


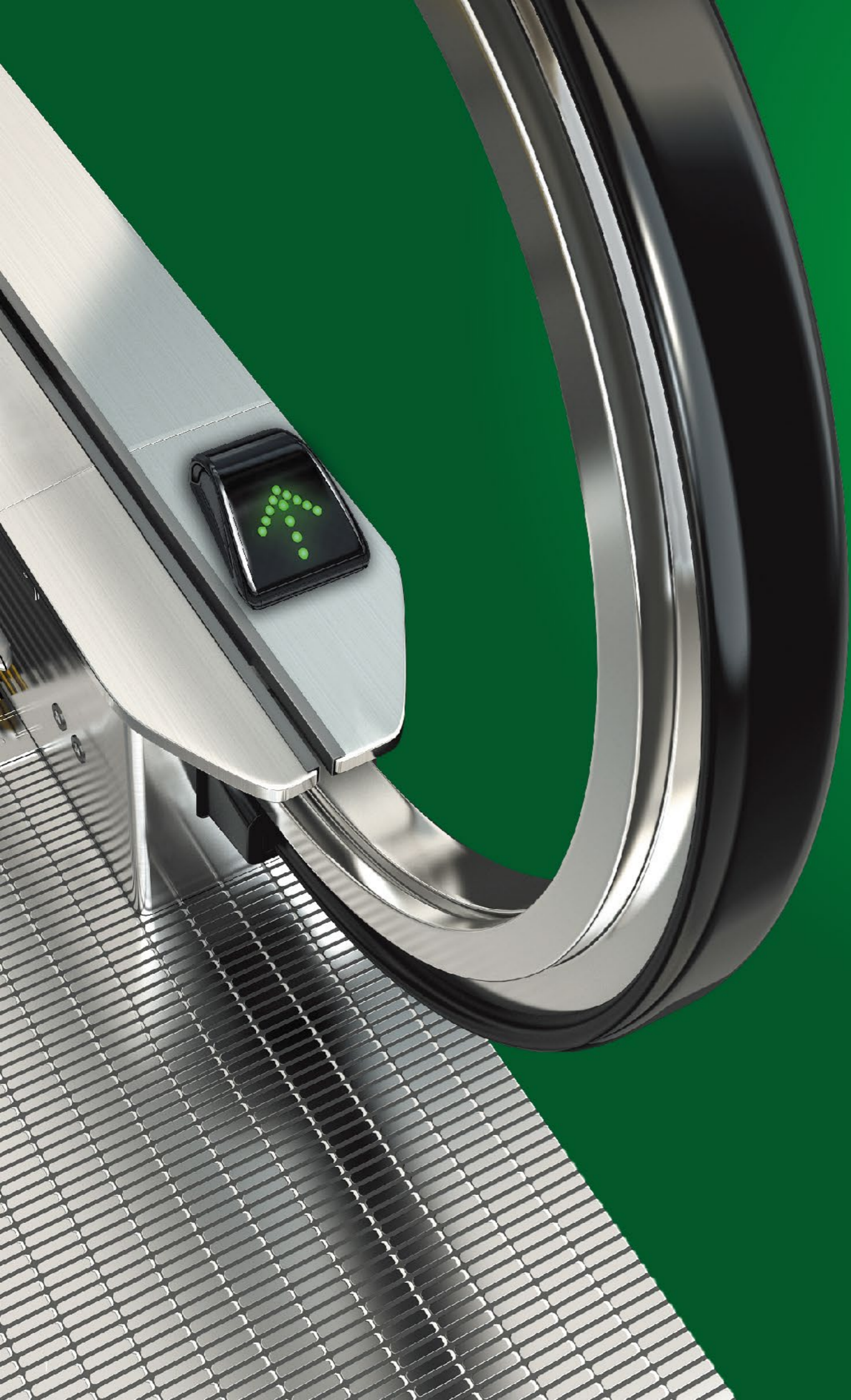
Shanghai Mitsubishi Elevator Co., Ltd.
Address: No. 811 Jiangchuan Road. Minhang, Shanghai, China
Tel : +86-21-24083030/64303030
Fax : +86-21-24083088
Post: 200245

Overseas Business
Tel : +86-21-24083482
Fax : +86-21-24083488
e-mail : overseasbiz@smec-cn.com




Specifications subject to change without notice
Printed in Oct. 2013 (GB-E)

Series C
— Moving Walk —



Series C Moving Walk

C系列自动人行道

With the use of up-to-date technology, series C moving walk are fast, comfortable and safe. They not only can meet the ever increasing needs for passengers' traffic in modern cities, but also bring one after another bright flowing scenic line to city buildings.

This is a relaxed space in busy cities and it can provide an ongoing step of taking a rest to townspeople walking in a hurry. No matter when they are walking with a handcart or with a big bundle of articles, also no matter who is old or holds a baby in the arms, all of them can make a relaxed and fast movement by riding a moving walk, feeling that outgoing, shopping and sightseeing are all a kind of real easy thing .

General

Safety and Energy-Saving Devices 3-4

Electric and Maintenance System 5-6

Design

Advantages and Merits are Everywhere 7-8

Type CS-LB/CS-LBF Type CS-SB/CS-SBF

Design

Decoration Configuration
Configuration of Safety Device 9-10

Specification Data

Feature List 11-12

Civil 13-18

Basic Specification 19-20

Safety and Energy-Saving Devices



Safety

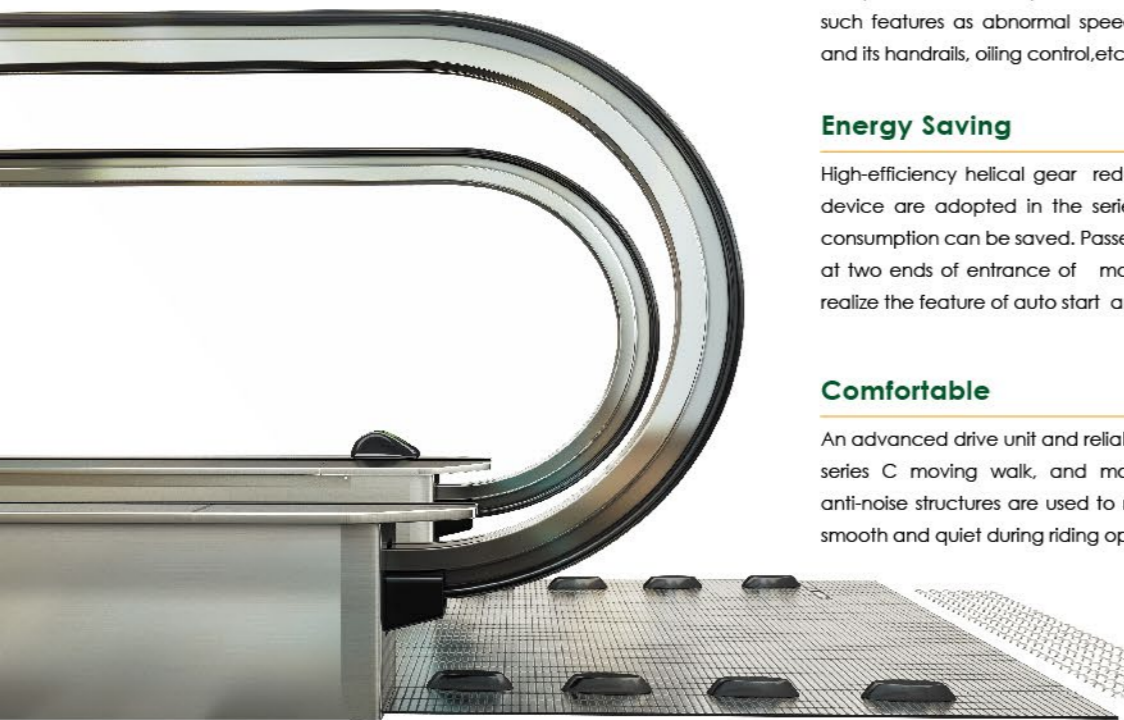
A series of safety protective devices have been installed in series C moving walk to assure the highest safety under operation. The control cabinet and operation panel, which can be used to control the starting and braking, are set up in the electrical part to cut off the power supply by the control circuit when any abnormality of operation happens. The computer board is adopted in the electrical control system, which has such features as abnormal speed detection of passenger conveyor and its handrails, oiling control, etc., as well as failure display.

