

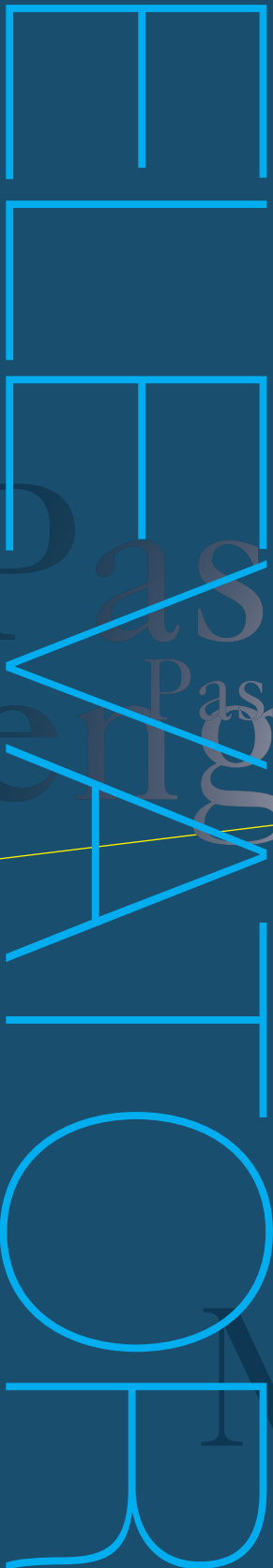
Changes for the Better



PASSENGER ELEVATOR MODERNIZATION
(Renovation to Series GPS-III)

Quality
in Motion

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Series
GPS-IIIIMZ

Passenger Elevator Modernization

Basic Specifications

Modernization types available

Type and definition		Contents	Re-used components
CM1	Partial Modernization	Full improvement to control and operation systems, and related functions, without affecting building walls or structure.	Traction machine and others. (The following are replaced: traction motor/control panel(s)/ traveling cables/door motor/car-top station/weighing device/landing devices/hoistway switches/car operating panel(s) with position indicator/car front return panel(s), etc.)
SM1	Semi-Complete Modernization	Semi-complete renovation with image upgrading and re-use of some components, without affecting building walls or structure.	Landing sills/door frames/guide rails/counterweight/buffer footings
SM2	Semi-Complete Modernization	Alternative to SM1.	Landing sills/door frames/guide rails/counterweight/buffer footings/machine beams
FM1	Complete Modernization	Total renovation with image upgrading, enabling a new life cycle.	None.

Capacity and speed range

For type CM1

	400kg*1	450kg*1	500kg*1	550kg*1	600kg	650kg*1	680kg	700kg*1	750kg	780kg*3	820kg*3	900kg	1,100kg	1,150kg*2	1,350kg*2	1,650kg*2
30mpm	●	—	●	●	●*1	●	●*1	—	●*1	—	●*2	●*2	●*2	●	●	●
45mpm	●	●	●	●	●	●	●*1	●	●	—	●*2	●*2	●*2	●	●	●
60mpm	●	●	●	●	●	—	●	●	●	●*1	●	●	●	●	●	●
75mpm	●	●	●	●	●	—	●*1	—	●*2	—	—	●*2	—	●	●	●
90mpm	●	—	●	●	●	—	●*1	●	●	—	●	●	●	●	●	●
96mpm*4	—	—	—	●	●*1	—	●*1	—	●	—	—	●	●	●	●	●
105mpm	—	—	—	●	●	—	●*1	●	●	—	●	●	●	●	●	●
120mpm*5	—	—	—	—	—	—	—	—	●*2	—	●*2	●*2	●*2	●	●	—

Note: The current capacity and speed remain unchanged as shown in the table.

Key : ●: Applicable ranges —: Not applicable

*1: Applicable when the existing elevator is Standardized type only.

*2: Applicable when the existing elevator is Customized type only.

*3: For Taiwan only

*4: For Hong Kong only

*5: Applicable when the existing elevator is DC-Geared type only.

