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ELEVATORS



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NIPPON LIFT INDUSTRY SDN. BHD.

Drive System

All kinds of products of NIPPON adopt the advanced magnetic synchronized traction machine. The traction machine has advantages of environmental protection, energy-saving, free-maintenance, safe reliability and high efficiency. It has low vibration, low noise and perfect ride comfort. The traction machine can save 30%-60% of power consumption compared to classical gear machine.



E-com offers multiple controllers to match different constructions, such as: wall-mounted controller for MRA; controller inside of hoistway for MRL; closet controller for high speed elevator;

Energy generated during braking is feed back to the power supply by the use of energy regeneration device. Compared with usual method of braking resistor, e-com saves 20~40% of power consumption;

Automatically hibernation will reduce power consumption prominently during elevator standby. Compared with elevator without this function, auto wakeup elevator saves 90% power consumption during standby;

With comprehensive EMC design scheme, e-com fully complies with EN12015, EN12016 standards, it is 'GREEN' electrical product with limit and acceptable electromagnetic pollution and strong electromagnetic susceptibility;

N-curve algorithm adopts distance control, it automatically calculates out possible maximum speed according to different floor distance, makes landing directly without creeping. Compared with usual control system, e-com improves 5~30% service efficiency, reduces time of waiting and riding elevator;

Brand-new pin board design can avoid mis-plug. Also the connection way of pin and plug guarantees a reliable and convenient junction;

Special technology of synchronous starting without load weighing compensation is adopted. By the using of sincos encoder, there is no need to adjust the load weighing compensation;

E-com adopts advanced earthquake monitoring detector which real-time detects P wave or S wave shaking acceleration, guarantees passengers evacuation before L wave coming which has the maximal demolition;

Surge protection will keep your equipments away from kinds of interferences caused by the energy from power wiring.



e-com MRL control system

Control system

e-com control system is an epochal product of NIPPON. It represents advanced technology by adopting innovative design. It is a real GREEN product; more than 100 protection design and precaution measurement guarantee ultimate SAFETY; compared with usual control system, e-com has lots of advantages;

ALL-IN-ONE design of highly integrated motor driving and logic control unit, not separated inverter and control board, reduces the middle control tache, multi CPUs share software and hardware which brings higher speed; multi CPUs monitor each other to make control more safe and reliable;



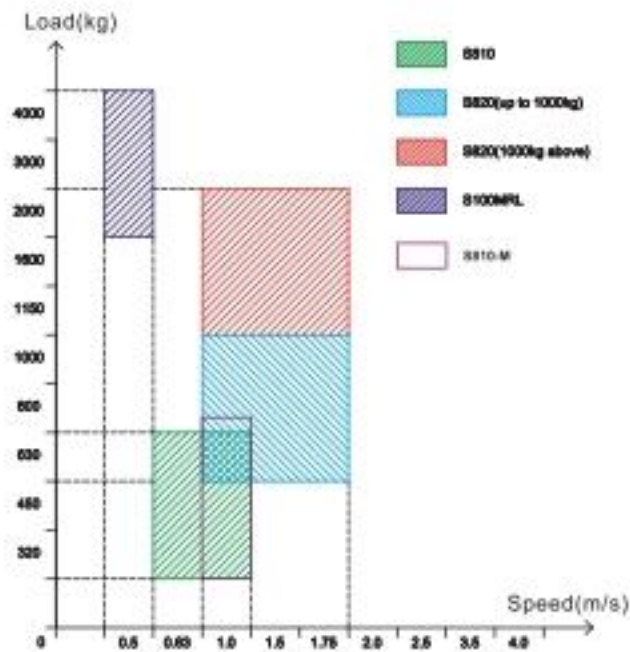
e-com MRA/MMR control system



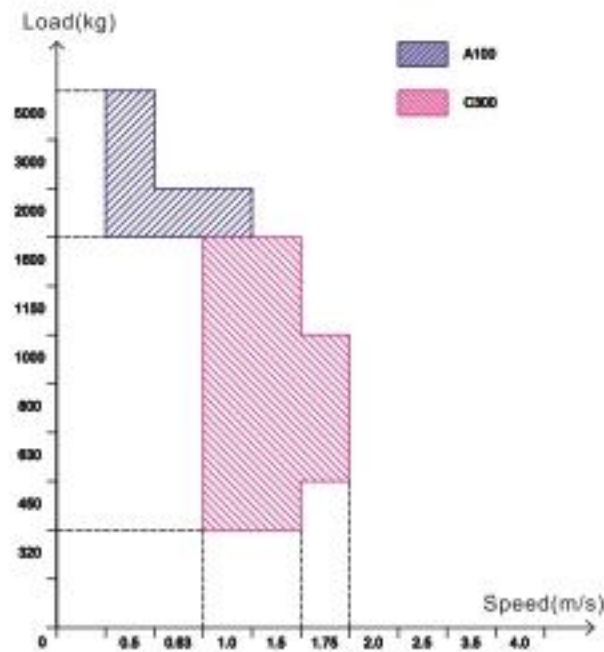
e-com control system
(Extruded)

Complete Solutions

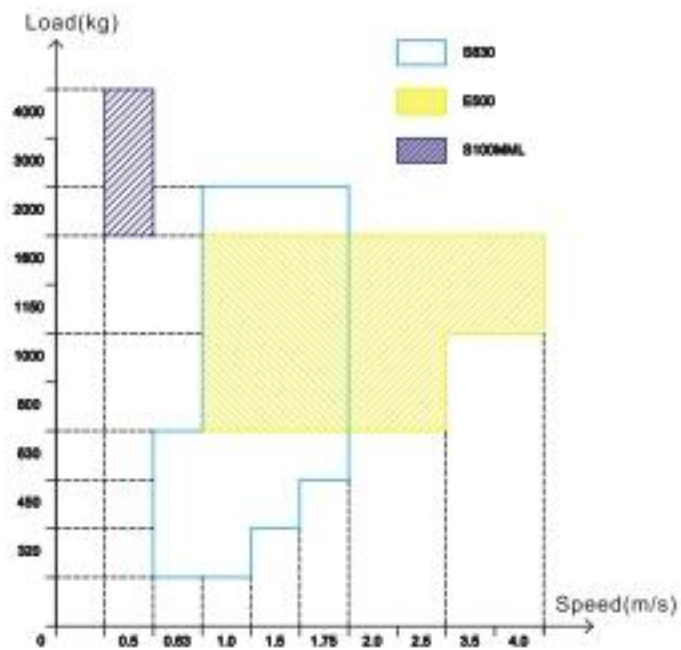
Machine Room-less (Gearless)



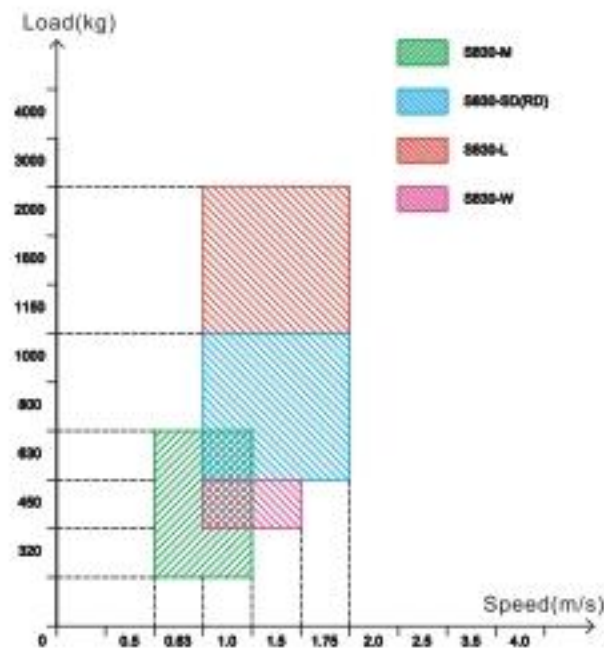
Machine Room Above (Geared)



Machine Room Above Gearless

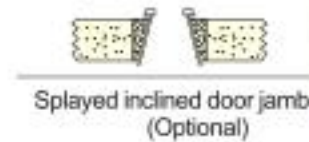
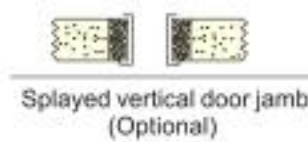


Machine Room Above (S830)

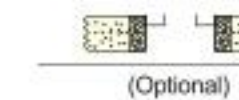
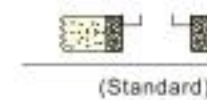


Landing Door Style

In order to make the environment more beautiful, the decoration of the door and jamb is according to the building's style.



