MITSUBISHI ELECTRIC

MOVING WALKS

Changes for the Better

Quality in Motion

Models 1600, 1200

MOVING WALKS

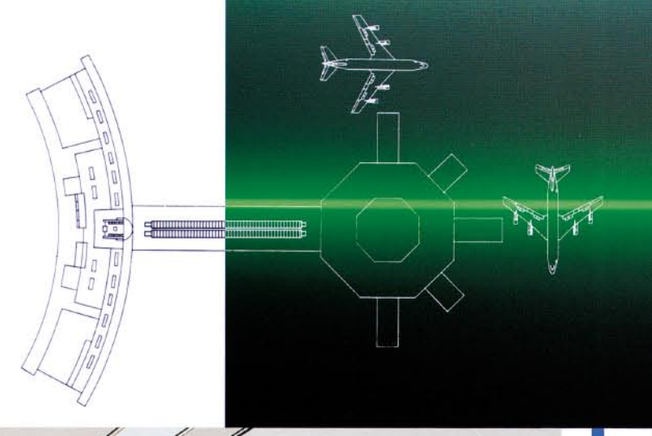
for a greener tomorrow eco Changes

Smooth-Moving Walks for Modern Pedestrian-Traffic Requirements

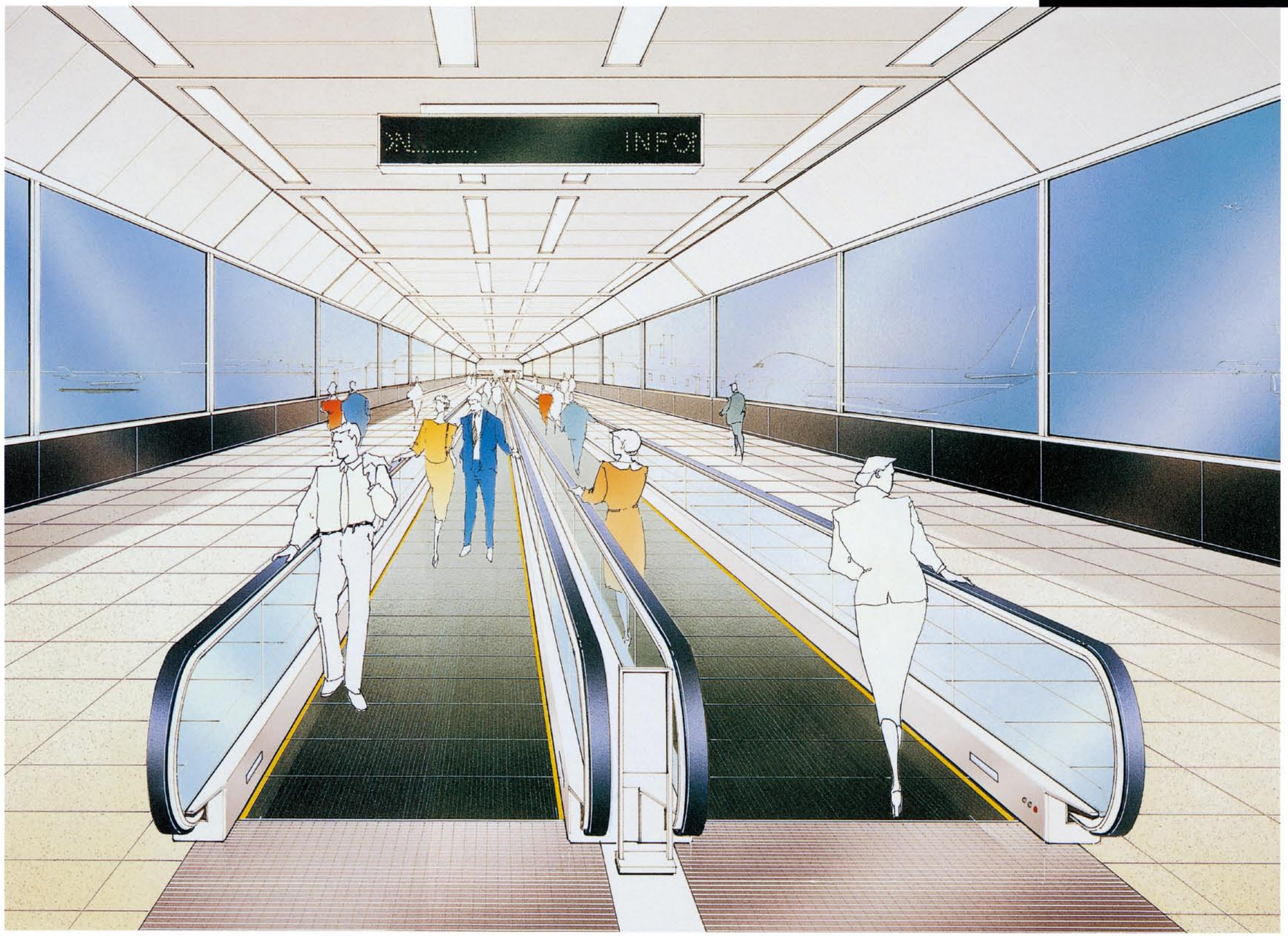
Mitsubishi moving walks are designed to carry people safely, swiftly, and comfortably. The heart of these walks is a highly acclaimed drive system that realizes the maximum in safety and comfort. Moving walks are being increasingly used not only at train stations and airports but also at tourist attractions 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.

