



NDARDS@FXCELLENCE

The Montgomery Planning Guide provides dimensional data on the full range of equipment manufactured by Montgomery including Passenger, Service & Freight Elevators (Gearless & Geared Traction and Hydraulic) as well as Escalators, Power Walks and Power Ramps. The information provided explains Montgomery standards designed to meet virtually any vertical transportation need.

Montgomery Standards of Excellence offer our Customers Standards of Choice. These standards are the foundation from which design choice can create the exact vertical transportation system required. Montgomery personnel are continuously trained in the proper application of our complete product line. Building traffic analysis, preliminary layout planning and specification preparation are some of the design services offered by Montgomery to tailor equipment to the precise traffic handling requirements of the proposed installation.

MEGALECH Elevator advanced components:

For nearly 100 years, Montgomery has maintained the highest standards of quality in the design and manufacture of vertical transportation equipment. Our on-going program of Research & Development has pioneered many new application approaches which have become industry standards. Our dedication to Research & Development has now created an expanding family of advanced power controls, programmable logic controls along with products incorporating 21st Century lightweight/high strength designs. MEGATECH ELEVATOR ADVANCED COMPONENTS, Montgomery Standards of Excellence providing even greater customer opportunity for Standards of Choice:



Fully Integrated Elevator Fixture System



Lightweight/High Strength Passenger Elevator Enclosures

Standard/Steel Passenger Elevator Enclosures

CTX Standard Geared Traction Passenger Elevator System

Standard Holeless Hydraulic Passenger Elevator System

Properties Hydraulic Passenger Elevator System

Standard Inground Hydraulic Passenger Elevator System

Reprogrammable Microcomputer Logic Control Systems

SPECTRON Solid State A.C. Power Control

Solid State High Performance D.C. Power Control

Total Elevator Diagnostic System

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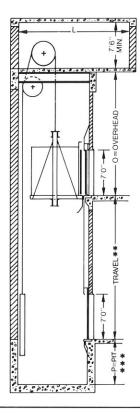
PASSENGER ELEVATORS

High & Moderate Speed Traction Basement (type) Traction Hospital Shape (passenger/service) Hydraulic (passenger/service) HH-II Holeless Hydraulic MX-3 Inground Hydraulic	4 5 6 8
ENTRANCES Passenger Type	
FREIGHT ELEVATORS Traction 1 Hydraulic 1	
ESCALATORS Crystal & Solid Balustrade 12 & 1 Standard Equipment	
POWER WALKS & POWER RAMPS 1	5
SALES/SERVICE OFFICES 1	6

TRACTION PASSENGER ELEVATORS

High Speed:

High-Speed Traction Elevators meet the need for high quality performance with speeds to 1200 fpm. Heavy traffic demands are served by MIPROM II® Microcomputer Group Logic Systems.

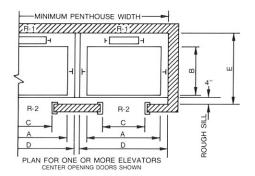


Moderate Speed:

Moderate Speed Traction Elevators perform efficiently and economically when serving traffic demands in medium and low rise buildings.

HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS. National Elevator Industry, Inc. (NEII) Handicapped Standards are: Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access. Tactile markings for operating switches, buttons and hoistway door jambs. Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns. CAR SIZE: Certain minimums may apply. Consult your Montgomery Professional.

For hoistway entrance and sill detail information see page 7.



l l	RECOMMENDED SIZES AND CAPACITIES									
TYPE BUILDING	SMALL OFFICE		E OFFICE TEL	LARGE OFFICE OR STORE						
CAPACITY	2000#	2500#†	3000#+	3500#+						
A	6'- 0"	7'- 0"	7'-0"	7'-0"						
В	5'- 0"	5'- 0"	5'-6"	6'-2"						
C	3'- 0"	3'- 6"	3'-6"	3'-6"						
D	7'- 4"	8'- 4"	8'-4"	8'-4"						
E	6'-10"	6'-10"	7'-4"	8'-0"						

	OVERHEAD LOADS/LBS. (APPROXIMATE) PER						ELEVAT	OR
CAPACITY	UP TO 350 FPM+		400	FPM	500 FPM-T	O-700 FPM	800 FPM-T0	O-1200 FPM
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
2000#	18500	9500	N/A	N/A	N/A	N/A	N/A	N/A
+2500#	22000	11500	25000	15000	28000	18000	31000	21000
+3000#	23000	11500	26000	15000	29000	18000	32000	22000
+3500#	24500	13000	28000	16000	30000	19000	33000	23000

	MINIMUM PIT-OVERHEAD & MACHINE ROOM DIMENSIONS										
SPEED	200+	300	350+	400	500	600	700	*800	*1000	*1200	
L	16'-0"	15'-0"	15'-0"	15'-0"	18'-6"	18'-6"	18'-6"	18'-6"	18'-6"	18'-6"	
0	15'-6"	16'-0"	16'-6"	16'-8"	17'-6"	18'-6"	19'-6"	21'-6"	21'-6"	23'-0"	
Р	5'-0''	5'-0"	5'-0''	5'-7''	7'-8"	8'-6"	9'-2"	12'-0"	12'-0"	12'-0"	

NOTES:

- Duties noted conform to Montgomery CTXTM standard Geared Traction applications. Consult your Montgomery Professional for more information on CTXTM
- Reactions include allowances for impact but DO NOT include weight of concrete slab.
- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
- 3. Add 5" to "E" for counterweight with safety.
- Add 5 to Ellor Counterweight with salety.
 Layouts and dimensions shown are for center opening type entrances. Other types available.
- 5. Dimension "O" based on standard height elevator cab.
- 6. All data is general. Sizes/speeds shown explain frequently used duties. Number of floors served, car size, speed and cab design are the result of actual application. Consult your Montgomery Professional for specific recommendations where space is limited and/or other conditions necessitate further study. Your Montgomery Professional can help provide exact information for your working drawings.
- * Add 2" to Dimension "D" for car speed over 700 FPM.
- ** When car travel is over 150 feet, add ¼" to overall hoistway width and depth for each additional 25 feet of travel.
- *** Increase pit dimension for 400 FPM to 7'-8" where Cable COM-PENSATION is required.



MONTGOMERY PASSENGER ELEVATORS

Basement Type-Moderate Speed:

Basement type traction elevators are utilized for limited overhead conditions in new and existing buildings. The hoisting machine is off-set at the side of the hoistway. The machine may be located at any suitable elevation and need not be at the "basement." This type of elevator facilitates future floor expansion.

HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.

