

Models 1600, 1200

# MOVING WALKS



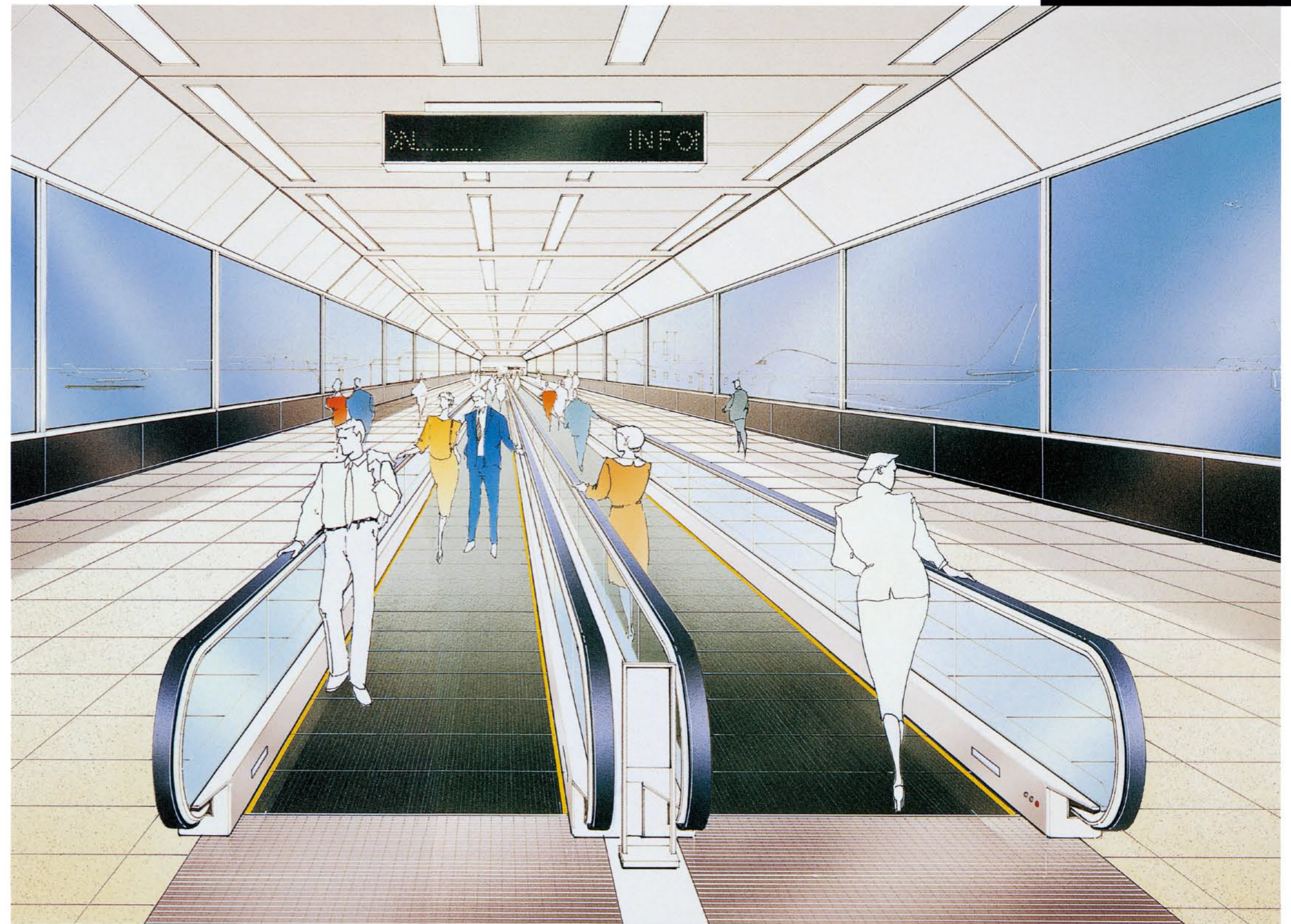
# *Smooth-Moving Walks for Modern Pedestrian-Traffic Requirements*



Mitsubishi moving walks are designed to carry people safely, swiftly, and comfortably. The heart of these walks is a highly acclaimed drive system that realizes the maximum in safety and comfort. Moving walks are being increasingly used not only at train stations and airports but also at tourist attractions and in major shopping malls. In addition, they offer a contemporary solution to growing pedestrian traffic requirements resulting from the greater diversity of architectural designs and the expanded scale of urban development. Moving walks can even help to stimulate new architectural ideas. With a complete line-up that includes Models 900, 1200, and the extra-wide 1600, Mitsubishi Electric has the best answer to your pedestrian-traffic requirements.

