PLANNING GUIDE 1989

14200/MON BuyLine 3185









ELEVATORS ESCALATORS POWER WALKS POWER RAMPS



STANDARDSŒ EXCELLENCE

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

CTX Standard Geared Traction Passenger Elevator System

Standard Holeless 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

Tale Total Elevator Diagnostic System

TABLE OF CONTENTS

PASSENGER ELEVATORS

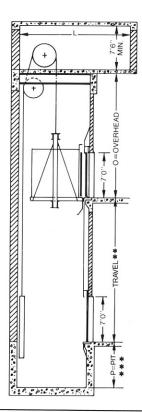
High & Moderate Speed Traction Basement (type) Traction Hospital Shape (passenger/service) Hydraulic (passenger/service) HH-II Holeless Hydraulic MX-3 Inground Hydraulic	. 6
ENTRANCES Passenger Type	. 7
FREIGHT ELEVATORS Traction Hydraulic	10
ESCALATORS Crystal & Solid Balustrade 12 & Standard Equipment	13
POWER WALKS & POWER RAMPS	15

SALES/SERVICE OFFICES 16



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.

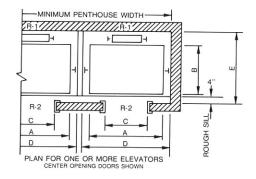


Moderate Speed:

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.



F	RECOMMEND	ED SIZES AN	ID CAPACITIE	S
TYPE BUILDING	SMALL OFFICE		E OFFICE TEL	LARGE OFFICE OR STORE
CAPACITY	2000#	2500#+	3000#+	3500#+
A B C D E	6'- 0" 5'- 0" 3'- 0" 7'- 4" 6'-10"	7'- 0" 5'- 0" 3'- 6" 8'- 4" 6'-10"	7'-0" 5'-6" 3'-6" 8'-4" 7'-4"	7'-0" 6'-2" 3'-6" 8'-4" 8'-0"

	OVERHEAD LOADS/LBS. (APPROXIMATE) PER ELEVATOR								
CAPACITY	UP TO 3	50 FPM+	400	400 FPM		500 FPM-TO-700 FPM		0-1200 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	

	MIN	IMUM F	PIT-OVI	ERHEAD	& MAC	HINE R	DOM DI	MENSIC	NS	
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"
		16'-0"								
Р	5'-0"		NAME OF TAXABLE PARTY.	Contract of the Contract of th	7'-8"					

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.
- Add 5" to "E" for counterweight with safety.
- 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 14" 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:

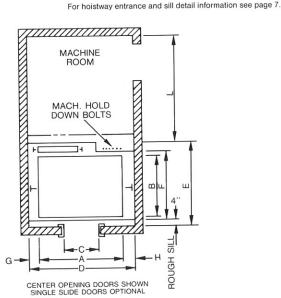
Basement type traction elevators are utilized for limited overhead conditions in new and existing buildings. The hoisting machine is off-set at the side of the hoistway. The machine may be located at any suitable elevation and need not be at the "basement." This type of elevator facilitates future floor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

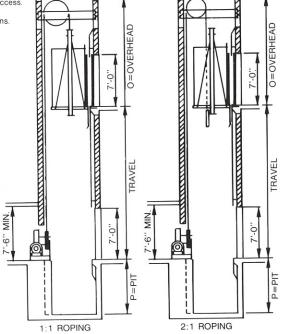
HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.

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.





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

TYPE BUILDING	APARTMENT OR SMALL OFFICE		E OFFICE TEL	LARGE OFFICE OR STORE
CAPACITY	2000#	2500#	3000#	3500#
A B C D E F G H	6'- 0'' 5'- 0'' 3'- 0'' 7'-10'' 6'-10'' 5'- 5'' 11''	7'- 0" 5'- 0" 3'- 6" 8'- 4" 6'-10" 5'- 5" 8"	7'- 0'' 5'- 6'' 3'- 6'' 8'- 4'' 7'- 4'' 5'-11'' 8'' 8''	7'-0'' 6'-2'' 3'-6'' 8'-4'' 8'-0'' 6'-7'' 8'' 8''

RECOMMENDED MACHINE ROOM OVERHEAD & PIT DIMENSIONS

SPEED	100	200	250	300	350
L	10'-6'' 16'-7''	10'-6'' 17'-1''	10'-6'' 17'-5''	10'-6" 17'-6"	10'- 6'' 17'- 9''
P	4'-0"	5'-0"	5'-0"	5'-0"	5'- 0"

NOTES:

- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
- 2. Add 5" to "E" for counterweight with safety at speeds of 200 F.P.M.
- 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.