IN AIRPORT TERMINALS AND TRAIN STATIONS
MODEL 1600 HORIZONTAL

Extra Width Boosts Transport Capacity

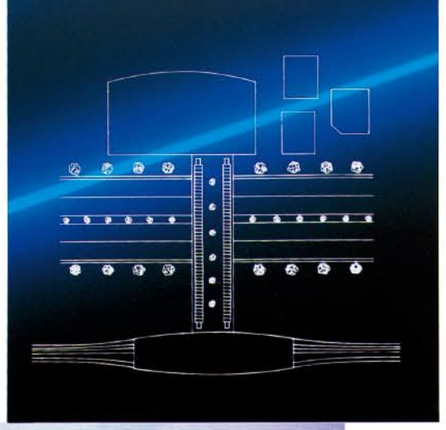


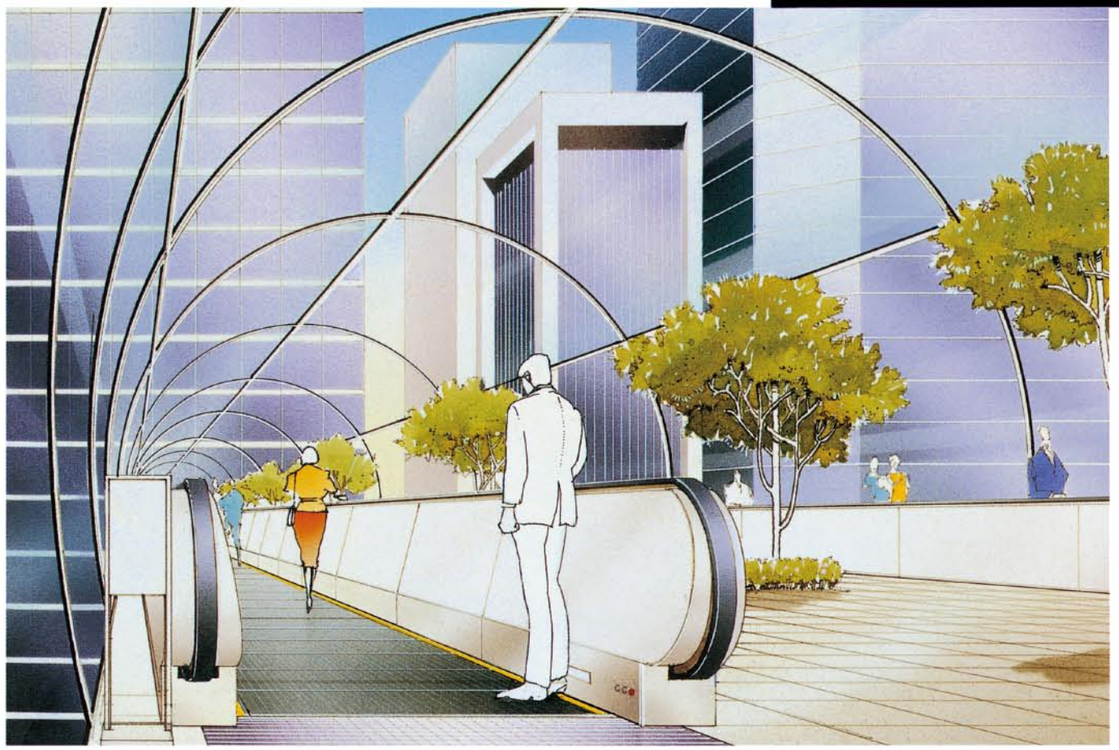
Mitsubishi moving walk, the Model 1600 is wide enough for two people to ride side-by-side without feeling crowded. This roomy design is well suited to contemporary transportation needs–from airport passengers carrying large amounts of luggage to the heavy passenger flow at major train stations. The Model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



