2021 Edition

BRILLIANT

ESCALATOR·PASSENGER CONVEYOR

TECHNOLOGY LEADS THE MARKET
SERVICE CREATES VALUE

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SHENYANG YUANDA INTELLECTUAL INDUSTRY GROUP CO., LTD.

YUANDA GROUP

Shenyang Yuanda Enterprise Group (hereinafter referred to as "Yuanda Group" or "Yuanda"), established in 1993, was a high-end and comprehensive high-tech enterprise, and now it has developed into a large-sized enterprise group supported by Intelligent Construction Industry, Intelligent Industry, Intelligent Agriculture, Scientific and Technological Industry, and Financial investment. And make two companies successfully go to public.

- In the field of intelligent construction industry, Yuanda mainly focuses on developing curtain wall and industrial housing.
- In the field of intelligent industry, Yuanda focuses on developing elevator manufacturing, frequency conversion, energy-saving motor,wind-power generator, and industrial robot.
- In the field of intelligent agriculture, Yuanda focuses on developing intelligent dripping system, precision irrigation facilities, and agricultural machinery manufacturing.
- In the field of scientific and technological industry, Yuanda focuses on developing industrial robot, high-power ultrasonic application, vibration engineering application, system simulation, industrial engineering, and realizing the industrial information.
- In the field of financial investment, relying on China's "One Belt, One Road"strategy, Yuanda is dedicated to new energy business, finance and investment, trade and product agency, and the global resource integration.

SHENYANG YUANDA INTELLECTUAL INDUSTRY GROUP CO., LTD (BLT ELEVATOR)

Shenyang Yuanda Intellectual Industry Group Co. Ltd (002689.SZ) is found in September, 2001, a professional elevator manufacturer engaged in the developing, designing, manufacturing, selling, installation, and after-sales service of complete elevator products. BLT has passed ISO9001:2008 Quality System Certificate, ISO14001 Certificate of Environment Management System and GB/T28001 Occupational Health and Safety Management System Certificate. In addition, BLT products have all obtained the CE certification of EU, GOST certification of Russia and CSA certificate of North America.

In 2010, the company built the Elevator Industrial Park in Shenyang west industry corridor for international management. The factory covers an area of 480 thousand square meters. This is the world important developing and manufacturing base of elevator. After years of effort, BLT has set up more than 220 sales service branches both at home and abroad, 5 wholly-owned subsidiaries and one joint-stock subsidiary in Australia, India, Singapore, Mongolia, Peru, building a worldwide sales service network and providing “ lifelong ” after-sale experience for every customer with its professional, high-qualified, fast and convenient service.

The company owns modern R&D center. The 177 meters high elevator test tower in the center of the factory is currently the highest one in China, with 11 test shafts, and a 10m/s high speed elevator technological test being feasible. The completed test and inspection center owns 12 libraries, one trial factory, and is equipped with 77 sets of advanced test/inspection devices. Besides, all the kinds of performance tests of complete elevators and components can be carried out in the center, which provides advanced, scientific and powerful guarantee for the research, development and stabilization of products.

26 thousand square meters large single workshop (multiple)

GLOBAL LEADER
IN PRODUCTION EQUIPMENT

Salvagnini's(S4+P4) Complete and Flexible Sheet Metal Product Lines, Italy(two)