Square door jamb (standard for S810 & S830-M)



Car Style



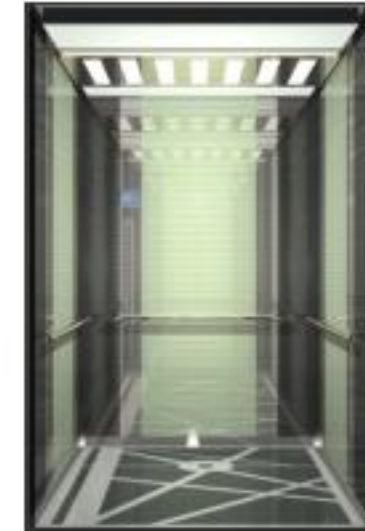
CEILING: Hairline ST/ST+Painted steel +acrylic resin panel, TH-105(standard)
WALL: painted steel(standard)
FLOOR: PVC(TCD314)



CEILING: Hairline ST/ST+acrylic resin panel, TH-103(standard)
WALL: Hairline ST/ST(optional)
FLOOR: PVC(TCD315)



JC-201
CEILING: painted ST/ST+ acrylic lighting
CAR WALL: titanium mirror & etched ST/ST + titanium mirror ST/ST
HANDRAIL: PVD Coated, mirror flat rail.
FLOOR: artistic ceramic



JC-204
CEILING: mirror ST/ST+glass + transparency,
CAR WALL: mirror & etched ST/ST+ painted ST/ST + painted glass
HANDRAIL: mirror single round rail
FLOOR: artistic ceramic



N02
CEILING: Hairline ST/ST + acrylic lighting + Vaulted
CAR WALL: hairline & etched ST/ST
HANDRAIL: ST/ST



Spring
CEILING: Spring (optional)
CAR WALL: Etched ST/ST+ Painted Safety Steel + Glass
FLOOR: Artistic Ceramic (FL-301)



JC-211
CEILING: Mirror ST/ST+ Glass + Transparency,
CAR WALL: Painted ST/ST+ Painted Glass
HANDRAIL: Mirror Flat Rail.
FLOOR: Artistic Marble



N16
CEILING: hairline ST/ST + Mirror ST/ST + acrylic decoration
CAR WALL: mirror ST/ST + hairline ST/ST
HANDRAIL: stainless steel

Car Ceiling/Handrail/Indication system



TH-105 (standard):
Mirror ST/ST + Black painted steel + Acrylic resin panel
TH105B (optional):
Aluminium-filled plastic + Black painted steel
+ Acrylic resin panel



TH-103 (optional):
Hairline ST/ST + Acrylic resin panel



TH-401
(Optional: Hairline OR mirror ST/ST + Acrylic resin panel)



TH-402
(Optional: Hairline OR mirror ST/ST + Acrylic resin panel)



TH-403
(Optional: Hairline OR mirror ST/ST + Acrylic resin panel)



TH-404
(Optional: Hairline OR mirror ST/ST + Acrylic resin panel)

Type		Material	Specification (mm)
HC-001 (Optional)		Stainless steel, single round	∅ 38
HC-002 (Optional)		Stainless steel, double round	∅ 22
HC-003 (Optional)		ST/ST, flat	80×6
HC-102 (Optional)		ST/ST + Wood	∅ 38
HC-104 (Optional)		ST/ST, round	∅ 38

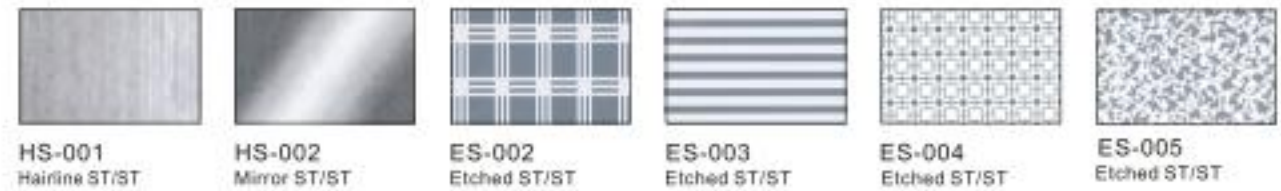
Car Wall & Floor

Car Wall Materials

Standard (painted steel)

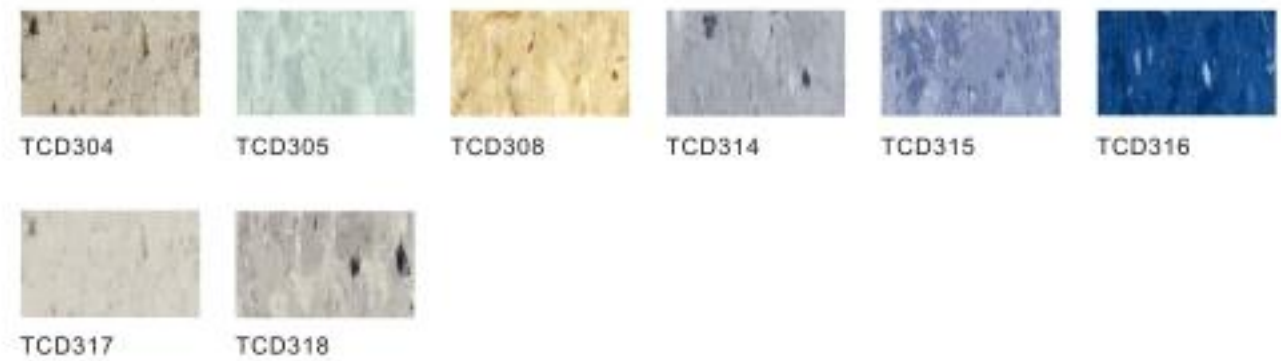


Optional



Floor

Standard (PVC tile)



Optional



Indication system

■ COB

Landing hall button and operationpanel button is comfortable to feel. Dot-matrix display shows various kinds of operation information.



Display & Button

■ INDICATOR

For car



Dot-matrix LED (standard)



Blue Segment LCD



Blue Dot-matrix LCD

Access control manager



TFT colored LCD(8 inch/10 inch)



For landing



Dot-matrix LED(V) (standard)



Dot-matrix LED(H) (standard)



Segment LCD (V)



Segment LCD (H)

■ BUTTON



RH-1(Standard)



RH-2/RH-3 (Optional)



SH-1(Optional)



SH-2/SH-3 (Optional)

■ HALL LANTERN



DZO-2



DZO-3

ELEVATOR Features and Functions Instruction

STANDARD PROTECTION

- **Over voltage protection**(Device name :MCU)
Once power source voltage exceeds 120%, the motor will be protected against damages.
- **Phase monitoring protection**(Device name :MCU)
Once power supply is short of any phase, the motor will be protected against damages.
- **Motor over current protection**(Device name :MCU)
Once current output to motor is over a set value, the motor will be protected against damages.
- **Motor overheat protection**(Device name :Thermal resistance)
Once motor winding temperature is over a set value, the motor will be protected against damages.
- **Encoder fault protection**(Device name :MCU)
Once encoder has fault, the motor will stop running immediately.
- **Contact adhere monitoring protection**(Device name :MCU)
System will monitor the contacts of contactors, if abnormal, the next running will not be allowed until the problem is resolved.
- **Over speed protection** (UP & DN)(Device name :MCU)
Once lift is running under over speed, lift will be stopped by electrical control system immediately.
- **Anti-reversal protection**(Device name :MCU)
Once the running direction monitored by encoder is not same as actual running direction, lift will stop running immediately.
- **Over running time protection**(Device name :MCU)
Once one trip running time exceeds a set time (running time for one trip from lowest floor to top floor), motor power will be cut to prevent motor working under abnormal situation.
- **Terminal switch protection**(Device name :Limit switches)
Prevent the elevator from traveling beyond a terminal landing.
- **Car overload protection**(Device name :Weighting sensor)
When car load exceeds rated load, lift will hold stop with door open at the floor and the buzzer alarms and overload lighting illuminated.

STANDARD FUNCTION

- **Auto-parking**
If no call during a set time, car will return to nominated main floor and wait for new calls.
- **Full load no stop**
When car load exceeds 80% (adjustable) of rated load, it ignores all hall calls to avoid useless stop and increase the efficiency of transportation. These ignored calls will be registered but responded in next trip (simplex) or other lift (group control)
- **Door open & close time adjustment**
Door open and close times are automatically adjusted depending on whether the call cause the door open and close is a car call or hall call or door call.
- **Jammed hall button detection**
If a hall button is jammed mechanically, this hall call will be automatically bypassed after being served once, until the problem is resolved.
- **Next landing**
When lift arrives at a floor but the doors can't be fully opened, the lift will go to the nearest floor and open the door.
- **Safe landing**
When lift stops at the locking door zone by fault, lift will go to the

- nearest floor under lower speed and open the door.
- **Car emergency lighting**
When normal lighting power supply fails, car emergency lighting on COP will be illuminated by emergency power source.
- **Emergency Alarm button**
When passenger trapped in car, press the button, the buzzer will alarm.
- **Intercom system**
This system allows the intercommunication between car, car top and pit to machine room (controller) or supervisor's room.
- **Fault record**
Controller will record latest 11 faults information include fault code, time and floor, and it will record the details of last fault.
- **Car fan shut Down control automatically**
Car fan will be shut down automatically if no more calls are registered after a set time.
- **Car fan switch on COP**
Car ventilation fan could be put into or out of service by this key switch on COP. It will be cancelled when "COP Window" optional function is selected.
- **Floor number setting**
Each floor display number could be set by 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, G, H, L, M, P, R.