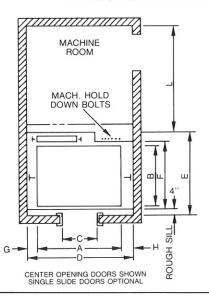
National Elevator Industry, Inc. (NEII) Handicapped Standards are:

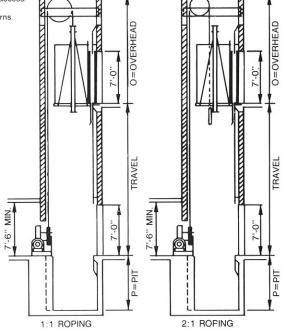
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access. Tactile markings for operating switches, buttons and hoistway door jambs.

Handrails in car – dual ray door protection – audible signals in car position indicator and lanterns.

CAR SIZE: Certain minimums may apply. Consult your Montgomery Professional.

For hoistway entrance and sill detail information see page 7.





1:1 ROPING ARRANGEMENT

is used when only moderate overhead clearance is available, and only when a shallow pit depth is feasible.

RECOMMENDED SIZES & CAPACITIES

POSSESSION SALES				
TYPE BUILDING	APARTMENT OR SMALL OFFICE	AVERAGI HO	E OFFICE TEL	LARGE OFFICE OR STORE
CAPACITY	2000#	2500#	3000#	3500#
Α	6'- 0''	7'- 0"	7'- 0"	7'-0"
В	5'- 0''	5'- 0"	5'- 6"	6'-2"
C	3'- 0"	3'- 6"	3'- 6"	3'-6"
D	7'-10''	8'- 4"	8'- 4"	8'-4''
E	6'-10''	6'-10"	7'- 4"	8'-0''
F	5'- 5"	5'- 5"	5'-11"	6'-7''
G	11"	8"	8''	8"
Н	11"	8''	8''	8''
	RECOMMENDED	MACHIN	E ROOM	

RECOMMENDED MACHINE ROOM OVERHEAD & PIT DIMENSIONS

	OVERTICAD & TIT DIMENSIONS							
SPEED	100	200	250	300	350			
LOP	10'-6'' 16'-7'' 4'-0''	10'-6'' 17'-1'' 5'-0''	10'-6'' 17'-5'' 5'-0''	10'-6'' 17'-6'' 5'-0''	10'- 6'' 17'- 9'' 5'- 0''			

NOTES

- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
- Add 5" to "E" for counterweight with safety at speeds of 200 F.P.M. or more.
- Layouts and dimensions shown are for center opening type entrances.

2:1 ROPING ARRANGEMENT

permits a minimum overhead installation. Because of the sheave arrangement, it is necessary to have a greater pit depth than for a comparable 1:1 installation.

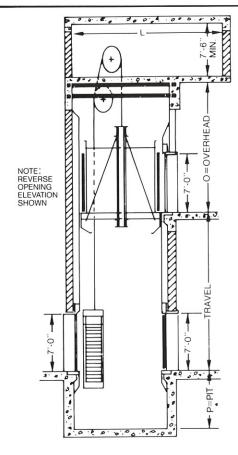
RECOMMENDED SIZES & CAPACITIES

TYPE BUILDING	APARTMENT OR SMALL OFFICE		E OFFICE TEL
CAPACITY	2000#	2500#	3000#
Α	6'- 0''	7'- 0"	7'- 0"
В	5'- 0''	5'- 0"	5'- 6"
C	3'- 0''	3'- 6"	3'- 6"
D	7'-10''	8'-10"	8'-10"
E	6'-10''	6'-10"	7'- 4"
F	5'- 5''	5'- 5"	5'-11"
G	10"	10"	10"
Н	12"	12''	12"

RECOMMENDED MACHINE ROOM OVERHEAD & PIT DIMENSIONS

THE RESERVE OF THE PARTY OF THE				
SPEED	100	200	250	300
ГО	10'-6'' 13'-0''	10'-6" 13'-2"	10'- 6''	10'-6'' 13'-8''
P	5'-6''	6'-6''	6'-11"	7'-4"

- 4. Dimension "O" based on standard height elevator cab.
- 5. All data is general. Sizes/speeds shown explain frequently used duties. Number of floors served, car size, speed and cab design are the result of actual application. Consult your Montgomery Professional for specific recommendations where space is limited and/or other conditions necessitate further study. Your Montgomery Professional can help provide exact information for your working drawings.



Hospital Shape (Passenger/Service):

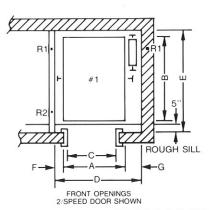
Passenger/Service (Hospital Shape) Traction Elevators are designed in a wide range of speeds for individual applications. Emergency and independent service as well as auxiliary power features are available.

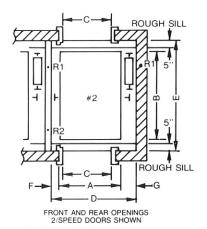
HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODÉS OR LAWS. National Elevator Industry, Inc. (NEII) Handicapped Standards are:

Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access. Tactile markings for operating switches, buttons and hoistway door jambs. Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns.

CAR SIZE: Certain minimums may apply. Consult your Montgomery Professional.

For hoistway entrance and sill detail information see page 7.





ONE OR MORE ELEVATORS

			RECO	MMENDE	D SIZES 8	& CAPACI	TIES		
CAP	ACITY	35	00#	400	00#	450	00#	500	00#
		#1	#2	#1	#2	#1	#2	#1	#2
	A B C D E F G	5'-4" 8'-4" 3'-8" 7'-4" 9'-3" 8" 1'-4"	5'-4" 9'-0" 3'-8" 7'-4" 10'-31 ₂ " 8" 1'-4"	5'-8" 8'-8" 4'-0" 7'-8" 9'-7" 8" 1'-4"	5'-8" 9'-4" 4'-0" 7'-8" 10'-7' ₂ " 8" 1'-4"	5'-8" 9'-4" 4'-0" 7'-8" 10'-3" 8" 1'-4"	5'-8" 10'-0" 4'-0" 7'-8" 11'-3'2" 8" 1'-4"	6'- 4" 8'-10" 4'- 6" 8'- 4" 9'- 9" 8" 1'-4"	6'-4" 9'-6" 4'-6" 8'-4" 10'-9½" 8" 1'-4"
		MINIMU	M PIT, OVE						
SF	PEED	1	00	2	00	3	50	5	00
	L O P	15	'-0'' '-6'' '-0''	18' 15' 4'		18'- 16'- 5'-		19'-0 17'-7 6'-7	

APPROXIMATE OVERHEAD LOADS/LBS. PER PASSENGER ELEVATOR										
CAPACITY	R-1	R-2								
3500	28500	10500								
4000	29500	11000								
4500	4500 30500 11500									
5000	36000	15500								