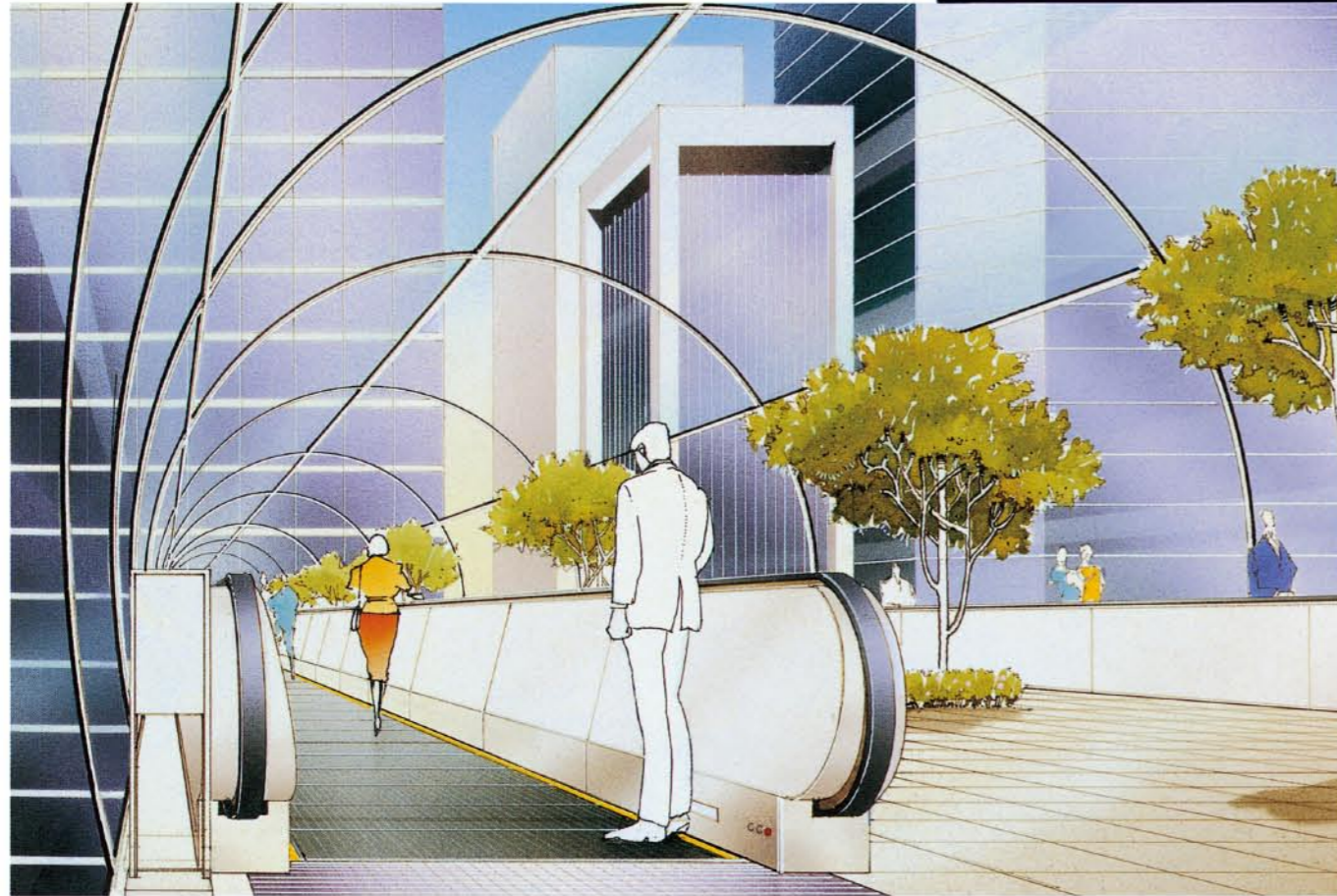
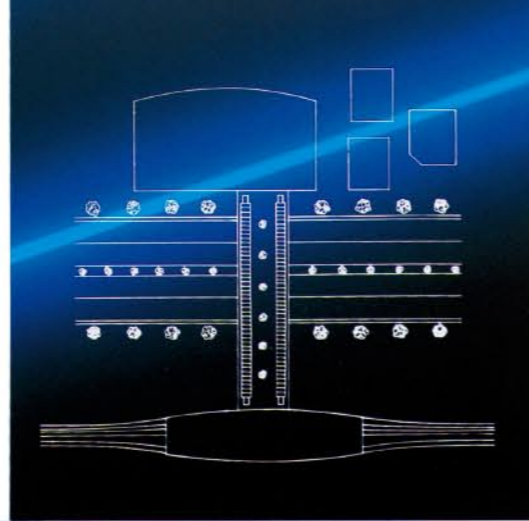
# Extra Width Boosts Transport Capacity

Mitsubishi moving walk, the Model 1600 is wide enough for two people to ride side-by-side without feeling crowded. This roomy design is well suited to contemporary transportation needs—from airport passengers carrying large amounts of luggage to the heavy passenger flow at major train stations. The Model 1600 markedly enhances the efficiency of short-distance pedestrian-traffic systems.



NEW URBAN DEVELOPMENT  
MODEL 1600 HORIZONTAL

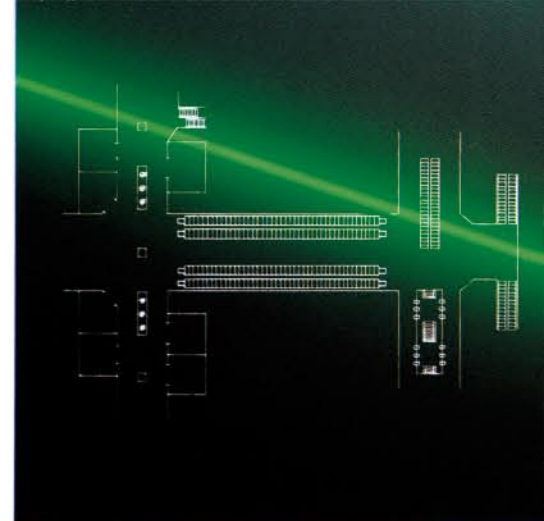
*Greater Freedom of  
Movement in Urban Centers*



Mitsubishi moving walks are designed to link major train stations with urban centers and provide pedestrians with greater freedom of movement while enhancing their comfort. The Model 1600, with its extra-wide walk, is ideally suited to fulfill this role. In fact, the Model 1600 can be used to serve a broad range of social needs. Because it is wide enough to accommodate a wheelchair with plenty of space for a person to stand alongside, it can provide valuable assistance for the increasing number of handicapped people playing more active roles in society.