ALTERNATIVE FEATURE

- **Selective collective operation**
Standard: Full collective (UP & DN hall call buttons on FOB)
Option: Down collective (DN hall call button on FOB)
- **Car group control**
Standard: Simplex
Option: a. Duplex, b. Triplex, c. Quadruplex
- **Door safety device**
Standard: 2D light curtain
Option: a. 3D light curtain, b. 2D light curtain with safety edges, c. 3D light curtain with safety edges
- **Hall indicator**
Standard: Dot matrix LED
Option: a. Segment LCD, b. without indicator
- **Hall indicator position**
Standard: mixed with call buttons
Option: above door, separately (standard when EN81-70 required)
- **Car indicator**
Standard: Dot matrix LED indicator
Option: a. Segment LCD, b. Blue LCD (5 inch), c. Colored LCD (8 inch), d. Colored LCD (10 inch).

INTERFACE

- **Remote control interface-parking shutdown**
Lift could supply an input interface (dry contact) for parking function, and user could use it to park the lift and put it out of service or put it into service.
- **Remote monitor interface-4 dry contacts**
System could supply 4 dry contacts to output the basic signals of lift operation include AUTO, INSPECTION, FAULT and PARKING for remote monitoring.
- **Video cable in car**
The cable is used for video camera (by others) installed in the car.

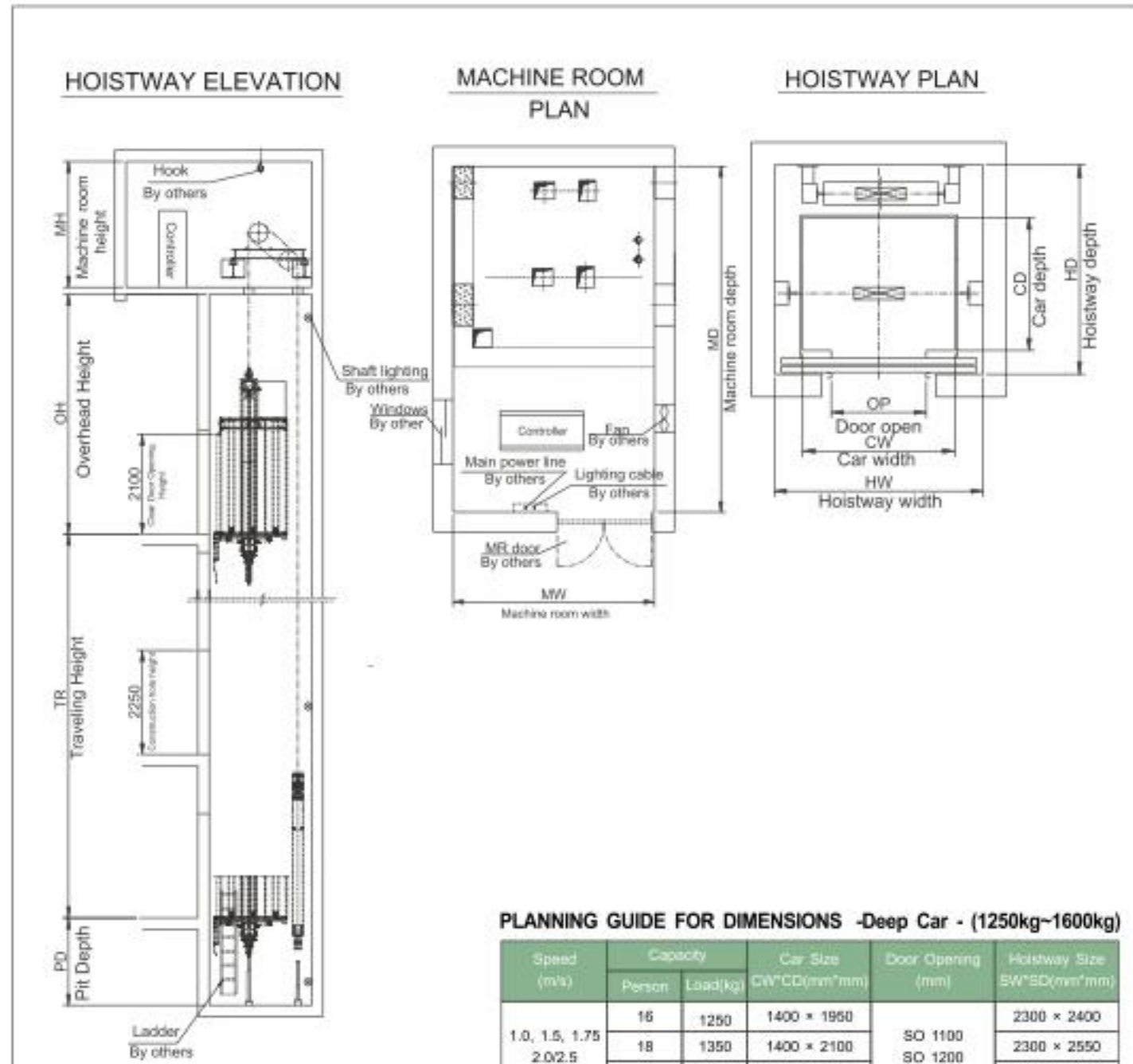
- **Audio cable in car**
The cable is used for audio broadcaster (by others) installed on car top.
- **RS485 interface**
1 RS485 port in control panel, can monitor:
1) elevator travel direction, current landing,
2) door status "open", "close",
3) elevator status "normal", "inspection", "fire return", "trip", "attendant", "over load", "full load", "fire return", "service off", "door lock", "safe loop"
4) tip code
SJEC provide a rs485 port and protocol document.
- **Remote monitoring system**
Monitoring system based on RS485 interface. Same monitor information as RS485 interface.
SJEC provide monitoring hardware and monitoring software in PC. Cables between elevator and monitoring room and PC by customer.

Optional Function

- **Car emergency exit** (trap door in car roof)
It is used to rescue the trapped passenger in car. It could be opened from outside of car without a key and inside with a triangle key. When this function selected, the car ceiling must be selected from Th40" series.
- **Door lock circuit bypass monitoring protection**
Door locks circuit will be monitored, once it is shorted, the lift will not be possible to run under "Normal" mode
- **False car call canceling**
False car call could be cancelled by press the same floor button twice continuously.
- **Anti- nuisance operation**
Once the registered car calls is more than the passenger numbers weighed by weighting device, all the car calls will be cancelled automatically.
- **False hall call canceling**
False hall call could be cancelled by press the same call button twice continuously (in 0.5S).
- **ARD** (automatic rescue device)
When power failure, lift will go to the nearest possible floor, open the door and release the passengers automatically.
This is a standard function for MRL solution.
- **Locking door zone alarm**
When lift stops at the locking doors zone by fault and can't operate Safe Landing, the buzzer will alarm.
- **Power saving device -Energy feedback**
This device will feedback the energy produced by lift system when running to the power supply. It could save power about 30%-70% depends on different type and capacity of lift.
- **COP window**
Six button/switches in this window:
a. Independent operation switch: When IND switch turns to "ON", the lift ignores all hall calls and only responds to car call, after complete the running required by the last car call, it keeps door fully open on landing.
b. Door open holding button: The door keeps open for a set time (adjustable, maximum 1000S) after press this button.
c. Car lighting switch: turn on/off the power supply of car lighting
d. Car fan switch: turn on/off the power supply of car fan
e. Attendant operation: the lift will be operated by an attendant.
f. Non-stop running: Under attendant operation, press this button, lift will ignore hall calls and go to the nearest registered car call floor.