- Reactions include allowances for impact but DO NOT include weight of concrete slab.
- 2. Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary
- 3. Add 5" to "D" for counterweight with safety at speeds of 200 F.P.M. or
- 4. Layouts and dimensions shown are for two speed type entrances.
- Dimension "O" based on standard height elevator cab.
- All data is general. Sizes/speeds shown explain frequently used duties. Number of floors served, car size, speed and cab design are the result of actual application. Consult your Montgomery Professional for specific recommendations where space is limited and/or other conditions necessitate further study. Your Montgomery Professional can help provide exact information for your working drawings.
 - *5'-0" Pit required when "B" exceeds 9'-0"
- **5'-6" Pit required when "B" exceeds 9'-0"
- ***7'-8" Pit required with cable compensation.



montgomery Passenger & Service Elevators

Hydraulic:

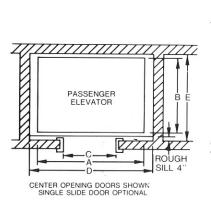
Hydraulic Elevators are designed to meet varying performance requirements with car speeds to 200 feet per minute and maximum travel to 70 feet. They are easily adapted to most low rise buildings and frequently produce economic advantages over hoist rope traction elevators.

HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.

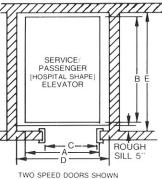
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Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns CAR SIZE: Certain minimums may apply. Consult your Montgomery Professional.

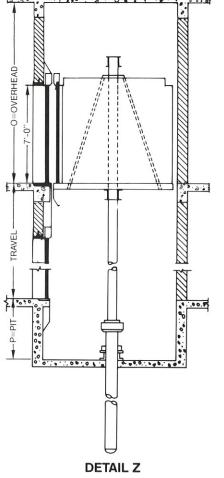
For hoistway entrance and sill detail information see page 7.



DETAIL X



DETAIL Y



		OFFICE BU ENTS, BAN ([S, LIBRARI		
CAPACITY	1500#	2000#	2500#	3000#	350	00#
Α	4'-10''	6'-0''	7'-0''	7'-0''	7'- 0''	8'-0''
В	5'- 0"	5'-0''	5'-0"	5'-6"	6'- 2"	5'-6"
C	2'- 8"	3'-0"	3'-6"	3'-6"	3'- 6"	4'-0"
D	6'- 8''	7'-4"	8'-4"	8'-4"	8'- 4"	9'-4"
E	5'- 9"	5'-9"	5'-9"	6'-3"	6'-11"	6'-3"
0	12'- 8"	12'-8"	12'-8"	12'-8"	12'- 8"	12'-8"
Р	4'- 0''	4'-0''	4'-0''	4'-0''	4'- 0''	4'-0''

	(De	tails Y & Z)		2 - Double E	Intrance	
CAPACITY	350	00#	40	00#	450	00#
	1	2	1	2	1	2
A	5'-4"	5'-4"	5'-8''	5'-8''	5'-8''	5'-8''
В	8'-4"	9'-0"	8'-8"	9'-4"	9'-4"	10'-0"
C	3'-8"	3'-8"	4'-0''	4'-0''	4'-0"	4'-0"
D	6'-9"	6'-9"	7'-4''	7'-4"	7'-4"	7'-4"
E	9'-3"	10'-31/2"	9'-7''	10'-71/2"	10'-3"	11'-31/2'
0	13'-0"	13'-0''	13'-0"	13'-0''	13'-0"	13'-0"
P	4'-0"	4'-0''	4'-0''	4'-0"	4'-0"	4'-0"

- DIES:
 A legal machine room meeting Code requirements and ventilated with temperature maintained between 65° and 100°F, must be provided. Machine room location preferably should be at the lowest landing adjacent to the hoistway. Machine room size varies depending on capacity and speed of elevator. Consult your Montgomery Professional for the exact size. Pit depths and overhead clearances are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
- requirements.
- Layout and dimensions shown for passenger elevators based on center opening type entrances and for hospital elevators
- based on two speed type entrances.
 Dimension "O" based on standard height elevator cab.
- All data is general. Sizes/speeds shown explain frequently used duties. Number of floors served, car size, speed and cab design are the result of actual application. Consult your Montgomery Professional for specific recommendations where space is limited and/or other conditions necessitate further study. Your Montgomery Professional can help provide exact information for your working drawings.

ELEVATOR ENTRANCES

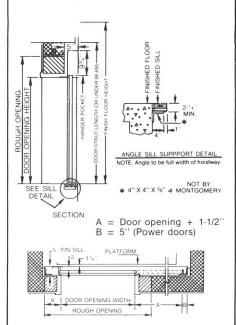
Passenger Entrances:

Montgomery standard entrances, as shown, are available in a wide range of finishes and materials designed for masonry wall installation (as shown) and also drywall application. Custom entrances are also available. Contact your local Montgomery Professional for details. NOTE: Wherever possible, front hoistway walls should not be erected until after door equipment is installed.

ROUGH OPENING (for standard unit-type frames installed in masonry walls): Width of door opening plus 8" on each side. Height of door opening plus 8" above.

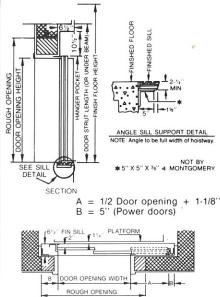
Single Speed Slide:

Maximum opening width approximately 1/2 width of car. Opening width should not exceed 3'-6". Provides a sliding door at moderate cost.



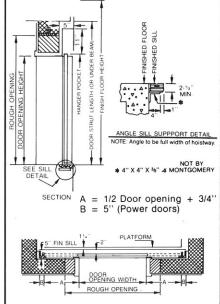
Two Speed Slide:

Door opening is approximately 2/3 width of car



Center Opening Slide:

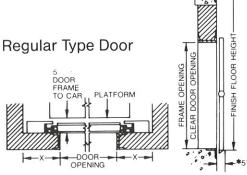
Opening is approximately 1/2 width of car. Simultaneous opening of each door panel, at equal speed, reduces opening time to 1/2 that required for other types of sliding doors.



Freight Doors:



NOTE: FREIGHT DOOR FRAMES AND SILLS NOT BY MONTGOMERY



	MINIMUM FLOOR HEIGHT BASED ON OPENING HEIGHT OF DOOR					
OPENING HEIGHT	REGULAR	⇒PASS TYPE				
OF DOOR	TYPE DOOR	DOOR				
6'-6''	10'-3''	9'-3''				
7'-0''	11'-0''	9'-9''				
7'-6''	11'-9''	10'-3''				
8'-0''	12'-6''	10'-9''				
8'-6''	13'-3''	11'-3''				
9'-0''	14'-0''	11'-9''				
10'-0''	15'-6''	12'-9''				

*Minimum floor heights shown for pass type doors may be reduced by using special constructed doors. Consult your local Montgomery Professional for exact information for your drawings.