AMADA EMK3510NT turret punch

AMADA VIPROS-357Q Numerically Controlled Turret Punch Press


AMADA Flying Optics Laser Machine FO-3015


TRUMATIC L 3030, TRUMPF, Germany

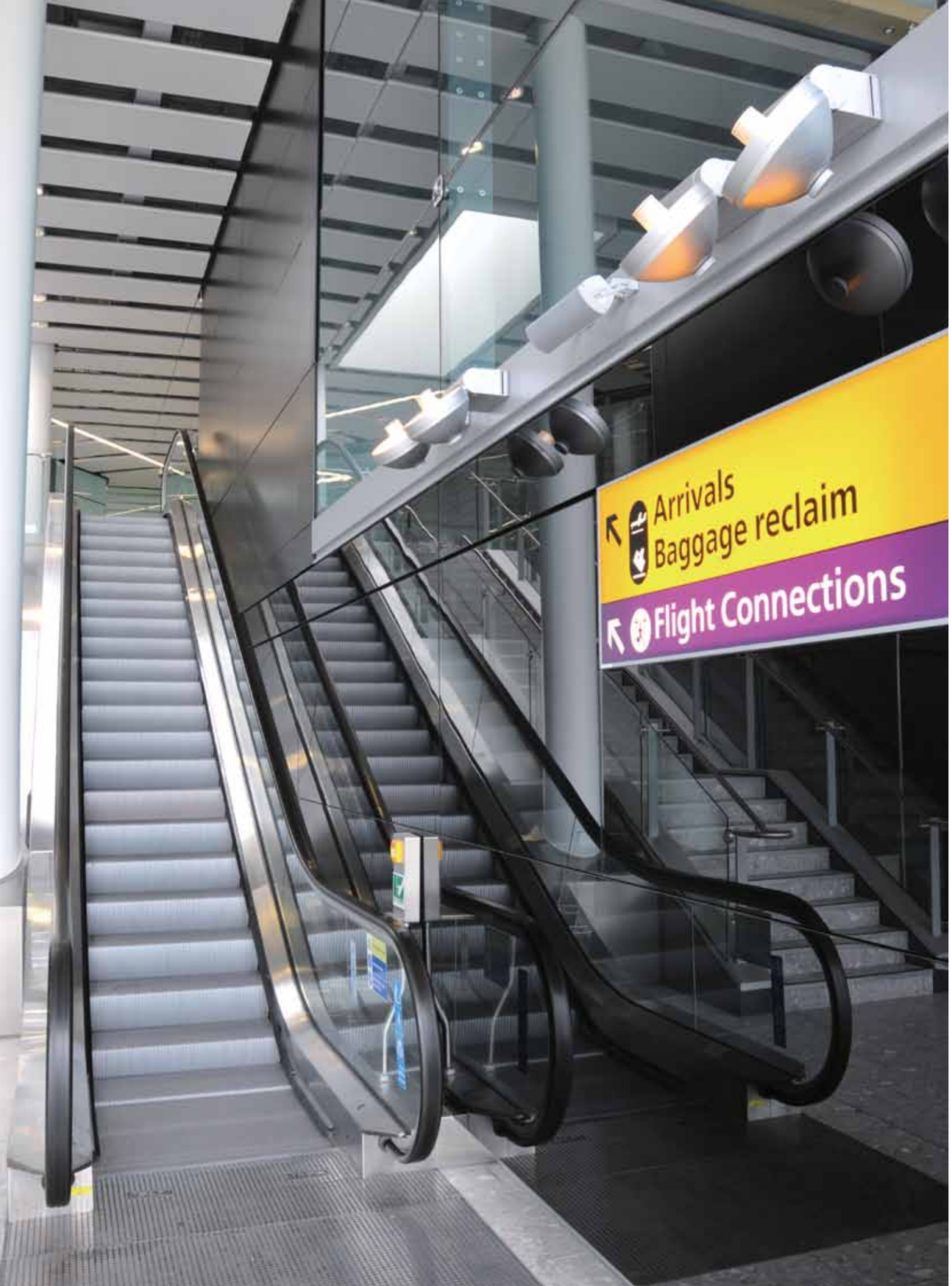

Numerical Control Vertical turning flexible manufacturing cell


Horizontal Machining Center


Tunnel type ultrasonic cleaning machine

Workshop

The 28,000 square meters passenger conveyor workshop designed and built by the enterprise is one of the largest single workshops in China. Advanced daylighting roof technology and fully sealed door and window system are adopted to create an ideal external environment for ensuring the machining accuracy of each link. Leading technology advantage and modern production process ensure that high quality passenger conveyors are put on the market according to different customer needs.



The concept of constant innovation-escalator

BLT-ES series escalator is designed and manufactured under the European Committee for Standardization EN115-1:2008+A1:2010 and EN115-1:2017 “ Escalator and Passenger Conveyor Manufacture and Installation Safety Standards ” (in line with GB16899-2017). It is widely used in commercial buildings, supermarkets, subway stations, railway stations, business centers and other public places, and is ideal transportation for connecting floor levels.

BLT-ES series of escalators is divided into two types: Commercial and Public Transportation. The commercial includes KYUE series, and Public Transportation includes ESG-W310, ESG-W700 and ESG-W800 totally three series. All of them are high quality products with sense of times, and developed and designed by BLT through great concentration research customer needs, meeting the market requirements in all aspects.

KYUE Series commercial-type escalator is our main product which applies injection molded structure at upper and lower entrance, with unique appearance, and standard color of the handrail is black. It can also be customized according to user's demand. The carbon coating or hairline stainless steel handrail bracket is more suitable for department stores, office buildings and other places with elegant interior design. 'Slim' handrail is not only easily to hold tight, but also improving comfort, and the compact shape combines withsurroundings, which brings modern style.

ESG Series transportation escalator is specifically designed for subway stations, pedestrian overpasses and other public places. It is suitable for continuous operation with a large passenger capacity, and the optional stainless steel balustrade panel ensures safety and reliability even in extreme poor conditions with high level of stability.

ESG-W310 emphasizes on the concise and lively characteristic by imposing its handrail support with hairline stainless steel and slim handrail belt. The ESG-W700 Series applies the slanting handrail structure with hairline stainless steel and C-shaped handrail with pressure belt drive. ESG-W800 Series tilted handrails are made of stainless steel, with stiffener in the center called the 'V-type handrail', handrail wheel with V-pulleys, rails guide are made of cold-drawn hairline stainless steel, which all contribute to more smooth operation. With the abolition of the traditional pressure band structure, handrail life is improved.

Trusses, Step band & Transmission Parts

Rectangular Steel Tube

Before Derust and Sandblast

After Derust and Sandblast

Trusses

Trusses are the core parts of the escalators. The main material is made of high-quality rectangular steel tubes, which can ensure sufficient stiffness when the escalator is transporting passengers continuously in large quantities. Special surface protection measures are adopted to improve the anti-corrosion ability, and the service life can reach more than 50 years, which eventually meets living with the building.

Step band

●The key parts of the step band system are processed by Japanese laser cutting equipment, which ensures the precision and quality of the parts.
●The upper and lower step band guide rail adopts high quality cold-drawn section steel, which is processed and formed by CNC rolling and bending equipment, with high dimensional precision and good wear resistance.
●By means of precision machining equipment and special process equipment, the upper and lower step band parts and driving devices have reached a new level in quiet and smooth operation.
●The positioning of the step can be realized by running on the step band, so that the running quality of the step band can be guaranteed.

①Japanese FO-3015 CNC Laser Processing Machine
②CNC Roll Bending Machine
③Main Drive & Upper Step band
④Lower Step band

Single main drive in the form of cast-steel hollow liner roller bearing and high-precision steel guide rail and side plate welded of the upper and lower step band have the features of strong rigidity, high precision and easy adjustment providing strong guarantee for the smooth operation of the escalator.

Complementary to your building – Handrails in a variety of styles and colors.

Entrance Floor

Rectangular Pressed Stainless Steel

Square Pressed Stainless Steel

A Perfect Annotation of Personalised Design

●BLT escalator, integrated with the most advanced modern control technology and control concepts, is safe and reliable, fully functional, smooth and comfortable, energy efficient, easy to maintain, economical and practical, meeting various customer needs.

●Adopting microcomputer (or PLC) controller, with the characteristic of anti-interference, stable and reliable operation. According to the different operation starting mode: 1 Star delta-activation type; 2, the frequency vector control type. Through frequency start, the starting current is reduced and the escalator is more stable, extending the life of the escalator, meanwhile greatly reduces the power consumption. If frequency control is selected, the escalator is able to run as follows: the escalator starts slowly before running at rated speed when passenger is detected, and the escalator slows down or stop with no passenger, more energy efficient.

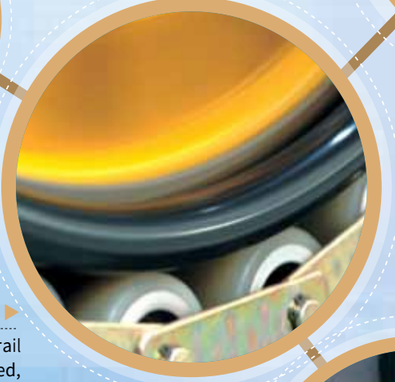
●After power on the escalator, operation status and fault information displays on the information display window, making maintenance more convenient.