- **Auxiliary COP**
Another COP without or with indicator in car.
- **Fire return** (Phase I)
When lift receives a fire alarm signal, it will stop running and directly return to nominated floor with door fully opened and out of normal service.
Fire alarm signal could be sent by the fire return switch on nominated floor or the building fire alarm system.
System could output a fire alarm signal to building fire alarm system when fire return.
- **Fireman operation** (Phase II)
When fire happened, the lift will be operated by fireman(s), operation controls follow EN81-72.
This operation will be turned on by the triangle switch on nominated main floor.
- **Parking shutdown switch**
Two positions switch on FOB of nominated floor. On "STOP" position, all registered calls will be cancelled and the lift will go to nominated floor with door open after landing. After a set time, it will close the door and out of service. The cancelled calls will be registered on other lift (if group control). On "RUN" position, lift will turn back to service.
- **Car arrival gong** - on car/halls
The audible signal informs the waiting passengers of the lift arriving and next running direction (different sound for UP and DN). The gong could be mounted on car or halls. When optional function "Voice synthesizer" is selected, this function is not needed.
- **Hall lantern**
It indicates passengers waiting at a floor about the travel direction of arriving car.
- **IC card device** - car call authorizer
Only after register by IC card, the car call(s) could be registered. Which means passenger without IC card can't use the lift.
- **IC card device** - hall call authorizer
Only after register by IC card, the car call(s) could be registered. Which means passenger without IC card can't call the lift on this floor.
- **Voice synthesizer**
The system provides audio information about car operation (arriving floor & running direction) to passengers. English language as standard, if other foreign language required, voice document in MP3 format should be supplied.
This device includes the function of "arrival gone".
- **Features used for handicap lift** (comply with EN81-70)
All features comply with EN81-70, but auto-dialer and intercom system should be supplied by others.
a. button with tactile, Braille and sound
b. Push button and indicator position follow EN81-70
c. Half height mirror (safety glass) on rear side (or by others)
d. Handrail on rear side
e. Voice synthesizer
f. Interface for auto-dialer and intercom
All features must be selected together
- **Features used for Handicap lift** (not follow EN81-70)
a. Half height mirror (normal glass) on rear side
b. Handrail(s)
c. button with tactile, Braille and sound
d. Handrail shape COB
e. Voice synthesizer
Each feature could be selected separately.

LAYOUT - E500 MRA(800-1600kg)



PLANNING GUIDE FOR DIMENSIONS -Deep Car - (1250kg~1600kg)

Speed (m/s)	Capacity		Car Size CW*CD(mm*mm)	Door Opening (mm)	Hoistway Size SW*SD(mm*mm)
	Person	Load(kg)			
1.0, 1.5, 1.75 2.0/2.5	16	1250	1400 × 1950	SO 1100 SO 1200	2300 × 2400
	18	1350	1400 × 2100		2300 × 2550
	21	1600	1400 × 2400		2300 × 2850

PLANNING GUIDE FOR DIMENSIONS - Wide Car - (800kg~1600kg)

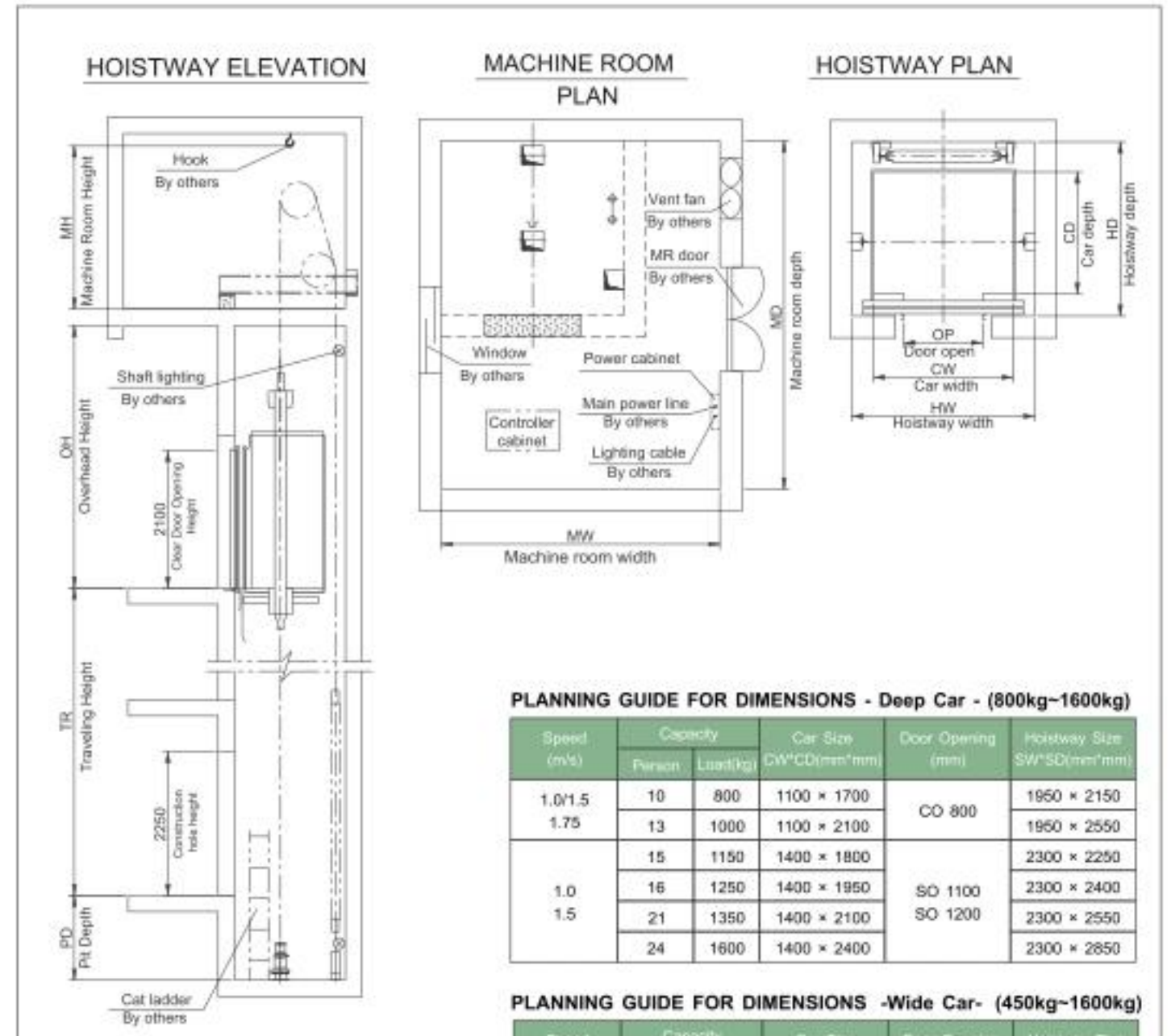
Speed (m/s)	Capacity		Car Size CW*CD(mm*mm)	Door Opening (mm)	Hoistway Size SW*SD(mm*mm)
	Person	Load(kg)			
1.0/1.5/1.75 2.0/2.5	10	800	1400 × 1350	CO 900	2000 × 2150
	13	1000	1600 × 1400	CO 1000	2200 × 2200
1.0/1.5/1.75 2.0/2.5 3.0/3.5/4.0	15	1150	1800 × 1400	CO 1100	2400 × 2200
	16	1250	1950 × 1400		2550 × 2200
	18	1350	1950 × 1500		2550 × 2300
	21	1600	1950 × 1700		2550 × 2500

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT

Speed (m/s)	OH (mm)	PIT (mm)	Car Clear Height(mm)	Door height (mm)
1.0	4300	1500	2200 with false ceiling	2100
1.5	4400	1600		
1.75	4500	1700		
2.0/2.5	5100	1900	2300 with false ceiling	
3.0	6450	3500		
3.5	6750	3550		
4.0	7150	4600		

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LAYOUT - C300 MRA(450-1600kg)



PLANNING GUIDE FOR DIMENSIONS - Deep Car - (800kg~1600kg)

Speed (m/s)	Capacity		Car Size CW*CD(mm*mm)	Door Opening (mm)	Hoistway Size SW*SD(mm*mm)
	Person	Load(kg)			
1.0/1.5 1.75	10	800	1100 × 1700	CO 800	1950 × 2150
	13	1000	1100 × 2100		1950 × 2550
1.0 1.5	15	1150	1400 × 1800	SO 1100 SO 1200	2300 × 2250
	16	1250	1400 × 1950		2300 × 2400
	21	1350	1400 × 2100		2300 × 2550
	24	1600	1400 × 2400		2300 × 2850

PLANNING GUIDE FOR DIMENSIONS -Wide Car- (450kg~1600kg)