Pass Type Door Ooon FRAME TO CAR PLATFORM TO

DIMENSION KEY

-DOOR-OPENING

- X –12" minimum return required for motorized door of either type shown.
- X –9" minimum return required for manual door of either type shown. Minimum pit depth = ½ door height plus 6". Pit depth for door may be more or less than pit depth required for elevator, depending on height of door. Door frames must extend to the floor beam above unless walls are poured concrete or brick.



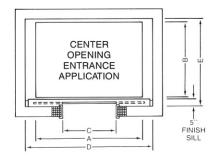


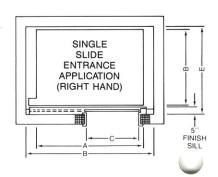
Holeless Hydraulic (three landing)



Montgomery offers a complete line of standard, quick delivery, competitively priced Hydraulic Passenger Elevators providing service for two and three landing structures. HH-Series Elevators (HH-II & HH-III) and the MX-3 offer the benefits of short lead time for fabrication and shipment as well as installation. HH-Series units are offered in two sizes while the MX-3 elevator is offered in a third size. In every case, all necessary approvals are accomplished on a single sheet!

Depending upon the unit chosen, and because of the broad range of STANDARD FEATURES made available on these units, Montgomery is able to fabricate and ship all necessary material in as little as six-to-eight weeks from the date of order and approval receipt. Regardless of their standardization and quick lead time characteristics, there is no customer sacrifice in the flexibility of entrance and decor options to "customize" any of these Passenger Elevators. The Montgomery Triad® Passenger Elevator Car is standard on all three elevators.



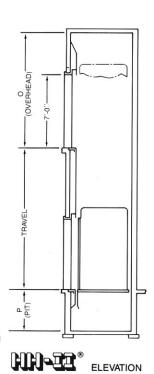


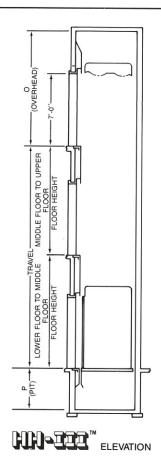
HH SERIES (HH-II® & HH-III™) CAPACITIES - SPEEDS - GENERAL DATA - SPACE REQUIREMENTS					
Ту	ре	Holeless	Hydraulic		
Sen	vice	Pass	enger		
Spe	ed	80 FPM 8	& 125 FPM		
Capa	acity	2000 lbs.	2500 lbs.		
Clear C (Wide >	ar Size (Deep)	5'-8'' x 4'-3''	6'-8'' x 4'-3''		
Alphabetical Dimensions	A B C D E (pit) P	6'-0'' 5'-0'' 3'-0'' 7'-4'' 5'-9'' 4'-0''	7'-0'' 5'-0'' 3'-6'' 8'-4'' 5'-9'' 4'-0''		
Overhe	ead (O)	Consult your Montgomery Professional			
Machin (W x l	e Room D x H)	7'-6'' x 5'-0'' x 7'-6'' (minimum)			
Entrance Types (All 7'-0'' High)		Single Slide R/H - Standard Single Slide L/H - Optional Center Opening - Optional			
Models Available		HH-II®	HH-III™		
Landing	s Served	Two (2) Inline	Three (3) Inline		
Minimu	m Travel	8'-4''	16'-8''		
Maximu	m Travel	20'-0'' *	20'-0'' *		

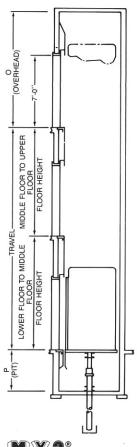
Notes:

- 1. HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.
 - National Elevator Industry, Inc. (NEII) Handicapped Standards are:
 - · Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy
 - Tactile markings for operating switches, buttons and hoistway door jambs.
 - · Handrails in car dual ray door protection - audible signals in car position indicator and lanterns.
 - CAR SIZE: Certain minimums may apply. Consult your Montgomery Professional.
- 2.For Hoistway entrance and sill detail information see page 7.
- 3.A legal machine room meeting code requirements and ventilated with temperature between 65° and 100°F must be provided.

STANDARDS TEXCELLENCE







ELEVATION

- 4.Pit depth and overhead clearance are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
- 5. Consult your local Montgomery Office for more information regarding Notes 3 and 4.
- All data is general. Consult your local Montgomery Professional for exact information for your working drawings.
- 7. R/H=RIGHT HAND

i.e. Standing in car facing door Door OPENS to right.

L/H=LEFT HAND

* For HH-Series, actual travel may require jack blockouts / holes in pit floor. Consult your Montgomery Professional.

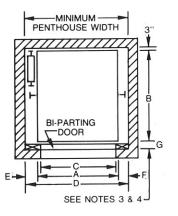
MX-3® CAPACITIES - SPEEDS - GENERAL DATA - SPACE REQUIREMENTS					
Ty	pe	Ir	ground Hydraul	ic	
Ser	vice		Passenger		
Sp	eed	80	FPM & 125 FP	PM	
Сар	acity	2000 lbs.	2500 lbs.	3000 lbs.	
	Car Size x Deep)	5'-8'' x 4'-3''	6'-8'' x 4'-3''	6'-8'' x 4'-9''	
Alphabetical Dimensions	A B C D E (pit) P	6'-0'' 5'-0'' 3'-0'' 7'-4'' 5'-9'' 4'-0''	7'-0'' 5'-0'' 3'-6'' 8'-4'' 5'-9'' 4'-0''	7'-0'' 5'-6'' 3'-6'' 8'-4'' 6'-3'' 4'-0''	
Overhe	ead (O)	12'-2'' @ 80 FPM 12'-4'' @ 125 FPM			
	e Room D x H)	7'-6" x 5'-0" x 7'-6" (minimum)			
Entrance Types (All 7'-0'' High)		Single Slide R/H - Standard Single Slide L/H - Optional Center Opening - Optional			
Landings Served		Three (3) Inline			
Minimu	m Travel		16'-8''		
Maximu	m Travel		25'-0''		

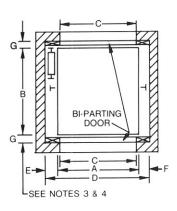


Traction:

Traction Freight Elevators meet and exceed the heavy duty requirements of freight type loading. Special applications are available to meet unusual and hazardous conditions. As an optional feature we recommend our automatic load weighing device, which warns against overloading. Also recommended are power operated hoistway doors and car gate(s) for medium and heavy duty installations.