NEW URBAN DEVELOPMENT
MODEL 1600 HORIZONTAL

Greater Freedom of Movement in Urban Centers

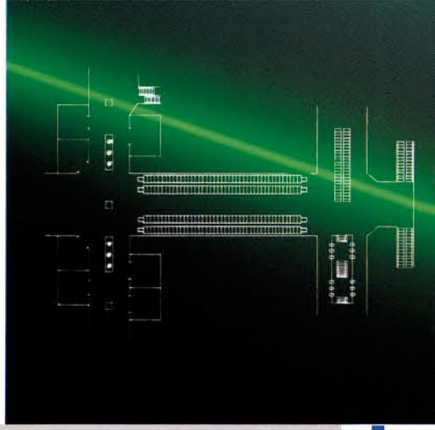


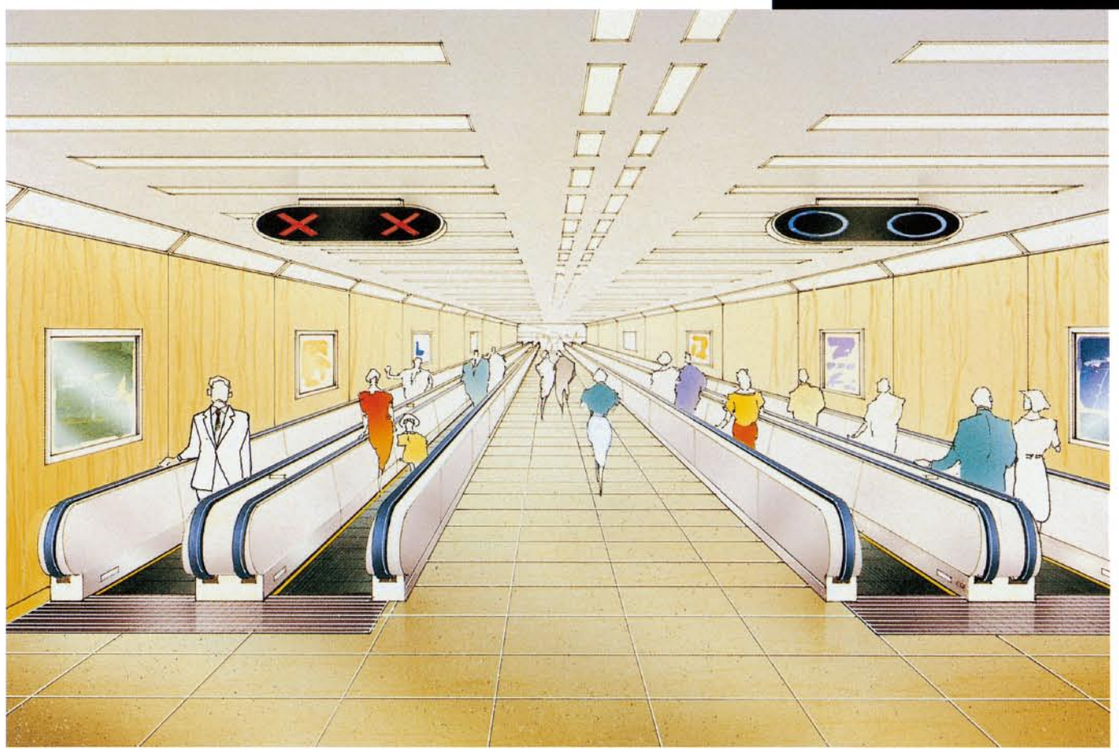


Mitsubishi moving walks are designed to link major train stations with urban centers and provide pedestrians with greater freedom of movement while enhancing their comfort. The Model 1600, with its extra-wide walk, is ideally suited to fulfill this role. In fact, the Model 1600 can be used to serve a 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