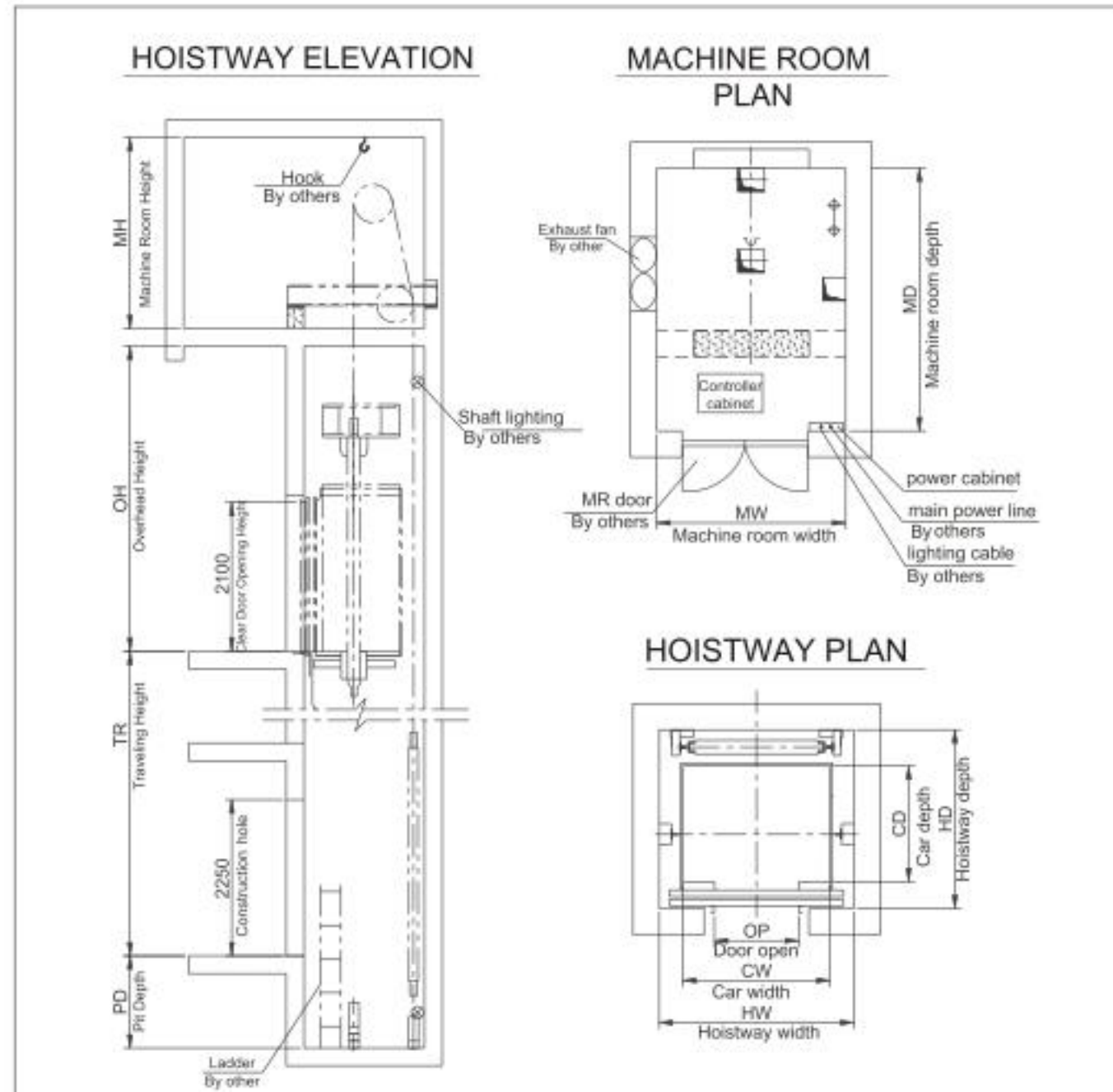
Speed (m/s)	Capacity		Car Size CW*CD(mm*mm)	Door Opening (mm)	Hoistway Size SW*SD(mm*mm)
	Person	Load(kg)			
1.0 1.5	6	450	1100 × 1100	CO 700	1550 × 1700
	6		1400 × 850	CO 800	1850 × 1450
1.0 1.5 1.75	8	630	1400 × 1100	CO 800	1850 × 1700
	10	800	1400 × 1350	CO 800	1850 × 1950
				CO 900	2000 × 1950
	13	1000	1600 × 1400	CO 900	2050 × 2000
CO 1000				2200 × 2000	
1.0 1.5	15	1150	1800 × 1400	CO 1100	2400 × 2100
	16	1250	1950 × 1400		2550 × 2100
	18	1350	1950 × 1500		2550 × 2200
	21	1600	1950 × 1700		2550 × 2400

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT

Capacity (kg)	Speed (m/s)	OH (mm)	PIT (mm)	Car Clear Height(mm)	Door height (mm)
450-1000kg	1.0	4300	1300	2200 with false ceiling	2100
	1.5	4400	1400		
630-1000kg	1.75	4500	1500		
	1.0	4400	1500		
1150-1600kg	1.5	4500	1600		

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LAYOUT - S830-W MMR(450-630kg)



PLANNING GUIDE FOR DIMENSIONS - Wide Car- (450kg~630kg)

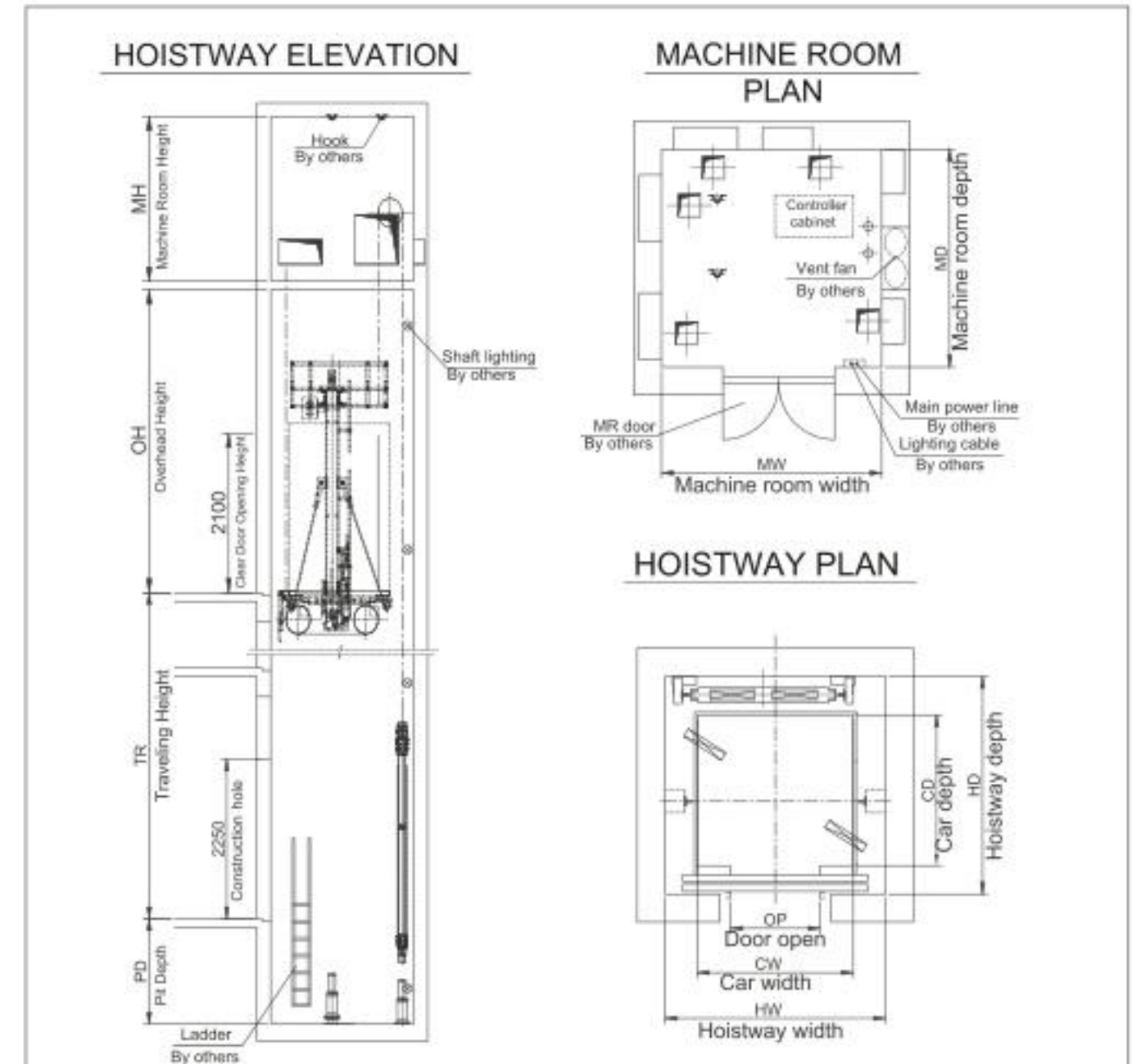
Speed (m/s)	Capacity		Car Size CW*CD(mm*mm)	Door Opening(mm)	Hoistway Size HW*HD(mm*mm)
	Person	Load(kg)			
1.0	6	450	1400 × 850	CO 800	1850 × 1450
			1100 × 1100	CO 700	1550 × 1700
1.5	8	630	1400 × 1100	CO 800	1850 × 1700