For freight door details see page 7.





OVERHEAD TRAVEL

For further information regarding ANSI/ASME Freight Elevator Loading Classifications (Classes A, B, C-1, C-2 & C-3) consult your local Montgomery Professional.

LIG	LIGHT AND MEDIUM DUTY FREIGHT ELEVATORS					
CAPACITY	2500#	3000#	4000#	6000#	8000#	
A B C D E F L	5'- 4" 7'- 0" 5'- 0" 7'-10" 1'- 7" 11" 13'- 0"	6'- 4'' 8'- 0'' 6'- 0'' 8'-10'' 1'- 7'' 11'' 14'- 0''	6'- 4'' 8'- 0'' 6'- 0'' 8'-10'' 1'- 7'' 11'' 14'- 0''	8'- 4" 10'- 0" 8'- 0" 10'-10" 1'- 7" 11" 14'- 0"	8'- 4" 10'- 0" 8'- 0" 10'-10" 1'- 7" 11" 14'- 0"	

HEAVY DUTY POWER TRUCK LOADING FREIGHT ELEVATORS					
CAPACITY	10,000#	12,000#	16,000#	18,000#	20,000#
A B C D E F L	8'- 4" 12'- 0" 8'- 0" 11'- 4" 1'- 7" 11" 14'- 0"	10'- 4" 14'- 0" 10'- 0" 13'- 6" 1'- 7" 11" 15'- 0"	10'- 4" 14'- 0" 10'- 0" 14'- 0" 1'- 7" 11" 15'- 0"	10'- 4" 16'- 0" 10'- 0" 14'- 2" 1'- 7" 11" 17'- 0"	12'- 4" 20'- 4" 12'- 0" 16'- 6" 1'- 7" 11" 21'- 0"

MINIMUM PIT & OVERHEAD DIMENSIONS FOR LIGHT & MEDIUM DUTY FREIGHT ELEVATORS

١					
	CAR SPEED	50	75	100	200
	0	16'-0"	16'-0''	16'-0''	16'-0"
	P	5'-6"	5'-6"	5'-6''	6'-0''

NOTES:

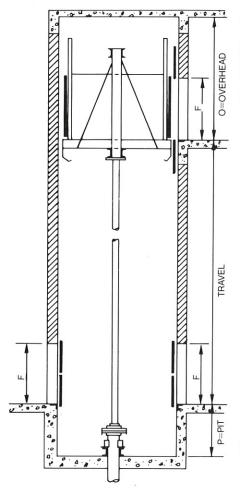
- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
- For capacities over 20,000 lbs. or speeds over 200 f.p.m., consult your Montgomery Professional.

 Dimension G = 5" for regular type counter balanced hoistway doors
- and 634" for pass type counter balanced hoistway doors.
- Pass type hoistway doors are required when floor heights are less than 11'-0" for 7'-0" openings and less than 14'-0" for 9'-0" openings. See chart on page 7 for other door sizes.

MINIMUM PIT & OVERHEAD DIMENSIONS FOR HEAVY DUTY POWER TRUCK FREIGHT ELEVATORS

t					
	CAR SPEED	50	75	100	200
	O P	Consul	t your Mont	gomery Prof	essional

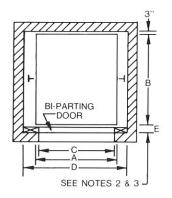
- Dimension H=7'-0" on light & medium duty and 8'-0" (or as required) for heavy duty doors. Doors higher than 8'-0" require additional overhead height.
- For large heavy duty doors consult your Montgomery Professional.
- All data is general. Consult your local Montgomery Professional for exact information for your working drawings. For reactions, consult your local Montgomery Professional.

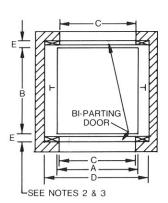


Hydraulic:

Hydraulic Freight Elevators also meet and exceed the heavy duty requirements of freight type loading. They are recommended for nominal speed and travel requirements. Features of this type elevator include minimum hoistway clearances, economical design of the hoistway and elimination of the overhead machine room. The recommended machine room location is at the lowest landing adjacent to the hoistway, but can be located in a semi-remote area from the hoistway.

For freight door information see page 7.





For further information regarding ANSI/ASME Freight Elevator Loading Classifications (Classes A, B, C-1, C-2 & C-3) consult your local Montgomery Professional.

LIGHT AND MEDIUM DUTY FREIGHT ELEVATORS						
CAPACITY	2000#	3000#	4000#	5000#	6000#	8000#
Α	5'- 0"	5'- 6"	6'- 6"	8'- 6"	8'-6"	8'-6"
В	6'- 0"	7'- 0"	8'- 0''	10'- 0"	12'-0"	12'-0"
C	4'- 8"	5'- 2"	6'- 2"	8'- 2"	8'-2"	8'-2"
D-manual	6'- 4"	6'-10"	7'-10"	9'-10"	10'-0''	10'-6"
doors						
D-power doors	6'-10"	7'- 4"	8'- 4"	10'- 4"	10'-6"	10'-6''
0-7'0"	13'- 2"	13'- 2"	13'- 2"	13'- 2"	13'-2"	13'-2"
high	10 2	10 2	10 - 2	10 - 2	10-2	10-2
doors						
O-8'-0''	14'- 2"	14'- 2"	14'- 2"	14'- 2"	14'-2"	14'-2"
high						
doors						
P	4'- 6"	4'- 6"	1'. 6"	4'- 6"	4'-6"	5'-0"

		The state of the state of					
Ĭ	CAPACITY	2000#	3000#	4000#	5000#	6000#	8000#
	Α	5'- 0"	5'- 6"	6'- 6"	8'- 6"	8'-6"	8'-6"
S	В	6'- 0"	7'- 0"	8'- 0"	10'- 0"	12'-0"	12'-0"
ŝ	C	4'- 8"	5'- 2"	6'- 2"	8'- 2"	8'-2"	8'-2"
	D-manual	6'- 4"	6'-10"	7'-10"	9'-10"	10'-0''	10'-6"
	doors						
	D-power doors	6'-10"	7'- 4"	8'- 4"	10'- 4"	10'-6''	10'-6''
	O-7'0''	13'- 2"	13'- 2"	13'- 2"	13'- 2"	13'-2"	13'-2"
	high						
	doors	14'- 2"	14'- 2"	14'- 2"	441 011	14'-2"	14'-2"
	O-8'-0''	14 - 2	14 - 2	14 - 2	14'- 2"	14'-2"	14'-2"
No.	high doors						
No.		41 011	41 011	41 011	41 011		
3	P	4'- 6"	4'- 6"	4'- 6"	4'- 6"	4'-6"	5'-0"

	ES	

- DIES: Dimensions O and P are based on car speeds up to 150 fpm. Dimension E=5" for regular type counter balanced hoistway doors and 634" for pass type counter balanced hoistway doors. Pass type hoistway doors are required when floor heights are less than 11'-0" for 7'-0" openings and less than 14'-0" for 9'-0" openings. See chart on page 7 for other door sizes. Dimension F=7'-0" on light and medium duty, 8'-0" or as required for beaux duty.
- quired for heavy duty.
- A legal machine room meeting Code requirements and ventilated with temperature maintained between 65° and 100°F, must be provided. Machine room location preferably should be at the lowest landing adjacent to the hoistway. Machine room size varies depending on capacity and speed of elevator. Consult your Montgomery Professional for the exact size.