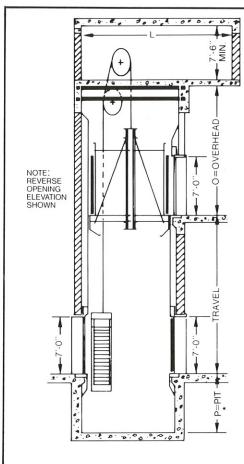
RECOMMENDED SIZES & CAPACITIES

TYPE BUILDING	APARTMENT OR SMALL OFFICE		E OFFICE TEL
CAPACITY	2000#	2500#	3000#
A	6'- 0''	7'- 0''	7'- 0''
B	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"
H	12''	12"	

RECOMMENDED MACHINE ROOM OVERHEAD & PIT DIMENSIONS

00550	400	200	250	300
SPEED	100	200	250	300
L	10'-6"	10'-6"	10'- 6''	10'-6''
0	13'-0''	13'-2"	13'- 7''	13'-8''
P	5'-6''	6'-6''	6'-11"	7'-4"

- 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.



Hospital Shape (Passenger/Service):

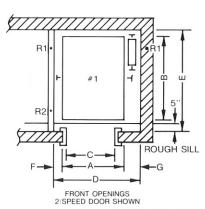
Passenger/Service (Hospital Shape) Traction Elevators are designed in a wide range of speeds for individual applications. Emergency and independent service as well as auxiliary power features are available.

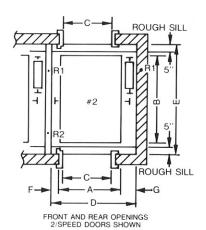
HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODÉS OR LAWS.

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	ED SIZES 8	CAPACI	TIES		
CAPACITY	35	00#	40	00#	45	00#	50	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'-712" 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'-3½" 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'-91/2" 8" 1'-4"
	MINIMU	M PIT, OVE	RHEAD	AND MACH	IINE ROC	M DIMEN	SIONS	
SPEED	1	00	2	00	3	50	5	00
L O P	15	'-0'' '-6'' '-0''	18'-0" 15'-9" 4'-0"*		18'-0" 16'-6" 5'-1"**		19'-0'' 17'-7'' 6'-7''***	

	E OVERHEAD SSENGER ELE	
CAPACITY	R-1	R-2
3500	28500	10500
4000	29500	11000
4500	30500	11500
5000	36000	15500

NOTES:

- 1. 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 these requirements
- 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:

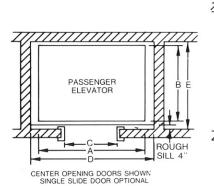
Hydraulic Elevators are designed to meet varying performance requirements with car speeds to 200 feet per minute and maximum travel to 70 feet. They are easily adapted to most low rise buildings and frequently produce economic advantages over hoist rope traction elevators.

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

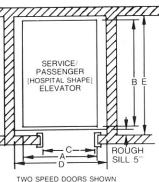
National Elevator Industry, Inc. (NEII) Handicapped Standards are:
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

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

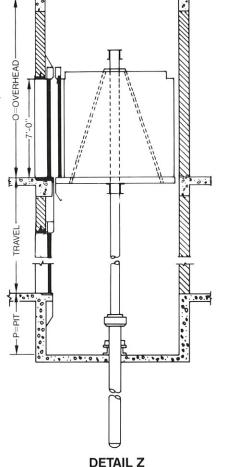
For hoistway entrance and sill detail information see page 7.