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT

Speed (m/s)	OH (mm)	PIT (mm)	Car Clear Height (mm)	Door height (mm)
1.0	4300	1300	2200 with false ceiling	2100
1.5	4400	1400		

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LAYOUT - S830-RD MMR(630-1000kg)



PLANNING GUIDE FOR DIMENSIONS (630kg~1000kg)

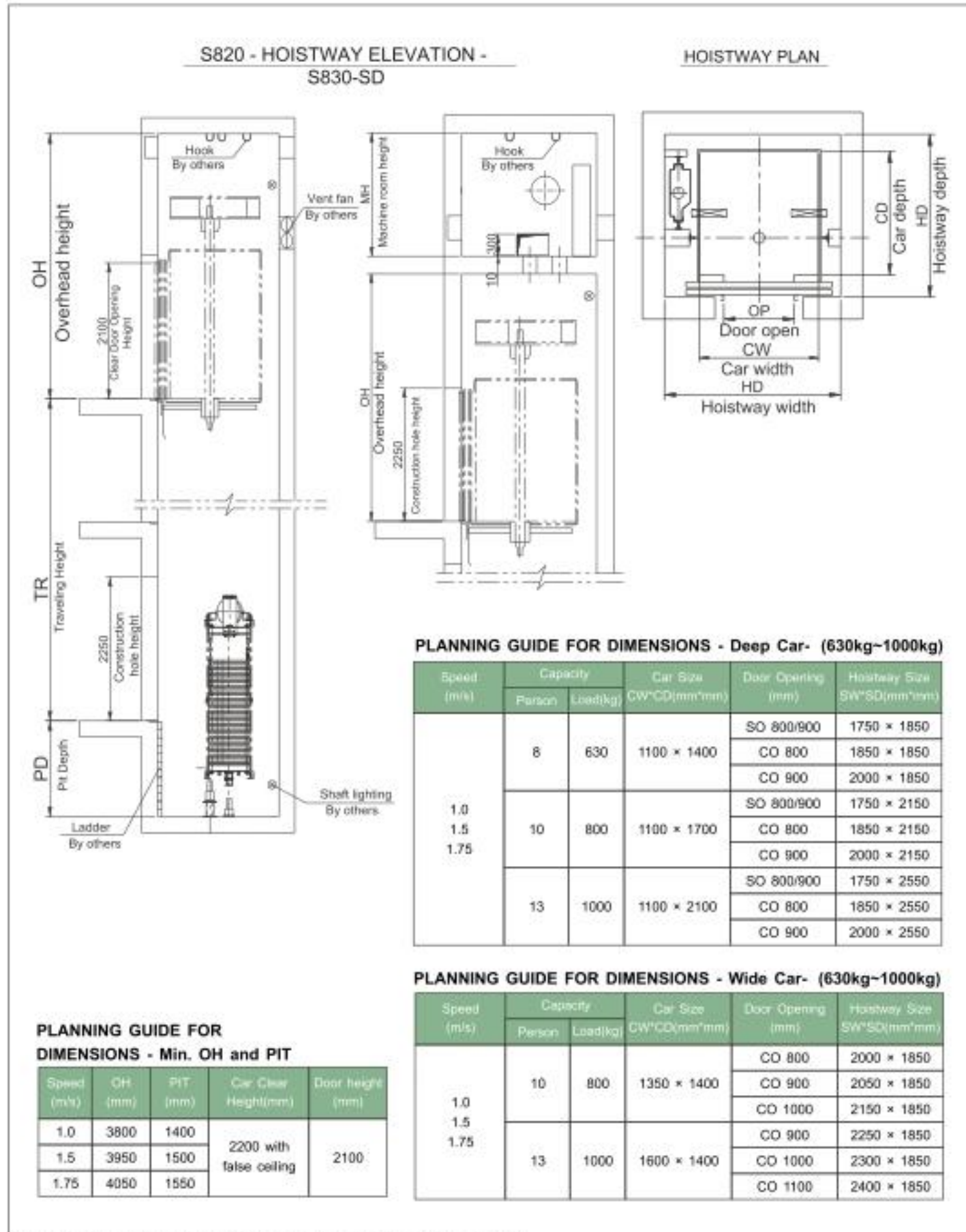
Speed (m/s)	Capacity		Car Size CW*CD(mm*mm)	Door Opening(mm)	Hoistway Size HW*HD(mm*mm)
	Person	Load(kg)			
1.0	8	630	1200 × 1300	CO 700	1650 × 1900
				CO 800	1800 × 1900
1.5	10	800	1400 × 1350	CO 800	1850 × 1950
				CO 900	2000 × 1950
1.75	13	1000	1600 × 1400	CO 900	2100 × 2000
				CO 1000	2200 × 2000

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT

Speed (m/s)	OH (mm)	PIT (mm)	Car Clear Height (mm)	Door height (mm)
1.0	3800	1450	2200 with false ceiling	2100
1.5	3950	1550		
1.75	4050	1600		

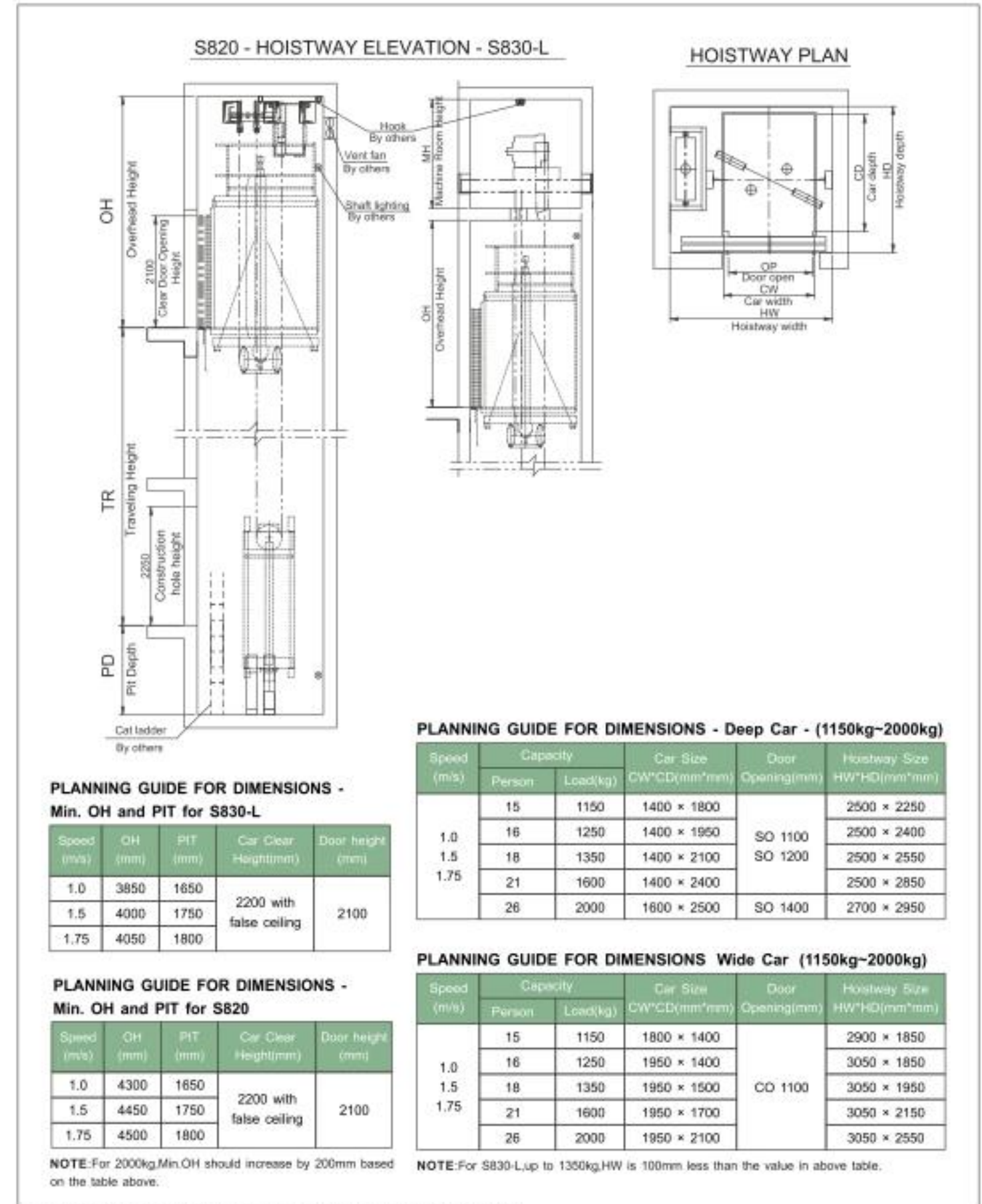
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LAYOUT-S820(up to 1000kg) MRL & S830-SD MMR (630-1000kg)