UNDERGROUND SHOPPING AREAS  
MODEL 1200 HORIZONTAL

*An Important Means of  
Transport in  
Underground Facilities*

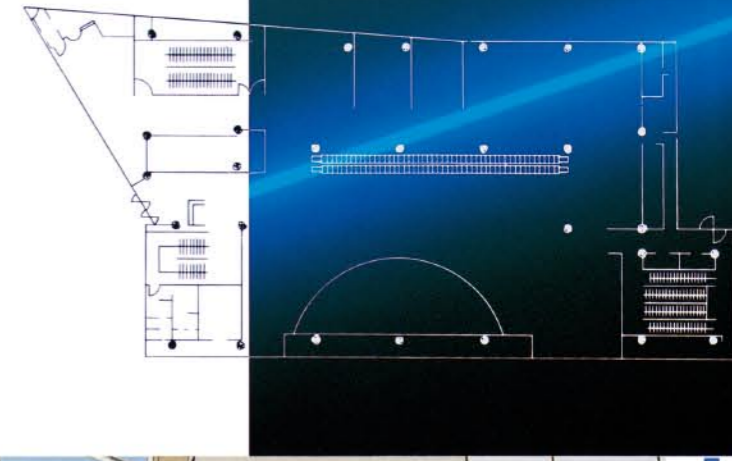
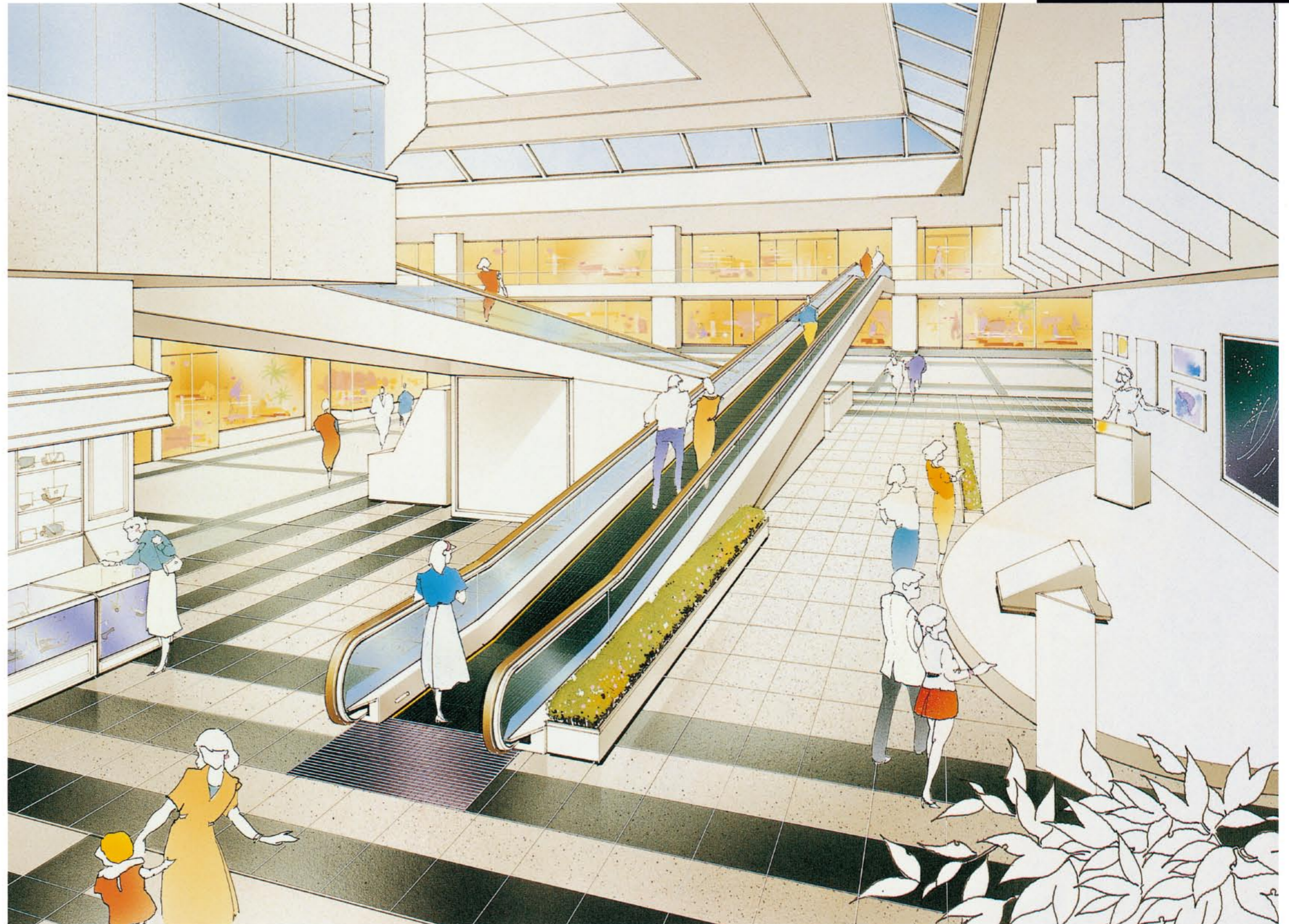


Mitsubishi moving walk, the Model 1200 offers ample capacity to handle the heavy flow of pedestrian traffic in the underground passageways that link subways to underground shopping malls and connect major stores. What's more, this smooth riding moving walk provides a respite from the hustle and bustle of the city and a relaxing pause for harried shoppers.