Energy Saving

High-efficiency helical gear reducer and new-type handrail driving device are adopted in the series C moving walk and the energy consumption can be saved. Passenger detecting devices are installed at two ends of entrance of moving walk for variable frequency to realize the feature of auto start and auto stop.

Comfortable

An advanced drive unit and reliable safety devices are installed in the series C moving walk, and moreover, a series of damping and anti-noise structures are used to make passengers feel comfortable, smooth and quiet during riding operation.

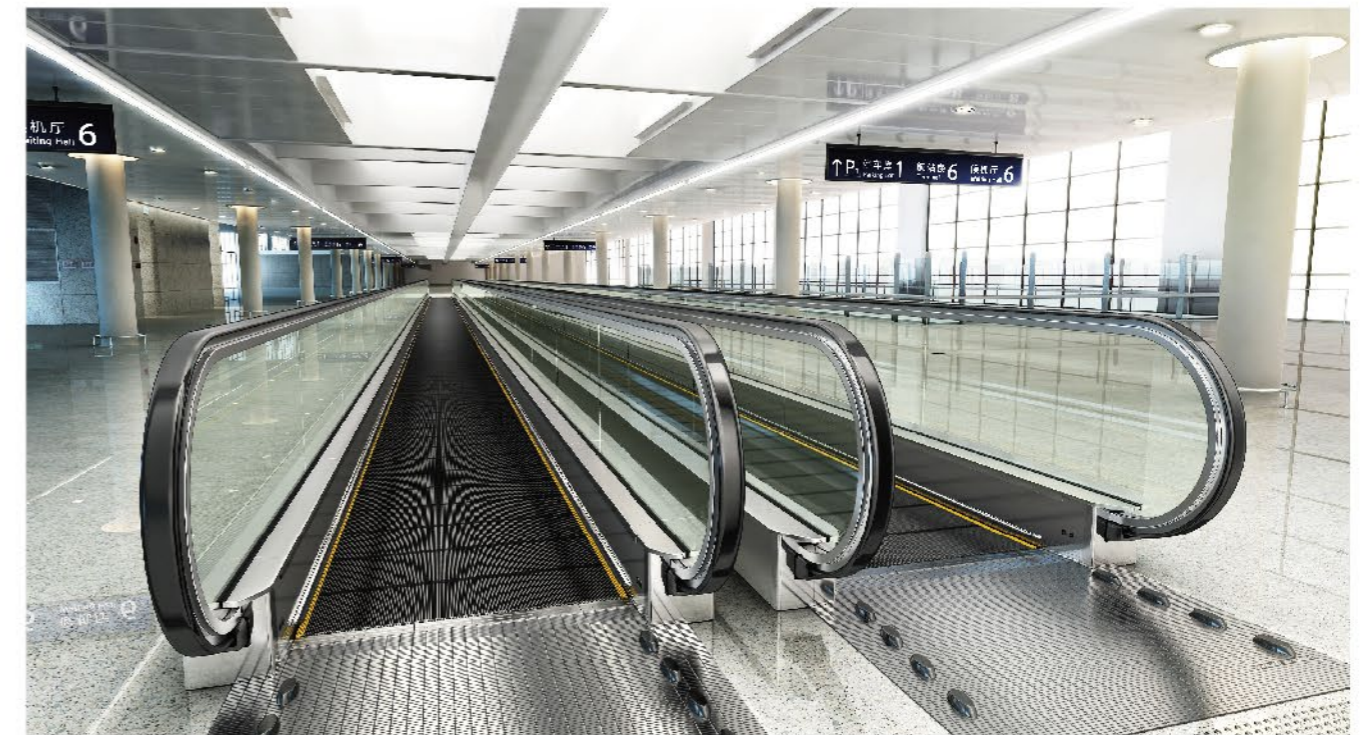


Large Transport Capacity

Series C moving walk have a large transport capacity. Series C moving walk can meet the requirements for modern passengers traffic of different aspects and they are suitable to many places such as airport, shopping center, hotel and recreational facilities, etc...

The space requirement for our unique creative design of moving walk has been reduced to the minimum. The sturdy structure can assure a large sufficient capacity. Every valuable space shall be saved and the requirements of modern city traffic shall be taken into full account while carrying the busy stream of people in large markets or airports.

The inclination angle of 0-12 degrees is available to option in accordance with different usage and environment.



Electric and Maintenance System



Longer Component Lifespan

The lifespan of high-precision helical gear reduce will reach 20 years; The linear handrail drive significantly increase the lifespan of handrail; The unloading guides at the cured track of moving walk enable the rollers not in touch with the guide rail at upper cured part, reduces the wheel load and abrasion of the rollers, and prolongs the lifespan of the rollers; Using the automatic oil feeding device as the standard configuration significantly increase the lifespan of various chains; The standard interior-decorating components are made of stainless steel and are able to stand wear and tear.

Simple and Convenient Maintenance

The driving device of vertical layout has larger maintenance space than the driving device of horizontal layout, making the operation more convenient; Automatic oil feeding device adopted as the standard configuration. The moving walk uses a large number of chains, such as pallet chains, drive chains, handrail chain. The lubrication of these chains is essential for ensuring their lifespan and guaranteeing the performance and quality of the moving walk.

Advanced Electric System

With high-performance microprocessor adopted, the management, control, driving and communication of the moving walk are all integrated on one printed board, realizing the integrated design of the electrical system of moving walk; The self-developed technology of variable-pressure and frequency control realizes the current minimization control of electric motor, reduces the heating of IPM frequency components and improves the ability of the control screen to endure the environment of overheating; Modular design is adopted, realizing convenient expansion of the system.

Elegant and Exquisite Design and Decoration



As a kind of modern means of transportation which incarnates the elegant appearance of city, most of moving walk are installed in the thriving places of town. Series C moving walk designed according to high criterion have a wide range of optional decorations which can add luster to the city life in different places.



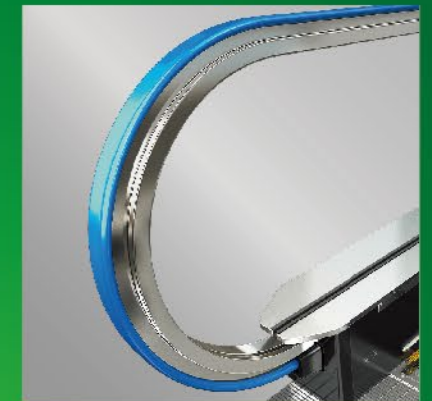
Type CS-LB / CS-LBF (with lighting)

The handrail down lighting of type CS-LB/CS-LBF moving walk creates a magnificent space, and its peaceful and smooth light can further serve as a foil to the elegant making of installation places of our moving walks.