For type SM1, SM2 & FM1

	410~450kg	525~700kg	750kg	820kg*1	885~1,050kg	1,150~1,360kg	1,600~2,450kg
45mpm	●	●	●	● #	● #	● #	● #
60mpm	●	●	●	●	●	●	● #
90mpm	● #	●	●	●	●	●	● #
105mpm	● #	●	●	●	●	●	● #
120mpm*2	● #	● #	●	●	●	●	—
150mpm*2	● #	● #	●	●	●	●	—

Note: The current capacity and speed are changed to the figures in the table according to the existing building conditions.

Key : ●: Applicable ranges —: Not applicable

#: When ordering or inquiring about these capacities, please consult our local subcontractor.

*1: For Taiwan only

*2: Not applicable when the existing elevator is DC-Gearless type.

Considerations for Modernization

Main points of the modernization process

Step	Items to discuss/confirm	Data flow			Remarks
		Customer	Local	Melco	
1	General plan for building renovation	○	→◇	→◇	*For equipment **For installation
2	Type of modernization, budget range	○	→◇	→◇	
3	Components to replace or re-use	○	→◇	→◇	
4	Details of existing specifications	◇←	○	→◇	
5	Measurement of existing dimensions	◇←	○	→◇	
6	Full details of new specifications	○	→◇	→◇	
7	Quotations for equipment and installation	◇←	○**	○*	
8	Details of components replaced or re-used	◇←	◇←	○	
9	Terms for production and shipment	◇←	◇←	○	
10	Terms for installation	◇←	○	→◇	
11	Purchasing order with specs., drawings	○	→◇	→◇	
12	Required hand-over date	○	→◇	→◇	
13	Production schedule	◇←	◇←	○	
14	Installation schedule	◇←	○	→◇	
15	Product shipment	◇←	◇←	○	
16	Preparation of hoisting equipment	○	→◇		
17	Installation work	◇←	○		
18	Inspection and testing for approval	◇←	○		
19	Finishing structural work	○	→◇		
20	Completion of elevator modernization	◇←	○		

Notes: 1. Local: Our local subcontractor; Melco: Mitsubishi Electric

2. This table shows the typical items and flow required for modernization. The actual process depends on the type of modernization and the condition of the building.

3. Please consult our local subcontractor for more details as to method, minimum installation period, etc.

Countermeasures for the Building Structure

•Building contracting

Elevator halls and hoistways

1. Finishing of walls and floors of elevator halls after installation of elevator hall fittings.
2. Hoistway repair work.
3. Installing intermediate beams (where existing ones cannot be used).
4. Drilling holes for jambs and transom panels, hall indicators, hall buttons, etc., in the entrance halls on each floor (where existing ones cannot be used).
5. Installing steel backing plates for the jambs and transom panels, hall buttons, hall indicators, etc., in the entrance halls on each floor where steel-frame construction is used (where existing ones cannot be used).
6. Installing fasteners for the mounting of rail brackets on floors where steel-frame construction is used (where the existing ones cannot be used).

Machine rooms

1. Removing of machine-room floor (breaking up cinder concrete).
2. Laying conduits in the machine-room floor before laying and finishing cinder concrete.
3. Drilling holes in machine-room floor.
4. Providing a temporary aperture to introduce machinery and restoration work.
5. Transporting machinery from outside the building.

Temporary installation work

1. Providing temporary hall enclosures.
2. Disposing of removed parts, cleaning up and disposing of broken glass and scrap.
3. Providing a place for storage of removed or to-be-installed elevator parts.
4. Supplying electric power for the work and illumination.

Note: Actual items will depend on the type of modernization and the condition of the building. (Please consult our local subcontractor for details.)

•Installation period cautions

1. Security guards should be deployed throughout the installation period.
2. It should be remembered that a certain amount of vibration and noise is inevitable during the installation period.
3. It should be noted that flammable materials will be used during the installation period.

Examples of Car and Entrance Designs

(For Complete and Semi-Complete Modernization)

SS-21S Car Ceiling (optional)



Arch-type indirect full-lighting through milky-white resin with painted trim lines in black.



E-312 Splayed Door Frame with Transom Panel (optional)



•For details of designs and specifications, please refer to the Series GPS-III catalog.

Notes: 1. Elevator color shown differs slightly from actual tone.

2. The suitability of car ceiling design models depends on factors such as door type, car size, etc.