

PIONEER ELEVATOR



MR and MRL Model

Pioneer Features / PI (New Standard Certificate)



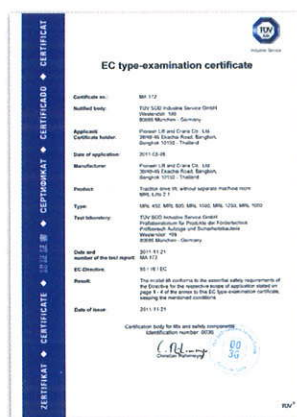
High Efficient

A new traction gear and gearless machine dramatically enhances efficiency and reduce operation costs.

Certificate
EN81 Standard (MR)
for Machine room Lift



No. MA171



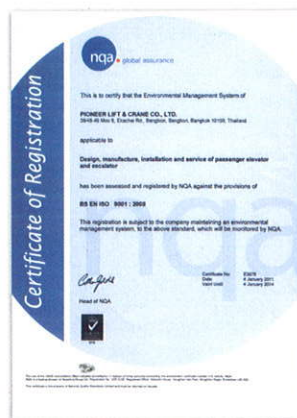
High Standard

Pioneer MR and MRL model are strong capabilities in designing, development and manufacturing. In order to satisfy the sundry needs of the clients. We develop our products according to EN 81 Standard and comply with ISO 9001, ISO 14001 and OSAS 18001.

Certificate
EN81 Standard (MRL)
for Machine roomless Lift



No. MA172



High Safety & Reliability

Pioneer MR and MRL model ensure safety is through control technology such as back-up solution, safety drive operation and safety devices.

Certificate
ISO 9001 Standard



Certificate No.25713



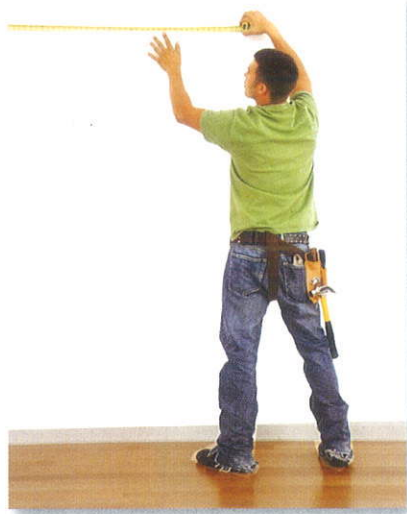
High Comfort

Pioneer MR and MRL model provides best-in-class ride quality on every lift, define luxury as a swift, smooth and silent ride.

Certificate
ISO 14001 Standard



Certificate No. E 3976



Speedy and Error-Proof Installation

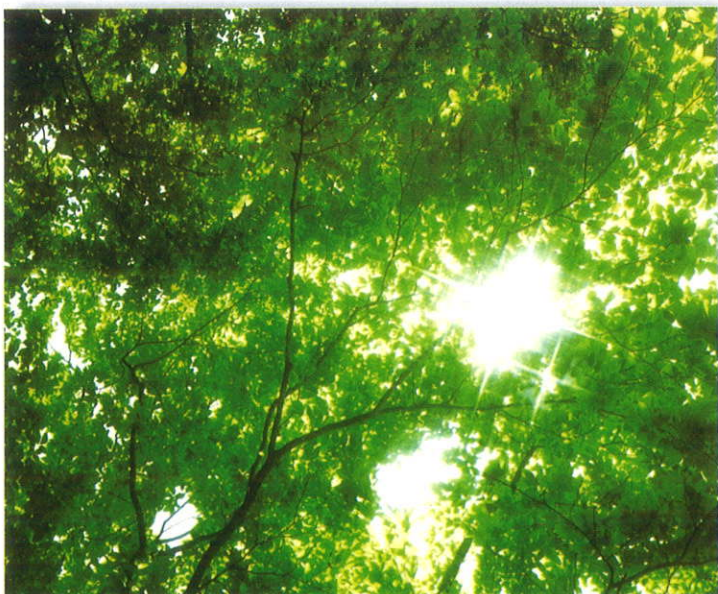
Speedy and Error-Proof Installation effectively shortens completion period

Plug-in type connecting parts, with error-proof connectors, are adopted for connections of the control system and its peripheral electrical devices, making sure wrong connections are impossible. Installation guidance with 3-dimensional illustration drawings and accurate process craftsmanship greatly enhance installation efficiency.

Simple and Easy to Maintain

Best maintenance service all day long

24 hours all weather maintenance service can be enjoyed with the "push-to-talk" button installed inside the car to get through to the monitoring centre of the management company via an external public telephone network. It can also be set to connect to several mobile phones of family members or directly.



Ecologically-Friendly

Ecologically-friendly, Green and energyefficient, Relieving the burden on the environment

A Green Elevator is part of our Corporate effort to promote a greener environment through more efficient energy use in our system. Total power consumption can be reduced by 40% by replacing gear drive motor with gearless permanent magnetic drive motor and with WWF vector control technology.

The elevator will turn to standby mode automatically if left idle for a preset period; car lighting will automatically switch off, information display system will dim and car ventilation fan will also shut down automatically. Energy-Efficient LEDs are used to replace traditional halogen lamps, attaining 10 times longer life span and 80% savings in power consumption.

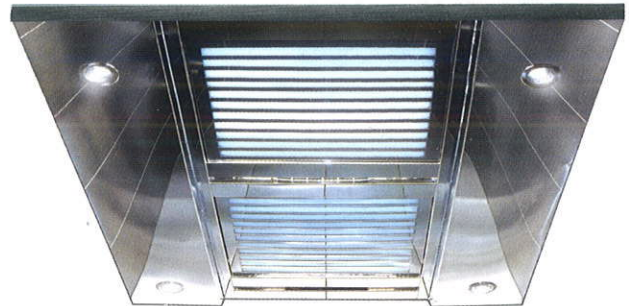
Passenger Lift

P01 Standard Cabin



CEILING	• Painted steel sheet • Stainless steel sheet
CARBIN & CARDOOR	• Painted steel sheet • Formica [Plastic laminated] • Stainless steel sheet
LIGHTING	• Fluorecent lighting • Star lighting
KICK PLATE	• Stainless steel
FLOORING	• Durable vinyl tiles, Granit
SILL	• Extruded hard aluminum
COP	• Stainless steel sheet • Formica
BUMPER	• Stainless steel
VENTILATION	• Electric Blower
SAFTY DEVICE	• Emergency light • Emergency exit • Safety edge • Safety light certain • Safety photo sensor

Ceiling :



CE-01

Car Operational Panel :



BA 21G

Hall buttons



VID - M432T



VID - M432

Handrail (Option)



HR-01



HR-02

Passenger Lift

P02 Standard Cabin



CEILING	• Painted steel sheet • Stainless steel sheet
CARBIN & CARDOOR	• Painted steel sheet • Formica [Plastic laminated] • Stainless steel sheet
LIGHTING	• Fluorecent lighting • Star lighting
KICK PLATE	• Stainless steel
FLOORING	• Durable vinyl tiles, Granit
SILL	• Extruded hard aluminum
COP	• Stainless steel sheet • Formica
BUMPER	• Stainless steel
VENTILATION	• Electric Blower
SAFTY DEVICE	• Emergency light • Emergency exit • Safety edge • Safety light certain • Safety photo sensor

Ceiling :



CE-02

Car Operational Panel :



BA 21G

Hall buttons



VID - M432T



VID - M432

Handrail (Option)



HR-01



HR-02

Hospital Lift (BED LIFT)

B-05 / Standard



CABIN AND CARDOOR	Stainless Steel Sheet
CEILING	- Hairline Finished st/st, - Mirror Finished st/st and Acrylic
HANDRAIL	- Mirror Finished st/st - Hairline Finished st/st
FLOORING	- Durable Vinyl tiles - Granite
SILL	Extruded hard aluminum
KICK PLATE	Stainless steel
BUMPER	Stainless steel
VENTILATION	Electric Blower
LIGHTING	- Fluorecent - Star
SAFETY DEVICE	- Emergency light - Emergency exit - Safety edge - Safety light curtain - Emergency by pass - Door delay

Ceiling :



CE-01

Car Operational Panel :