POWER	HEAVY DUTY POWER TRUCK LOADING FREIGHT ELEVATORS						
CAPACITY	10,000#	12,000#	16,000#	18,000#	20,000#		
A	10'-6''	10'-6"	10'-6''	10'-6"	12'-6''		
В	14'-0''	14'-0"	16'-0''	16'-0"	20'-0"		
C	10'-2"	10'-2"	10'-2"	10'-2"	12'-2"		
D-manual	12'-6"	12'-6"	12'-6"	12'-6"	14'-6"		
doors D-power doors	12'-6''	12'-6''	12'-6''	12'-6"	14'-6''		
O-7'-0" high doors	13'-2"	13'-2"	13'-2"	13'-2"	13'-2"		
O-8'-0" high doors	14'-2"	14'-2"	14'-2"	14'-2"	14'-2"		
P	6'-0"	6'-0"	6'-0"	6'-0"	6'-0''		

- Pit depths and overhead clearances are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements
- 7. Layout and dimensions shown for freight elevators based on bi-parting counter-balanced type hoistway doors.

 8. Consult your local Montgomery Office for more information
- regarding Notes 5 and 6.

 9. For capacities over 20,000 lbs. and for large heavy doors, consult your Montgomery Professional.

 10. All data is general. Consult your local Montgomery Professional
- for exact information for your working drawings.

 11. For reactions, consult your local Montgomery Professional.



montgomery escalators

Escalators move more people at a lower cost per passenger than any other form of vertical transportation. They may be used as the primary carrier in retail buildings, in transportation terminals and in highly populated office buildings. They can also effectively augment elevator systems, especially in high rise office buildings, permitting elevator systems to provide more effective service to other areas of the building.

EFFICIENCY: two steps on the same level at entry and exit speeds and safeguards traffic "a montgomery exclusive"

DESIGN/ENGINEERING: heavy duty construction for long life and trouble free operation

LOW COST MAINTENANCE: attained by high quality heavy duty equipment

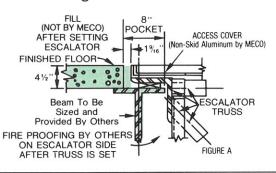
APPEARANCE: durable modern materials retain attractive appearance

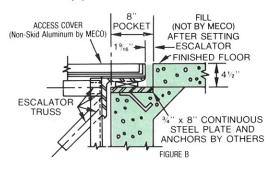
SAFETY: more and better safety devices than any other escalator

 $\textbf{DEPENDABILITY:} \ quickly \ and \ easily \ serviced \dots less \ down \ time$

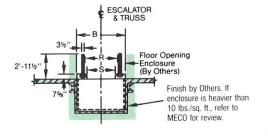
MANUFACTURE: designed and built in the UNITED STATES

crystal 2000® glass balustrade & solid balustrade-end support details

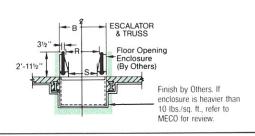




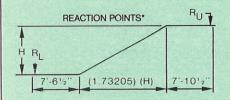
crystal 2000® glass balustrade-section



solid balustrade-section



	ESCALATOR	REACTIONS*
3E	ESCALATOR	
RL	(550)H + 10,000	RU = (550)H + 11,100
4E	ESCALATOR	
RL	(660)H + 10,570	RU = (660)H + 11,670
5E	ESCALATOR	
RL	(660)H + 11,650	RU = (660)H + 12,750
AND DESCRIPTION OF THE PERSON NAMED IN	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	



*Reaction formulae based on:

50% dead load 25% live load 25% impact Includes weight of 10 lbs./sq. ft. covering on sides and soffit.

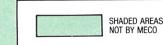
		W	IDTH CHAI	RT		
Model No.	Capacity Persons Per Hour At		Rated Width R	Step Width S	Overall Width B (Note 1)	Well Width Rough Opening (Note 2)
3E 4E 5E	5,000 7,000 8,000	6,500 9,000 10,000	32" 40" 48"	24" 32" 40"	4'-4" 5'-0" 5'-8"	Overall Width B + 2"

LAYOUT NOTE:

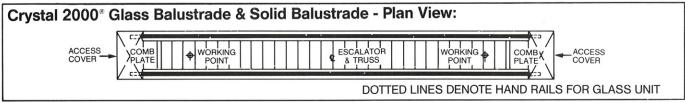
The following information, when available, must be shown on all layouts for use of the balustrade manufacturer.

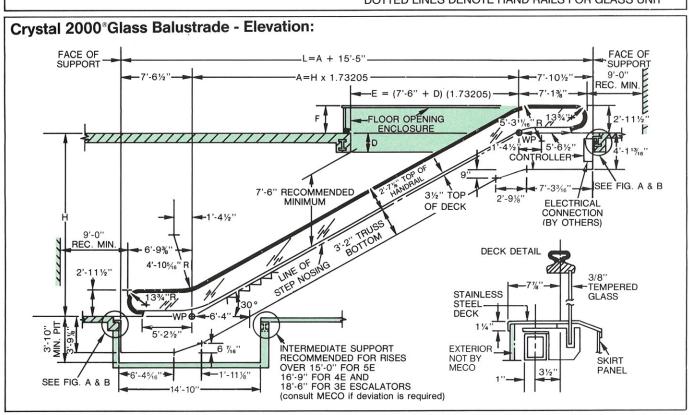
D – Dimension from finished floor to the finished plaster ceiling or bottom of smoke guard.