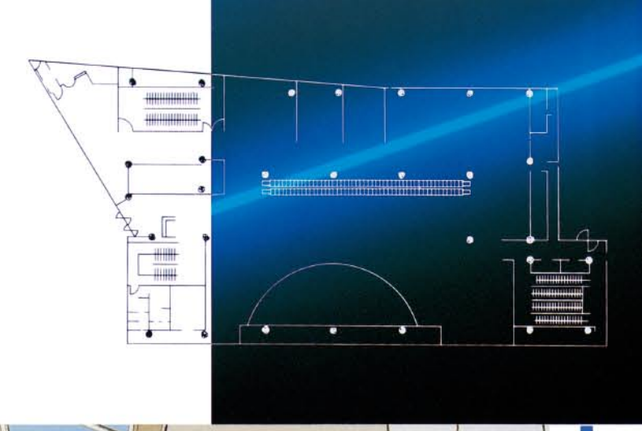




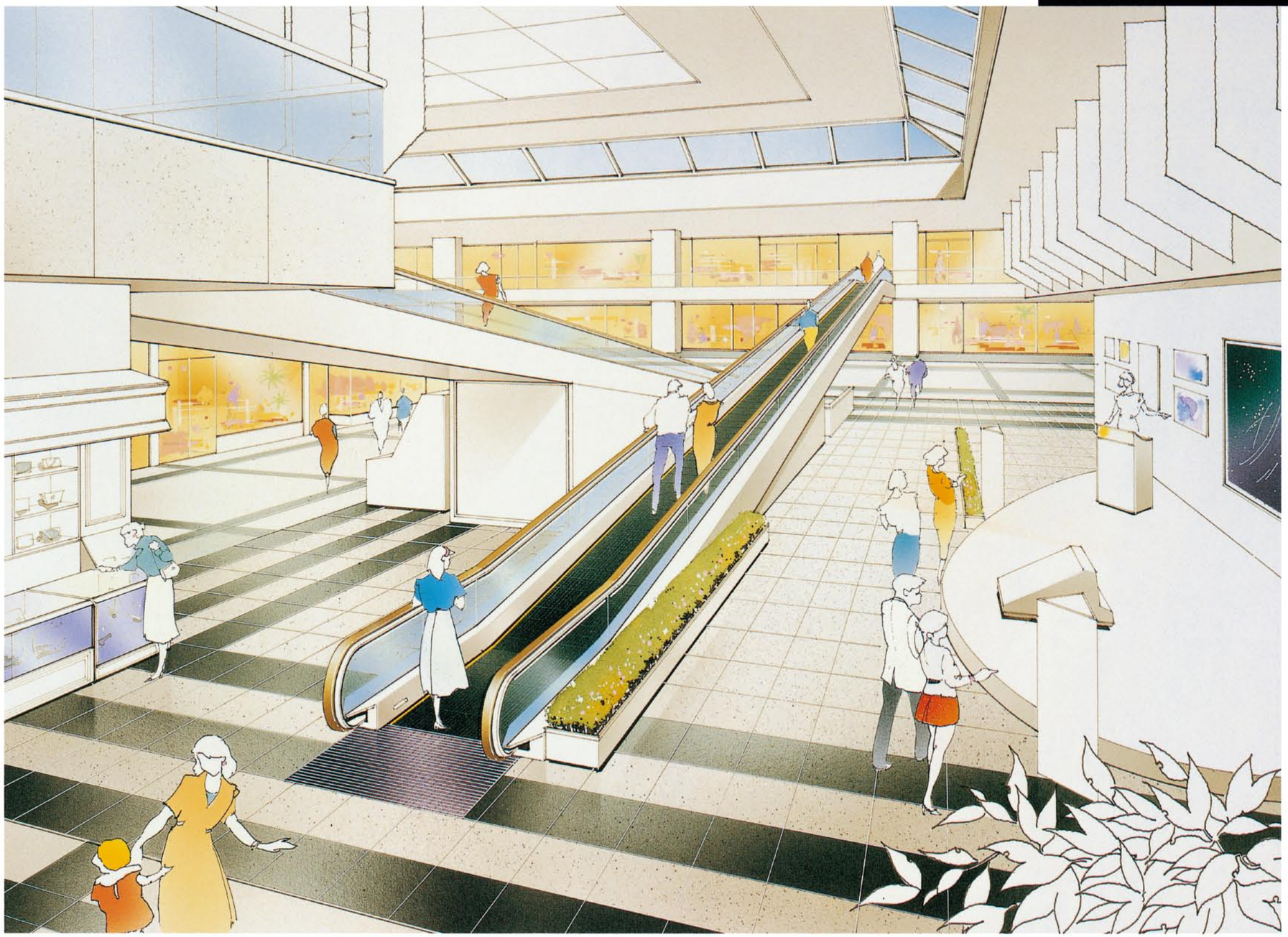
Mitsubishi moving walk, the Model 1200 offers ample capacity to handle the heavy flow of pedestrian traffic in the underground passageways that link subways to underground shopping malls and connect major stores. What's more, this smooth riding moving walk provides a respite from the hustle and bustle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