BA 21G

Hall buttons



VID - M432T



VID - M432

Handrail



HR-01



HR-02

Handicap (Option)



Hospital Lift (BED LIFT)

B-06 / Standard



CABIN AND CARDOOR	Stainless Steel Sheet
CEILING	- Hairline Finished st/st, - Mirror Finished st/st and Acrylic
HANDRAIL	- Mirror Finished st/st - Hairline Finished st/st
FLOORING	- Durable Vinyle tiles - Granite
SILL	Extruded hard aluminum
KICK PLATE	Stainless steel
BUMPER	Stainless steel
VENTILATION	Electric Blower
LIGHTING	- Fluorecent - Star
SAFETY DEVICE	- Emergency light - Emergency exit - Safty edge - Safty light curtain - Emergency by pass - Door delay

Ceiling :



CE-02

Car Operational Panel :



BA 21G

Hall buttons



VID - M432T



VID - M432

Handrail



HR-01



HR-02

Handicap (Option)



Observation Elevator



OIF 508A

Car Cover:

Hairline Stainless Steel

Obervation Wall:

Three Glue Glass of Safty Clamp

Decoration Roof:

White Roof Lamp with Tube Lamp

Car Wall:

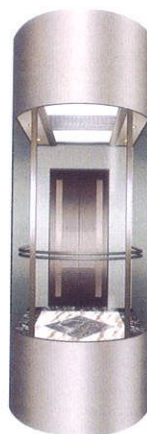
Stainless Steel Hairline Board

Handrail:

Three Tube for Stainless Steel

Floor:

PVC Floor



OIF 520C

Car Cover:

Stainless Steel Sparying

Obervation Wall:

Three Glue Glass of Safty Clamp

Decoration Roof:

Image Board with Tube Lamp

Car Wall:

Stainless Steel Hairline Board

Handrail:

Pair Tube for Stainless Steel

Floor:

PVC Floor



OIF 515A

Car Cover:

Steel Plate Sparying

Obervation Wall:

Glue Glass of Safty Clamp

Decoration Roof:

Multi Yaler Gils-ten Board
withTube Lamp

Car Wall:

Stainless Steel Hairline Board

Handrail:

Stainless Steel Tube

Floor:

PVC Floor



OIF 538

Car Cover:

Stainless Steel Sparying with
Tube Lamp

Obervation Wall:

Three Glue Glass of Safty Clamp

Decoration Roof:

OLF-123

Car Wall:

Stainless Steel Hairline Board

Handrail:

Stainless Steel Tube

Floor:

PVC Floor

Home Elevator

Enjoy Life



Interesting Life



Making life wonderful, ***PIONEER HOME LIFT*** high class home elevator other precious, elegant designs and handsome the lift of human being.

Smart Life

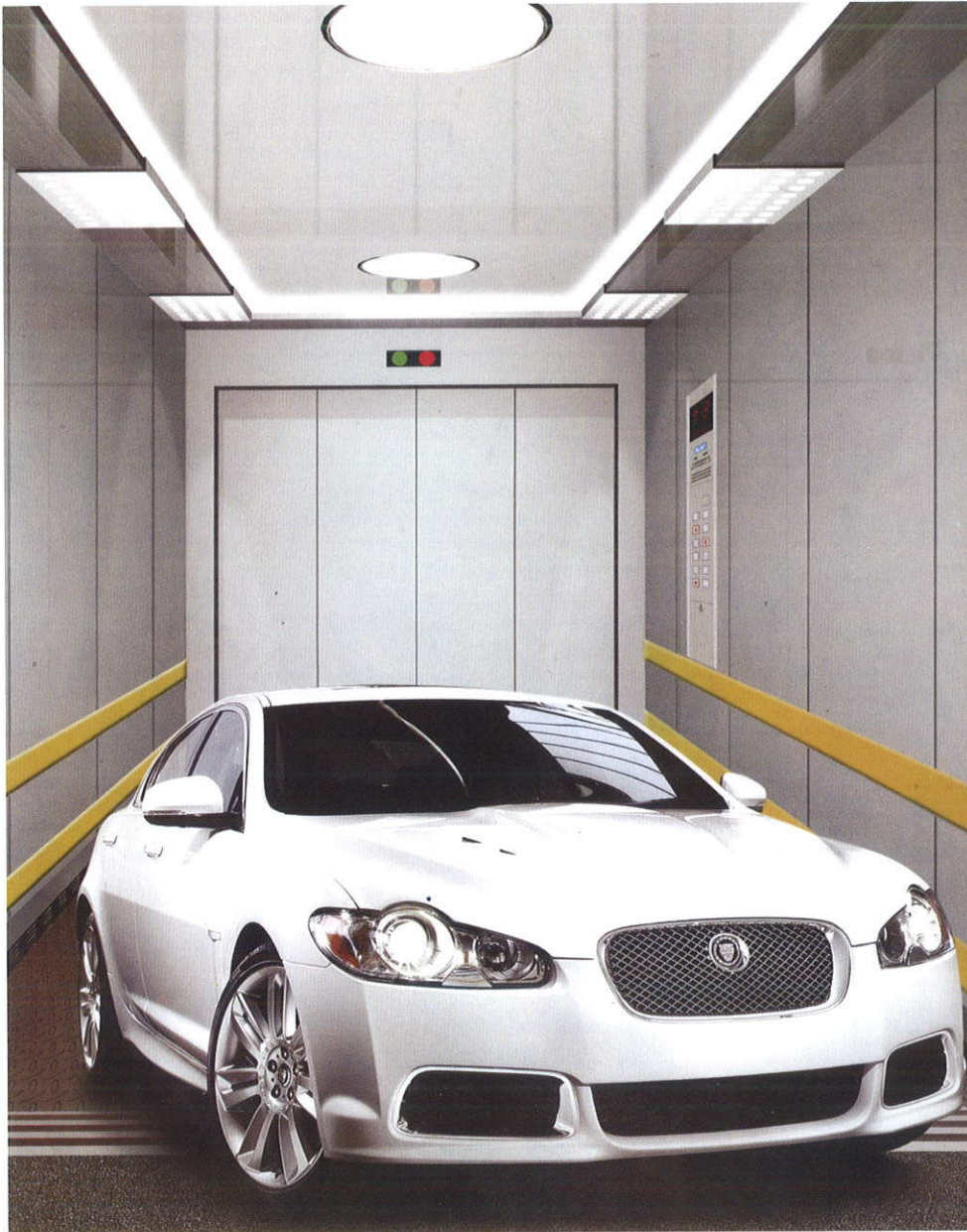


Warm Life



Being a member of your family, ***PIONEER HOME LIFT*** makes your life more interesting.

Automobile Elevator

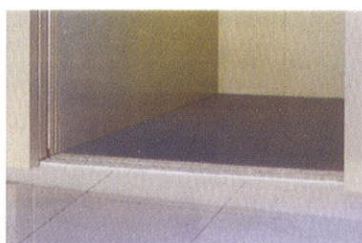
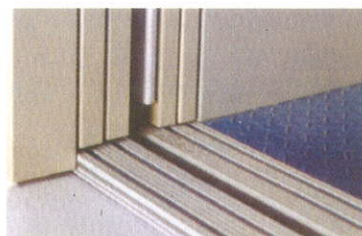
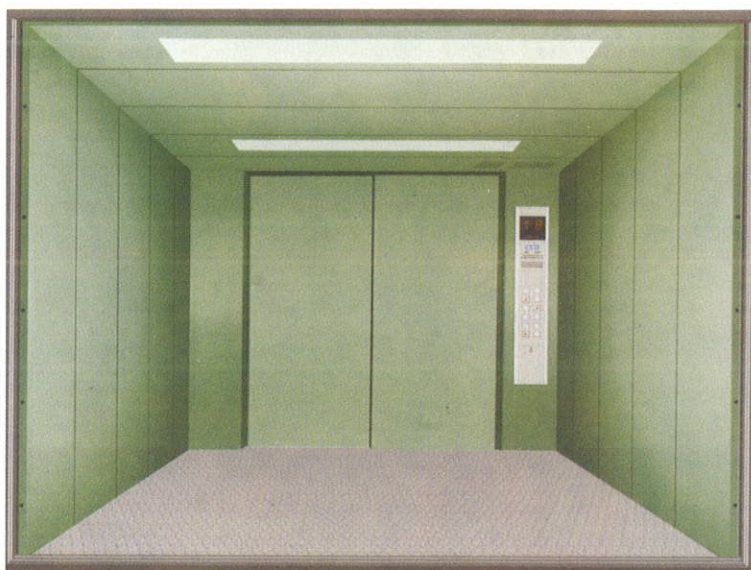


Feature of automobile elevator

Automobile belongs to high grade consumption. Security matters too much in this aspect. DELIGHT automobile elevators adopt the highly mature variable voltage and frequency control technology. It practices the extremely accurate speed governor control through the special-purpose frequency converter. As a result, it prevents from noise from more burdened traction system because of uneven force to the car. It also avoids the existence of shaking car which is a bad factor. It optimizes the characteristics of these serial good to the maximum degree. It creates a more secure entry and exit for the cars.