DETAIL X



DETAIL Y



0.0.0,000,000

		, BANKS, S	GS, HOTELS STORES, LIE S X & Z)		rc.
CAPACITY	1500#	2000#	2500#	3000#	3500#
A	4'-10"	6'-0"	7'-0"	7'-0"	8'-0"
В	5'- 0"	5'-0"	5'-0"	5'-6"	5'-6"
C	2'- 8"	3'-0"	3'-6"	3'-6"	4'-0"
D	6'- 8"	7'-4"	8'-4"	8'-4"	9'-4"
E	5'- 9"	5'-9"	5'-9"	6'-3"	6'-3"
0	12'- 8"	12'-8"	12'-8"	12'-8"	12'-8"
P	4'- 0"	4'-0"	4'-0"	4'-0"	4'-0"

HOSE	HOSPITALS AND INSTITUTIONS 1 - Single Entrance 2 - Double Entrance									
	(Detail:	s Y & Z)								
CAPACITY	35	00#	40	00#	45	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'-712"	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"				

- A legal machine room meeting Code requirements and ven-tilated 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
- 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.

BuyLine 3185

ELEVATOR ENTRANCES

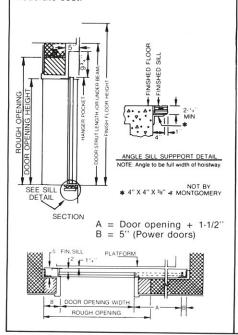
Passenger Entrances:

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.

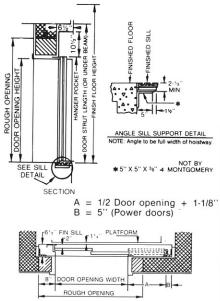
Single Speed Slide:

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



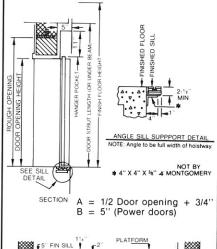
Two Speed Slide:

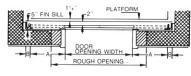
Door opening is approximately 2/3 width of



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.

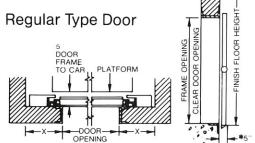




Freight Doors:



NOTE: FREIGHT DOOR FRAMES AND SILLS NOT BY MONTGOMERY



	IMUM FLOOR HEI OPENING HEIGH	
	OPENING HEIGH	I OF DOOR
OPENING HEIGHT OF DOOR	REGULAR TYPE DOOR	⇒PASS TYPE 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"

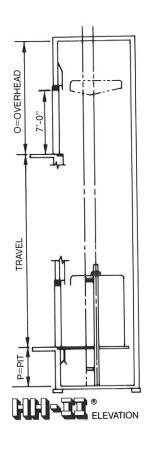
*Minimum floor heights shown for pass type doors may be reduced by using special constructed doors. Consult your local Montgomery Professional for exact information for your drawings.

Pass Type Door Pass Type Door

DIMENSION KEY

- 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.

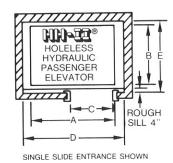


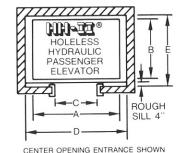


Holeless Hydraulic:

HH-II Holeless Hydraulic Elevators offer very competitive pricing as well as extremely short lead time for fabrication, shipment and installation. The HH-II line of Holeless Hydraulic Elevators is offered in two sizes; each designed to service two landings in line. Car speeds of 80 FPM and 125 FPM are available. All necessary approvals are accomplished on a single sheet!

Because of the broad range of STANDARD FEATURES on the HH-II, Montgomery is able to fabricate and ship all necessary material in as little as six weeks from the date of order and approval receipt. However, there is no sacrifice in the flexibility of entrance and decor options to "customize" your HH-II Holeless Hydraulic Passenger Elevator. The Montgomery Triad Passenger Elevator Car is standard on the HH-II.