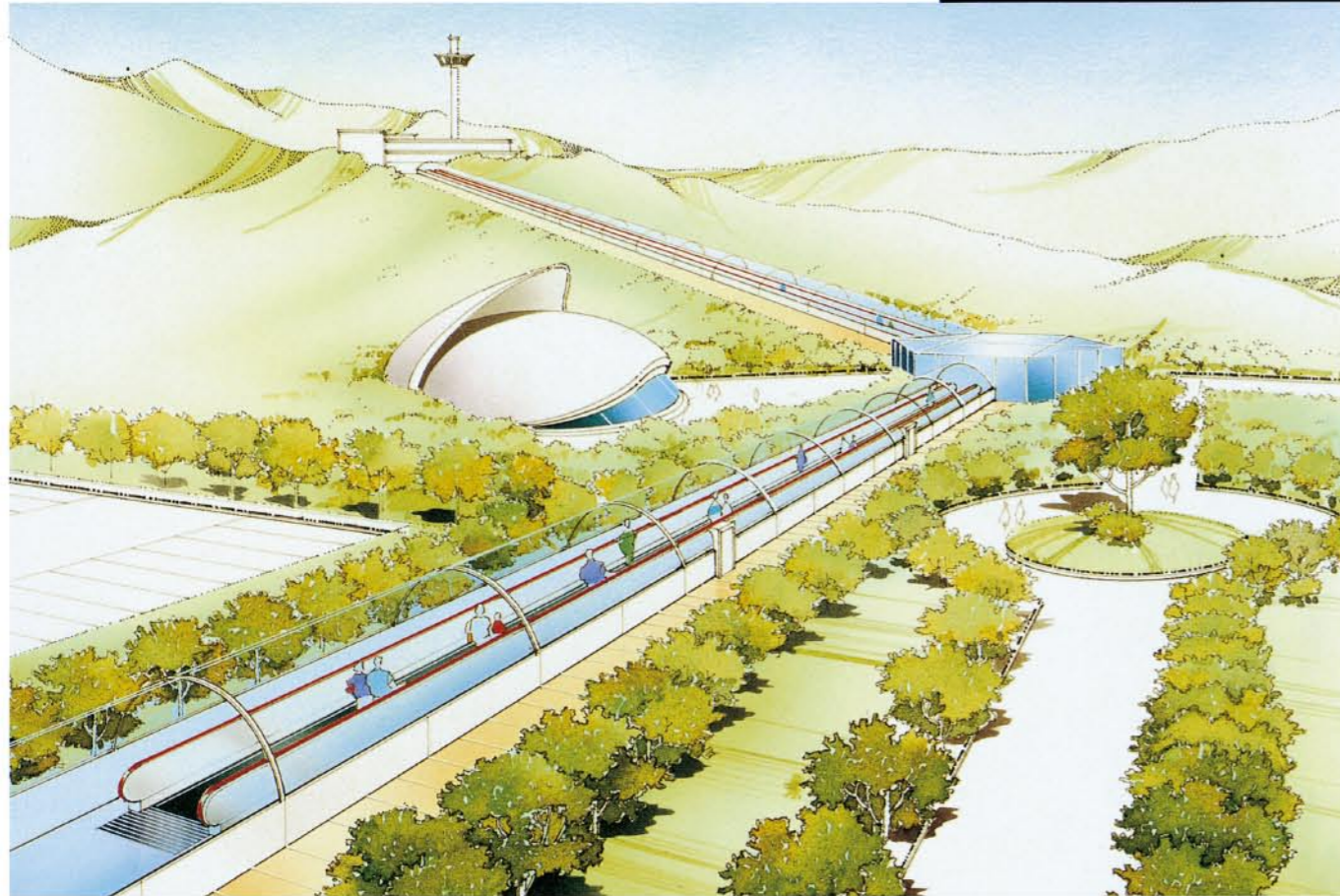
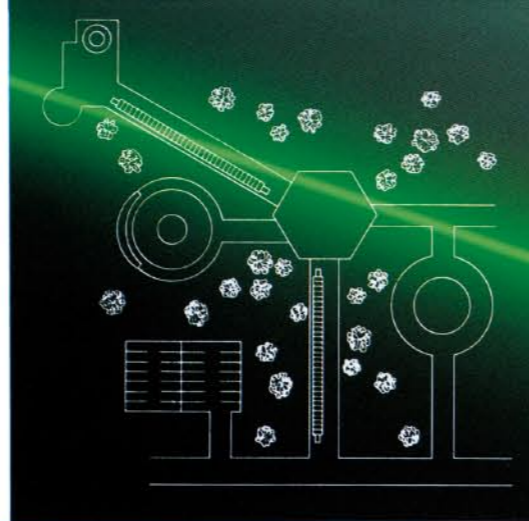
## *Convenient Transport Between Floors with Panoramic Views of the Entire Mall*

Mitsubishi moving walk, the Model 1200 Inclined makes shopping a pleasure, and it permits shoppers to move easily between floors with shopping carts or a large number of bags while offering panoramic views of the entire mall at the same time. The Model 1200 Inclined can also be placed near event areas for the entertainment and amusement of shoppers.