1. Two control button boxes are available in the cabin, enabling the drivers to operate the elevator in their cars.
2. Exclusively designed controlling/displaying system gives convenience not only to drivers in the cabin but only to drivers waiting for the cabin.
3. Safety guiding device is available on the floor in the cabin, which ensures the safety for both the cars and the elevator.
4. The cabin can be opened in the front and the back, which makes it safer for the cars to move in and out of the cabin.

Cargo Elevator



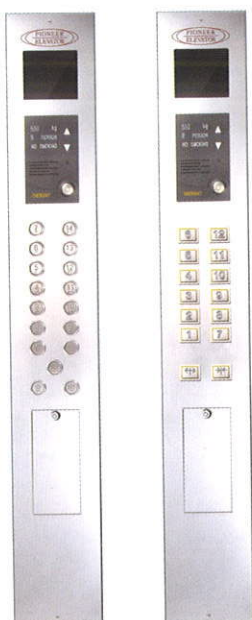
PIONEER series freight lifts, employing the fully PC controlling technology, AC variable frequency and variable voltage VVVF (optional), has not only the outstanding performance in energy saving and precision of leveling and highly effective load capacity, but also take the user's requirements into full consideration when designing. As a result, the performance/price ratio of these lifts is extremely high and the lifts can be used in vertical transportation occasion such as factories, transportation centers, warehouses and vehicles, vertical transportation.

Car Ceiling	Painted steel
Car wall Car Door	Painted steel
C.O.P	Hairline stainless steel
Floor	Chequer steel
Sill	Alloyed hard aluminum Cast iron ($\geq 3T$)

Fixture

Car Operating Panel

Standard



BA 21G

BA 20G

Optional



BCK131

BCK191

BCK194

Handicap



HBMS 43



CBM - 10 H

Hall Button

Standard

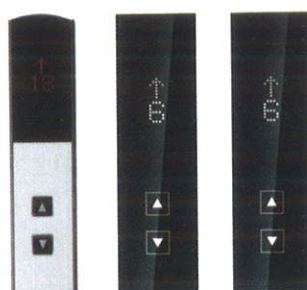


VID-M431

VID-M432

BX231

Optional



BXK131

BXK191

BXK194

For Group Control



VID-M432T

VID-M433

Hall Position Indicator



BMG200



BMG201

Hall Lantern



BF131



BFK120

Push Button



BA203



BA211



BA212



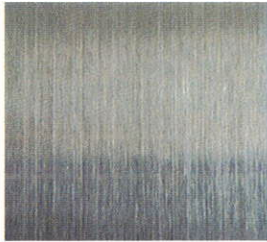
KA203



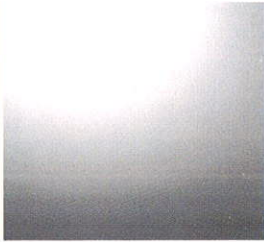
BA530

Material for Car Walls And Door Panels

Stainless Steel



Stainless Steel
Hair line Finish



Stainless Steel
Mirror Finish



Stainless Steel
Mirror Brass toned

Wood (Formica)



W001



W002



W003



W004



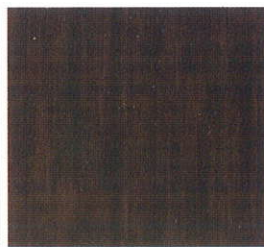
W005



W006

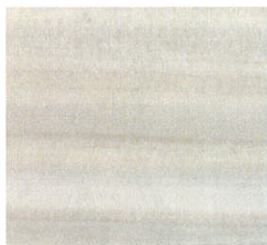


EVL8439



EVL8434

Durable Vinyl Tile



5474



5261



7555



5474

Granite



Black Golden
Spot Granite
Stone



Cold grey



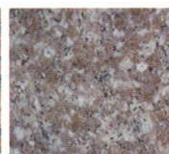
Dark Pink
China Granite
Stone



Gray China
Granite Stone



Orange china



Orange Sagura
Granite Stone



Red India Large
Spot Granite
Stone



White China
Granite Stone

Optional Design



HSEQ-603



HSEQ-616



HSEQ-618



HSEQ-619



HSEQ-621



HSEQ-N04



HSEQ-629



HSEQ-N16



HSEQ-634



HSEQ-J038

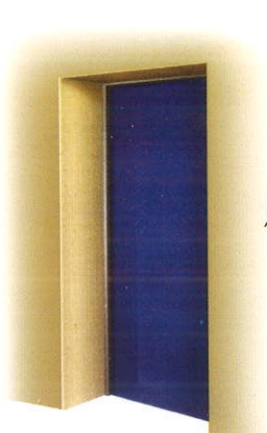


HSEQ-609

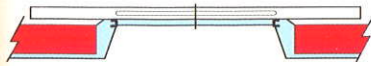


HSEQ-614

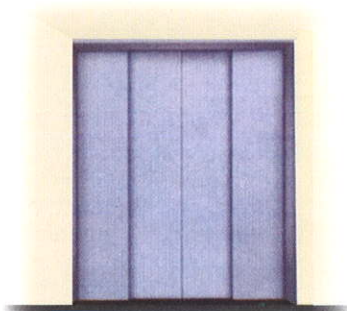
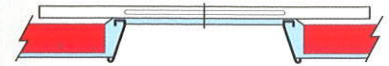
Pioneer Entrances



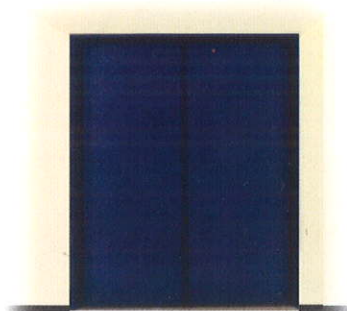
2 Panel Center Opening (CO)
Standard Jamb (Narrow Jamb)



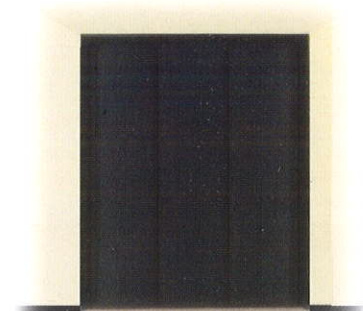
2 Panel Center Opening (CO)
Wide Slide Jamb



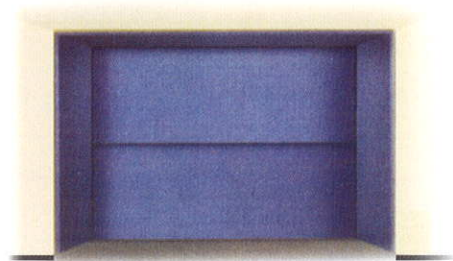
4 Panel Center Opening Door



2 Panel Side Opening Door



3 Panel Side Opening Door



2 Panel Up Sliding Door



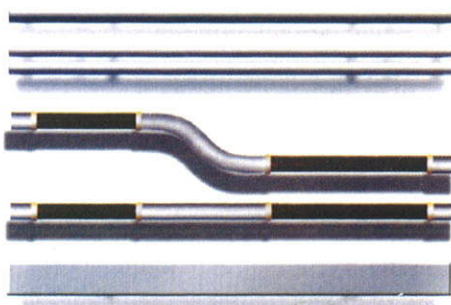
3 Panel Up Sliding Door



6 Panel Center Opening Door

DOOR AND	Painted steel sheet
DOOR JAMB	- Stainless steel - Formica [plastic laminated]
SILL	Extruded hand aluminum