HH-II CAPAC	ITIES-SPEEDS	GENERAL DATA-SPAC	E REQUIREMENTS	
Тур	ое	Holeless H	Hydraulic	
Sen	vice	Passenger		
Spe	eed	80 FPM & 125 FPM		
Min. Travel		8'-4	4"	
Max. Travel		Consult your Montgo	omery Professional	
Max. Landings		2 Inl	ine	
Capa	acity	2000 lbs.	2500 lbs.	
	Car Size (Deep)	5'-8" x 4'-3"	6'-8" x 4'-3"	
Alphabetical Dimensions	A B C D E	6'-0'' 5'-0'' 3'-0'' 7'-4'' 5'-9''	7'-0'' 5'-0'' 3'-6'' 8'-4'' 5'-9''	
Pit	(P) & ead (O)	Pit depth and clear overhead dimension may be varied to suit building conditions Consult your Montgomery Professional.		
	e Room D x H)	7'-6" x 5'-0" x 7'-6" (min.)		
Types (All Star Opt	Entrance 7'-0" High): ndard ional ional	Single S	ilide R/H Slide L/H Opening	

HH-II and MX-3 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 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

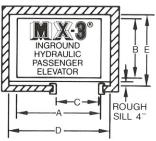
- 2. For hoistway entrance and sill detail information see page 7.
- 3. A legal machine room meeting code requirements and ventilated with temperature

STANDARDS # EXCELLENCE

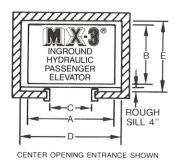
MX-9 Inground Hydraulic:

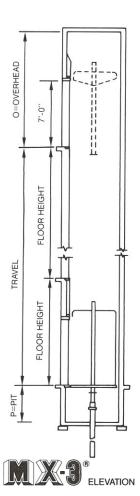
The MX-3 Standard Hydraulic Passenger Elevator is born from the technologies initially developed for Montgomery's HH-II product line. The MX-3 is an Inground Hydraulic Elevator which offers very competitive pricing as well as extremely short lead time for fabrication, shipment and installation. The MX-3 line of Inground Hydraulic Elevators is offered in three sizes; each designed to service three landings in line. Car speeds of 80 FPM and 125 FPM are available. All necessary approvals are accomplished on a single sheet!

Because of the broad range of STANDARD FEATURES on the MX-3, Montgomery is able to fabricate and ship all necessary material in as little as eight weeks from the date of order and approval receipt. However, there is no sacrifice in the flexibility of entrance and decor options to "customize" your MX-3 Inground Hydraulic Passenger Elevator. The Montgomery Triad Passenger Elevator Car is standard on MX-3.



SINGLE SLIDE ENTRANCE SHOWN





between 65° and 100°F must be provided.

- 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

HH-II Expanded Application:

Maximum travel for HH-II has been increased where provisions for partial inground jack installation are provided. Consult your Montgomery Professional for more details on this expanded application.

MX-3 CAPA	ACITIES-SPE	EDS-GENERAL I	DATA-SPACE RE	QUIREMENTS	
Ту	ре	Inground Hydraulic			
Ser	vice	Passenger			
Speed		8	0 FPM & 125 FP	М	
Min. Travel			16'-8"		
Max.	Travel	Consult you	ır Montgomery I	Professional	
Max. L	anding		3 Inline		
Сар	Capacity		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	6'-0'' 5'-0'' 3'-0'' 7'-4'' 5'-9''	7'-0'' 5'-0'' 3'-6'' 8'-4'' 5'-9''	7'-0" 5'-6" 3'-6" 8'-4" 6'-3"	
Pit De	pth (P)	4'-0''	4'-0"	4'-0''	
Clear Ove	rhead (O)	12'-2" @ 80 FPM 12'-4" @ 125 FPM			
	e Room O x H)	7'-6" x 5'-0" x 7'-6" (min.)			
	onal		Single Slide R/H Single Slide L/H Center Opening		

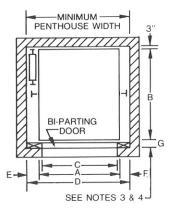


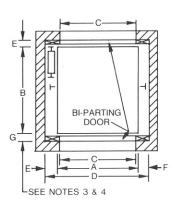
montgomery Freight Elevators

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.