ELEVATED SITES  
MODEL 1200 INCLINED

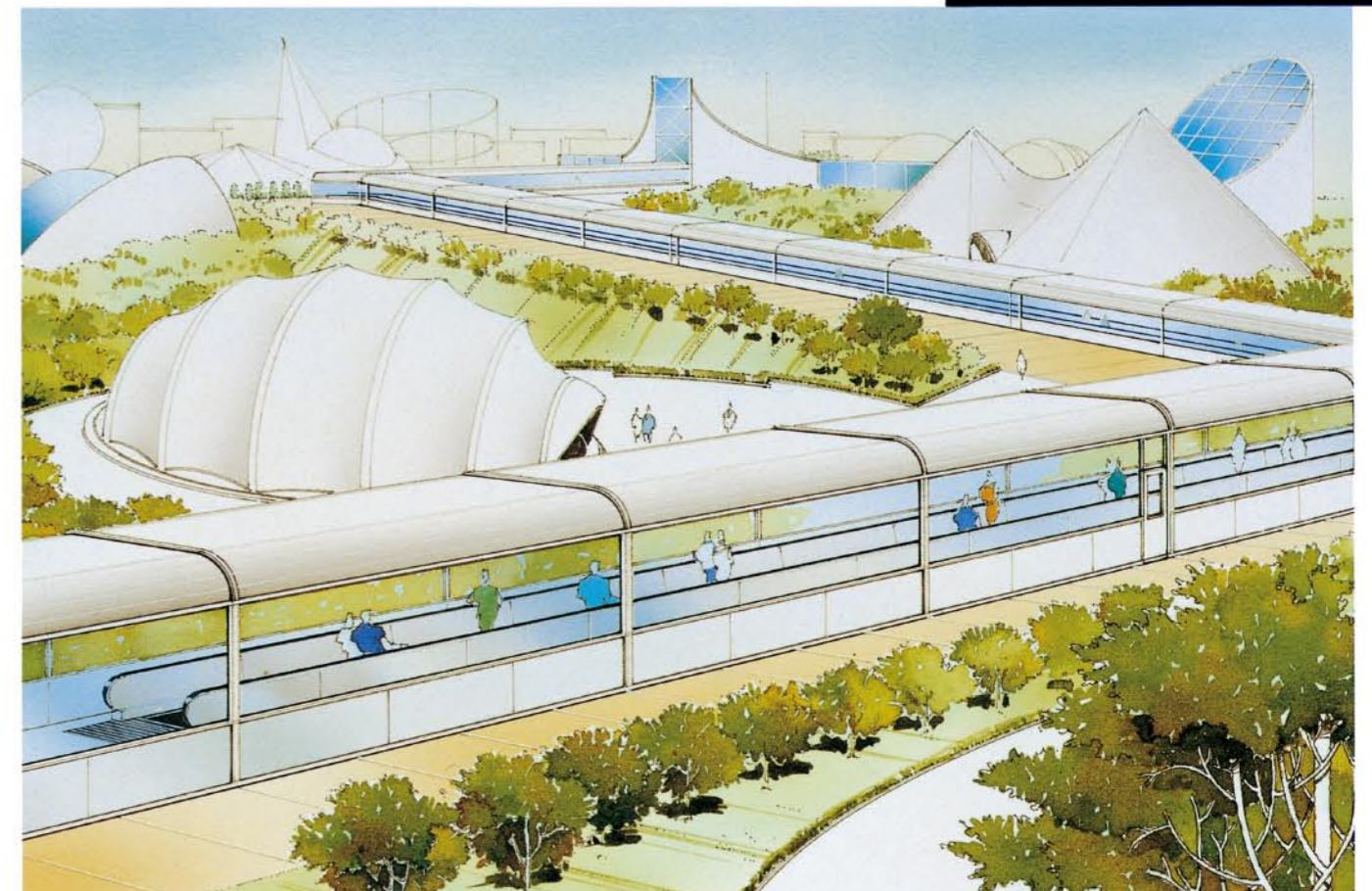
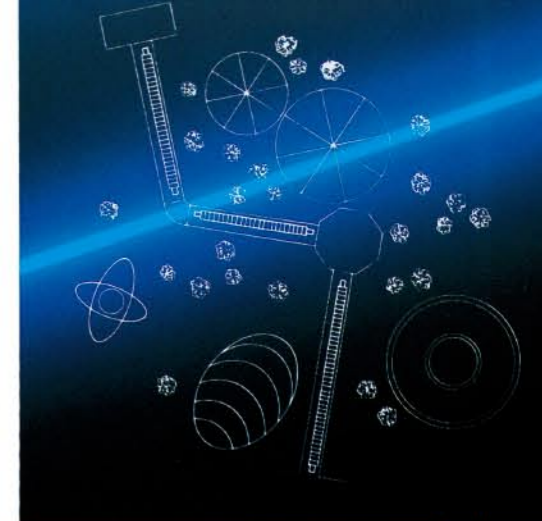
*Smooth Riding and Dependable for Easy Customer Access*



By permitting access by great numbers of people, the Model 1200 Inclined can help to boost attendance at public facilities, tourist attractions, and other places of interest located at elevated sites. The Model 1200 Inclined offers an expansive view of surrounding scenery and provides easy access for elderly persons. In this way, it also enhances the facility's attractions.

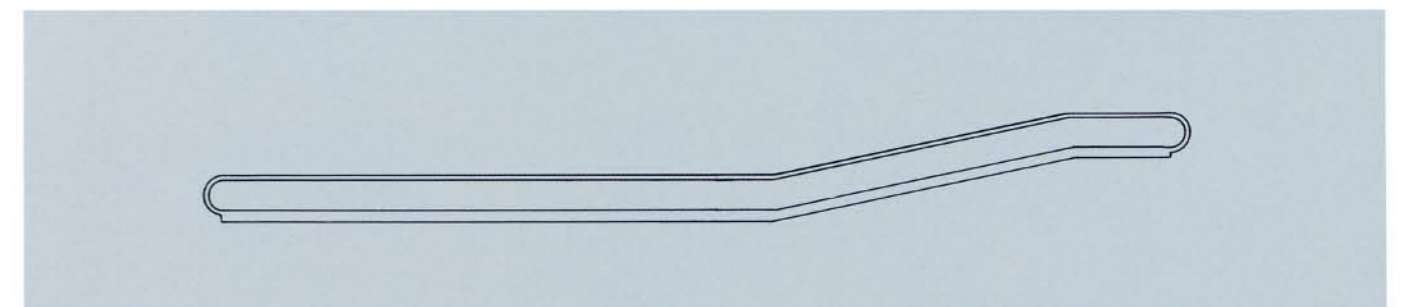
EXPOSITIONS, THEME PARKS  
MODEL 1200 MULTIPLE SYSTEM

*Smooth Pedestrian Flow over Level and Sloping Sites*



Horizontal and inclined types of Mitsubishi moving walks can be used in conjunction to accommodate pedestrian traffic through places with varying elevations.

The multiple system is perfectly suited to easing the heavy pedestrian flow at events such as exhibitions and expositions on gradually sloping hills.



## Features

1

Diecast aluminum alloy is used in the pallets, for comfortable riding and an extended life-span.

2

The treads are designed with the same fine pitch and deep cleats as the steps of our world-renowned escalators, ensuring a precise fit with the landing-comb plates. This makes boarding and alighting easy and safe.

3

Adjacent pallets mesh smoothly to prevent objects from becoming caught and to provide a safe ride even on the pallet joints.

4

The pallets can be made to run in conformity with guiderail configurations, thus allowing overpass and underpass sections that combine the horizontal and inclined types (see page 9).

5

The travel direction can be reversed easily at the operation panel.

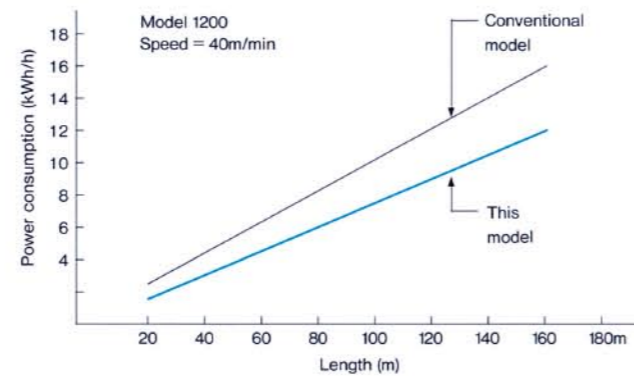
6

Shopping carts, baby strollers, and wheelchairs can be used on Mitsubishi moving walks. (Extra care should always be taken when using these vehicles on the moving walk.)