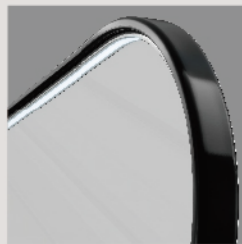
Type CS-SB / CS-SBF

Super-slim handrail guides made of stainless steel are adopted in the CS-SB/CS-SBF moving walk and their structure is very compact, making passengers have a feeling that the handrails are sliding on glass. moving walk of this kind with succinct and sprightly outline have strong adaptability to environment and add luster



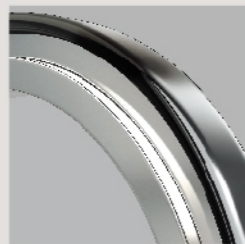
Decoration Configuration and Configuration of Safety Device

Lighting



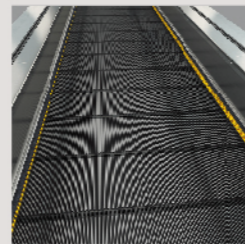
Standard
Handrail Illumination(CS-LB/CS-LBF)

Handrail Guide Rail



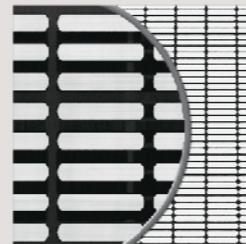
Standard
Hairline stainless steel

Pallet



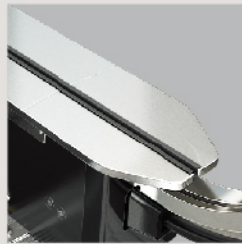
Standard
Aluminum alloy casting step with black painting

Front Plate



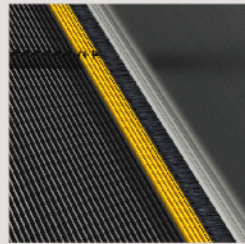
Standard
Stainless steel with anti-skid grooves and black coating inside.

Cover Plates



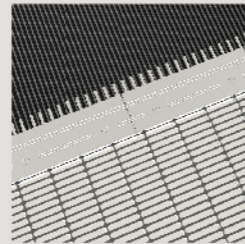
Standard
Hairline stainless steel

Step Demarcation Cleat



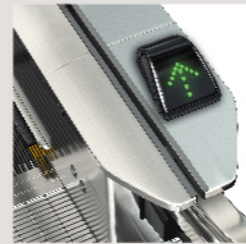
Standard
Yellow molded resin on left and right side of step.

Comb



Standard
Aluminum Alloy

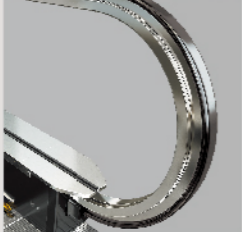
Operations Indicator



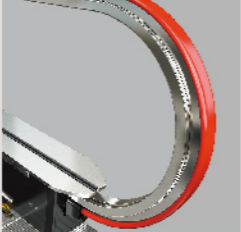
No.001
Black (Standard)



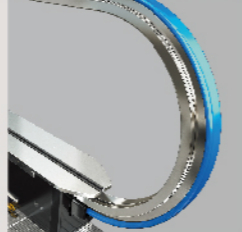
No.501
Char Grey (Optional)



No.503
Red (Optional)



No.506
Blue (Optional)



No.507
Gray (Optional)



Drive Chain Safety Device (DCS)

Once drive chains are broken, this device shall cut off the power supply of motor and brake and at the same time the drive ratchet shall stop the operation of passenger conveyor.

Handrail safety device (HSS)

When the handrail speed is lower than 15% of the pallet speed and maintains for over 15 seconds, this device will immediately cut off the power supply of the drive motor and the brake.

Handrail Inlet Safety Device (HGS)

This protective cover made of rubber is wrapped in a wrinkled skin to prevent hands from being drawn into inlet, and thus, our moving walk are more safe for children.

Emergency Stop Button (E-STOP)

Once this button is pressed, the moving walk comes into an emergency stop.

Over speed Governor 1

When running speed exceeds 1.2 times of nominal speed; this device will work and cut off power supply to main drive unit and working brake.

Over speed Governor 2

When running speed exceeds 1.4 times of nominal speed; this device will work and cut off power supply to auxiliary brake.(HT>6m)

Pallet Chain Safety Device (PCS)

Once the Pallet is abnormally extended or broken. This device shall cut off power supply of motor and brake.

Handrail Inlet Safety Device (HGS)

This protective cover made of rubber is wrapped in a wrinkled skin to prevent hands from being drawn into inlet, and thus, our moving walk are more safe for children.

Emergency Stop Button (E-STOP)

Once this button is pressed, the moving walk comes into an emergency stop.

Protection Against Phase Error and Loss

When input dynamic power source has any phase error or loss, cut off the main circuit and control circuit.

Comb Plates Safety Device (CSS)

If any foreign matter is caught between combs and treads, this device shall cut off the power supply of driving motor and brake.

Pallet Roller safety device (PRS)

If any one of step axles is broken, resulting that the tread of upper or bottom landing and the relative combs can not mesh normally, this device shall cut off the power supply of driving motor and brake.