Auto-start escalator

●Achieving automatic escalator operation through detection devices for passenger detection. Escalator starts running, or starts the transition from low speed to rated speed after passengers enter the surveillance zone, the escalator will set back to the energy-saving mode with no passenger for a set time. This function of the escalator is ideal in a variety of places with high traffic and traffic with intermittent changes. A mass amount of energy could be saved in the above occasions using the escalators with this feature.

Information Display Window

Operation status and fault can be displayed through information display window when the escalator is under operation, which makes maintenance much more convenient.

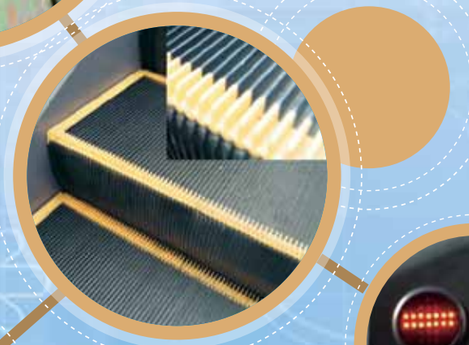


Auto-lubricating Device

Automatically lubricates the machine, so that the moving parts can be fully lubricated which greatly reduce the maintenance of the workload.

Roller Belt Pressure Device

The synchronization of handrail belt operation is fully guaranteed, the ride is more safe and reliable, and the maintenance work is reduced to the lowest frequency.



In-service display status

Out-of-service display status

Stainless Steel Steps

The non-slip tread design of the stainless steel step improves safety.

ELECTRO-MACHANICAL DEVICES

☆KYUE Standard Function

1.Emergency stop switch
In case of emergency, push emergency stop switch to stop the escalator.

2.Overload protection
When drive motor is overloaded, power supply will be cut off automatically, and the escalator will stop running.

3.Power supply phase failure and wrong phase protection
Escalator will stop running in the event of power supply phase failure or wrong phase.

4.Electromagnetic brake
Guarantee appropriate braking distance for safety of passengers when the escalator stops running.

5.Comb plate safety device
In the case of objects being trapped between step and comb plate, escalator will stop running.

6.Unintentional reversal protection device
When escalator changes set running direction, it will stop running.

7.Overspeed protection device
When running speed exceeds nominal speed by 120%, the escalator will stop running.

8.Drive chain safety device
When drive chain is unduly elongated or broken, escalator will stops running.

9.Step safety device
Under abnormal conditions caused by step deformation or other reasons, escalator will stop running.

10.Step yellow demarcation line
It is used for indicating safe location where passengers shall stand.

11.Handrail entry safety device
In the case of objects being trapped in the handrail entry, the escalator will stop running.

12.Step chain safety switch
When traction chain is unduly elongated or broken, escalator will stop running.

13.Brake release monitoring device
Detect whether brake is released after main controller outputs break control signal. Escalator cannot start until brake is released.

14.Step lighting
It is installed under step at the entrance of escalator. Light comes from between comb and step or horizontal steps, so it is convenient for passengers to see step entrance clearly.

15.Step static eliminating device
Make use of the static brush to eliminate the static of the step.

16.Handrail static eliminating device
Make use of metal roller to eliminate static of handrail.

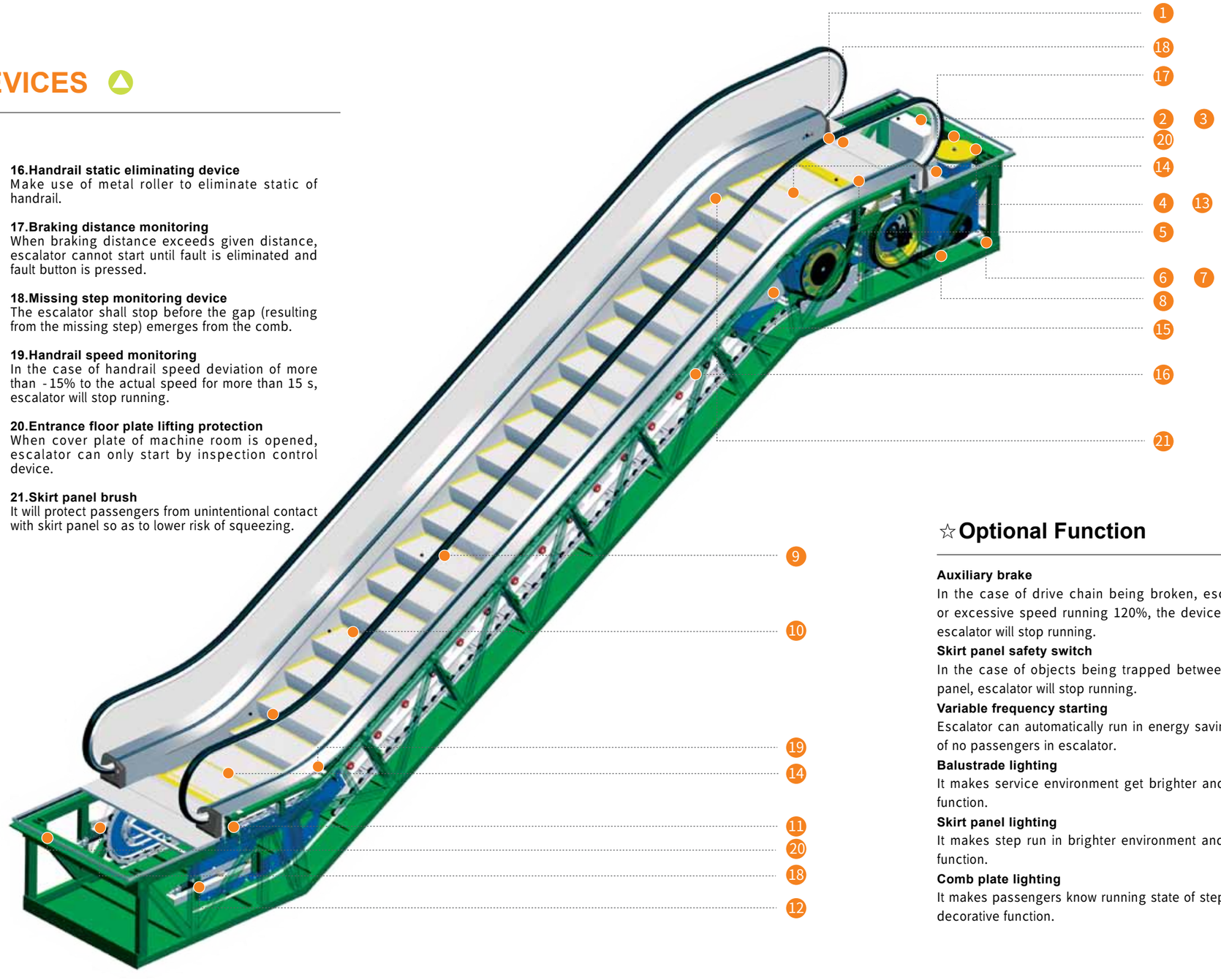
17.Braking distance monitoring
When braking distance exceeds given distance, escalator cannot start until fault is eliminated and fault button is pressed.