7

A drive system with minimal mechanical loss allows power savings of 25% (over our previous models).

### ● Comparison of Power Consumption by Horizontal Type

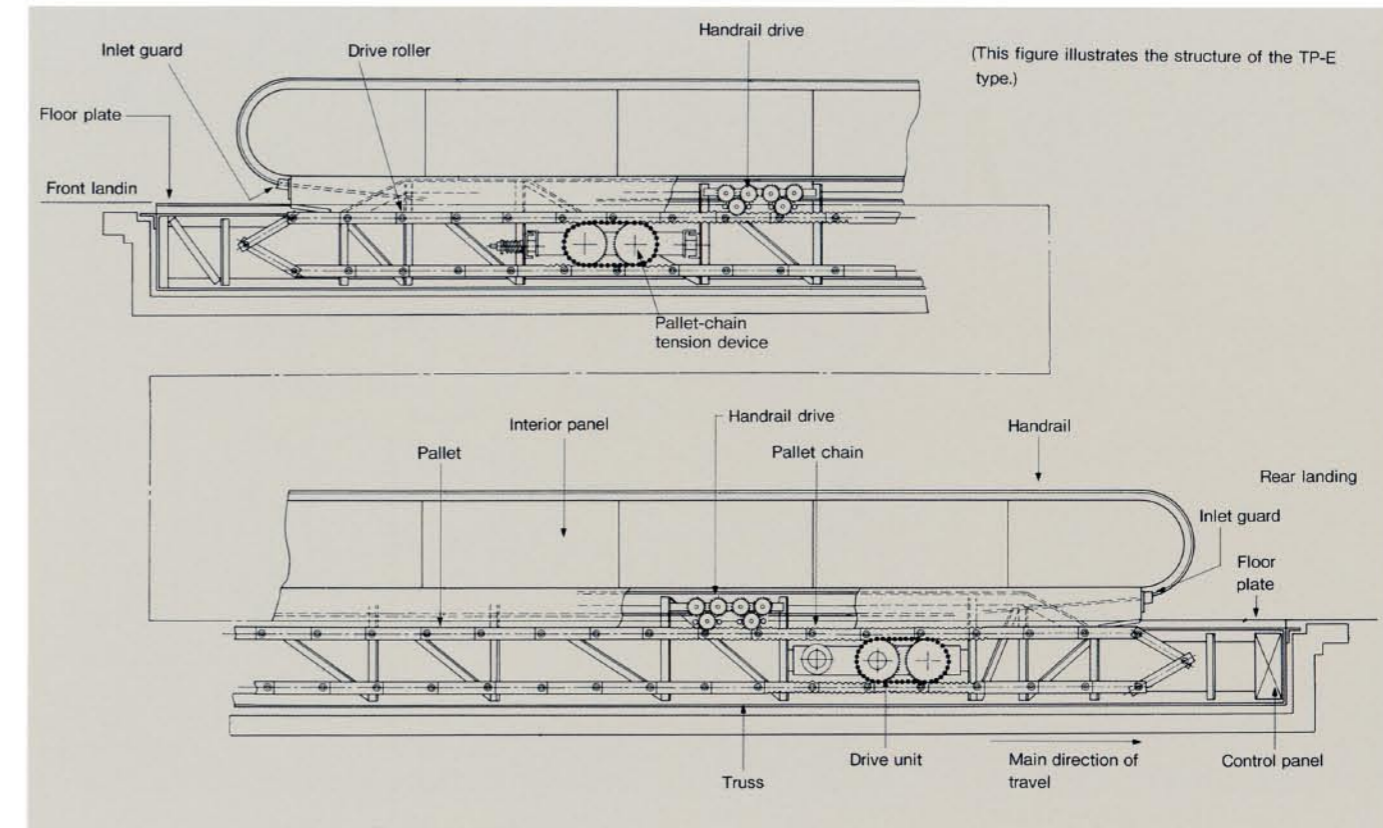
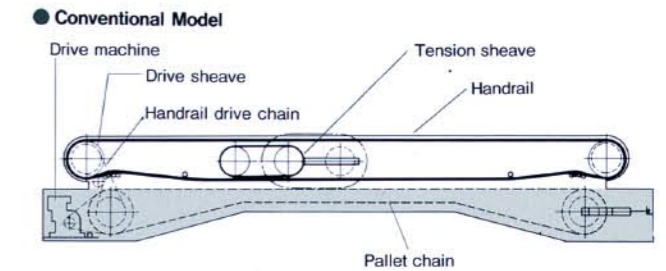


8

A space-saving design eliminates waste of valuable space. Reductions in truss width and length result in 8% savings in floor space in Mitsubishi moving walk 100m long (as compared with our previous models).

## Space-Saving Design Allows Significant Reductions in Installation Space

The innovative drive mechanism of Mitsubishi moving walks makes possible considerable reductions in the truss width and size. This means savings in floor space of approximately 13m<sup>2</sup> on moving walk 100m long. The longer moving walk, the greater savings in floor space when compared with previous models. Moreover, uniformity in the truss depth throughout the system simplifies architectural planning.



## Enhanced Safety Features

### ● Demarcation Cleats

As with escalator treads, the use of yellow plastic demarcation cleats at both sides of the pallets reminds passengers to maintain a safe distance from the sides.

### ● Narrower Pallet-Cleat Pitch

The pitch of the pallet cleats has been reduced by about 15% and their meshing with the comb has been improved to make it even harder for objects to get caught in the grooves.

### ● Lower Comb-Plate Angle

Lowering the angle of the comb plate has enhanced safety and minimized the discomfort associated with boarding and alighting from Mitsubishi moving walk. This improvement also makes it easy to use the moving walk for shopping carts and wheelchairs.