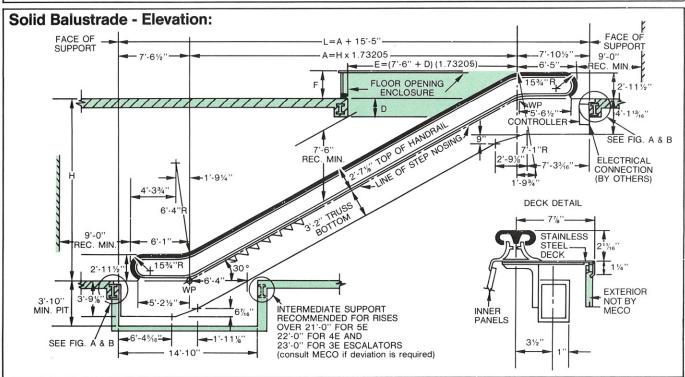
E-F — Detail and kind of wellway railings or fire shutter enclosures which are not furnished by the balustrade manufacturer.



Consult MECO for reactions if intermediate support is used.









MONTGOMERY ESCALATORS-POWER WALKS-POWER RAMPS

Escalator Standard Equipment:

STANDARD EQUIPMENT INCLUDES

complete truss fabricated of welded, hot rolled, structural steel tubes; precision worm gear drive; roller and ball bearings throughout; flange mounted motor; permanent magnet brake; portable controller,* complete electrical and mechanical safety system; reversing stations; interchangeable precision assembled steps with cleated risers; matched endless step chains; accurately aligned track system; complete balustrade including skirts; inner panels, decks and endless moving neoprene rubber handrail; floor access covers to upper and lower machinery well both within truss area.

REQUIREMENTS

- Floor around escalator is not to be laid until escalator is installed.
- Flooring within 8" of escalator floor access doors (top and bottom) is not to be laid until floor access doors are in place.
- Electric conduits, sprinkler pipes or soffit lights must be installed entirely outside of truss at all points except where codes require sprinkler protection of escalator machinery. Consult Montgomery for location within truss.
- 4. No walls or other parts of building structure are to be carried on truss.
 - *CSA listed

OWNER TO PROVIDE AND INSTALL THE FOLLOWING

- All escalator supports including bearing plates if concrete beams are used.
- 2. 3 phase, 60 cycle power supply and 110 volt light supply to controller.
- Combination lamp receptacle and convenience outlet in machine room and lower reversing station.
- The material used for the exterior is not to exceed 10 lbs./sq. ft. for the enclosure of the escalator.
- 5. All items marked "by others."

CONTACT ANY OF OUR SALES AND SERVICE OFFICES TO OBTAIN EXPERT PLANNING ASSISTANCE INCLUDING COMPLETE LAYOUT AND SPECIFICATIONS

MOTOR HORSEPOWER REQUIREMENTS

100 FDM

90 FPM FLOOR HEIGHT SIZE 10 HP 3E 5'-6" to 24'-0" 4E 5'-6" to 17'-0" 5E 5'-6" to 15'-0" 15 HP Over 24'-0" to 36'-0" 3F 4E Over 17'-0" to 26'-0" 5E Over 15'-0" to 23'-0" 20 HP Over 36'-0" to 42'-0" 3F Over 26'-0" to 30'-0"

Over 23'-0" to 26'-0"

120 FPM						
3E	5'-6'' to 19'-0''					
4E	5'-6" to 14'-0"					
5E	5'-6" to 12'-0"					
3E	Over 19'-0" to 28'-0"					
4E	Over 14'-0" to 20'-0"					
5E	Over 12'-0" to 18'-0"					
3E	Over 28'-0" to 32'-0"					
4E	Over 20'-0" to 23'-0"					
5E	Over 18'-0" to 21'-0"					
	4E 5E 3E 4E 5E 3E 4E					

120/90 FPM (2 SPEED)							
10/7.5 HP	3E	5'-6" to 16'-0"					
	4E	5'-6" to 12'-0"					
	5E	5'-6" to 11'-0"					
15/11.25 HP	3E	Over 16'-0" to 24'-0"					
	4E	Over 12'-0" to 18'-0"					
	5E	Over 11'-0" to 16'-0"					
20/15 HP	3E	Over 24'-0" to 32'-0"					
	4E	Over 18'-0" to 23'-0"					
	5E	Over 16'-0" to 21'-0"					

POWER DATA

	90 FPM							
		200 VOLTS		460 VOLTS		575 VOLTS		
	НР	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	
	10	128.25	33.12	57.75	14.4	46.2	11.5	
I	15	213.75	50.6	93.07	22.0	74.47	17.6	
	20	270.75	64.4	117.75	28.0	94.2	22.4	
L								

120 FPM							
	200 VOLTS		460 VOLTS		575 VOLTS		
	STARTING	RUNNING	STARTING	RUNNING	STARTING	RUNNING	
HP	CURRENT	CURRENT	CURRENT	CURRENT	CURRENT	CURRENT	
	IN AMPERES						
10	130.5	29.4	56.77	12.8	45.45	10.2	
15	191.25	47.4	83.1	20.6	66.45	16.5	
20	264.75	60.0	114.97	26.1	91.95	20.9	

120/90 FPM (2 SPEED)							
	200 VOLTS		460 VOLTS		575 VOLTS		
HP	STARTING CURRENT	RUNNING CURRENT	STARTING CURRENT	RUNNING CURRENT	STARTING CURRENT	RUNNING CURRENT	
	IN AMPERES						
10/7.5	135.75/105.75	30.8/25.9	69.75/62.25	14/12.9	54/47.25	11.1/10.4	
15/11.25	190.5 /135.75	45/37.4	95.25/65.25	20.1/16.6	72/48	16.1/13.2	
20/15	331.5 /186	64.5/49.7	130.5 /84.75	27/21.8	102.75/70.5	21.7/17.8	

ALL POWER DATA BASED ON 3 PHASE 60 HERTZ

Power Walks & Power Ramps:

provide fast, safe, high-volume horizontal, or combined horizontal and inclined (to 12 degrees) transportation of people within buildings, or outdoors. Exposition centers, stadiums, auditoriums, transportation terminals, parking lots to buildings and in or out of buildings are a few walk-ramp applications to transport people where walking is not advantageous.

STANDARD EQUIPMENT INCLUDES

complete truss fabricated of welded, hot rolled, structural steel tubes (or combination of truss and tubular stanchion); precision worm gear drive; roller and ball bearings throughout; flange mounted motor; permanent magnet brake; portable controller;* complete electrical and mechanical safety system; reversing stations; interchangeable precision assembled treadway pallets with interlocking treads on adjacent pallets; matched endless pallet chains; accurately aligned track system; complete balustrades including inner panels; decks with endless moving neoprene rubber hand rail; and floor access covers to upper and lower machinery wells both within truss area.

BALUSTRADE APPLICATION

for use with Power Walks and/or Power Ramps may be either solid (e.g. stainless steel, bronze, etc.) or can be glass. This alternative is available for use on either side (e.g. either device may have a solid balustrade on one side and a glass balustrade on the other...or...intermediate sections of glass versus solid in the continuous run).

