               | 6'-0" x 9'-1 1/2"       | 7'-10" x 10'-5"     | F/R         | Side                | 5'-9" x 7'-6"               | 2-SP      | 4'-0"        | 350           | 16'-0"             | 5'-2"               |
| <b>High Capacity</b> | 4500H               | 6'-0" x 9'-2"           | 7'-10" x 10'-0"     | F           | Side                | 5'-9" x 8'-3"               | 2-SP      | 4'-0"        | 350           | 16'-0"             | 5'-2"               |
|                      | 4500H               | 6'-0" x 9'-10 1/2"      | 7'-10" x 11'-2"     | F/R         | Side                | 5'-9" x 8'-3"               | 2-SP      | 4'-0"        | 350           | 16'-0"             | 5'-2"               |
|                      | 5000H               | 6'-0" x 9'-7 1/2"       | 7'-10" x 10'-5 1/2" | F           | Side                | 5'-9" x 8'-8"               | 2-SP      | 4'-0"        | 350           | 16'-6"             | 5'-2"               |
|                      | 5000H               | 6'-0" x 10'-3 1/2"      | 7'-10" x 11'-7"     | F/R         | Side                | 5'-9" x 8'-8"               | 2-SP      | 4'-0"        | 350           | 16'-6"             | 5'-2"               |
|                      | 6000                | 7'-0" x 8'-6"           | 8'-10" x 9'-4"      | F           | Side                | 6'-9" x 7'-7"               | 2-SP      | 4'-0"        | 350           | 16'-6"             | 5'-2"               |
|                      | 6000                | 7'-0" x 9'-2 1/2"       | 8'-10" x 10'-6"     | F/R         | Side                | 6'-9" x 7'-7"               | 2-SP      | 4'-0"        | 350           | 16'-6"             | 5'-2"               |
|                      | 8000                | 8'-4" x 10'-0"          | 10'-2" x 10'-8 1/2" | F           | Side                | 8'-1" x 9'-2 1/2"           | 1-SP      | 4'-0"        | 350           | 16'-6"             | 5'-2"               |
|                      | 8000                | 8'-4" x 10'-8 1/2"      | 10'-2" x 11'-9"     | F/R         | Side                | 8'-1" x 9'-4"               | 1-SP      | 4'-0"        | 350           | 16'-6"             | 5'-2"               |
|                      | 10000               | 8'-4" x 11'-8 1/2"      | 10'-8" x 12'-5"     | F           | Side                | 8'-1" x 10'-11"             | 1-SP      | 4'-6"        | 225           | 16'-6"             | 6'-0"               |
|                      | 10000               | 8'-4" x 12'-5"          | 10'-8" x 13'-5 1/2" | F/R         | Side                | 8'-1" x 11'-0 1/2"          | 1-SP      | 4'-6"        | 225           | 16'-6"             | 6'-0"               |
| 12000                | 10'-3" x 11'-6"     | 12'-7 1/2" x 12'-2 1/2" | F                   | Side        | 10'-1" x 10'-8 1/2" | 1-SP                        | 5'-0"     | 200          | 16'-6"        | 6'-0"              |                     |
| 12000                | 10'-3" x 12'-0"     | 12'-7 1/2" x 13'-0 1/2" | F/R                 | Side        | 10'-1" x 10'-7 1/2" | 1-SP                        | 5'-0"     | 200          | 16'-6"        | 6'-0"              |                     |
| 15000                | 12'-0" x 11'-6"     | 14'-6" x 12'-2 1/2"     | F                   | Side        | 11'-9" x 10'-8 1/2" | 1-SP                        | 6'-0"     | 150          | 17'-0"        | 6'-0"              |                     |
| 15000                | 12'-0" x 12'-1 1/2" | 14'-6" x 13'-2"         | F/R                 | Side        | 11'-9" x 10'-9"     | 1-SP                        | 6'-0"     | 150          | 17'-0"        | 6'-0"              |                     |

Based on car speed of 200 fpm • Cab Height = 8'-0" • For seismic applications add 3" to hoistway width

Speeds exceeding 200 FPM require additional overhead and pit depth. Minimum pit depth is based on the use of spring buffers. Add 5" to pit depth if oil buffers are required or car speed exceeds 200 FPM.

225 FPM = add 6" of overhead & 5" of pit depth  
 250 FPM = add 7" of overhead & 5" of pit depth  
 300 FPM = add 8" of overhead & 5" of pit depth  
 350 FPM = add 10" of overhead & 5" of pit depth

Contact us for your next custom Gearless elevator package. MEI provides gearless cars up to 11,000 lb. capacity at 500 FPM.

**⚠** Do not use hoistway dimensions for construction purposes. Different code year adoptions and local code variations may affect the hoistway size. Verify all dimensions with MEI prior to construction.