### ● Inlet Guards

These flexible rubber guards prevent fingers from being drawn inside by the movement of the handrail. An emergency switch is also provided to stop the moving walk immediately in the rare event that something does get past the guards.

## Options

A full array of options are available to maximize Mitsubishi moving walk operating efficiency.

### ● Automatic Operation

Moving walk operates and stops automatically by means of a sensor that detects passengers.

### ● Two-Speed Operation

Two operating speeds enable moving walk to be set for the varying capacity of the peak and off peak hours.

### ● Earthquake Protection

Moving walk stops immediately when an earthquake is detected by a built-in sensor.

### ● Comb Light at Both Landings

A steady or flashing light is installed at both landings of moving walk to alert passengers.

### ● Automatic Announcement Device

A voice synthesizer is used to announce important

information and remind passengers to ride safely.

### ● Linked Stops

When two or three units are being used in conjunction, the separate units can be stopped together to ensure the safety of passengers.

### ● ITV Monitor

This system allows the operation of moving walk to be monitored remotely.

### ● Operating Panel for Safety Devices

By displaying the conditions of all the safety devices, this panel enables swift diagnosis of problems.

### ● Horizontal Pallet Grooves

Horizontal grooves in the pallets help prevent passengers from slipping.

# Specifications

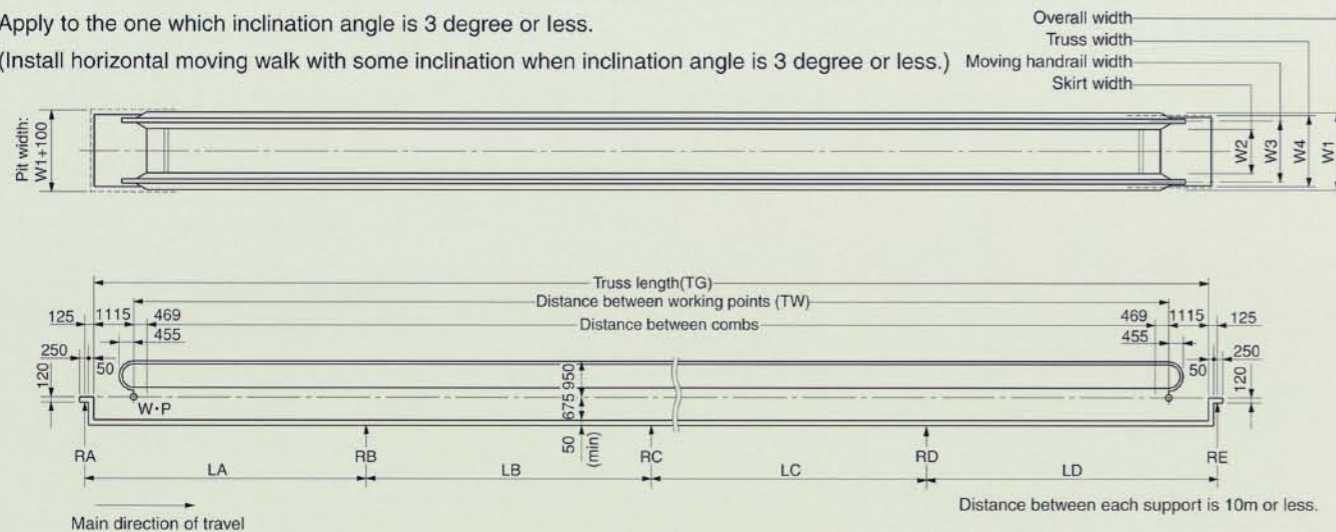
(Since ASME A17.1 and EN115 standard dimensions are different, please consult our sales agency.)

## Standard Layout of Horizontal TP-E Type

(Please consult our sales agency for information concerning the TS-E and TS-LE types.)

Apply to the one which inclination angle is 3 degree or less.

(Install horizontal moving walk with some inclination when inclination angle is 3 degree or less.)



Note: The length of moving walk and the options used may necessitate changes in the measurements below.

### Motor Output

Model	Inclination angle $\theta$ (°)	Speed (m/min)	Distance between working points TW(m)						
			0	15	50	100	150		200
1200	0	30	15			95			
		40	15	5.5kW×1	70	5.5kW×2	140	5.5kW×3	
		45	15		60		120	180 5.5kW×4	
	3	30	15		45		95		
		40	15		32		70 5.5kW×3		
		45	15		29		62	95 5.5kW×4	
1600	0	30	15			75		150	
		40	15	5.5kW×1	55	5.5kW×2	110	5.5kW×3	165
		45	15		50		100		150 5.5kW×4
	3	30	15		35		75		
		40	15		25		55 5.5kW×3	85	
		45	15		22		50	75 5.5kW×4	

### Static Load Factors

Model	$\alpha$ (N/mm)
1200	3.64
1600	4.63

### Static Loads

RA(N)	$\alpha \times LA$
RB(N)	$\alpha \times (LA+LB)$
RC(N)	$\alpha \times (LB+LC)$
RD(N)	$\alpha \times (LC+LD)$
RE(N)	$\alpha \times LD$

(LA, LB, LC, LD :mm)

## Standard Specifications

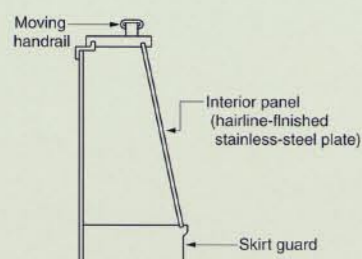
Model	1600			1200		
	Speed (m/min)	30	40	45	30	40
Carrying capacity (persons/hr)	9000	12000	13500	9000	12000	13500
Inclination angle (°)	0~3			0~12		
Power supply	Main	200/400VAC 3-phase, 50 or 60Hz				
	Signals	100VAC single-phase, 50 or 60Hz				
Operation system	Manual key-switch operation					