18.Missing step monitoring device
The escalator shall stop before the gap (resulting from the missing step) emerges from the comb.

19.Handrail speed monitoring
In the case of handrail speed deviation of more than -15% to the actual speed for more than 15 s, escalator will stop running.

20.Entrance floor plate lifting protection
When cover plate of machine room is opened, escalator can only start by inspection control device.

21.Skirt panel brush
It will protect passengers from unintentional contact with skirt panel so as to lower risk of squeezing.



☆Optional Function

Auxiliary brake
In the case of drive chain being broken, escalator reversal, or excessive speed running 120%, the device will act and the escalator will stop running.

Skirt panel safety switch
In the case of objects being trapped between step and skirt panel, escalator will stop running.

Variable frequency starting
Escalator can automatically run in energy saving mode in case of no passengers in escalator.

Balustrade lighting
It makes service environment get brighter and has decorative function.

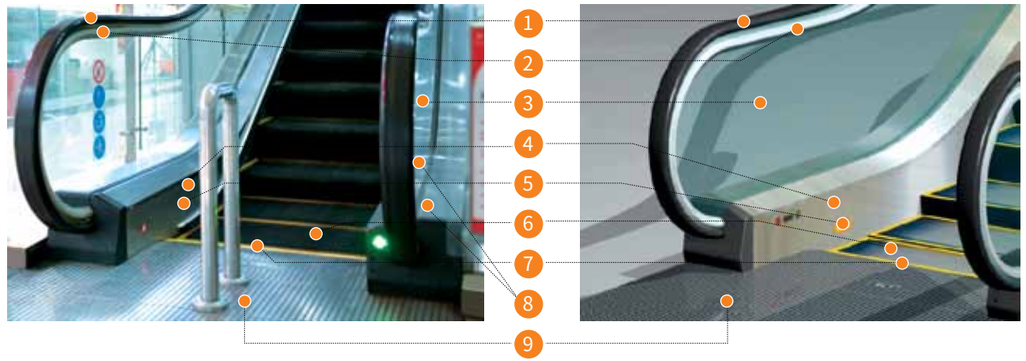
Skirt panel lighting
It makes step run in brighter environment and has decorative function.

Comb plate lighting
It makes passengers know running state of step clearly and has decorative function.

PRODUCT SPECIFICATION AND ITS RELATIVE COMPONENTS

	KYUE
Rise	3~6m
Angle of Inclination	30 ° / 35 °
Step Width	600/800/1000mm
Rated Speed	0.5m/s
Horizontal Steps	2
Theoretical Capacity	3600/4800/6000(Person/hour)
Power Supply	50Hz AC three - phase 380V Single - phase 220V; or according to regional requirements
Traction Machine	Three - phase AC motor
Control Mode	MPK108
Start Running Mode	Star Delta Start; Optional VVVF photoelectric detection start
Balustrade Panel	10mm thick tempered safety glass; Optional vertical hairline stainless steel
Handrail Bracket	Carbon steel spraying; Optional hairline stainless steel; Optional anodized aluminum alloy
Handrail	Black synthetic rubber; Other colors available
Interior & Exterior Cover Plate	Hairline stainless steel
Skirting	Hairline stainless steel; Optional black or green teflon - coated steel plate
Handrail Lighting	Optional
Skirting Lighting	Optional
Comb Lighting	Optional
Step	Stainless steel with yellow safety line; Optional aluminum alloy with yellow safety line
Entrance & Exit Flooring	Stamping stainless steel
Comb Plate	Yellow synthetic resin; Optional aluminum alloy

	ESG - W310
Rise	4~10m
Angle of Inclination	30 °
Step Width	800/1000mm
Rated Speed	0.5m/s
Horizontal Steps	3
Theoretical Capacity	4800/6000 Person/hour
Power Supply	50Hz AC three - phase 380V Single - phase 220V; or according to regional requirements
Traction Machine	Three - phase AC motor
Control Mode	MPK108
Start Running Mode	Star Delta Start; Optional VVVF photoelectric detection start
Balustrade Panel	10mm thick tempered safety glass; Optional vertical hairline stainless steel
Handrail Bracket	Hairline Stainless Steel
Handrail	Black synthetic rubber; Other colors available
Interior & Exterior Cover Plate	Hairline stainless steel
Skirting	Hairline stainless steel; Optional black or green teflon - coated steel plate
Skirting Lighting	Optional
Comb Lighting	Optional
Step	Stainless steel with yellow safety line; Optional aluminum alloy with yellow safety line
Entrance & Exit Flooring	Stamping stainless steel
Comb Plate	Yellow synthetic resin; Optional aluminum alloy

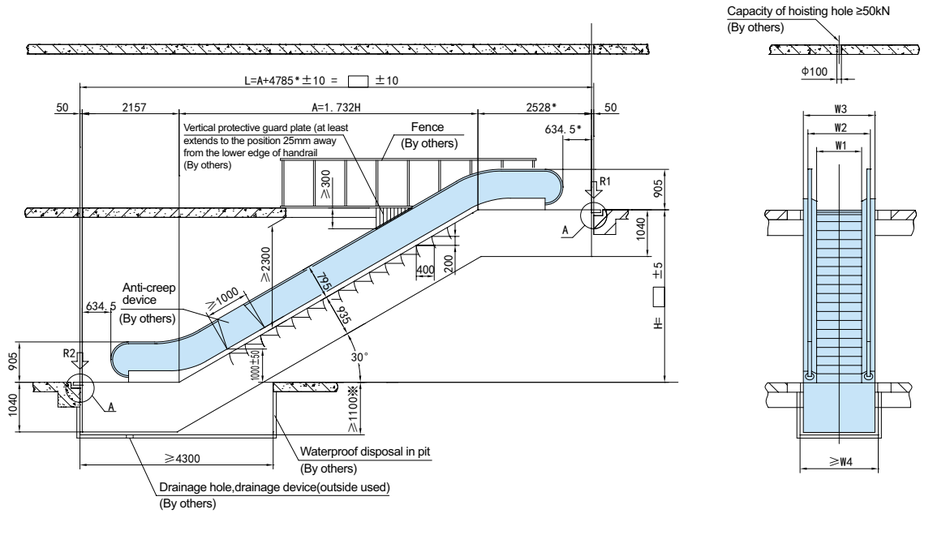


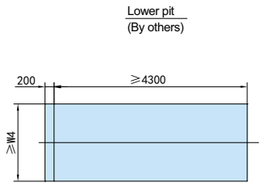
1 Handrail 2 Handrail Bracket 3 Balustrade Panel 4 Skirting 5 Comb Lighting