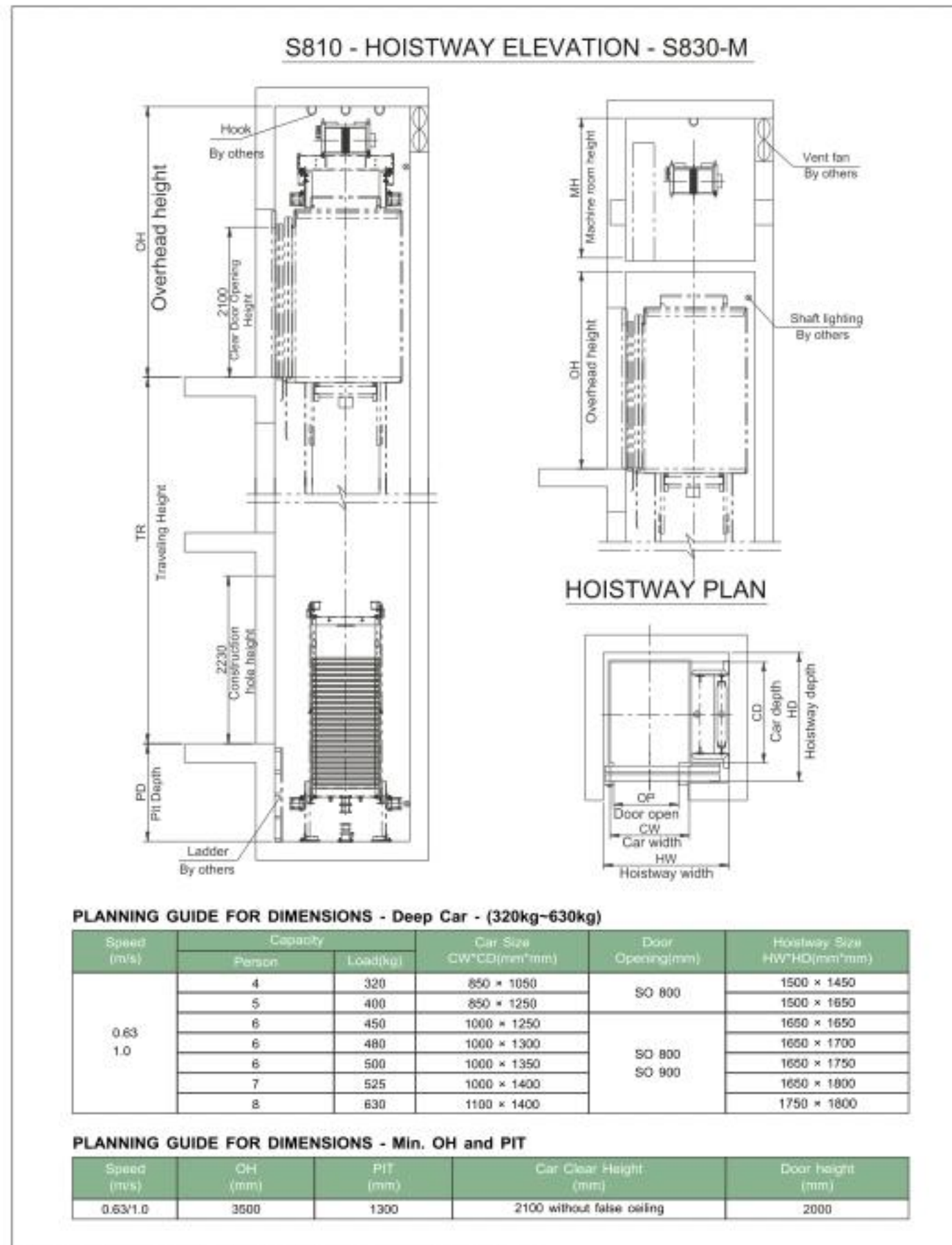


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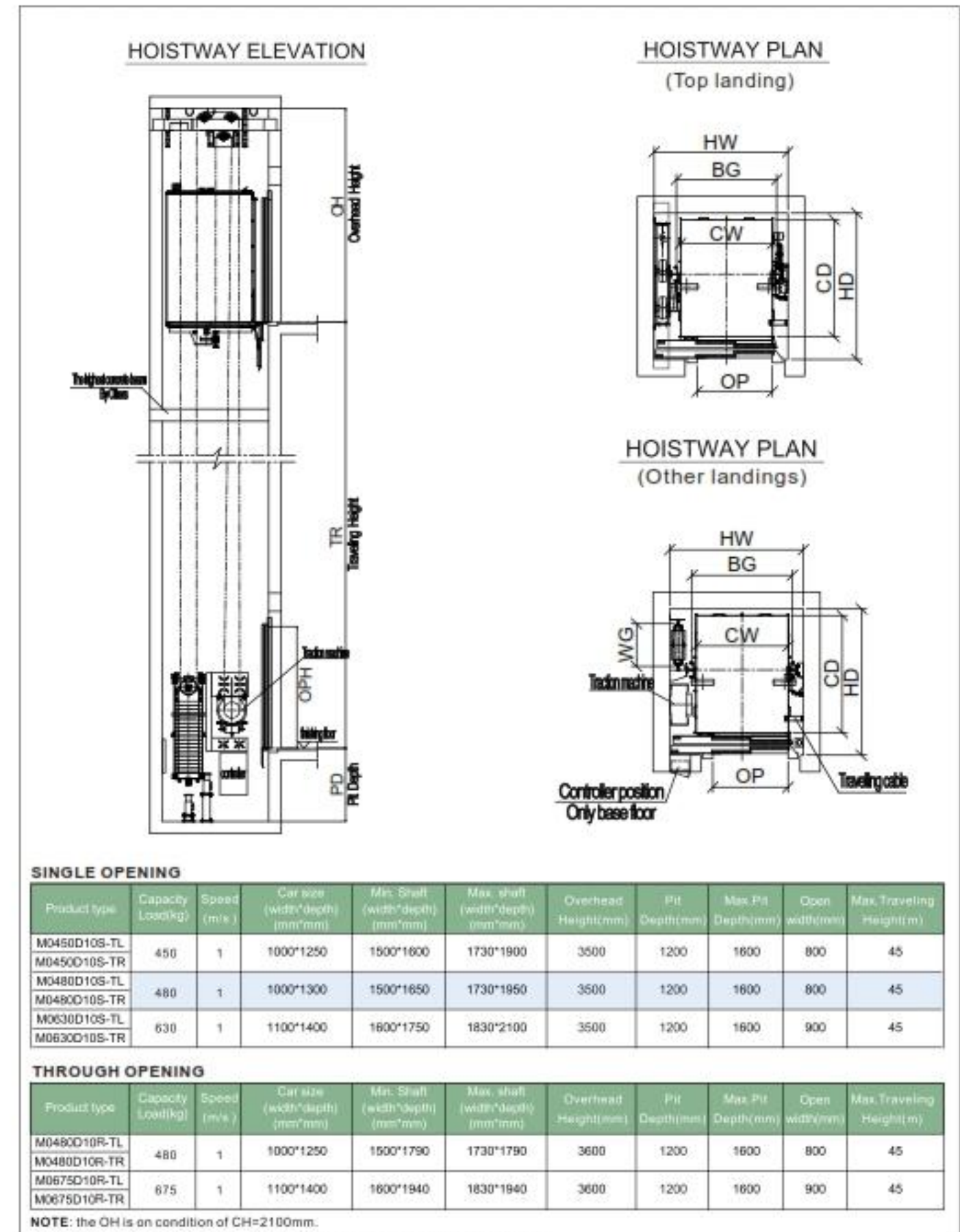
LAYOUT-S820(above 1000kg) MRL & S830-L MMR (1150-2000kg)