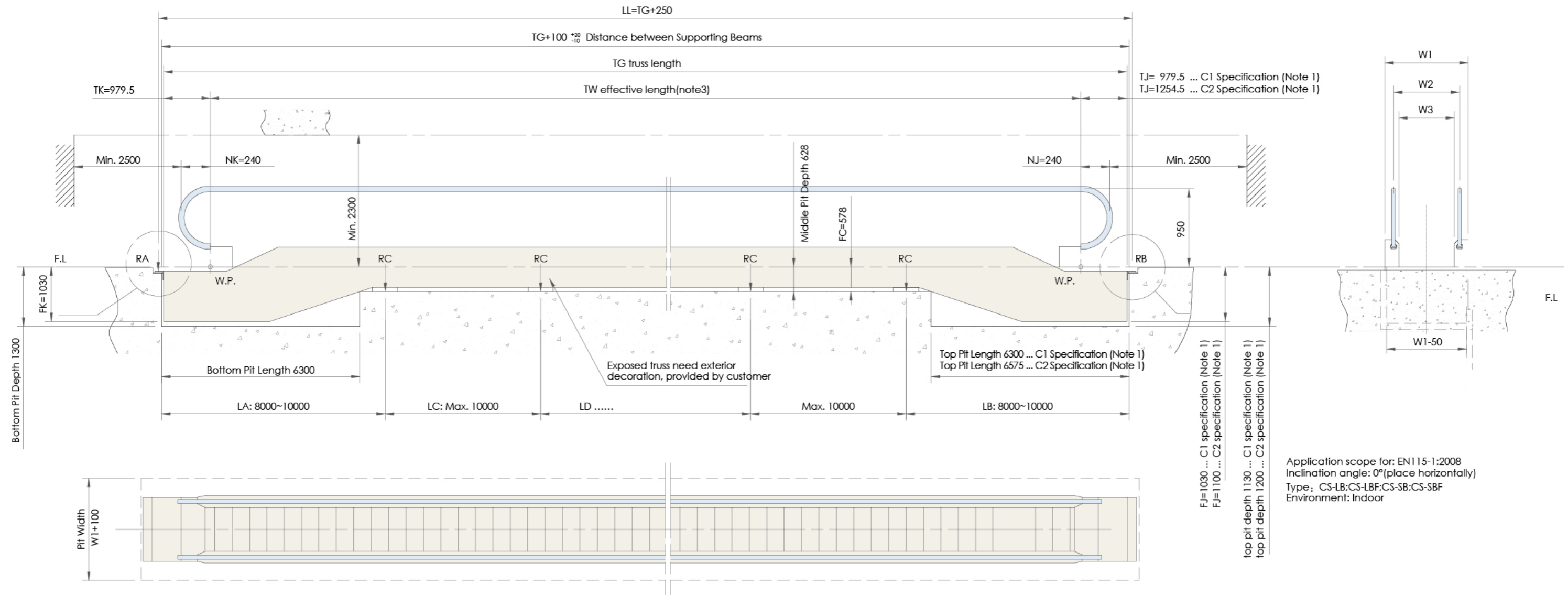
| Feature | Description | Code | Non-frequency Conversion | Frequency Conversion |
|--|---|-----------|--------------------------|----------------------|
| ■ Control and Security Features | | | | |
| Phase Dislocation/ Phase Loss Protection | In case of phase dislocation or phase loss of the input power supply, cut the main circuit and control the circuit to stop the moving walk. | 3E | Ⓢ | Ⓢ |
| Non-manipulated Reversion Protection | In case of moving walk reversion of the escalator, the device will cut down the power supply to the main drive motor and the brake. | ARP | Ⓢ | Ⓢ |
| Auxiliary Brake | When the moving walk reaches 1.4 times of the rated speed or is not operating in the required direction, the auxiliary brake stops the escalator. | AUX-BK *1 | Ⓢ | Ⓢ |
| Auxiliary Brake | When the moving walk reaches 1.4 times of the rated speed or is not operating in the required direction, the auxiliary brake stops the escalator. | AUX-BK *2 | Ⓞ | Ⓞ |
| Detection of Service Brake Actions | Stop the moving walk when the service brake cannot release or brake normally. | BLR | Ⓢ | Ⓢ |
| Service Brake | The service brake takes action to stop the moving walk, and keep it stopped. | BRK | Ⓢ | Ⓢ |
| Comb Plate Safety Device | When any foreign object falls between the pallets and the comb plate, stop the moving walk. | CSS | Ⓢ | Ⓢ |
| Detection of Contactor Action | In case of any abnormality with the contactor, stop the moving walk. | CTD | Ⓢ | Ⓢ |
| Drive Chain Safety Device | When the drive chain breaks or extends abnormally, stop the moving walk. | DCS | Ⓢ | Ⓢ |
| Cover Plate Safety Device | When the maintenance cover plate is taken out, stop the moving walk or prevent it from starting. | DOS | Ⓢ | Ⓢ |
| Emergency Stop Button | In emergency, use this device to stop the moving walk. | E-STOP | Ⓢ | Ⓢ |
| Detection of Auxiliary Brake Actions | When the auxiliary brake is not in place, prevent the moving walk from starting. (When the rise is above 6m) | EBR *3 | Ⓢ | Ⓢ |
| Electric Safety Circuit Protection | When there is any action in the electric safety devices connected in serial, stop the moving walk. | ESC | Ⓢ | Ⓢ |
| Detection of Braking Distance | When the brake distance gets longer than 1.2 times the defined maximum, prevent the moving walk from starting. | ESD | Ⓢ | Ⓢ |
| Handrail Anti-static Device | The device prevents static from occurring on the handrail. | HER | Ⓢ | Ⓢ |
| Over-speed | Stop the moving walk before the operational velocity grows above 1.2 times the nominal velocity. | HGD1 | Ⓢ | Ⓢ |
| Over-speed Limitation Device | Stop the moving walk before the operational velocity grows above 1.4 times the nominal velocity. (when the rise is above 6m) | HGD2 *3 | Ⓢ | Ⓢ |
| Handrail Inlet Safety Device | When any foreign object gets pinched into the handrail inlet, stop the moving walk. | HGS | Ⓢ | Ⓢ |
| Handrail Velocity Inspection | When the velocity of the handrail is below the rated value, and the condition lasts for a period of time, stop the moving walk. | HSS | Ⓢ | Ⓢ |
| Under-voltage Protection | When the voltage of the frequency converter is too low, stop the moving walk. | LVP | — | Ⓢ |
| Over-current Protection | When the electric current of the frequency converter is too strong, stop the moving walk. | OCP | — | Ⓢ |
| Motor Overload Protection | When the motor is overloaded, stop the moving walk. | OCR | Ⓢ | Ⓢ |
| Over-voltage Protection | When the voltage of the frequency converter is too high, stop the moving walk. | OVP | — | Ⓢ |
| Pallet chain safety device | If the pallet chain is broken or abnormally extended, this device will cut off the power supply of the drive motor and the brake. | PCS | Ⓢ | Ⓢ |
| Pallet Anti-static Device | The device prevents static from occurring on the pallet. | PER | Ⓢ | Ⓢ |
| Detection of Power Phase | Automatically inspect the power phase and frequency, and switch to bypass frequency converter in a shock-free manner. Realize self-adaptation control of power factors with the full frequency converter. | PLL | — | Ⓢ |
| Pallet Missing Safety Device | When there is any pallet missing, the device takes action to stop the moving walk. | PMS | Ⓢ | Ⓢ |
| Pallet Sinking Safety Device | If the pallet sinks and the step cannot mesh with the comb plate, stop the moving walk. | PRS | Ⓢ | Ⓢ |
| Error of the Passenger Detection Device | Self-diagnosis of error with the passenger detection device. In case of any error, cancel the standby model. | PSD | — | Ⓢ |
| Skirting Panel Safety Device | When any foreign object falls between steps and skirting panels, stop the moving walk. | SSS | Ⓢ | Ⓢ |
| Monitoring Cohesion of the Starting Switch | In case of cohesion of the starting switch, prevent the moving walk from starting. | SWD | Ⓢ | Ⓢ |
| Overheating Protection of Frequency Converter | When the frequency converter is overheated, stop the moving walk. | THMF | — | Ⓢ |
| Low Velocity Protection | When the velocity of the escalator is below the rated velocity, stop the moving walk. | USP | Ⓢ | Ⓢ |
| ■ Emergency Operations | | | | |
| Fire Stop | When a signal of fire-fighting action is received, stop the moving walk. | FSS | Ⓞ | Ⓞ |
| ■ Operations and Service Functions | | | | |
| Repair | The escalator can be set to the operation under repair model, to make the installation and commissioning convenient. | HAND | Ⓢ | Ⓢ |
| Manually Shut Down Illumination | Open or shut down illumination manually with the switch. (When auxiliary illumination below steps and/or at the handrails is equipped) | LO-M *4 | Ⓢ | Ⓢ |
| Automatic Operation | Through the usage of passenger detection devices, the moving walk could operate with the nominal speed when there is any passenger, and shift to standby in case of no load. | MDA | — | Ⓢ |
| Operation with Constant Velocity | The moving walk keeps at the nominal velocity. | MDC | Ⓢ | — |
| Automatic Oil Feeding | Add lubricating oil to the chains of the moving walk at predetermined time automatically. | OIL | Ⓢ | Ⓢ |
| Passenger Detection Device: Microwave but not the Column Pattern | Adopt microwave sensors for the passenger detection device. | PSM *5 | — | Ⓞ |