Pioneer Hand-Rail

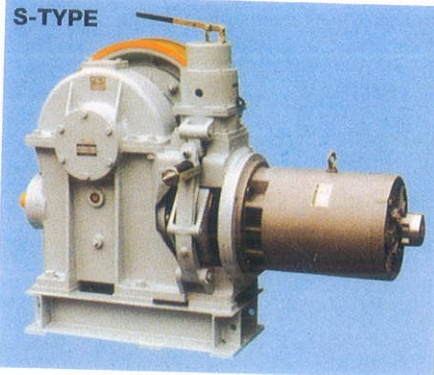


HR-01
HR-03 (OPTION)
HR-04 (OPTION)
HR-02

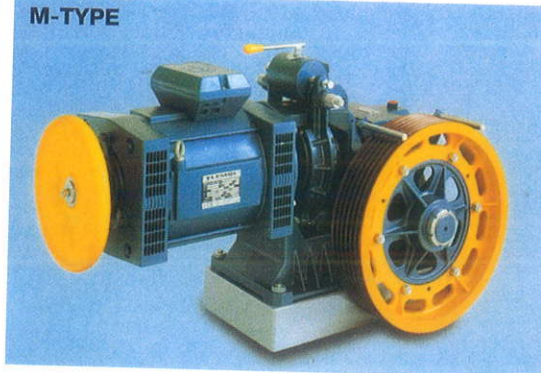
HANDRAIL	Stainless steel
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Pioneer Elevator Machine

S-TYPE



M-TYPE



Many high technology equipment and Safety device from PIONEER complete lift set of under EN81, ISO 9001, ISO 14001 and OSAS 18001 certificate

SPEED GOVERNOR



GUIDE SHOE



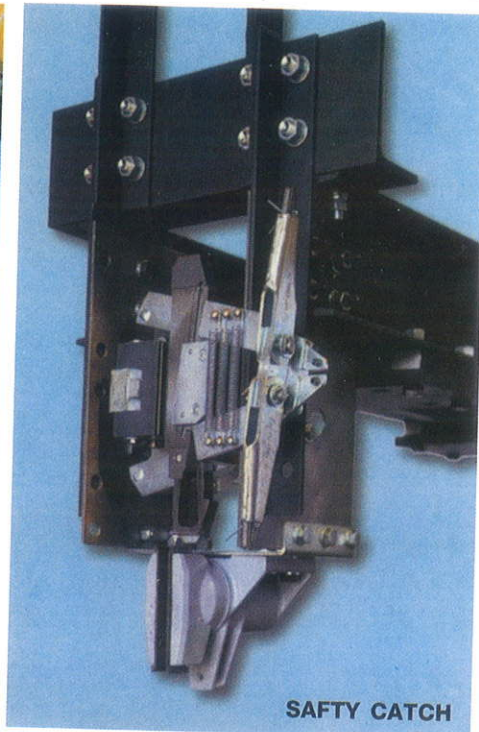
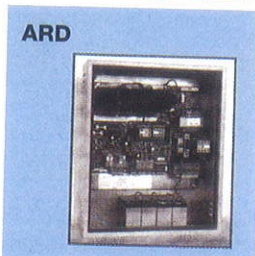
STEEL ROPE



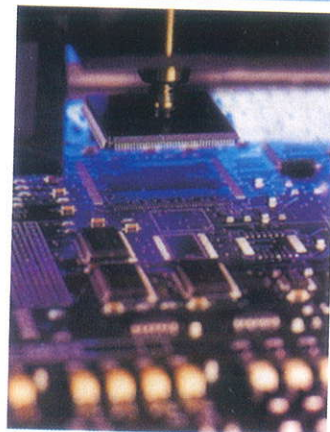
GUIDE RAIL



ARD



SAFTY CATCH



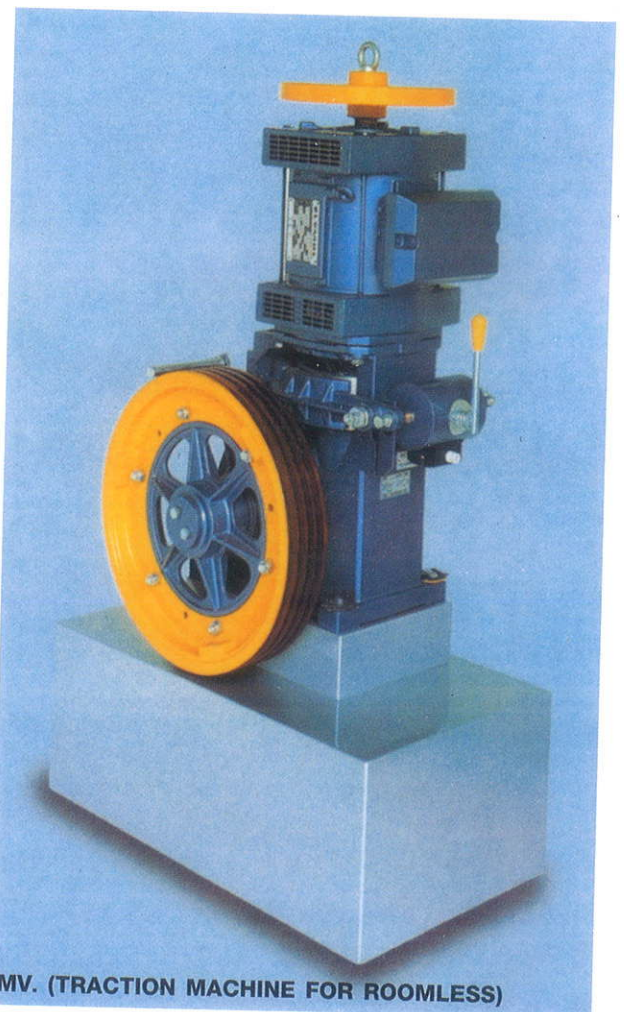
Microprocessor Control



MV3F

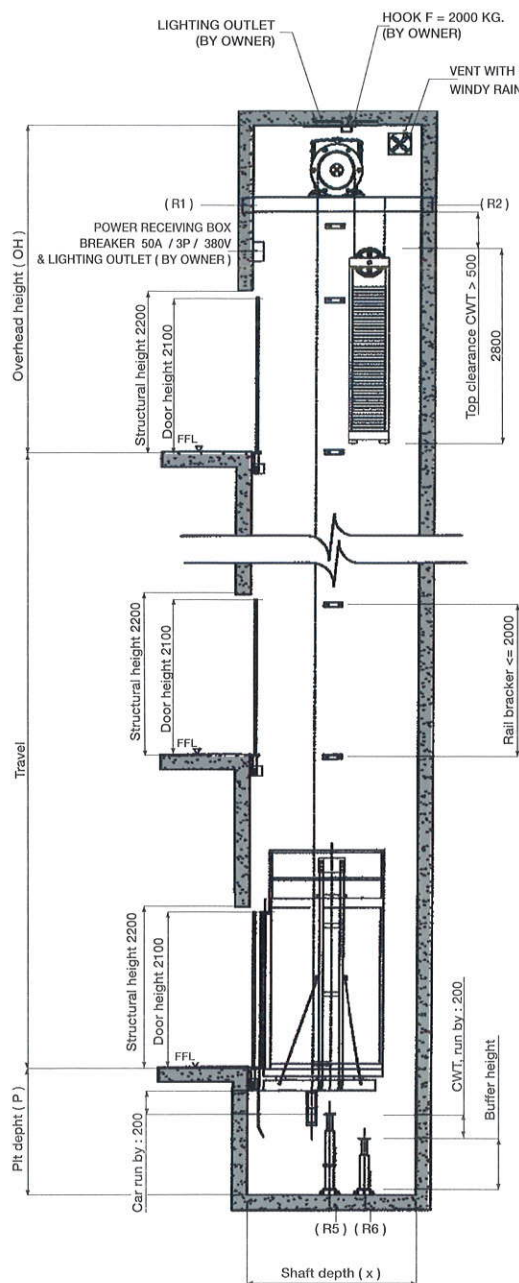


Gearless For Roomless

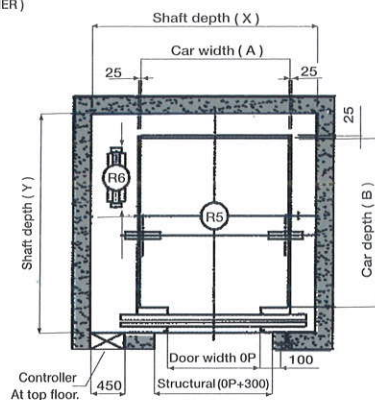


MV. (TRACTION MACHINE FOR ROOMLESS)