SHOPPING MALLS
MODEL 1200 INCLINED

Convenient Transport Between Floors with Panoramic Views of the Entire Mall

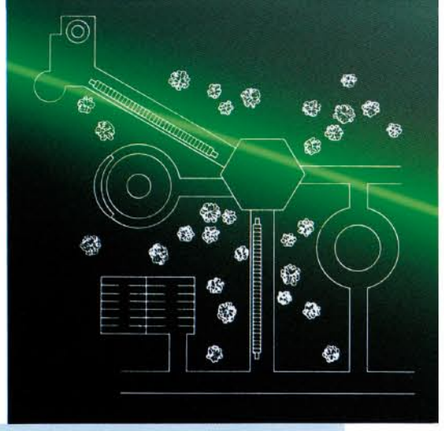


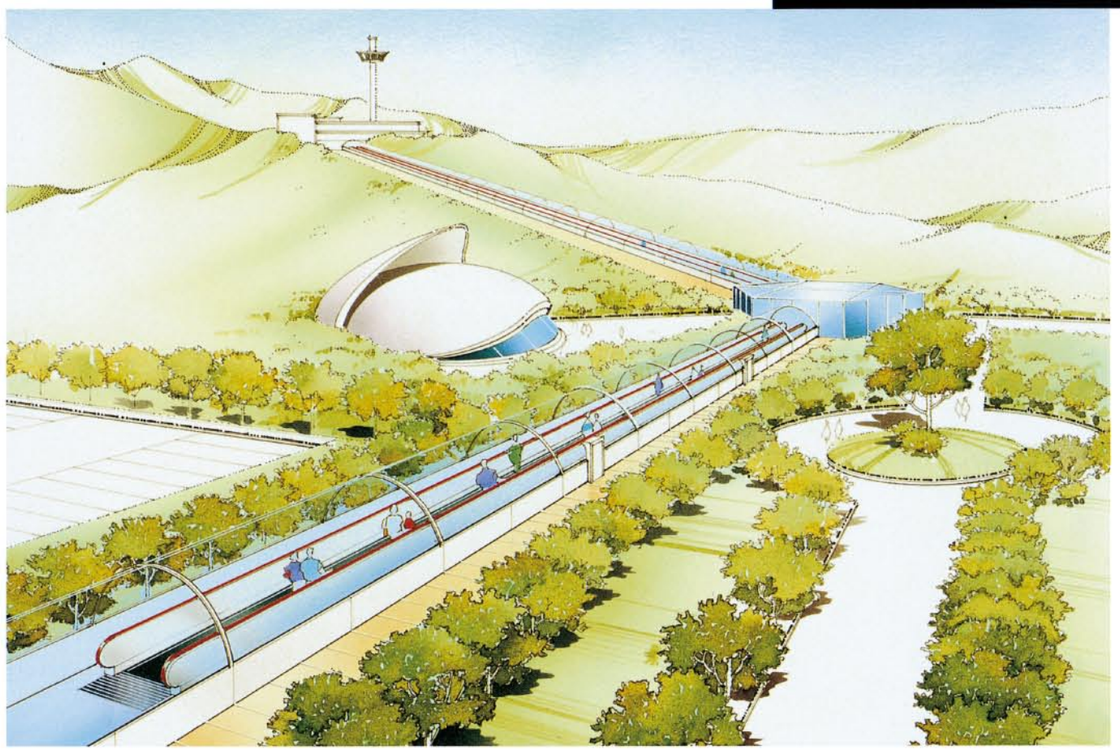
Mitsubishi moving walk, the Model 1200 Inclined makes shopping a pleasure, and it permits shoppers to move easily between floors with shopping carts or a large number of bags while offering panoramic views of the entire mall at the same time.
The Model 1200 Inclined can also be placed near event areas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