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

LIC	GHT AND ME	DIUM DUTT	FREIGHTE	LEVATORS	
CAPACITY	2500#	3000#	4000#	6000#	8000#
Α	5'- 4"	6'- 4"	6'- 4"	8'- 4"	8'- 4'
В	7'- 0"	8'- 0"	8'- 0"	10'- 0"	10'- 0'
C	5'- 0"	6'- 0"	6'- 0"	8'- 0"	8'- 0'
D	7'-10"	8'-10"	8'-10"	10'-10"	10'-10'
E	1'- 7"	1'- 7"	1'- 7"	1'- 7"	1'- 7'
F	11"	11"	11"	11"	11'
L	13'- 0"	14'- 0"	14'- 0"	14'- 0"	14'- 0'

CAPACITY	10,000#	12,000#	16,000#	18,000#	20,000#
A	8'- 4"	10'- 4"	10'- 4"	10'- 4"	12'- 4"
В	12'- 0"	14'- 0"	14'- 0"	16'- 0"	20'- 4"
C	8'- 0"	10'- 0"	10'- 0"	10'- 0"	12'- 0"
D	11'- 4"	13'- 6"	14'- 0"	14'- 2"	16'- 6"
E	1'- 7"	1'- 7"	1'- 7"	1'- 7"	1'- 7"
F	11"	11"	11"	11"	11"
L	14'- 0"	15'- 0"	15'- 0"	17'- 0"	21'- 0"

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

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

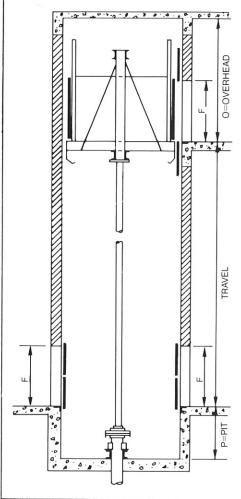
- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
- For capacities over 20,000 lbs. or speeds over 200 f.p.m., consult
- your Montgomery Professional.

 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

CARCRED	50	75	100	200
CAR SPEED	50	75	100	200
0	Consult your Montgomery Professio			
	Conoud	t wour Mont	anmery Prof	essional

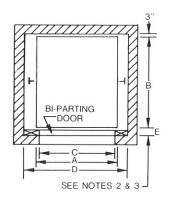
- Dimension H = 7'-0" on light & medium duty and 8'-0" (or as required) for heavy duty doors. Doors higher than 8'-0" require additional overhead height.
- For large heavy duty doors consult your Montgomery Professional.
- All data is general. Consult your local Montgomery Professional for exact information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

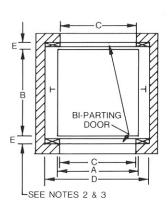


Hydraulic:

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 ME	EDIUM D	UTY FRE	IGHT EL	EVATOR	S
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 doors	6'- 4''	6'-10''	7'-10''	9'-10''	10'-0''	10'-6''
D-power doors	6'-10''	7'- 4"	8'- 4"	10'- 4"	10'-6''	10'-6''
O-7'0" high doors	13'- 2''	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"	14'-2''
P	4'- 6"	4'- 6"	4'- 6"	4'- 6"	4'-6"	5'-0"

N	0	TE	S	

- 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 re-
- quired for heavy 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	TRUCK L	HEAVY D		ELEVATO	RS
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 doors	12'-6"	12'-6"	12'-6"	12'-6"	14'-6''
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.
- 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

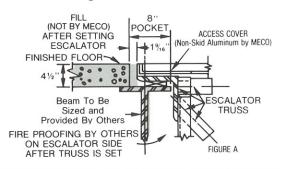
APPEARANCE: durable modern materials retain attractive appearance

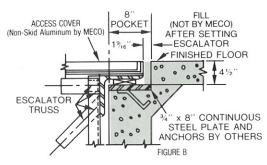
SAFETY: more and better safety devices than any other escalator

DEPENDABILITY: quickly and easily serviced . . . less down time

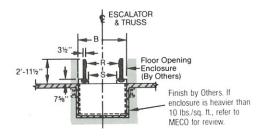
MANUFACTURE: designed and built in the UNITED STATES

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

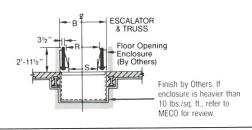




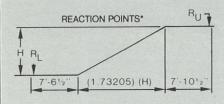
crystal 2000® glass balustrade—section



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



*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	DTH CHAI	RT		
	Capacity Persons Per Hour At		Rated	Step	Overall Width	Well Width Rough
Model No.	90 fpm	120 fpm	Width R	Width S	B (Note 1)	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:

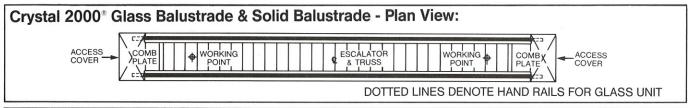
The following information, when available, must be shown on all layouts for use of the balustrade manufacturer.