| Feature | Description | Code | Non-frequency Conversion | Frequency Conversion |
|---|--|----------|--------------------------|----------------------|
| ■ Operations and Service Functions | | | | |
| Passenger sensing device: photoelectric non-pillar type | Only for variable-frequency moving walk; passenger sensing device: select one from three. | PSO *5*6 | — | Ⓞ |
| Passenger Detection Device: Column Pattern | Adopt the photoelectric column for the passenger detection device. | PSP *5*6 | — | Ⓞ |
| Low Velocity Standby | The moving walk operates below the nominal velocity in the condition of no load. | SBLS *7 | — | Ⓞ |
| Stop Standby | The moving walk stops in the condition of no load. | SBSP *7 | — | Ⓞ |
| Direct Start-up | Supply power with direct drive with mains at both starting and operation of the moving walk, and the frequency converter serves merely as a backup. | SDT *8 | Ⓢ | Ⓢ |
| Optional Directions of Operation | The direction of moving walk operation could be reversed. | UDA | Ⓢ | Ⓢ |
| Bypass Frequency Converter | Supply power with frequency converter at starting, stop, and low velocity standby, and shift to direct drive with mains during operations with rated velocity. | VFBF | — | Ⓢ |
| ■ Information and Display | | | | |
| Displaying Safety Device Codes | Carry out one-on-one inspection on safety devices, and display response error codes if there is any error. | ASD *6 | Ⓞ | Ⓞ |
| BA Interface | Use passive dry contact to output signals indicating basic status of the moving walk. | BA | Ⓞ | Ⓞ |
| Buzzer | Remind the passengers of moving walk starting, error, reversion, and etc. | BUZ | Ⓢ | Ⓢ |
| Operational Direction Indication | Indicate the passengers the operational direction, stop, no entry, or other conditions of the moving walk. | DI | Ⓞ | Ⓢ |
| Reminder of Fire-protection Stop | When the moving walk stops for fire-protection reasons, release the signal of fire-protection stop. | FE-CP | Ⓞ | Ⓞ |
| Handrail Illumination | Illumination at the lower edge of the handrail. | L-BAL *9 | Ⓢ | Ⓢ |
| The Monitoring System | The system monitors the status of the moving walk with computers, and gives orders of starting or stop when necessary. | SMOS-II | Ⓞ | Ⓞ |

Note:

- *1 Standard component when the rise is above 6 meters.
- *2 Non-standard component when the rise is 6 meters or below.
- *3 Standard component when auxiliary brakes are equipped.
- *4 When there is illumination system on the escalator.
- *5 PSM, PSO or PSP (PSM is the recommended option)
- *6 Non-standard
- *7 SBLS or SBSP (SBSP is recommended indoor option)
- *8 The normal start-up model for non-frequency conversion escalators, and backup for frequency conversion escalators.
- *9 Only for indoor CS-LB/CS-L BF
- *10 Ⓢ Standard functions, Ⓞ optional functions

Building Project Layout for Moving Walk of Horizontal Type



Civil Work Data

| Item | Specification | Note |
|-------------------------------|-------------------------------|-----------------------------|
| Length of the Upper Truss(mm) | 979.5 | Motor Power Capacity<11 |
| | 1254.5 | Motor Power Capacity=11 |
| Length of the Lower Truss(mm) | 979.5 | |
| Top Pit Depth(mm) | 1030 | Motor Power Capacity<11 |
| | 1100 | Motor Power Capacity=11 |
| Depth of the Middle Truss(mm) | 578 | |
| Bottom Pit Depth(mm) | 1030 | |
| Width of the Moving Walk(mm) | 1550 | Handrail nominal width 1200 |
| | 1750 | Handrail nominal width 1400 |
| | 1950 | Handrail nominal width 1600 |
| Number Between Intermediate | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 | |

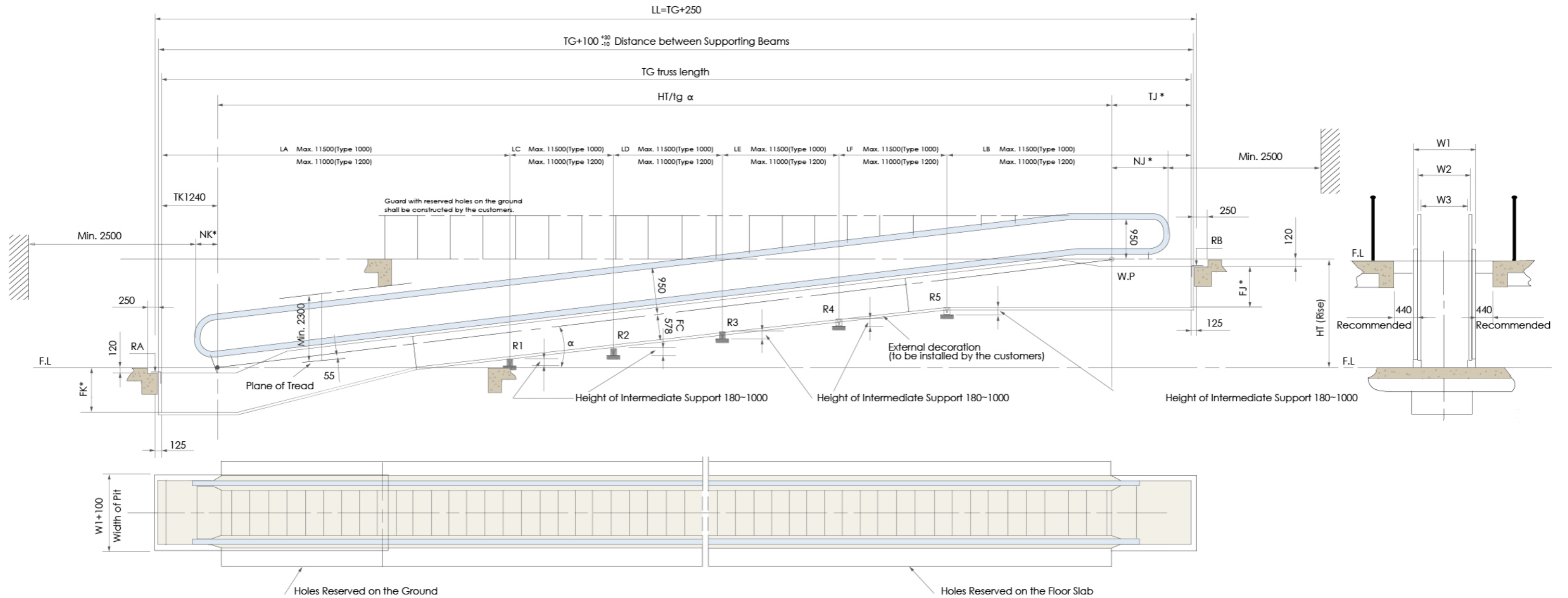
| Item | Specification | Note |
|---|---------------|---|
| Distance Between Intermediate Supports LA | 8000-10000 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 intermediate supports |
| Distance Between Intermediate Supports LB | 8000-10000 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 intermediate supports |
| Distance Between Intermediate Supports LC | 500-10000 | 2, 3, 4, 5, 6, 7, 8, 9, 10 intermediate supports |
| Distance Between Intermediate Supports LD | 500-10000 | 3, 4, 5, 6, 7, 8, 9, 10 intermediate supports |
| Distance Between Intermediate Supports LE | 500-10000 | 4, 5, 6, 7, 8, 9, 10 intermediate supports |
| Distance Between Intermediate Supports LF | 500-10000 | 5, 6, 7, 8, 9, 10 intermediate supports |
| Distance Between Intermediate Supports LG | 500-10000 | 6, 7, 8, 9, 10 intermediate supports |
| Distance Between Intermediate Supports LH | 500-10000 | 7, 8, 9, 10 intermediate supports |
| Distance Between Intermediate Supports LI | 500-10000 | 8, 9, 10 intermediate supports |
| Distance Between Intermediate Supports LJ | 500-10000 | 9, 10 intermediate supports |
| Distance Between Intermediate Supports LK | 500-10000 | 10 intermediate supports |

Note 1: For C1, using 5.5, 7.5 kW motor; For C2, using 11kW motor.