CONSULT MONTGOMERY

Contact your local Montgomery Professional for application data, layout and/or specification data needed to plan a complete installation.

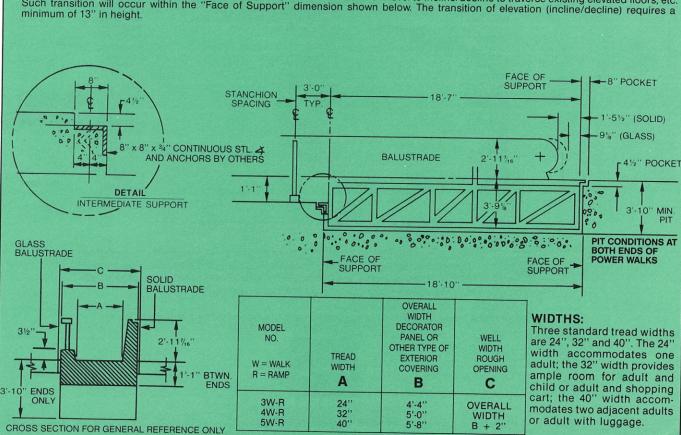
*CSA listed



Lambert International Airport. St. Louis, Missouri.

PLANNING POWER WALKS/POWER RAMPS

Power Walk length in excess of 300 lineal feet requires special engineering evaluation. Consult your local Montgomery Professional. Any arrangement or combination of horizontal and inclines, to a maximum of 12 degrees, can be provided. Montgomery Power Walks can be designed in concert with Montgomery Power Ramps to provide transition from level to incline/decline to traverse existing elevated floors, etc. Such transition will occur within the "Face of Support" dimension shown below. The transition of elevation (incline/decline) requires a minimum of 13" in height.



MONTGOMERY SALES/SERVICE OFFICES

UNITED STATES

Alabama Birmingham Dothan Huntsville Mobile Montgomery
Alaska
Anchorage (CMW Company) Arizona Phoenix

Arkansas Fayetteville/Springdale

Tucson

Ft. Smith Little Rock California Fresno Gardena Irvine Long Beach Los Angeles Modesto Monterey Orange County

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LaSalle Moline (Corp. Hdqts.)

Mt. Vernon Oak Brook Peoria

Quincy (Wagner Elev. Serv., Inc.) Rock Island

Rockford Springfield Sterling Indiana

Fort Wayne (Early Elev. Corp.) Indianapolis Kokomo (Early Elev. Corp.)

Lafayette
Marion (Early Elev. Corp.)
South Bend (Early Elev. Corp.) Terre Haute

Burlington (Wagner Elev. Serv., Inc.) Cedar Rapids Clinton

Des Moines Dubuque Iowa City

Ottumwa (Wagner Elev. Serv., Inc.) Sioux City (Carter Elev. Co., Inc.)

Kansas Dodge City Hays Lawrence Salina Topeka Wellington Wichita

Kentucky
Bowling Green (Murphy Elev. Co.)
Lexington (Murphy Elev. Co.)
Louisville (Murphy Elev. Co.)

Louisiana Baton Rouge Lafayette New Orleans Shreveport Maryland Baltimore Beltsville Massachusetts Boston Worcester Michigan Ann Arbor

Benton Harbor Detroit

Flint Grand Rapids Lansing Muskegon Traverse City Minnesota

Minneapolis-St. Paul Mississippi Biloxi Columbus Hattiesburg Jackson Meridian

Vicksburg Missouri Cape Girardeau Columbia Jefferson City Joplin

Kansas City Kirksville (Wagner Elev. Serv., Inc.)

St. Joseph St. Louis Springfield Montana Billings Butte Great Falls Helena Missoula

Nebraska Lincoln Omaha Nevada Las Vegas Laughlin

Reno

Laughiin
Reno
Stateline
New Jersey
(Contact Philadelphia, PA Office)
New Mexico
Albuquerque
New York
Albany (Midstate Elev. Co.)
Binghamton (Midstate Elev. Co., Inc.)
Glens Falls (Midstate Elev. Co., Inc.)
Ithaca (Midstate Elev. Co., Inc.)
Massena (Midstate Elev. Co., Inc.)
New York City (Contact Westport, CT Office)
Poughkeepsie (Midstate Elev. Co., Inc.)
Syracuse (Midstate Elev. Co., Inc.)
Utica (Midstate Elev. Co., Inc.)
Watertown (Midstate Elev. Co., Inc.)
Variet (Gallagher Elev. Co., Inc.)
Watertown (Midstate Elev. Co., Inc.)
North Carolina
Boone

Boone Charlotte Greensboro Raleigh Wilmington Winston-Salem Ohio

Akron Canton Cincinnati Cleveland Columbus Dayton Mansfield

(Toledo Elev. & Machine Co.)

Youngstown Oklahoma Enid Oklahoma City Tulsa Oregon Eugene Portland

Pennsylvania Clymer (Commercial Elev. Co.)

Philadelphia
Pittsburgh (Commercial Elev. Co.)
South Carolina

Charleston Columbia
South Dakota

Aberdeen (Carter Elev. Co., Inc.) Rapid City (Carter Elev. Co., Inc.) Sioux Falls (Carter Elev. Co.)

Tennessee Chattanooga Johnson City Knoxville

Memphis Nashville (Capitol City Elev. Co., Inc.) Texas Amarillo Austin

Beaumont Bryan/College Station Corpus Christi Dallas El Paso Fort Worth Galveston Houston Laredo

Lubbock Midland Richardson San Antonio Tyler Waco Utah Ogden Salt Lake City

Vermont Burlington Virginia Chesapeake (Webster Elev. Co.) Danville

Richmond Washington Bellevue Seattle Spokane Tacoma

lacoma
Yakima
West Virginia
Charleston (Murphy Elev. Co.)
Huntington (Murphy Elev. Co.)
Morgantown (Commercial Elev. Co.)
Moundsville (Commercial Elev. Co.)
Wisconsin
Green Bay
Madison

Madison Milwaukee Wyoming Casper Cheyenne

"Made with pride in the United States."



Montgomery PREVENTIVE MAINTENANCE (PM) service programs, designed for Montgomery equipment and also equipment of other manufacturers. Factory trained service personnel follow strict schedules of examination using proven procedures assuring quality performance and dependable operation.

Check the Yellow Pages for the nearest Montgomery location or call our national headquarters: area code (309) 764-6771. We're not very far from anywhere in North America



Montgomery Elevator Company, One Montgomery Court, Moline, Illinois 61265 Offices in principal cities of North America/Representatives Worldwide