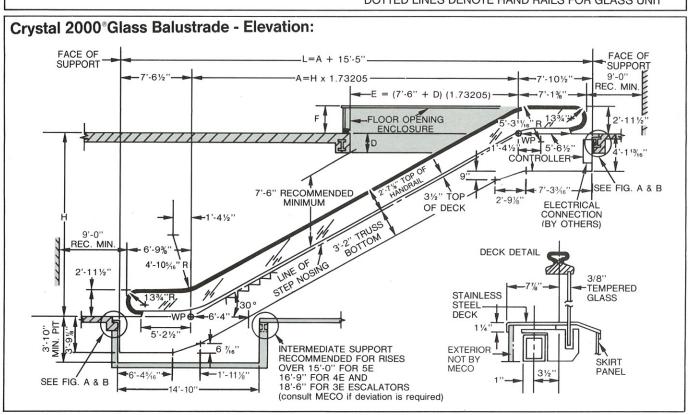
D - Dimension from finished floor to the finished plaster ceiling or bottom of smoke guard.

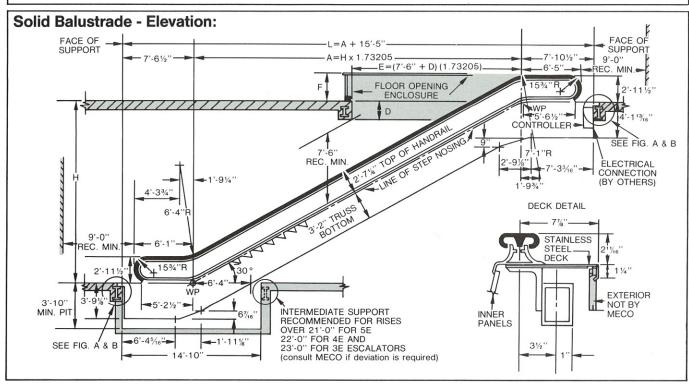
E-F — Detail and kind of wellway railings or fire shutter enclosures which are not furnished by the balustrade manufacturer.

SHADED AREAS NOT BY MECO

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

- 1. Floor around escalator is not to be laid until escalator is installed.
- 2. Flooring within 8" of escalator floor access doors (top and bottom) is not to be laid until floor access doors are in place.
- 3. 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

- 1. All escalator supports including bearing plates if concrete beams are used.
- 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.
- 4. 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

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

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

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
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

			120 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	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

		12	0/90 FPM (2 S	PEED)		
НР	200 VOLTS		460 VOLTS		575 VOLTS	
	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES
10/7.5	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 cutdoors. 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.

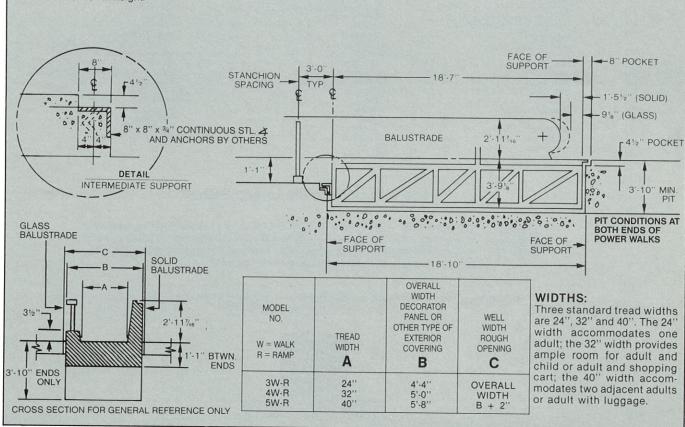
*CSA listed



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 Tucson Arkansas

Charleston Chicago Fayetteville/Springdale Danville Ft. Smith Little Rock Decatur Galesburg California Kankakee Fresno Irvine LaSalle Moline (Corp. Hdqts.) Mt. Vernon Oak Brook Long Beach Los Angeles Modesto

Monterey Palm Springs Quincy (Wagner Elev. Serv., Inc.) Rock Island Riverside Rockford (Lamps Elev. Sales & Serv.)