ELEVATED SITES
MODEL 1200 INCLINED

Smooth Riding and Dependable for Easy Customer Access

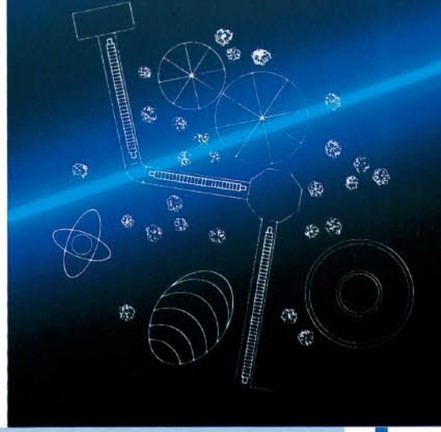


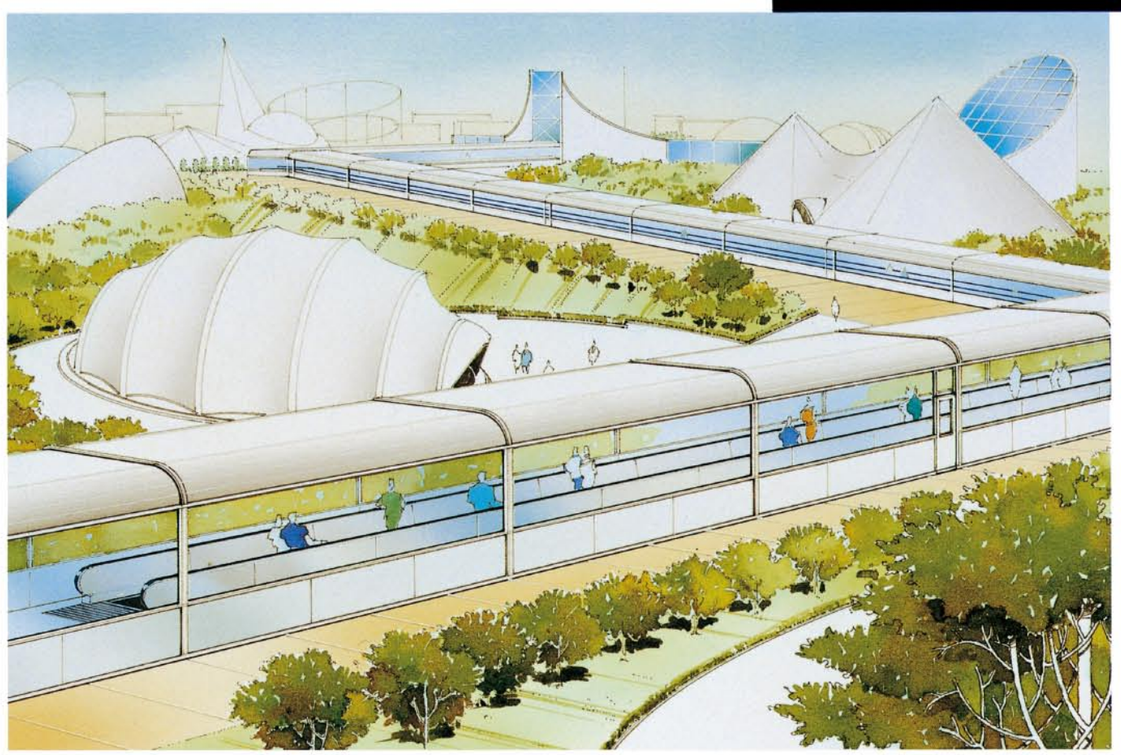


By permitting access by great numbers of people, the Model 1200 Inclined can help to boost attendance at public facilities, tourist attractions, and other places of interest located at elevated sites. The Model 1200 Inclined offers an expansive view of surrounding scenery and provides easy access for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

EXPOSITIONS, THEME PARKS
MODEL 1200 MULTIPLE SYSTEM

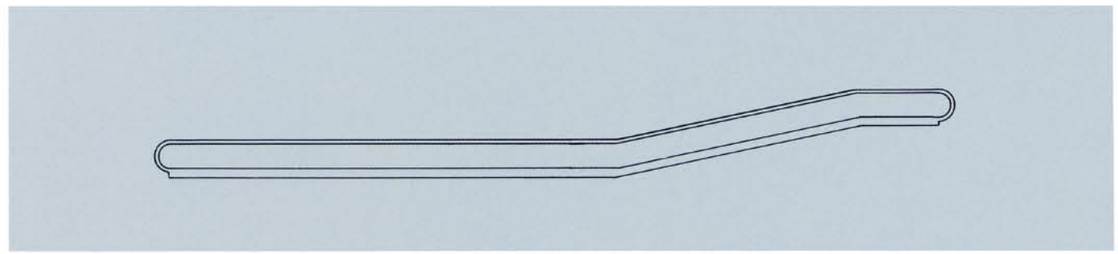
Smooth Pedestrian Flow over Level and Sloping Sites





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.

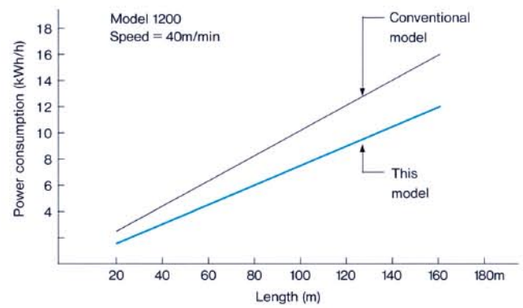
6

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).

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.