Note 2: This drawing is only applicable for indoor moving walk. For circumstances of outdoor, civil construction size and requirement varies greatly, please contact Shanghai Mitsubishi Elevator Co.,Ltd

Note 3: This lay-out is only for schematic description. The detail of request and paramter, please contact with Shanghai Mitsubishi elevator.

Building Project Layout for Moving Walk of Inclination Type



Civil Work Data

| Item | Specification | Note |
|-------------------------------|---|--|
| Length of the Upper Truss(mm) | 2070 | INC=11.31°, Motor Power Capacity≤7.5 |
| | 2345 | INC=11.31°, Motor Power Capacity=11 |
| | 1672 | 6°<INC≤8°, Motor Power Capacity≤7.5 |
| | 1947 | 6°<INC≤8°, Motor Power Capacity=11 |
| | 1917 | 8°<INC≤10°, Motor Power Capacity≤7.5 |
| | 2192 | 8°<INC≤10°, Motor Power Capacity=11 |
| | 2034 | 10°<INC≤11°, Motor Power Capacity≤7.5 |
| | 2309 | 10°<INC≤11°, Motor Power Capacity=11 |
| | 2148 | 11°<INC≤12°, Motor Power Capacity≤7.5, INC≠11.31 |
| 2423 | 11°<INC≤12°, Motor Power Capacity=11, INC≠11.31 | |
| Length of the Lower Truss(mm) | 1240 | |
| Top Pit Depth(mm) | 1030 | Motor Power Capacity≤7.5 |
| | 1100 | Motor Power Capacity=11 |
| Depth of the Middle Truss(mm) | 1040 | |
| Bottom Pit Depth(mm) | 578 | |

| Item | Specification | Note |
|---|---------------|--|
| Width of the Moving Walk(mm) | 1350 | Handrail nominal width 1000 |
| | 1550 | Handrail nominal width 1200 |
| Number Between Intermediate | 0, 1 | Handrail nominal width 1200, TG≤11000; Handrail nominal width 1000, TG≤11500 |
| | 1, 2, 3, 4 | Handrail nominal width 1200, TG>11000; Handrail nominal width 1000, TG>11500 |
| Distance Between Intermediate Supports LA | 6000-11000 | Handrail nominal width 1200. 1, 2, 3, 4 intermediate supports |
| | 6000-11500 | Handrail nominal width 1000. 1, 2, 3, 4 intermediate supports |
| Distance Between Intermediate Supports LB | 6000-11000 | Handrail nominal width 1200. 1, 2, 3, 4 intermediate supports |
| | 6000-11500 | Handrail nominal width 1000. 1, 2, 3, 4 intermediate supports |
| Distance Between Intermediate Supports LC | 500-11000 | Handrail nominal width 1200. 2, 3, 4 intermediate supports |
| | 500-11500 | Handrail nominal width 1000. 2, 3, 4 intermediate supports |
| Distance Between Intermediate Supports LD | 500-11000 | Handrail nominal width 1200. 3, 4 intermediate supports |
| | 500-11500 | Handrail nominal width 1000. 3, 4 intermediate supports |
| Distance Between Intermediate Supports LE | 500-11000 | Handrail nominal width 1200. 4 intermediate supports |
| | 500-11500 | Handrail nominal width 1000. 4 intermediate supports |

Note: When The size TG for model 1200 is more than 11000mm, the intermediate supports are needed.

Relation between the Driving Power and the Nominal Length(TW) for Moving walk of Horizontal Type

| Item | Specification | | | | | | | | | | | | | | Power(kW) |
|----------------------------|---------------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|-----------|
| Handrail Nominal Width(mm) | 1200 | | | | | | | 1400/1600 | | | | | | | |
| Operation Speed(m/s) | 0.5 | | | | | | | 0.5 | | | | | | | |
| Inclination Angle | 0° | 1° | 2° | 3° | 4° | 5° | 6° | 0° | 1° | 2° | 3° | 4° | 5° | 6° | |
| Effective Length(m) | 70 | 50 | 40 | 35 | 30 | 25 | 20 | 60 | 45 | 35 | 25 | 25 | 20 | 15 | 5.5 (C1) |
| | 95 | 70 | 60 | 50 | 40 | 35 | 30 | 80 | 60 | 50 | 40 | 35 | 30 | 25 | 7.5 (C1) |
| | 100 | 95 | 90 | 75 | 60 | 55 | 50 | 100 | 90 | 70 | 60 | 50 | 45 | 40 | 11 (C2) |
| Operation Speed(m/s) | 0.65 | | | | | | | 0.65 | | | | | | | |
| Inclination Angle | 0° | 1° | 2° | 3° | 4° | 5° | 6° | 0° | 1° | 2° | 3° | 4° | 5° | 6° | |
| Effective Length(m) | 50 | 40 | 30 | 25 | 20 | 20 | 15 | 45 | 30 | 25 | 20 | 15 | 15 | 15 | 5.5 (C1) |
| | 70 | 55 | 45 | 35 | 30 | 25 | 25 | 60 | 45 | 35 | 30 | 25 | 20 | 20 | 7.5 (C1) |
| | 100 | 85 | 65 | 55 | 45 | 40 | 35 | 95 | 75 | 55 | 45 | 40 | 35 | 25 | 11 (C2) |

Relation between the Driving Power and the Max.Height of Travel for Moving Walk of Inclination Type