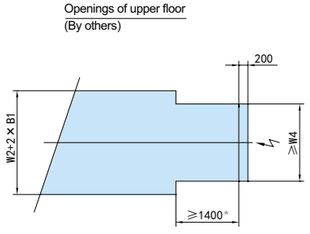
6 Step 7 Comb 8 Interior & Exterior Plate 9 Entrance & Exit Flooring

30°ESCALATOR KYUE SCHEME DRAWING

☆ 3000≤H≤6000　　Number of horizontal steps:2







☆Specification & Size

	60 Step	80 Step	100 Step
W1 (Step Width)	600	800	1000
W2 (Handrail Outer Fringe Width)	930	1130	1330
W3 (Escalator Width)	1140	1340	1540
W4 (Pit Width)	1240	1440	1640

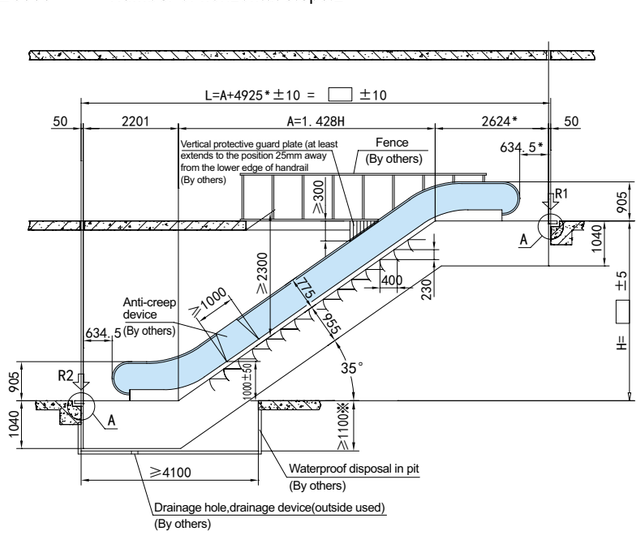
☆ Support Load

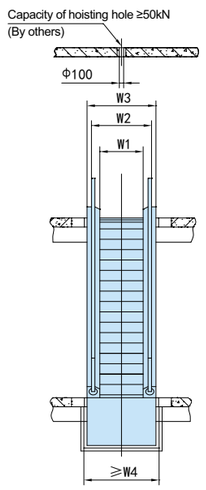
Step Width	Rise		3000	3500	4000	4500	5000	5500	6000
1000	Escalator Weight	G(kN)	66	70	74	78	86	90	94
	Support Load	R1(kN)	62	66	70	74	80	85	89
		R2(kN)	54	58	62	66	72	77	81
800	Escalator Weight	G(kN)	62	66	70	73	77	81	85
	Support Load	R1(kN)	55	58	62	66	69	73	77
		R2(kN)	47	51	54	58	61	65	69
600	Escalator Weight	G(kN)	59	62	66	69	73	77	80
	Support Load	R1(kN)	48	51	54	57	61	64	67
		R2(kN)	40	43	47	50	53	56	59

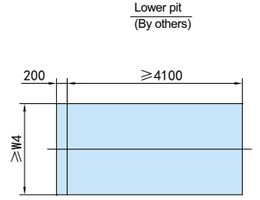
Note:
1.For outdoor escalator, size of "※" in schematic drawing is 1440.
2.When the step width is 600, the size of the * in the figure is increased by 500.
3.The size not indicated in the figure are in milimeters. See page 20 for enlarged figure of A.
4.This figure is suitable for escalators with carbon steel spray-painted or hairline stainless steel handrail brackets.
5.When the anodic aluminum alloy handrail bracket is selected, the relevant dimensions are slightly different from this figure.

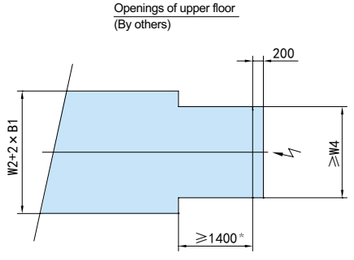
35°ESCALATOR KYUE SCHEME DRAWING

☆ 3000≤H≤6000　　Number of horizontal steps:2









☆Specification & Size

	60 Step	80 Step	100 Step
W1 (Step Width)	600	800	1000
W2 (Handrail Outer Fringe Width)	930	1130	1330
W3 (Escalator Width)	1140	1340	1540
W4 (Pit Width)	1240	1440	1640