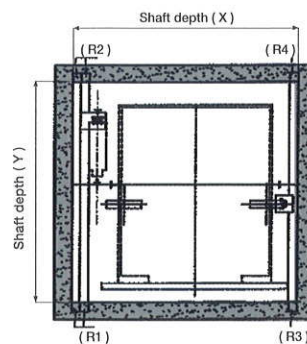
Pioneer Passenger Elevator Layout For MRL Model (Machine Roomless)



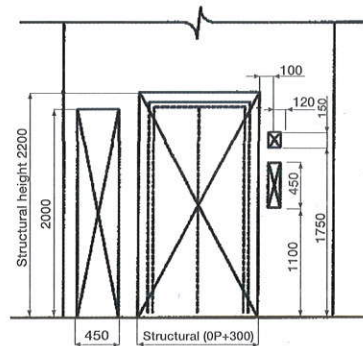
Shaft Cross Section



Shaft and Car Plan



Beam Setting



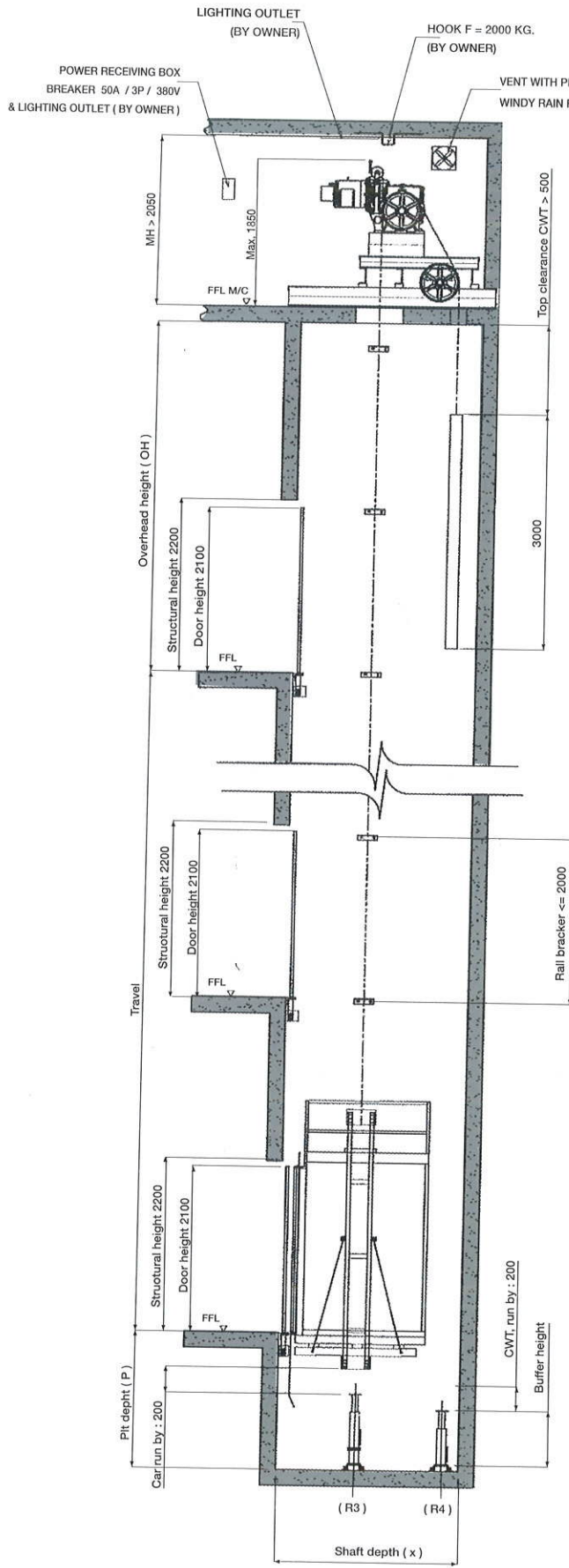
Typical Entrance

EN 81 STANDARD

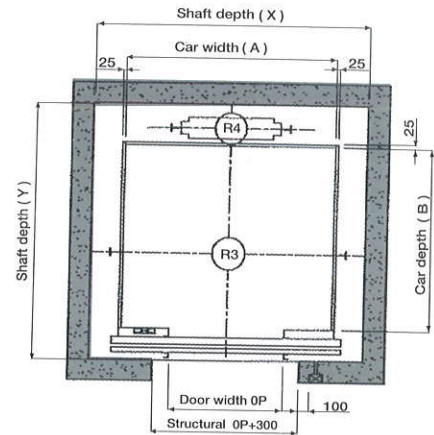
(UNIT : mm.)

MODEL	CAPACITY		SPEED	ENTRANCE OPENING	CAR SIZE		HOISTWAY				TOP BEAM REACTION LOAD				PIT REACTION LOAD	
	PERSON	LOAD (Kg.)			INSIDE		SHAFT	PIT	OVERHEAD		(R1)	(R2)	(R3)	(R4)	(R5)	(R6)
			(m/s)	(OP)	(A)	(B)	(X)	(Y)	(P)	(OH)	(Kg)				(Kg)	
MRL-450	6	450	1.0	800	1100	1100	2000	1700	1550	4200	1480	2875	575	685	4200	3700
MRL-800	10	800	1.0	800	1400	1400	2400	2000	1550	4200	1834	3650	770	867	7100	5700
			1.5								2034	4050	1170	1267	9600	7700
			1.75				2500	2100	1750	4500	2197	4221	918	1029	7500	6000
MRL-1000	13	1000	1.0	900	1400	1650	2400	2300	1550	4200	2500	4650	1320	1400	9600	7700
			1.5													
			1.75				2500	2400	1750	4500	3227	5550	1870	1990	9800	7600
MRL-1250	16	1250	1.0	1000	1600	1750	2500	2450	1550	4200	2600	2550	1650	4300	3530	5870
			1.5													
			1.75				2700	2600	1550	4500	4520	6950	2920	3050	10950	8400
MRL-1600	21	1600	1.0	1100	1700	2000	2700	2600	1550	4500	4900	7350	3300	3550	13750	10650
			1.5													
			1.75				2800	2700	1650	4300	4900	7350	3300	3550	13750	10650

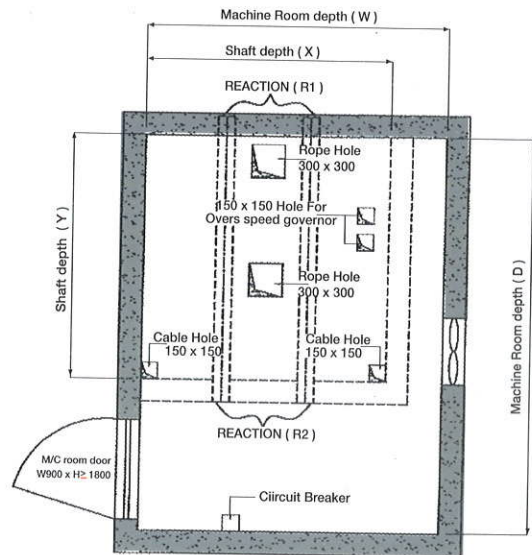
Pioneer Passenger Elevator Layout For MR Model



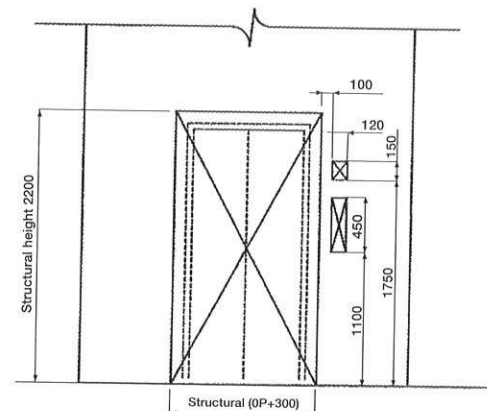
Shaft Cross Section



Shaft and Car Plan



Machine Room Plan



Typical Entrance

STANDARD

(UNIT : mm.)