| Item | Specification | | | | | | | |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Serial No. | CS-LB CS-LBF | CS-LB CS-LBF | CS-LB CS-LBF | CS-LB CS-LBF | CS-SB CS-SBF | CS-SB CS-SBF | CS-SB CS-SBF | CS-SB CS-SBF |
| Handrail Nominal Width(mm) | 1000 | 1200 | 1000 | 1200 | 1000 | 1200 | 1000 | 1200 |
| Operation Speed(m/s) | 0.5 | | 0.65 | | 0.5 | | 0.5 | |
| Power/Inclination Angle 8° | | | | | | | | |
| 5.5KW(C1) | 4m | 3.4m | 3.1m | 2.6m | 3.2m | 2.8m | 3.0m | 2.4m |
| 7.5KW(C1) | 6m | 4.7m | 4.3m | 3.6m | 5.2m | 4.4m | 4.4m | 3.2m |
| 11KW(C2) | 6.7m | 6.7m | 6.4m | 5.4m | — | 5.2m | 5.2m | 5.0m |
| Power/Inclination Angle 10° | | | | | | | | |
| 5.5KW(C1) | 4.4m | 3.7m | 3.3m | 2.8m | 3.5m | 3m | 3.2m | 2.5m |
| 7.5KW(C1) | 6m | 5.1m | 4.6m | 3.9m | 5.9m | 4.6m | 4.7m | 3.7m |
| 11KW(C2) | 7.7m | 7.6m | 6.9m | 5.8m | — | 5.9m | 5.9m | 5.3m |
| Power/Inclination Angle 11° | | | | | | | | |
| 5.5KW(C1) | 4.5m | 3.8m | 3.4m | 2.9m | 3.6m | 3.1m | 3.3m | 2.6m |
| 7.5KW(C1) | 6m | 5.2m | 4.8m | 4m | 6.0m | 4.7m | 4.8m | 3.8m |
| 11KW(C2) | 8.2m | 7.8m | 7.1m | 6m | 6.2m | 6.2m | 6.2m | 5.4m |
| Power/Inclination Angle 11.31° | | | | | | | | |
| 5.5KW(C1) | 4.5m | 3.8m | 3.4m | 2.9m | 3.7m | 3.1m | 3.3m | 2.6m |
| 7.5KW(C1) | 6m | 5.2m | 4.8m | 4m | 6.0m | 4.7m | 4.8m | 3.8m |
| 11KW(C2) | 8.4m | 7.8m | 7.2m | 6m | 6.3m | 6.3m | 6.3m | 5.4m |
| Power/Inclination Angle 12° | | | | | | | | |
| 5.5KW(C1) | 4.6m | 3.8m | 3.5m | 2.9m | 3.8m | 3.2m | 3.4m | 2.7m |
| 7.5KW(C1) | 6m | 5.3m | 4.9m | 4.1m | 6.0m | 4.8m | 4.9m | 3.9m |
| 11KW(C2) | 8.6m | 7.9m | 7.3m | 6m | 6.5m | 6.5m | 6.5m | 5.5m |

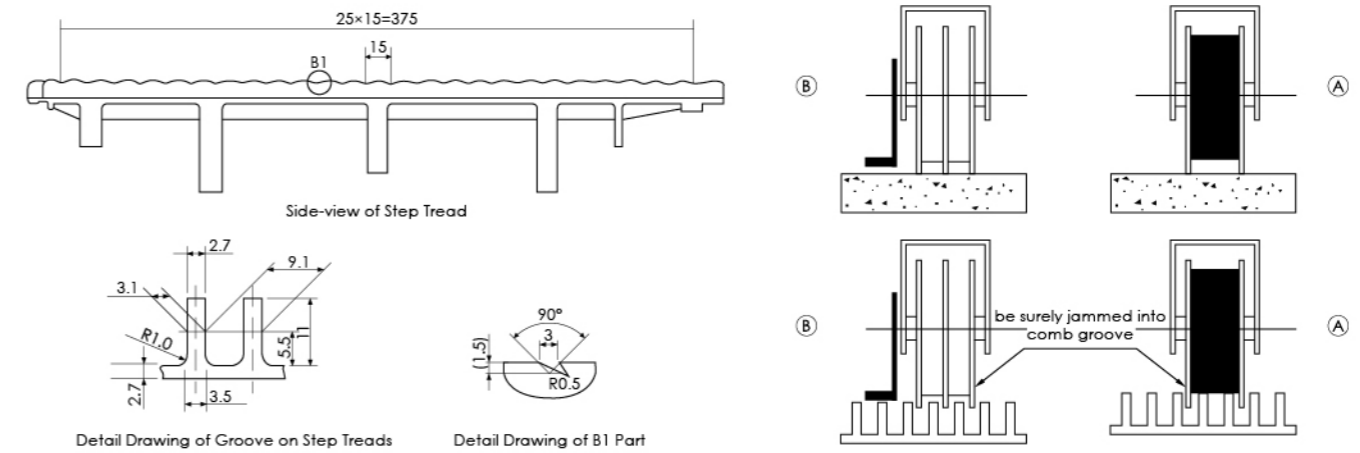
Requirements for Choosing and Applying Shopping Carts and Luggage Carts on Moving Walk

- It's permitted to applying carts with eligible design on moving walk (according to EN 1929-2 and 1929-4). The manufacturers of shopping carts and luggage carts must certify that the carts are coordinate with moving walk. Otherwise, there might be a danger. It's necessary to prevent incoordinate carts getting on moving walk.
- The width of carts and the goods they are carrying must be 400mm less than width of step treads so that passengers can leave even if the carts are on moving walk.
- The rated speed must be limited to 0.5 m/s for moving walks with an inclination angle greater than 6°
- The diameter of roller wheel on carts must be 120 mm at least.
- Shopping carts and luggage carts must be in accordance with the design of moving walk:
 - Ensure the design of shopping carts and luggage carts is safe for correct carrying.
 - When shopping carts and luggage carts are in full load, the maximum weight of them is 75kg.
 - Shopping carts and luggage carts must be configured with self-hold device when they are on inclination part of moving walk.
 - Stop device must be configured.
 - Anti-divergence device (buffer) must be configured for avoiding danger of being jammed.
 - When getting off moving walk, it's necessary for rear wheel of carts pushing fore wheel to roll across the comb, and fore wheel and stop device must be easily released from steps.
 - To ensure the alignment after shopping carts and luggage carts getting on moving walk, anti-divergence device and guide device must spread to surrounding area.
 - Add safe signs for safe and correct usage of shopping carts and luggage carts.

Before applying the carts formally, do tests to confirm there is no problem.

The size reference of roller wheels on carts is shown in the figure below:

Sectional View of Step Treads on Moving Walk



Basic Specifications for Moving Walk of Horizontal Type

| Item | Specification | | | Note |
|---|---|--------|--------|-------------------------------------|
| Nominal Width Between Handrails (mm) | 1200 | 1400 | 1600 | For type CS-B, CS-LB, CS-BF, CS-LBF |
| Distance Between Center Lines of Handrails (mm) | 1280 | 1480 | 1680 | For type CS-SB, CS-SBF |
| | 1208 | 1408 | 1608 | |
| Nominal Width of Pallet (mm) | 1004 | 1204 | 1404 | |
| Maximum Load (Person/Hour) | 6000 | 6000 | 6000 | Velocity: 0.5m/s |
| | 7300 | 7300 | 7300 | Velocity: 0.65m/s |
| Effective Length(m) | 12-100 | 12-100 | 12-100 | INC=0°, Velocity: 0.5m/s |
| | 12-100 | 12-95 | 12-95 | INC=0°, Velocity: 0.65m/s |
| | 12-95 | 12-90 | 12-90 | 0°<INC<1°, Velocity: 0.5m/s |
| | 12-85 | 12-70 | 12-70 | 0°<INC<1°, Velocity: 0.65m/s |
| | 12-90 | 12-70 | 12-70 | 1°<INC<2°, Velocity: 0.5m/s |
| | 12-65 | 12-55 | 12-55 | 1°<INC<2°, Velocity: 0.65m/s |
| | 12-75 | 12-60 | 12-60 | 2°<INC<3°, Velocity: 0.5m/s |
| | 12-55 | 12-45 | 12-45 | 2°<INC<3°, Velocity: 0.65m/s |
| | 12-60 | 12-50 | 12-50 | 3°<INC<4°, Velocity: 0.5m/s |
| | 12-45 | 12-40 | 12-40 | 3°<INC<4°, Velocity: 0.65m/s |
| | 12-55 | 12-45 | 12-45 | 4°<INC<5°, Velocity: 0.5m/s |
| | 12-40 | 12-35 | 12-35 | 4°<INC<5°, Velocity: 0.65m/s |
| | 12-50 | 12-40 | 12-40 | 5°<INC<6°, Velocity: 0.5m/s |
| | 12-35 | 12-30 | 12-30 | 5°<INC<6°, Velocity: 0.65m/s |
| Serial No. | CS-B, CS-LB, CS-SB, CS-BF, CS-LBF, CS-SBF | | | |
| Angle of Inclination (Degree) | 0-6 | | | |
| Velocity (m/s) | 0.5, 0.65 | | | |
| Applicable Environment | Indoor | | | |
| Drive System | Direct Drive | | | For type CS-B, CS-LB, CS-SB |
| | VVVF Drive | | | For type CS-BF, CS-LBF, CS-SBF |
| Drive Power Supply | 380V50Hz three-phase and five-wire | | | |
| Illumination Power Supply | 220V50Hz single phase | | | |