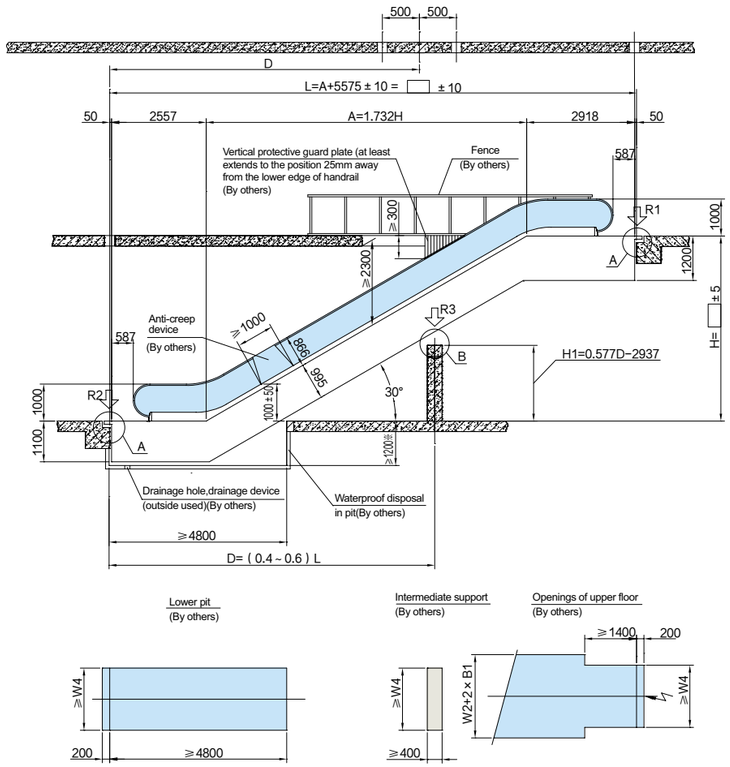
☆ Support Load

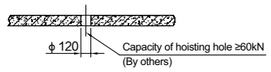
Step Width	Rise		3000	3500	4000	4500	5000	5500	6000
1000	Escalator Weight	G(kN)	62	66	69	73	77	80	85
	Support Load	R1(kN)	58	62	65	69	72	76	81
		R2(kN)	50	53	57	61	64	68	73
800	Escalator Weight	G(kN)	59	62	65	69	72	75	79
	Support Load	R1(kN)	52	55	58	61	64	67	70
		R2(kN)	43	47	50	53	56	59	62
600	Escalator Weight	G(kN)	56	59	62	65	68	71	75
	Support Load	R1(kN)	45	48	51	53	56	59	61
		R2(kN)	38	40	43	46	48	51	53

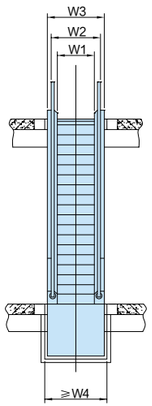
Note:
1.For outdoor escalator, size of "※" in schematic drawing is 1440.
2.When the step width is 600, the size of the * in the figure is increased by 500.
3.The size not indicated in the figure are in milimeters. See page 20 for enlarged figure of A.
4.This figure is suitable for escalators with carbon steel spray-painted or hairline stainless steel handrail brackets.
5.When the anodic aluminum alloy handrail bracket is selected, the relevant dimensions are slightly different from this figure.

30° ESCALATOR ESG-W310 SCHEME DRAWING

☆ 4000≤H≤10000　　Number of horizontal steps:3







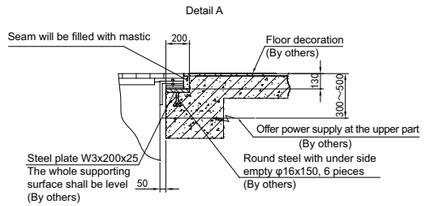
☆Specification & Size

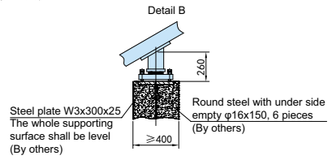
	80 Step	100 Step
W1 (Step Width)	800	1000
W2 (Handrail Outer Fringe Width)	1130	1330
W3 (Escalator Width)	1340	1540
W4 (Pit Width)	1440	1640

☆ Support Load

Rise		4000≤H≤5500		5500<H≤10000		
Support Load		R1(kN)	R2(kN)	R1(kN)	R2(kN)	R3(kN)
Step Width	800	4.54L+14.52	4.55L+5.07	2.14L+13.57	2.24L+3.35	5.64L+4.08
	1000	4.94L+15.27	5.22L+5.24	2.26L+17.65	2.67L+3.36	6.20L+5.44

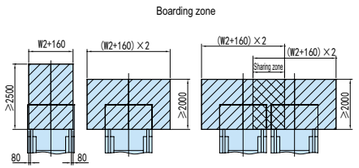
Note:
1.For outdoor escalator, size of "※" in schematic drawing is 1500.
2.The unit of the ""L"" in the reaction of supports calculation formula is in meters while all other dimentions not indicated are in milimeters. See page 20 for enlarged figure of A&B.

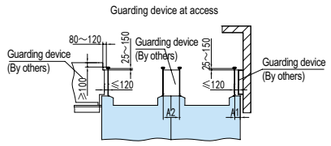




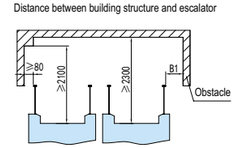
Technical specification

☆If there is a risk of falling, Anti - creep device should be installed.
☆When escalator is installed above the first floor, there is no need for pit, the understructure of civil works is symmetrical with the upper part.
☆The user should provide the escalator with a ground resistance which is lower than 4 ohm.
☆The user should provide at least 50 Lx illumination at the escalator exit entrance (ground detection value).

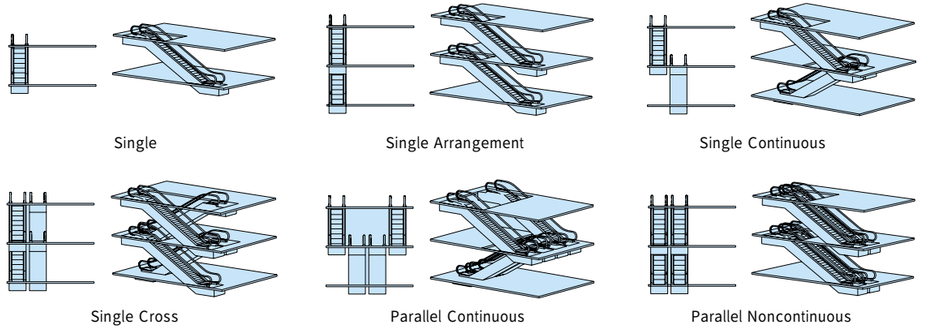




When the escalator is near the wall, the width of interior and outerior plate is greater than 125mm, a gurading device should be placed at the up and low end. When the escalators are arranged in parallel with each other and the width A2 of the common outer cover plate is greater than 125mm, the guarding device should also be installed

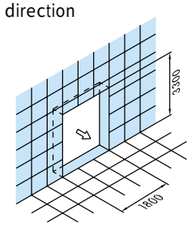


If the distance B1 between the outer edge of the handrail and any obstacle is larger than or equal to 400mm, there is no need to set up a vertical guarding device.