## Outline Dimensions (mm)

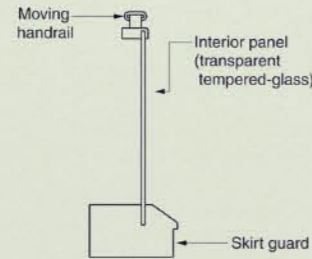
Model	1600	1200	
W1	1946	1550	
W2	1406	1010	
W3	TP-E	1656	1260
	TS-E	1676	1280
	TS-LE	1676	1280
W4	1896	1500	

## Balustrade Configurations

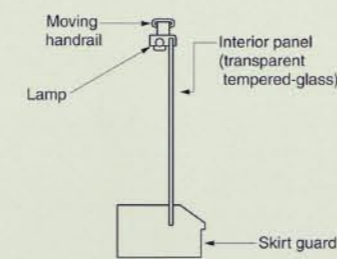
### Type TP-E



### Type TS-E



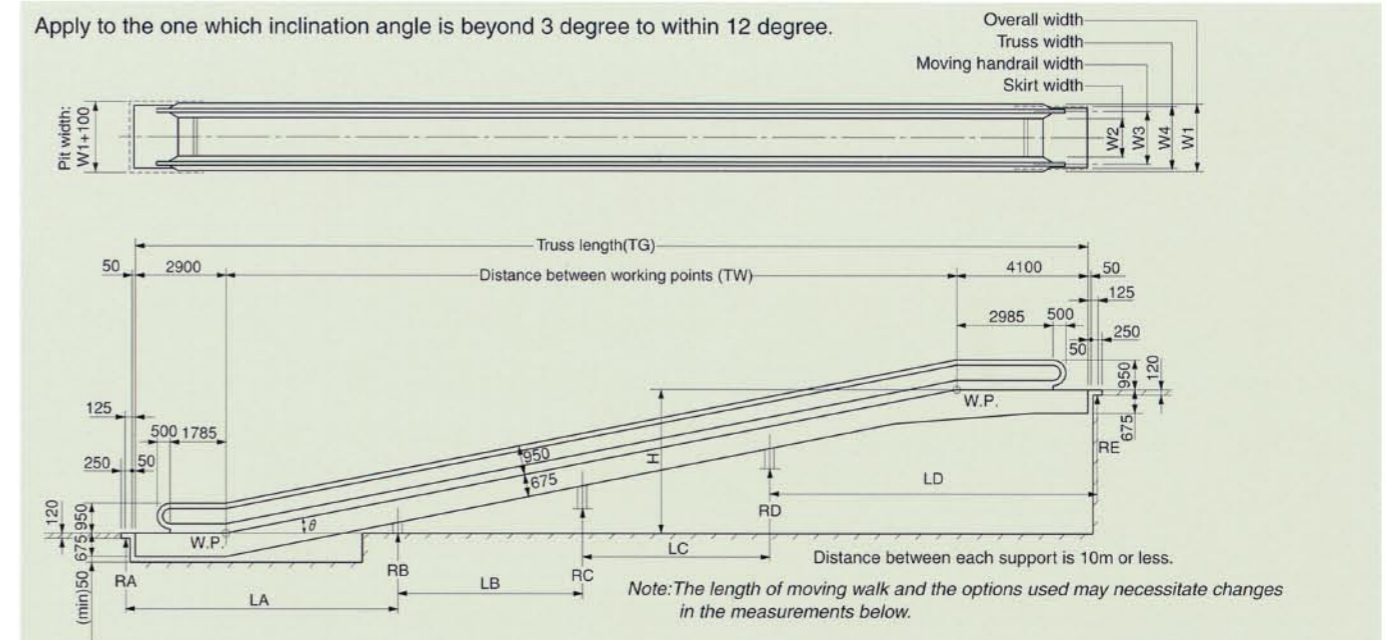
### Type TS-LE



## Standard Layout of Inclined TS-E and TS-LE Types

(Please consult our sales agency for information concerning the TP-E type.)

Apply to the one which inclination angle is beyond 3 degree to within 12 degree.



Note: The length of moving walk and the options used may necessitate changes in the measurements below.

### Motor Output

Model	Inclination angle $\theta$ (°)	Speed (m/min)	Rise H(m)								
			0	1.5	2	3	4	5	6	7	8
1200	6	30	1.5	5.5kW×1	3.0		5.5kW×2		6.5	5.5kW×3	
		40	1.5	2.1		4.6		7.0	5.5kW×4		
	9	30		2.3	5.5kW×1	3.3	5.5kW×2		7.0	5.5kW×3	
		40		2.3	2.4		5.2				
	12	30		5.5kW×1	3.0	3.5	5.5kW×2		7.5		
		40			3.0	5.5kW×2	5.5	5.5kW×3			

### Static Loads

RA(N)	$3.70 \times LA$
RB(N)	$3.70 \times (LA+LB)$
RC(N)	$3.70 \times (LB+LC)$
RD(N)	$3.70 \times (LC+LD)$
RE(N)	$3.70 \times LD$

(LA, LB, LC, LD :mm)

## Finishes

	Interior panel	TP-E	Hairline-finished stainless-steel plate
		TS-E	Vertical, flat, rectangular tempered-glass panels without illumination
Balustrade	TS-LE	Vertical, flat, rectangular tempered-glass panels with illumination	
	Deckboard	Hairline-finished stainless-steel plate	
	Skirt guard	Hairline-finished stainless-steel plate	
	Moving handrail	Synthetic rubber	
Treads	Tread boards	Diecast aluminum alloy with black painted grooves	
Floor plate	Comb	Molded aluminum alloy	
	Landing plate etc.	Stainless-steel plate with antislip pattern and black painted grooves	

## Ordering Information

- Name and address of building or project.
- Type of moving walk desired.
- Length of moving walk and angle of inclination.
- Number of units.
- Voltage and frequency of power source.
- Optional items desired.

## Work Not Included in the Installation Contract

- External finish work on moving walk.
- Intermediate support beam.
- Pit construction, waterproofing, drainage work, and other architectural work.
- Wiring and conduits for the main power and lighting lines to the control panel installed on a truss.
- Wiring and conduits for grounding.