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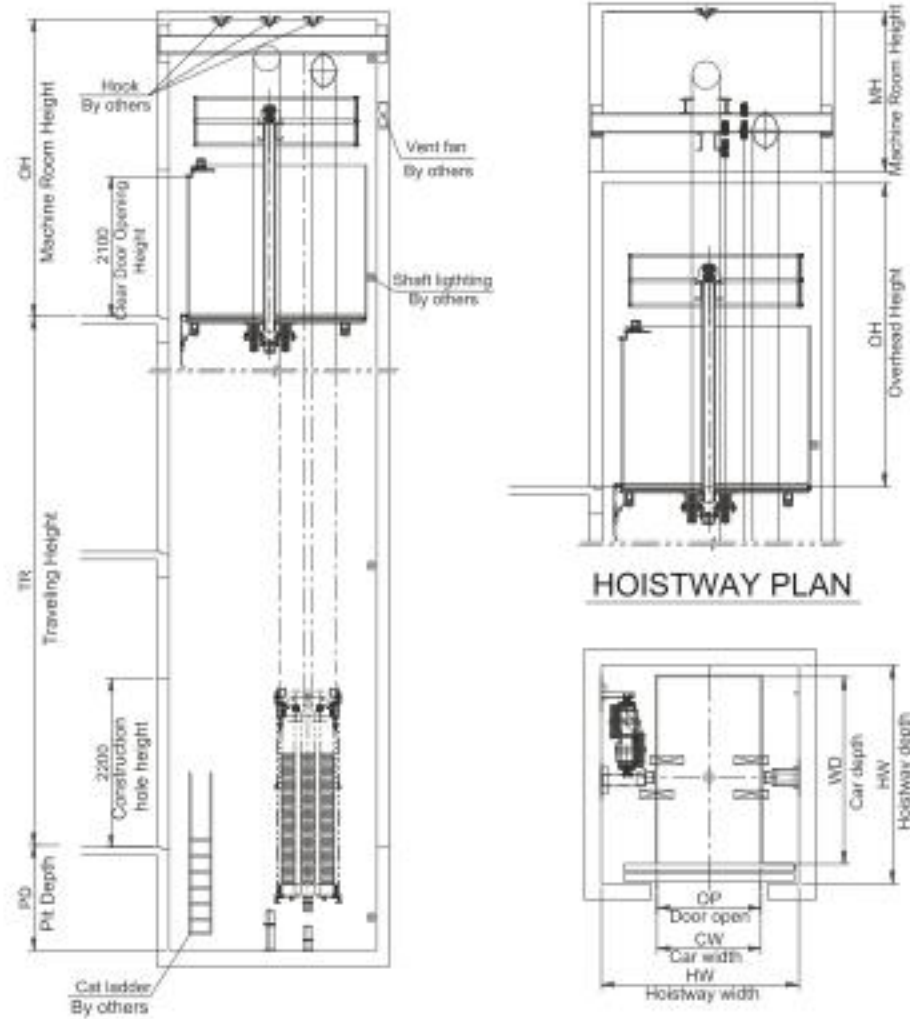


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S100MRL - HOISTWAY ELEVATION - S100MMR



PLANNING GUIDE FOR DIMENSIONS - (2000kg~4000kg)

Speed (m/s)	Capacity Load(kg)	Car Size CW*CD(mm*mm)	Door Opening (mm)	Hoistway Size HW*HD(mm*mm)
0.5	2000	1500 × 2700	CO1500, 4 panels	2850 × 3270
	3000	1700 × 3300	CO1700, 4 panels	3250 × 3870
	4000	2200 × 3300	CO2200, 4 panels	3850 × 3870

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT - S100 MRL

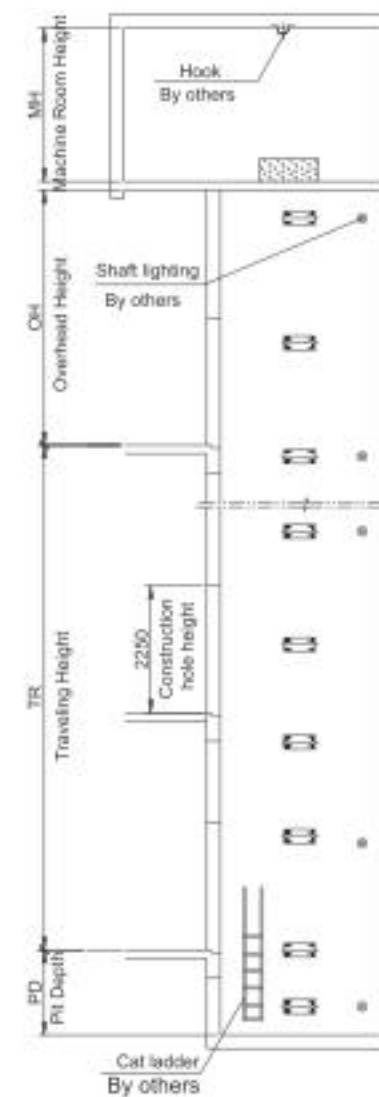
Capacity Load(kg)	OH (mm)	PIT (mm)	Car Clear Height (mm)	Door height (mm)
2000	4500	1700	2200 without false ceiling	2100
3000	4600	1700		
4000	4800	1700		

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT - S100 MMR

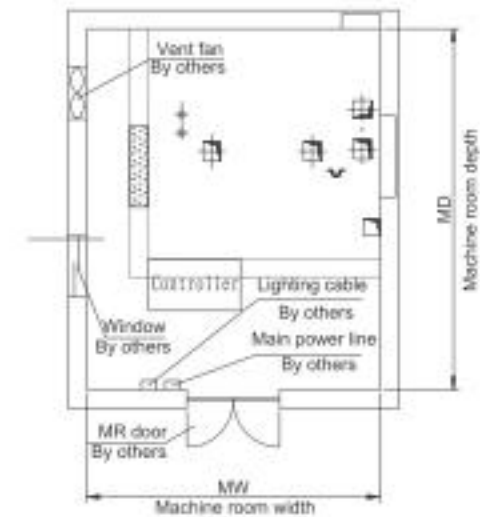
Capacity Load(kg)	OH (mm)	PIT (mm)	Car Clear Height (mm)	Door height (mm)
2000	4400	1700	2200 without false ceiling	2100
3000	4500	1700		
4000	4500	1700		

NOTES: 1. Hoistway size keeps same when through opening. 2. Forklift is not allowed to enter into the car.

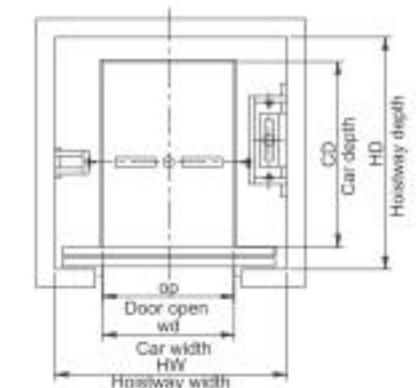
HOISTWAY ELEVATION



MACHINE ROOM PLAN



HOISTWAY PLAN



PLANNING GUIDE FOR DIMENSIONS - (2000kg~5000kg)

Speed (m/s)	Capacity Load (kg)	Car Size CW*CD (mm*mm)	Door Opening (mm)	Hoistway Size HW*HD (mm*mm)
0.5/1.0	2000	1700 × 2400	Co1700, 4 panels	3000 × 2970
0.5	3000	2000 × 2800	Co2000, 4 panels	3400 × 3370
	4000	2000 × 3600	Co2000, 4 panels	3400 × 4170
	5000	2400 × 3600	Co2400, 4 panels	4000 × 4170

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT

Capacity Load(kg)	OH (mm)	PIT (mm)	Car Clear Height (mm)	Door height (mm)
2000	4500	1400	2200 without false ceiling	2100
3000	4500	1500		
4000	4800	1600		
5000	5000	1600	2400 without false ceiling	2300

NOTES: 1. Hoistway size keeps same when through opening. 2. Only 5000kg design calculation take into account the load of forklift enter into the car for handling the goods.

Projects Highlight



LV HQ, China.



Audi Center Sydney, Australia.



Victory Park & Shop, Philippines.



Ruhua R&D Building, Xiamen, China.



Longerent Asia Pacific City, Shenyang, China



G Center, Israel.



Suzhou Railway Station, China.

Projects Highlight



Odincovo Shopping Center, Russia



Love Asdgh, Armenia.



MATZLAWI BUILDING, Israel



Lotus Business Center, India.



Pelican Hill Residence, Turkey.



ZON TEKNOLOGI MKN EMBASSY, Malaysia.



Diamond Plaza, Myanmar



Harris Hotel-Bali, Indonesia



Punkhusene Office building, Denmark.



DB City, Bhopal, India

Projects Highlight



CANADIABANK PLC, Cambodia.



Golden City, Cambodia.



VEILEIJ Shopping Center, Denmark.



Plovdiv Shopping Centre, Bulgaria



Cocor, Romania.



Mall Artha Gading, Indonesia



New Saigon, Vietnam.



AL-SULTAN BUILDINGS, Saudi Arabia.



Saturn Mall, Greece.

Projects Highlight



Sorya Mall, Cambodia.



Correas Maquetia airport, Venezuela



Art School, Singapore.



MEKONG CONDO, Cambodia



Jakarta CBD Cikadap, Indonesia.



Chennai train station, India



Chennai airport, India



House of Fraser Shopping Mall, England.



UMEA travel center, Sweden.



Krabi Airport, Thailand