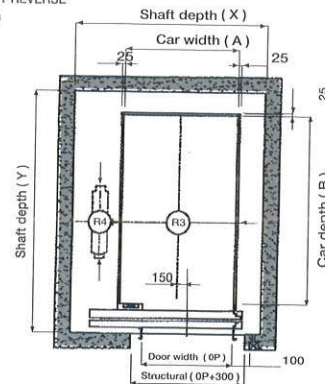
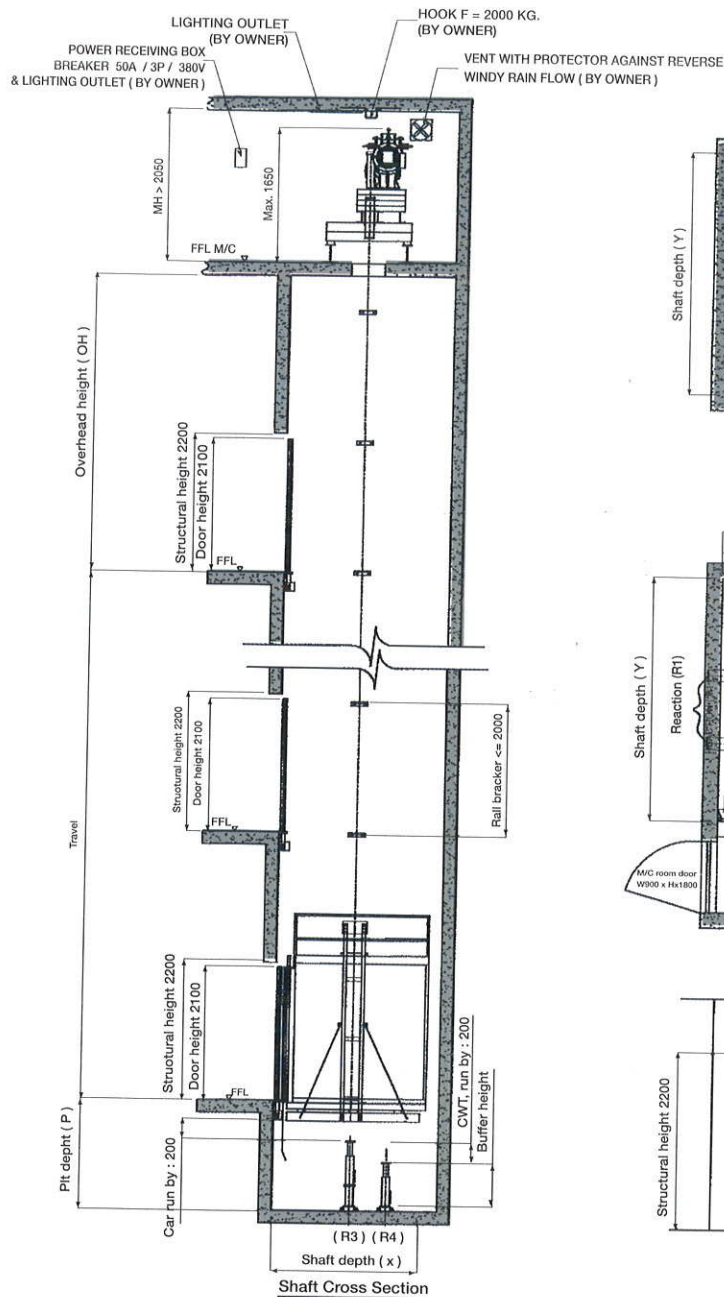
MODEL	CAPACITY		SPEED	ENTRANCE OPENING	CAR SIZE		HOISTWAY				MACHINE ROOM SIZE			REACTION LOAD			
	PERSON	LOAD			INSIDE		SHAFT		PIT	OVERHEAD	MACHINE			(R1)	(R2)	(R3)	(R4)
		(Kg.)			(m/s)	(OP)	(A)	(B)	(X)	(Y)	(P)	(OH)	(W)	(D)	(MH)	(KG)	
P6	6	450	1.0	800	1400	850	1800	1450	1550	4600	2400	3200	2050	3750	2050	4200	3700
P8	8	550	1.0	800	1400	1030	1800	1650	1550	4600	2400	3400	2050	4250	2250	4700	3800
			1.5						1800	4900	3000	3400	2250	4400	2550	6400	5400
P9	9	600	1.0	800	1400	1100	1800	1700	1550	4600	2400	3600	2050	4300	2500	4900	4000
			1.5						1800	4900	3000	3600	2250	4700	3200	6600	5500
P10	10	700	1.0	800	1400	1250	1800	1900	1550	4600	2400	3600	2050	4400	2750	5300	4400
			1.5						1800	4900	3000	3600	2250	5150	3500	7200	5900
			1.75				1850	1900	2100	5200							
P11	11	750	1.0	800	1400	1350	1800	2050	1550	4600	2400	3800	2050	4800	2900	5600	4500
			1.5						1800	4900	3000	3800	2250	5150	3500	7600	6100
			1.75				1850	2050	2100	5200							
P12	12	800	1.0	800	1400	1400	1850	2100	1550	4600	2400	3800	2050	5350	3850	7100	5700
			1.5						1800	4900	3000	3800	2250	5800	4200	9600	7700
			1.75				1900	2100	2100	5200							
P13	13	900	1.0	900	1600	1350	2100	2050	1550	4600	2500	3800	2050	5350	3850	7100	5700
			1.5						1800	4900	3000	3800	2250	5800	4200	9600	7700
			1.75				2100	2050	2100	5200							
P15	15	1000	1.0	900	1600	1500	2100	2150	1550	4600	2500	3900	2050	5700	4400	7500	6000
			1.5						1800	4900	3000	3900	2250	6400	4700	9600	7700
			1.75				2100	2200	2100	5200							
			2.0				2200	2300	2100	4600	3000	5400	2250	9900	7950	9450	8000
P17	17	1150	1.0	1000	1800	1500	2300	2200	1550	4900	2800	4000	2050	6900	5200	8650	6800
			1.5						1800	4900	3000	4000	2250	9850	7950	10850	8500
			1.75				2350	2250	2100	5200							
			2.0				2400	2300	2100	5500	3200	5400	2250	11700	8000	10900	8550
P20	20	1350	1.0	1000	1800	1700	2300	2400	1550	4600	2800	4200	2050	8200	6150	9800	7600
			1.5						1800	4900	3000	4200	2250	10450	8450	12150	9450
			1.75				2350	2450	2100	5200							
			2.0				2400	2500	2100	5500	3200	5800	2250	12200	8900	12450	9650
P24	24	1600	1.0	1100	2000	1750	2500	2450	1550	4600	3000	4300	2050	8900	6950	10950	8400
			1.5						1800	4900			2250	12100	8700	13750	10650
			1.75				2550	2500	2100	5200							
			2.0				2600	2550	2100	5500	3400	6200	2250	13960	9480	14000	10800

EN 81 STANDARD

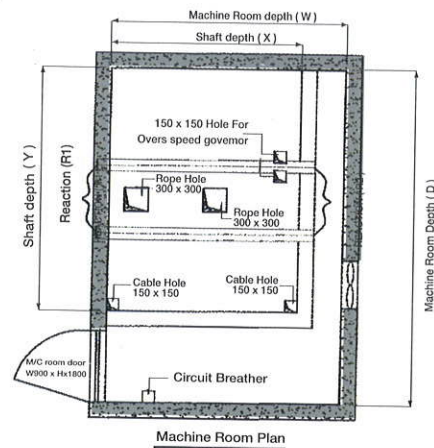
(UNIT : mm.)