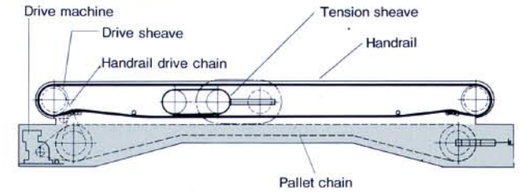
● **Inlet Guards**

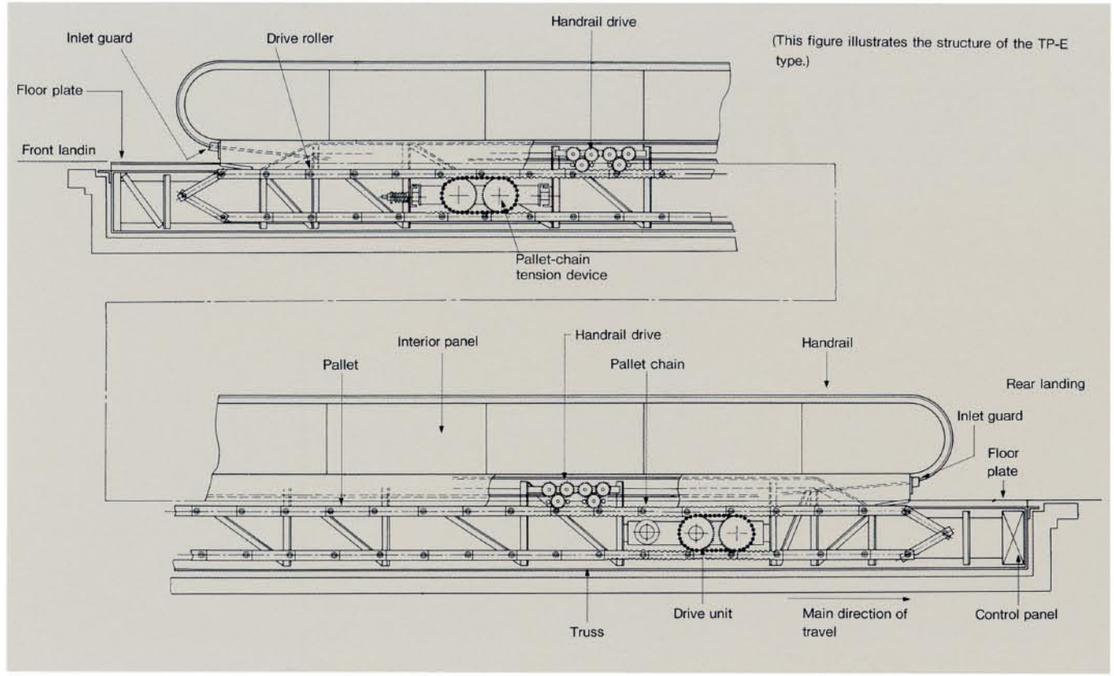
These flexible rubber guards prevent fingers from being drawn inside by the movement of the handrail. An emergency switch is also provided to stop the moving walk immediately in the rare event that something does get past the guards.

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 13m² 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.

● **Conventional Model**





(This figure illustrates the structure of the TP-E type.)

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

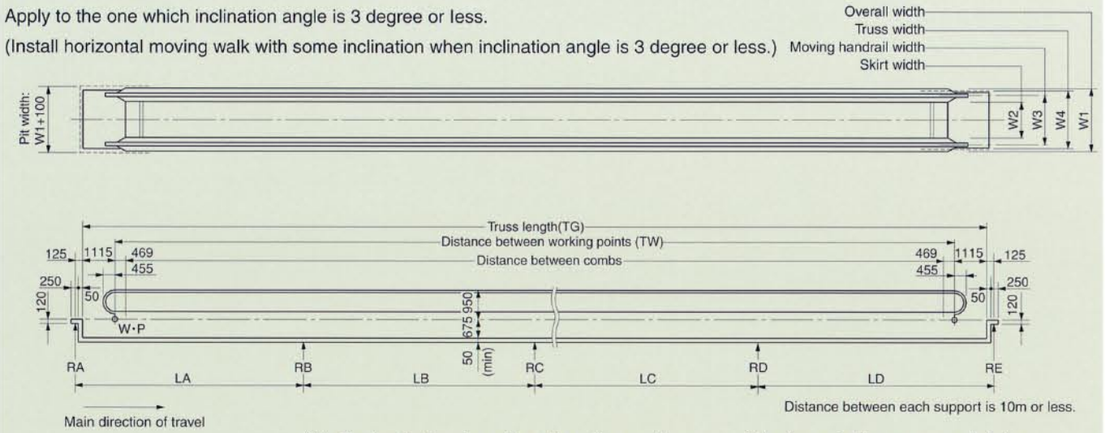
(Since ASME A17.1 and EN115 stndard dimensions are different , please consult our sales agency.)

