



# Overhead Traction Mid Rise

## The OT™ Line:

The overhead traction elevator is the workhorse of most mid and high-rise buildings. AES has earned the respect of many architects who have specified these robust machines throughout North America. From offices to mixed-use and hospitality locations, our mid-rise track record is proof of our experience and capabilities.

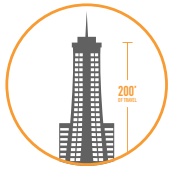
### Advantages:

- Faster Speed Capability
- Smooth ride
- More efficient than hydraulic
- No hydraulic oil needed
- Proven performance track record
- Standard & custom dimensions/interiors available

### Equipment Capabilities:

- Passenger and service cars
- Capacities from 2,100 - 5,000 lbs
- Speeds up to 350 FPM
- Unlimited travel range
- Machine (penthouse) is required

**ALLIANCE**  
ELEVATOR SOLUTIONS



# OVERHEAD TRACTION

Mid Rise

| Capacity (lbs.)              | Openings (Front/Rear) | Door Type and Width | Platform Size W x D (min) | Max Speed (FPM) | Hoistway Size W x D (min) | Clear Inside W x D (min) | Minimum Overhead | Minimum Pit Depth |
|------------------------------|-----------------------|---------------------|---------------------------|-----------------|---------------------------|--------------------------|------------------|-------------------|
| <b>Counterweight at Rear</b> |                       |                     |                           |                 |                           |                          |                  |                   |
| 2100                         | F                     | 1SP 36"             | 6'-0" X 5'-1"             | 350             | 7'-4" X 6'-8"             | 5'-8" X 4'-3"            | 16'-0"           | 5'-2"             |
| 2500                         | F                     | 1SP 42"             | 7'-0" X 5'-1"             | 350             | 8'-4" X 6'-8"             | 6'-8" X 4'-3"            | 16'-0"           | 5'-2"             |
| 3000                         | F                     | 1SP 42"             | 7'-0" X 5'-6"             | 350             | 8'-4" X 7'-1"             | 6'-8" X 4'-8"            | 16'-0"           | 5'-2"             |
| 3500                         | F                     | 1SP 42"             | 7'-0" X 6'-3"             | 350             | 8'-4" X 7'-10"            | 6'-8" X 5'-5"            | 16'-0"           | 5'-2"             |
| 4000                         | F                     | 1SP 48"             | 8'-0" X 6'-3"             | 350             | 9'-4" X 7'-10"            | 7'-8" X 5'-5"            | 16'-0"           | 5'-2"             |
| <b>Counterweight at Side</b> |                       |                     |                           |                 |                           |                          |                  |                   |
| 2100                         | F                     | 1SP 36"             | 6'-0" X 5'-1"             | 350             | 8'-4" X 5'-10"            | 5'-8" X 4'-3"            | 16'-0"           | 5'-2"             |
| 2500                         | F                     | 1SP 42"             | 7'-0" X 5'-1"             | 350             | 9'-4" X 5'-10"            | 6'-8" X 4'-3"            | 16'-0"           | 5'-2"             |
| 3000                         | F                     | 1SP 42"             | 7'-0" X 5'-6"             | 350             | 9'-4" X 6'-3"             | 6'-8" X 4'-8"            | 16'-0"           | 5'-2"             |
| 3500                         | F                     | 1SP 42"             | 7'-0" X 6'-3"             | 350             | 9'-4" X 7'-0"             | 6'-8" X 5'-5"            | 16'-0"           | 5'-2"             |
| 3500                         | F&R                   | 1SP 42"             | 8'-0" X 6'-9"             | 350             | 9'-4" X 7'-9½"            | 7'-8" X 5'-5"            | 16'-0"           | 5'-2"             |
| 4000                         | F                     | 1SP 48"             | 8'-0" X 6'-3"             | 350             | 10'-4" X 7'-0"            | 7'-8" X 5'-5"            | 16'-0"           | 5'-2"             |
| 4000                         | F&R                   | 1SP 48"             | 8'-0" X 6'-9"             | 350             | 10'-4" X 6'-9½"           | 7'-8" X 5'-5"            | 16'-0"           | 5'-2"             |
| 3500H                        | F                     | 2SP 42"             | 5'-4" X 8'-4"             | 350             | 7'-2" X 9'-2"             | 5'-0" X 7'-4"            | 16'-0"           | 5'-2"             |
| 3500H                        | F&R                   | 2SP 42"             | 5'-4" X 9'-0"             | 350             | 7'-2" X 10'-3½"           | 5'-0" X 7'-4"            | 16'-0"           | 5'-2"             |
| 400H                         | F                     | 2SP 48"             | 6'-0" X 8'-5"             | 350             | 7'-10" X 9'-3"            | 5'-8" X 7'-5"            | 16'-0"           | 5'-2"             |
| 4000H                        | F&R                   | 2SP 48"             | 6'-0" X 9'-1"             | 350             | 7'-10" X 10'-4½"          | 5'-8" X 7'-5"            | 16'-0"           | 5'-2"             |
| 4500H                        | F                     | 2SP 48"             | 6'-0" X 8'-9"             | 350             | 7'-10" X 9'-7"            | 5'-8" X 7'-9"            | 16'-0"           | 5'-2"             |
| 4500H                        | F&R                   | 2SP 48"             | 6'-0" X 9'-6"             | 350             | 7'-10" X 10'-9½"          | 5'-8" X 7'-10"           | 16'-0"           | 5'-2"             |
| 5000H                        | F                     | 2SP 48"             | 6'-0" X 9'-8"             | 350             | 7'-10" X 10'-7"           | 5'-8" X 8'-8"            | 16'-0"           | 5'-2"             |
| 5000H                        | F&R                   | 2SP 48"             | 6'-0" X 10'-4"            | 350             | 7'-10" X 11'-7½"          | 5'-8" X 8'-8"            | 16'-0"           | 5'-2"             |

Maximum\* Inside Net Platform Areas for the Various Rated Loads

| Rated Load (lbs.) | Inside Net Platform Area (ft²) |
|-------------------|--------------------------------|
| 500               | 7.0                            |
| 600               | 8.3                            |
| 700               | 9.6                            |
| 1,000             | 13.25                          |
| 1,200             | 15.6                           |
| 1,500             | 18.9                           |
| 1,800             | 22.1                           |
| 2,000             | 24.2                           |
| 2,500             | 29.1                           |
| 3,000             | 33.7                           |
| 3,500             | 38.0                           |
| 4,000             | 42.2                           |
| 4,500             | 46.2                           |
| 5,000             | 50.0                           |
| 6,000             | 57.7                           |
| 7,000             | 65.3                           |
| 8,000             | 72.9                           |
| 9,000             | 80.5                           |
| 10,000            | 88.0                           |
| 12,000            | 103.0                          |
| 15,000            | 125.1                          |
| 18,000            | 146.9                          |
| 20,000            | 161.2                          |
| 25,000            | 196.5                          |
| 30,000            | 231.0                          |

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 and 5" of pit depth  
250 FPM = add 7" of overhead and 5" of pit depth  
300 FPM = add 8" of overhead and 5" of pit depth  
250 FPM = add 10" of overhead and 5" of pit depth

\*To allow for variations in cab designs, and increase in the maximum inside net platform areas not exceeding 5% shall be permitted for the various rated loads. General Note: 1lb. = 0.454kg - 1ft² = 0.0929m²