Hilo

Honolulu Lihue

Wailuku

Idaho Idaho Falls

Illinois Bloomington

Carbondale

Champaign

Sacramento San Bernardino Springfield Sterling

Indiana Fort Wayne (Early Elev. Corp.) San Diego San Francisco San Jose Indianapolis
Kokomo (Early Elev. Corp.)
Lafayette Santa Maria Santa Rosa

Marion (Early Elev. Corp.) South Bend (Early Elev. Corp.) Terre Haute Stockton Torrance Vandenburg A.F.B.

Colorado Colorado Springs Burlington (Wagner Elev. Serv., Inc.) Cedar Rapids Denver Clinton Des Moines Greeley Connecticut Hartford

Dubuque lowa City Ottumwa (Wagner Elev. Serv., Inc.) Sioux City (Carter Elev. Co., Inc.) Milford Norwalk

Rocky Hill District of Columbia Washington D.C. Waterloo Kansas

Florida Dodge City Cocoa Daytona Beach Hays Lawrence Ft. Lauderdale Ft. Myers Ft. Walton Salina Topeka Wellington Gainesville Wichita Kentucky Jacksonville

Bowling Green (Murphy Elev. Co.) Lexington (Murphy Elev. Co.) Louisville (Murphy Elev. Co.) Lakeland Marco Island Miami

Louisiana Baton Rouge Naples Orlando Panama City Lafayette New Orleans Shreveport Pensacola Sarasota/Bradenton St. Petersburg Maryland Tallahassee Baltimore Beltsville Tampa West Palm Beach Massachusetts Boston Worcester

Georgia Atlanta Augusta Michigan Macon Ann Arbor Hawaii Benton Harbor Agana Detroit

Flint Grand Rapids Lansing Muskegon Traverse City

Minnesota Minneapolis-St. Paul Mississippi

Biloxi Columbus Hattiesburg Meridian Vicksburg Missouri 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

Stateline

New Jersey
(Contact MECO Home Office, Moline, IL)

New Mexico

New Mexico
Albuquerque
New York
Albany (Midstate Elev. Co.)
Binghamton (Midstate Elev. Co., Inc.)
Buffalo (Gallagher Elev. Co., Inc.)
Ithaca (Midstate Elev. Co., Inc.) Massena (Midstate Elev. Co., Inc.) New York City Poughkeepsie (Midstate Elev. Co., Inc.)

Rochester (Gallagher Elev. Co.)
Syracuse (Midstate Elev. Co., Inc.) Utica (Midstate Elev. Co., Inc.) Watertown (Midstate Elev. Co., Inc.)
North Carolina

Boone Charlotte Greensboro Raleigh Washington Wilmington Winston-Salem Ohio

Akron Canton Cincinnati Cleveland Columbus Mansfield

Toledo (Toledo Elev. & Machine Co.)

Youngstown Oklahoma Enid Oklahoma City Tulsa Oregon Eugene Portland

Pennsylvania

Clymer (Commercial Elev. Co.)
Philadelphia (Contact MECO Home Office, Moline, IL)

Pittsburgh (Commercial Elev. Co.)

South Carolina Charleston South Dakota

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

Tennessee Chattanooga Johnson City Knoxville Memphis

Nashville (Capitol City Elev. Co, Inc.)

Texas Amarillo Austin Beaumont Bryan-College Station

Corpus Christi Dallas El Paso Forth Worth Galveston Houston Laredo Lubbock Midland Richardson

San Antonio Tyler Waco Utah Ogden Salt Lake City Vermont Burlington Virginia

Chesapeake (Webster Elev. Co.)

Danville Washington Seattle Spokane Tacoma Yakima West Virginia

Charleston (Murphy Elev. Co.) Huntington (Murphy Elev. Co.) Morgantown (Commercial Elev. Co.) Moundsville (Commercial Elev. Co.)

Wisconsin Green Bay 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



© 1988 All Rights Reserved Printed in U.S.A.