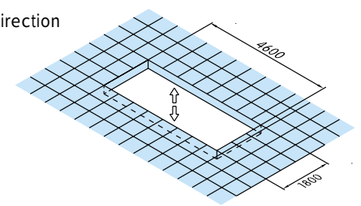


Minimum size of the entrance and exit

☆Vertical direction



☆Horizontal direction



Note: Figure dimensions all in millimeters

Other related projects responsible by the users and agents

☆The holes which need to be drilled on the floor and the recovery works.
☆Water proofing work for the bottom layer of escalator pit.
☆Surrounding floor and ceiling decoration work after the completion of escalator installation.
☆For escalators installed in existing buildings, the protection around the escalator.
☆The wall around the guardrail and escalator.
☆For installation temporary access and restoration work if the escalator is installed in existing buildings.
☆Power cable is connected to the power supply box of the escalator inside the power supply.
☆The outer decoration of escalator.
☆Installation of anti - fall nets if ladder wells are between the escalators.

ESG-W700 SPECIFICATION

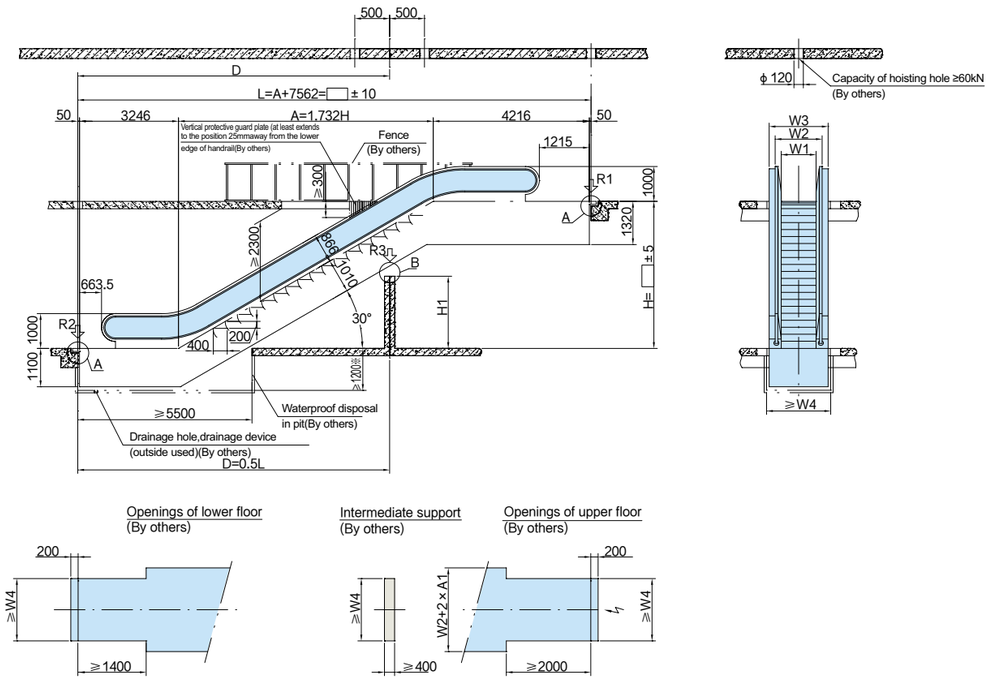
ESG - W700			
Rise	4~10.2m	Start Running Mode	Star - delta and variable frequency starting
Angle of Inclination	30 °	Balustrade Panel	Tilting hairline stainless steel
Step Width	800/1000mm	Handrail Bracket	Hairline Stainless Steel
Rated Speed	0.65m/s	Handrail	Black synthetic rubber; Other colors available
Horizontal Steps	4/3	Skirting	Hairline stainless steel
Theoretical Capacity	5900 / 7300(Person/hour)	Step	Hard alunimium with yellow safter guard lines; Optional hairline stainless steel
Power Supply	50HZ AC 3 - phase 380V; Single - phase 220V; or according to local requirements.	Entrance & Exit Flooring	Etched stainless steel
Traction Machine	Three - phase AC motor	Comb Plate	Aluminum; Optional yellow resin
Control Mode	MPK208	Rated Speed Optional	0.5m/s

☆ Standard Function

1.Emergency stop switch
In case of emergency situation, press emergency stop switch to stop escalator running.
2.Star- delta start or variable frequency start
Outer key switch is used to choose star - delta start or variable le frequency start running.
3.Handrail entry safety device
In the case of objects being trapped in the handrail entry, escalator will stop running.
4.No-load slow run
Escalator will run under energy saving mode in case of no load on it.
5.Step up rush protection
In the case of objects being trapped between steps resulting in abnormal running track of step roller, step running safety device will stop escalator running.
6.Comb plate safety protection
In the case of objects being trapped between step and comb plate, escalator will stop running.
7.Overload protection
When drive motor is overloaded, power supply to motor will be cut off automatically, and escalator will stop running.
8.Power supply phase failure and wrong phase protection
Escalator will stop running in the event of power supply phase failure or wrong phase.
9.Running direction indication
Escalator running direction is displayed by up and down arrow, (green arrow for "go", red arrow for "stop")
10. Entrance floor plate lifting protection
When entrance floor plate is opened, escalator can only start by inspection control device.
11.Timing function
Escalator running time is displayed and recorded by frequency converter.
12.Voltage and current monitoring function
Voltage and current during escalator running can be checked by frequency converter.
13.Electromagnetic brake
Guarantee appropriate braking distance for safety of passengers when the escalator stops running.
14.RS485 communication interface reserved
Escalator can communicate with upper computer and report its running state by RS485 communication.
15.Unintentional reversal protection device
When set running direction is changed, escalator will stop running.
16. Overspeed protection device
When running speed exceeds rated speed, escalator will stop running.
17.Drive chain safety switch
When drive chain is unduly elongated or broken, escalator will stop running.
18.Auxiliary brake
In the case of drive chain being broken, escalator reversal, or excessive speed running 120%, the device will act and the escalator will stop running.
19.Step safety device
Under abnormal conditions caused by step deformation or other reasons, escalator will stop running.
20.Step yellow demarcation line
It is used for indicating safe location where passengers shall stand.
21.Skirt panel safety switch
In the case of objects being trapped between step and skirt panel, escalator will stop running.
22.Step static eliminating device
Make use of the static brush to eliminate the static of the step.
23.Handrail static eliminating device
Make use of metal roller to eliminate static of handrail.
24.Handrail speed monitoring
In the case of handrail speed deviation of more than - 15 % to the actual speed for more than 15 s, escalator will stop running.
25.Skirt panel brush
It will protect passengers from unintentional contact with skirt panel so as to lower risk of squeezing.
26.Step chain safety switch
When traction chain is unduly elongated or broken, escalator will stop running.
27.Fault information display
In the case of escalator fault, fault code will be directly displayed in segment code display.
28.Step lighting
It is installed under step at the entrance of escalator. Light comes from between comb and step or horizontal steps, so it is convenient for passengers to see step entrance clearly.
29.Brake release monitoring device
After main controller outputs brake control signal, detect whether the brake has been opened, if not, the escalator cannot start.
30.Frequency converter fault detection
In the case of frequency converter fault, signals will be output to controller and the escalator will stop running.
31.Step quantity monitoring
When step is missing, the escalator shall stop before the gap (resulting from the missing step) emerges from the comb.
32.Braking distance monitoring
when braking distance exceeds prescribed distance, the escalator cannot restart until fault is reset.