MODEL	CAPACITY		SPEED	ENTRANCE OPENING	CAR SIZE		HOISTWAY				MACHINE ROOM SIZE			REACTION LOAD			
	PERSON	LOAD			INSIDE	SHAFT		PIT	OVERHEAD	MACHINE			(R1)	(R2)	(R3)	(R4)	
		(Kg.)				(m/s)	(OP')	(A)	(B)	(X)	(Y)	(P)	(OH)	(W)	(D)	(MH)	(KG)
MR-450	6	450	1.0	800	1400	850	1800	1450	1300	3900	2300	2500	2050	3750	2080	4200	3700
MR-800	10	800	1.0	800	1400	1400	1850	2100	1300	3900	2400	2800	2050	5350	3850	7100	5700
			1.5				1900	2200	1400	4000	2450	2900	2250	5800	4200	9600	7700
			1.75						1500	4200							
MR-1000	13	1000	1.0	900	1550	1500	2100	2150	1300	3900	2700	2900	2050	5700	4400	7500	6000
			1.5				2200	2250	1400	4000	2800	3000	2250	6400	4700	9600	7700
			1.75						1500	4200							
MR-1250	16	1250	1.0	1000	1750	1600	2400	2300	1300	3900	2900	3000	2050	8200	6150	9800	7600
			1.5				2400	2500	1400	4000	2900	3200	2250	9850	7950	12150	9450
			1.75						1500	4200							
MR-1600	21	1600	1.0	1100	2000	1700	2600	2450	1300	3900	3100	3200	2050	8900	6950	10950	8400
			1.5				2600	2600	1400	4000	3100	3500	2250	12100	8700	13750	10650
			1.75						1500	4200							

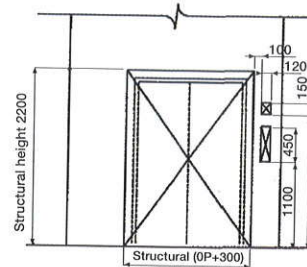
Hospital Elevator Layout For MR Model



Shaft and Car Plan



Machine Room Plan



Typical Entrance

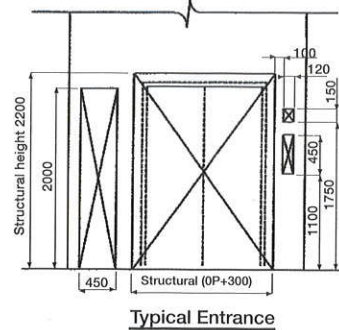
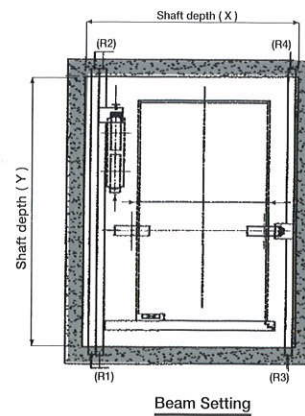
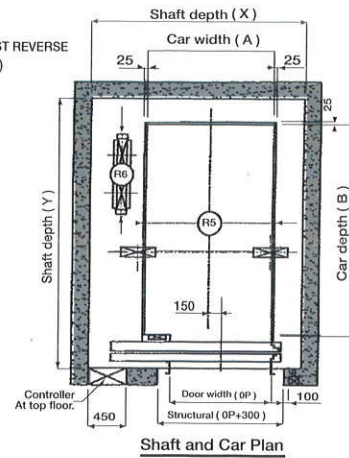
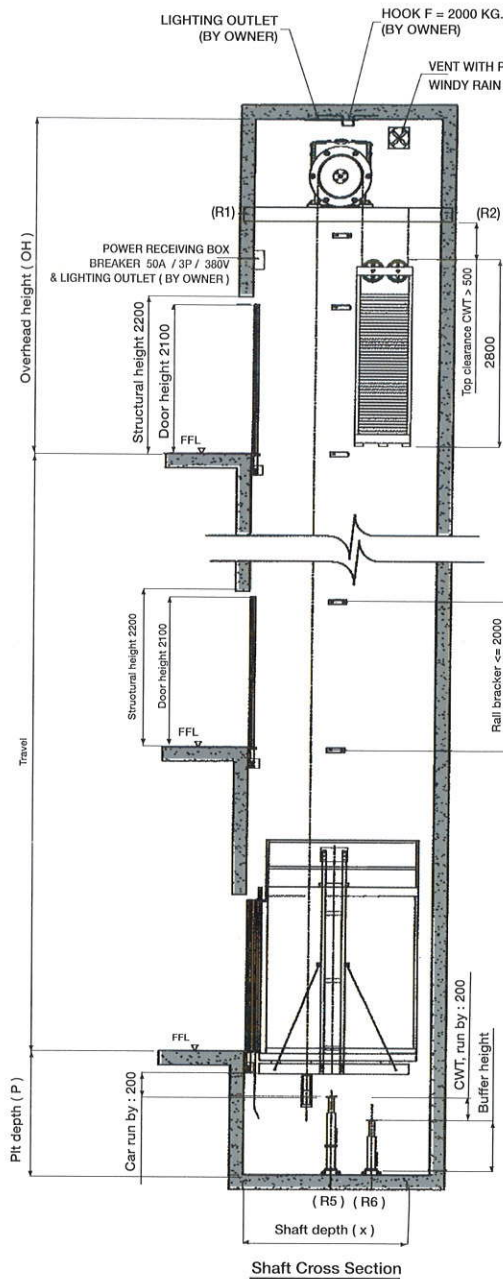
EN 81 STANDARD

(UNIT : mm.)

(UNIT : mm.)

MODEL	CAPACITY		SPEED	ENTRANCE OPENING	CAR SIZE		HOISTWAY				MACHINE ROOM SIZE			REACTION LOAD			
	PERSON	LOAD			INSIDE	SHAFT	PIT	OVERHEAD	MACHINE			(R1)	(R2)	(R3)	(R4)		
		(Kg.)							(m/s)	(OP)	(A)					(B)	(X)
MR-800(B)	10	800	0.75	1100	1300	2300	2050	2900	1300	4450	2300	4000	2050	4800	2750	7100	5700
			1.0				2100	2900	1500	4450	2500	4000	2250				
			1.5						1800	4650							
			1.75				2200	3000	2150	4850	2600	4600	2250				
MR-1000(B)	13	1000	0.75	1200	1500	2500	2300	3100	1300	4450	2800	4000	2050	5700	4400	7500	6000
			1.0				2400	3100	1500	4450	2900	4100	2250				
			1.5						1800	4650							
			1.75				2500	3200	2150	4850	3000	4800	2250				
MR-1600(B)	21	1600	0.75	1200	1500	2600	2300	3100	1300	4450	2800	4000	2050	8900	6950	10950	8400
			1.0				2400	3200	1500	4450	2900	4200	2250				
			1.5						1800	4650							
			1.75				2500	3300	2150	4850	3000	4900	2250				

Hospital Elevator Layout For MRL Model (Machine Roomless)



EN 81 STANDARD

(UNIT : mm.)

MODEL	CAPACITY		SPEED	ENTRANCE OPENING	CAR SIZE		HOISTWAY				TOP BEAM REACTION LOAD				PIT REACTION LOAD	
	PERSON	LOAD			INSIDE		SHAFT		PIT	OVERHEAD	(R1)	(R2)	(R3)	(R4)	(R5)	(R6)
		(Kg.)			(m/s)	(OP)	(A)	(B)	(X)	(Y)	(P)	(OH)	(KG)			
MRL-800(B)	10	800	0.75	1100	1300	2300	2300	2900	1400	4450	1834	3650	770	867	7100	5700
			1.0				2400	3000	1600	4550						
			1.5						1850	4750	2034	4080	1170	1267	9600	7700
			1.75				2500	3100	2250	4850						
MRL-1000(B)	13	1000	0.75	1200	1500	2500	2400	3100	1400	4450	2197	4221	918	1029	7500	6000
			1.0				2500	3200	1600	4550						
			1.5						1850	4750	2500	4650	1320	1400	9600	7800
			1.75				2600	3300	2250	4850						
MRL-1600(B)	21	1600	0.75	1200	1500	2600	2400	3200	1400	4450	4250	6950	3050	1400	10950	8400
			1.0				2500	3300	1600	4550						
			1.5						1850	4750	4900	7350	3550	1850	13750	10650
			1.75				2600	3400	2250	4850						