Standard Layout of Horizontal TP-E Type

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

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 θ(°)	Speed (m/min)	Distance between working points TW(m)
1200	0	30	15 ~ 95 ~ 190
		40	15 ~ 70 (5.5kW×1) ~ 140 (5.5kW×2) ~ 200 (5.5kW×3)
		45	15 ~ 60 ~ 120 ~ 180 (5.5kW×4)
	3	30	15 ~ 45 ~ 95 ~ Max.100m
		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 ~ Max.100m
		40	15 ~ 25 ~ 55 (5.5kW×3) ~ 85
		45	15 ~ 22 ~ 50 ~ 75 (5.5kW×4)

Static Load Factors

Model	α (N/mm)
1200	3.64
1600	4.63

Static Loads

RA(N)	α×LA
RB(N)	α×(LA+LB)
RC(N)	α×(LB+LC)
RD(N)	α×(LC+LD)
RE(N)	α×LD

(LA,LB,LC,LD :mm)

Standard Specifications

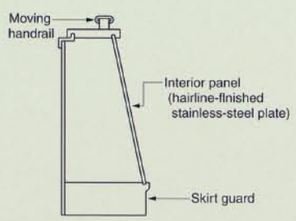
Model		1600			1200		
Speed (m/min)		30	40	45	30	40	45
Carrying capacity (persons/hr)		9000	12000	13500	9000	12000	13500
Inclination angle (°)		0~3			0~12		0~8
Power supply	Main	200/400VAC 3-phase, 50 or 60Hz					
	Signals	100VAC single-phase. 50 or 60Hz					
Operation system		Manual key-switch operation					

Outline Dimensions (mm)

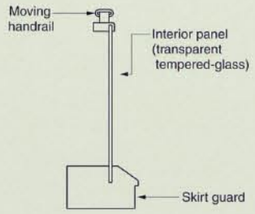
Model		1600	1200
W1		1946	1550
W2		1406	1010
W3	TP-E	1656	1260
	TS-E	1676	1280
	TS-LE	1676	1280
W4		1896	1500

Balustrade Configurations

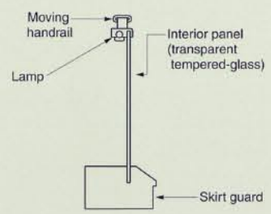
Type TP-E



Type TS-E



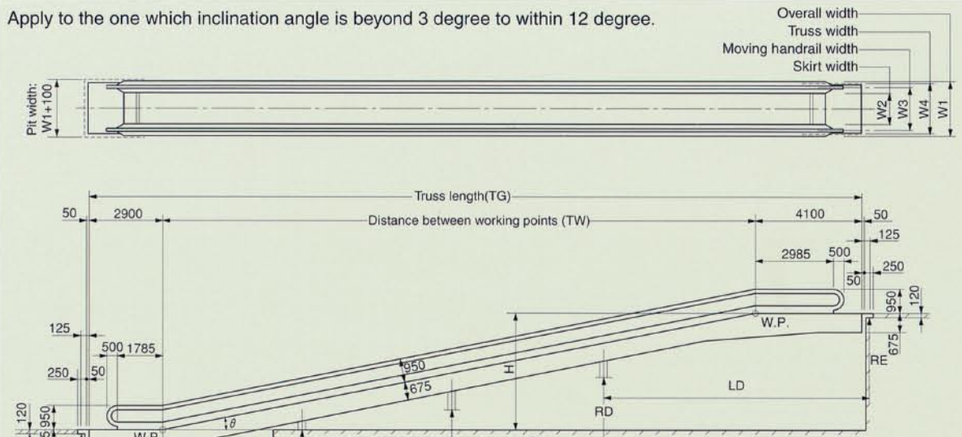
Type TS-LE



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 θ(°)	Speed (m/min)	Rise H(m)
1200	6	30	1.5 ~ 3.0 (5.5kW×1) ~ 4.6 ~ 6.5 (5.5kW×2) ~ 7.0 (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
	11.31	40	3.0 ~ 5.5kW×2 ~ 5.5 ~ 5.5kW×3

Static Loads

RA(N)	3.70×LA
RB(N)	3.70×(LA+LB)
RC(N)	3.70×(LB+LC)
RD(N)	3.70×(LC+LD)
RE(N)	3.70×LD

(LA,LB,LC,LD :mm)

Finishes

Balustrade	Interior panel	TP-E	Hairline-finished stainless-steel plate
		TS-E	Vertical ,flat,rectangular tempered-glass panels without illumination
		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.