Illumination Power (single phase AC 220V, 50Hz)

| Serial No. | CS-LB,CS-LBF | CS-B,CS-BF,CS-SB,CS-SBF | |
|-----------------------------------|--------------|-------------------------|-------------------------|
| Illumination Power Capacity (kVA) | 2.3 | 1.3 | 12<Effective Length<20 |
| | 3.5 | 1.3 | 20<Effective Length<40 |
| | 4.5 | 1.3 | 40<Effective Length<60 |
| | 5.5 | 1.3 | 60<Effective Length<80 |
| | 6.7 | 1.3 | 80<Effective Length<100 |

Driving Power (three phase AC 380V, 50Hz)

| Driving Power Capacity (kVA) | | Motor Power Capacity |
|------------------------------|--|--------------------------|
| 8 | | Motor Power Capacity=5.5 |
| 10.4 | | Motor Power Capacity=7.5 |
| 15.4 | | Motor Power Capacity=11 |

Basic Specifications for Moving Walk of Inclination Type

| Item | Specification | | Note |
|---|--|-----------|---|
| Nominal Width Between Handrails (mm) | 1000 | 1200 | For type CS-LB, CS-LBF, CS-B, CS-BF |
| Distance Between Center Lines of Handrails (mm) | 1080 | 1280 | For type CS-SB, CS-SBF |
| | 1008 | 1208 | |
| Nominal Width of Pallet (mm) | 804 | 1004 | |
| Maximum Load (Person/Hour) | 4800 | 6000 | Velocity: 0.5m/s |
| | 5900 | 7300 | Velocity: 0.65m/s |
| Rise(mm) | 2023-5400 | 2023-5400 | 6°<INC≤8°, Velocity: 0.5m/s, For type CS-LB, CS-LBF, CS-B, CS-BF |
| | 2023-5200 | 2023-5200 | 6°<INC≤8°, Velocity: 0.65m/s, For type CS-LB, CS-LBF, CS-B, CS-BF |
| | 2023-4300 | 2023-4300 | 6°<INC≤8°, Velocity: 0.5m/s, For type CS-SB, CS-SBF |
| | 2023-4300 | 2023-4300 | 6°<INC≤8°, Velocity: 0.65m/s, For type CS-SB, CS-SBF |
| | 2023-6700 | 2023-6700 | 8°<INC≤10°, Velocity: 0.5m/s, For type CS-LB, CS-LBF, CS-B, CS-BF |
| | 2023-6400 | 2023-5400 | 8°<INC≤10°, Velocity: 0.65m/s, For type CS-LB, CS-LBF, CS-B, CS-BF |
| | 2023-5200 | 2023-5200 | 8°<INC≤10°, Velocity: 0.5m/s, For type CS-SB, CS-SBF |
| | 2023-5200 | 2023-5000 | 8°<INC≤10°, Velocity: 0.65m/s, For type CS-SB, CS-SBF |
| | 2023-7700 | 2023-7600 | 10°<INC≤11°, Velocity: 0.5m/s, For type CS-LB, CS-LBF, CS-B, CS-BF |
| | 2023-6900 | 2023-5800 | 10°<INC≤11°, Velocity: 0.65m/s, For type CS-LB, CS-LBF, CS-B, CS-BF |
| | 2023-5900 | 2023-5900 | 10°<INC≤11°, Velocity: 0.5m/s, For type CS-SB, CS-SBF |
| | 2023-5900 | 2023-5300 | 10°<INC≤11°, Velocity: 0.65m/s, For type CS-SB, CS-SBF |
| | 2145-8200 | 2145-7800 | 11°<INC≤12°, INC≠11.31°, Velocity: 0.5m/s, For type CS-LB, CS-LBF, CS-B, CS-BF |
| | 2145-7100 | 2145-6000 | 11°<INC≤12°, INC≠11.31°, Velocity: 0.65m/s, For type CS-LB, CS-LBF, CS-B, CS-BF |
| | 2145-6200 | 2145-6200 | 11°<INC≤12°, INC≠11.31°, Velocity: 0.5m/s, For type CS-SB, CS-SBF |
| | 2145-6200 | 2145-5400 | 11°<INC≤12°, INC≠11.31°, Velocity: 0.65m/s, For type CS-SB, CS-SBF |
| | 2023-8400 | 2023-7800 | INC: 11.31°, Velocity: 0.5m/s, For type CS-LB, CS-LBF, CS-B, CS-BF |
| | 2023-7200 | 2023-6000 | INC: 11.31°, Velocity: 0.65m/s, For type CS-LB, CS-LBF, CS-B, CS-BF |
| | 2023-6300 | 2023-6300 | INC: 11.31°, Velocity: 0.5m/s, For type CS-SB, CS-SBF |
| | 2023-6300 | 2023-5400 | INC: 11.31°, Velocity: 0.65m/s, For type CS-SB, CS-SBF |
| Serial No. | CS-LB, CS-SB,CS-B, CS-LBF, CS-SBF, CS-BF | | |
| Angle of Inclination (Degree) | 8, 10, 11, 11.31, 12 | | 6°<INC<12° |
| Velocity (m/s) | 0.5, 0.65 | | |
| | 0.5 | | |
| Applicable Environment | Indoor | | |
| Drive System | Direct Drive | | For type CS-B, CS-LB, CS-SB |
| | VVVF Drive | | For type CS-BF, CS-LBF, CS-SBF |
| Drive Power Supply | 380V50Hz three-phase and five-wire | | |
| Illumination Power Supply | 220V50Hz single phase | | |

Illumination Power (single phase AC 220V, 50Hz)

| Serial No. | CS-LB,CS-LBF | CS-B,CS-BF,CS-SB,CS-SBF | |
|-----------------------------------|--------------|-------------------------|-----------------|
| Illumination Power Capacity (kVA) | 2.6 | 1.3 | Rise ≤3000 |
| | 3.7 | 1.3 | 3000<Rise ≤6000 |
| | 4.3 | 1.3 | 6000<Rise ≤9000 |

Driving Power (three phase AC 380V, 50Hz)

| Driving Power Capacity (kVA) | | Motor Power Capacity |
|------------------------------|--|--------------------------|
| 8 | | Motor Power Capacity=5.5 |
| 10.4 | | Motor Power Capacity=7.5 |
| 15.4 | | Motor Power Capacity=11 |



**Sense of Secure and Peace
to Create Harmonious Space of Life**

Technology Improves Life

Science Guides the Smart Future

Shanghai Mitsubishi Elevator stays beside you