PIONEER SPECIAL FUNCTIONS FOR COMFORT, CONVENIENCE AND SAFETY

According to ISO , EN81

PIONEER Feature	Description	Application
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■ GENERAL SYSTEM FEATURES

PIONEER Supervisory Control	Up and down selective collective control system.	Ⓢ
VVF Inverter Drive	Precisely adjust elevator motor speed through voltage and frequency Regulation, resulting in a Smooth and quiet passenger ride.	Ⓢ
Data Network System	The system utilizes microprocessor distributed throughout the elevator configuration for more flexible control of the overall system.	Ⓢ

■ OPERATIONAL FEATURES

Automatic Door-Open Time Adjustment	Door-open times are automatically adjusted taking into consideration whether the call is a hall call or a car call.	Ⓢ
Door Nudging Feature-Without Buzzer	If the doors are kept open longer than the predetermined time, a temporary override function is automatically engaged to close the doors.	Ⓢ
Car Call Cancelling	When a car responds to the final car call in up or down direction, the system automatically checks and clears the remaining calls from memory.	Ⓢ
Overload Holding Stop	The feature sounds a buzzer to prevent an overloaded car from leaving the floor.	Ⓢ
Car Light Shut Off-Automatic	If there is no call registered within a predetermined period of time, the car light is automatically shut off to conserve energy.	Ⓢ
Car Fan Shut Off-Automatic	If there is no call registered within a predetermined period of time, the car fan is automatically shut off to conserve energy.	Ⓢ
False Call Cancelling-Automatic	If the number of car calls registered is not in proportion with the number of Passengers, all calls are cancelled in order to avoid unnecessary stops.	⓪
Automatic Bypass	A crowded car, with load exceeding a preset value, will bypass hall calls in order to maintain maximum operating efficiency.	⓪
Continuity of Service	A car experiencing trouble is automatically removed from group operation in order to protect overall group performance.	Ⓢ
Door Nudging Feature	If the doors are kept open longer than the predetermined time, and override alarm sounds to alert the passengers that the doors must close.	⓪

■ SERVICE FEATURES

Non-Service of Specified Floor-Switch Type (NS)	Service to specified floors can be restricted by turning the key switch installed at an elevator lobby or on supervisory panel (optional).	⓪
Hall Out-of-Service Operation (HOS)	A given number of elevators can be taken out of service to allow maintenance or effect energy savings by turning the key switch installed at a specified floor.	⓪
Forced Floor Stop (FFS)	Each car in the elevator bank will stop at a specified floor on every trip, without a call being registered.	⓪
Return Operation (RET)	Operation of a key switch installed on the supervisory panel (optional) will call an elevator to a specified floor for independent use.	⓪
Attendant Service (VS)	The operation mode of an elevator can be changed over to attendant service from the normal full automatic operation by an override switch in the car operating panel.	⓪
Independent Service (IND)	A car can be isolated from the group and used without interruption. (An override switch is installed in the car operating panel).	Ⓢ
Extended Door-Open Button (HOLD BUTTON)	By pressing this button in the car, the doors will remain open for an extended time to facilitate the loading of materials, luggage, etc.	⓪

■ GROUP CONTROL FEATURES

Backup System for Hall Calls	Elevator service is protected in the unlikely event that there is a microprocessor failure.	Ⓢ
Off Hour Spotting	When traffic is light, cars are dispersed to reduce waiting times for future calls.	Ⓢ
Peak Traffic Control	Floors with heavy traffic during peak hours are given priority services.	⓪
Main Floor Parking	An available car will be parked at the main floor with doors open.	⓪

Ⓢ Standard ⓪ Optional

PIONEER FUNCTIONALITY THAT RAISES ELEVATOR SYSTEMS TO A NEW GENERATION

According to ISO, EN81

PIONEER Feature	Description	Application
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FEATURES FOR COMFORT AND CONVENIENCE

Safe Landing	If there is a malfunction and the elevator stops between floors, controller will perform a diagnostic check prior to moving the elevator to the nearest floor.	Ⓢ
Next Landing	If the elevator doors are unable to open fully at a destination floor for any reason, the doors will close and the elevator will go to the next floor.	Ⓢ
Door Load Detector	If the doors are prevented from opening or closing properly, door direction is reversed.	Ⓢ
Passenger-Sensing Doors	Door protection system which utilizes thermo sensor to detect boarding passengers at the door opening.	Ⓞ
Safety Door Edge	Door protection system which utilizes sensitive mechanical door edge to detect passengers or objects at the door opening. (Only applicable for center-opening doors.)	Ⓢ
Safety Ray	Door protection system which utilizes one infrared ray covering the spot or the full width of the door opening to detect passengers or objects.	Ⓞ

SIGNAL AND DISPLAY FEATURES

Car Arrival Chime	An electronic chime sounds to inform waiting passengers of the car arrival. (The chime is mounted on the top and bottom of the car, or at each landed floor if requested.)	Ⓢ
Flashing Hall Lantern	A hall lantern flashes to indicate the car arrival and its service direction to passengers waiting at the elevator lobby.	Ⓞ
Auxiliary Car Operating Panel	This panel can be used in large-capacity elevators or elevators in crowded buildings for easier access by more passengers in the car.	Ⓞ
Interphone (ITP)	Intercom allowing passengers to communicate with building personnel.	Ⓢ
Emergency Car Lighting (ECL)	Turns on immediately when normal power fails, providing a minimum level of illumination within the car. (Dry-cell battery or battery with trickle charger can be selected.)	Ⓢ
Attentive Announcement (AAN-B)	Synthesized voice announcement instructs passengers in the event normal operation is interrupted. (Announcement is in English only.)	Ⓞ

EMERGENCY OPERATIONS AND FEATURES

Automatic Rescue Landing Device (ARD)	In the event of normal power failure, the elevator power of a rechargeable battery moves the car to the nearest floor. (This feature is applicable when distance between floors served is less than 10m.)	Ⓞ
Operation By Emergency Power Source-Automatic/Manual	If normal power fails, preassigned elevators are automatically called to a specified floor in selected sequence using the building's emergency power source. Once all the elevators have arrived at the floor, designated elevator(s) can operate normally.	Ⓞ
Fireman's Emergency Operation	When the fireman's switch activated during a fire, all calls are cancelled and the designated car returns immediately to a specified floor. To facilitate rescue afterwards, the car responds only to car calls.	Ⓞ
Fire Emergency Return	When a key switch on the supervisory panel (optional) is turned on or the fire sensors in the building are activated, all calls are cancelled, and all cars are immediately called to a specified rescue floor and park there with the doors open.	Ⓞ
Supervisory Panel	This panel monitors elevator operation and controls emergency-operations from the building's control room etc. Position indicators and direction lights can be installed if requested.	Ⓞ

SAFETY DEVICES

Over Speed Governor	Any unusual acceleration causes the governor to cut power to the motor, grasping the governor rope and activating the safety gear.	Ⓢ
Safety Gear or Safety Clamp	When the car begins to travel at excessive speed, the governor activates the safety gear which grasps the guide rail, bringing the car to a safety stop.	Ⓢ
Final up and Down Limit	This is double protection to stop cage travel if the first limit switch should fail to operate correctly.	Ⓢ
Buffer	If the car or counter weight travels beyond the lowest floor the buffer reduces the collision shock, and stops the car or counter weight safely.	Ⓢ
Over Load Current Protection	Protect the equipment from over current.	Ⓢ
Limit Switch (Lower and upper)	This Limit Switch prevents excessive car travel at the lowest and highest floor.	Ⓢ
Door Adjusting	The VVVF inverter is applied to control the door, thus providing efficient and sensitive door open/close operation.	Ⓢ
Door Lock Switch	Prevents the door from opening while the elevator is running.	Ⓢ

According to ISO, EN81, JIS

Ⓢ Standard

Ⓞ Optional



ศูนย์บริการกรุงเทพฯ

- พระราม 2
- ลาดพร้าว
- ปทุมธานี
- สมุทรสาคร

ศูนย์บริการต่างจังหวัด

- กำแพงเพชร
- เชียงใหม่
- สงขลา
- ภูเก็ต



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