30°ESCALATOR ESG-W700 SCHEME DRAWING

☆ 4000≤H≤10200　　Number of horizontal steps:4



☆Specification & Size

	80 Step	100 Step
W1 (Step Width)	800	1000
W2 (Handrail Outer Fringe Width)	1176	1376
W3 (Escalator Width)	1400	1600
W4 (Shaft Width)	1500	1700
H1 (Intermediate Support Height)	0.577D - 3400	

☆ Support Load

Rise		4000≤H≤4300		4300＜H≤10200		
Reaction of Support		R1(kN)	R2(kN)	R1(kN)	R2(kN)	R3(kN)
Step Width	800	4.54L+14.52	4.55L+5.07	2.14L+13.57	2.24L+3.35	5.64L+4.08
	1000	4.94L+15.27	5.22L+5.24	2.26L+17.65	2.67L+3.36	6.20L+5.44

Note:
1.For outdoor escalator, size of "※" in schematic drawing is 1500.
2.The unit of the ""L"" in the reaction of supports calculation formula is in meters while all other dimentions not indicated are in milimeters.See page 27 for enlarged figure of A&B.
3.When using three horizontal steps, the size may slightly different from this above figures.

30°ESCALATOR ESG-W800 PRODUCT SPECIFICATION

ESG - W800			
Rise Height	4~16m	Start Running Mode	Star - delta and variable frequency starting
Angle of Inclination	30 °	Balustrade panel	Tilting hairline stainless steel
Step Width	1000mm	Handrail Bracket	Hairline stainless steel
Rated Speed	0.65m/s	Handrail	Black synthetic rubber; other colors available
Horizontal Steps	4	Skirting	Hairline stainless steel
Max Capacity	7300(Person/hour)	Step	Aluminum alloy with yellow safety line
Power supply	50 Hz AC 3 - phase 380V, 1 - phase 220V; or according to regional requirements.	Entrance & Exit Flooring	Etched stainless steel
Traction Machine	Three - phase AC motor	Comb Plate	Aluminum alloy
Control Mode	MPK208	Rated Speed Optional	0.5m/s

☆ Standard Function

1.Emergency stop switch
In case of emergency situation, press emergency stop switch to stop escalator running.
2.Star-delta start and variable frequency start
Variable frequency operation is used for starting, stopping and standby at low speed.Power frequency and bypass operation can also be adopted through switch conversion.
3.Handrail entry safety device
In the case of objects being trapped in the handrail entry, escalator will stop running.
4.No-load slow run or stop
Escalator will automatically run under energy saving mode or stop running in the case of no load on it.
5.Comb plate safety protection
In the case of objects being trapped between step and comb plate, escalator will stop running both in the direction of horizontal or vertical.
6.Overload protection
When drive motor is overloaded, power supply to motor will be cut off automatically, and escalator will stop running.
7.Power supply phase failure and wrong phase protection
Escalator will stop running in the event of power supply phase failure or wrong phase.
8.Fault information display
Segment code display is adopted to visually display the fault code on the skirt panel in the case of escalator failure.
9.Entrance floor plate lifting protection
When entrance floor plate is opened, escalator will not start properly, it can only start by inspection control device.
10.Timing function
Escalator running time is displayed and recorded by frequency converter and can also be displayed by a separate timing device.
11.Voltage and current monitoring function
The voltage and current device directly displays the voltage and current of the escalator during operation.
12.Electromagnetic brake
Guarantee appropriate braking distance for safety of passengers when the escalator stops running.
13.RS485 communication interface reserved
Escalator can communicate with upper computer and report its running status by RS485 communication.
14.Unintentional reversal protection device
When set running direction is changed, escalator will stop running.
15.Overspeed protection device
When running speed exceeds rated speed, escalator will stop running.
16.Drive chain safety switch
When drive chain is unduly elongated or broken, escalator will stop running.
17.Auxiliary brake
In the case of drive chain being broken, escalator reversal, or excessive speed running 120%, the device will act and the escalator will stop running.
18.Step sagging protection
In the case of step sagging, escalator will stop running.
19.Step yellow demarcation line
It is used for indicating safe location where passengers shall stand.
20.Skirt panel safety switch
In the case of objects being trapped between step and skirt panel, escalator will stop running.
21.Step static eliminating device
Make use of the static brush to eliminate the static of the step.
22. Handrail static eliminate device
Make use of metal roller to eliminate static of handrail.
23.Runnig direction indication
Escalator running direction is displayed by up and down arrow, (green arrow for "go", red arrow for "stop")
24.Negative direction entrance prompt
A prompt is given to passengers to prohibit entering escalator.
25.Handrail speed monitoring
In the case of handrail speed deviation of more than - 15% to actual speed for more than 0 - 15s,escalator will stop running.
26.Skirt panel brush
It will protect passengers from unintentional contact with skirt panel so as to lower risk of squeezing.
27.Step chain safety switch
When traction chain is unduly elongated or broken, escalator will stop running.
28.Water level switch (standard for outdoor escalator, optional for indoor escalator)
When the water in the lower machine room of escalator reaches a certain level, the escalator will stop running.
29.LED step lighting
It is installed under steps at the entrance of the escalator. Light comes between comb and step or horizontal steps, so it is convenient for passengers to see step entrance clearly.
30.Brake release monitoring device
After main controller outputs brake control signal, detect whether the brake has been opened, if not, the escalator cannot start.
31.Escalator emergency stop in the middle (when the distance between emergency stop switches at two ends is more than 30m)
In emergency situations, press emergency stop switch to stop escalator running.
32.Step quantity monitoring
When step is missing, the escalator shall stop before the gap (resulting from the missing step) emerges from the comb.

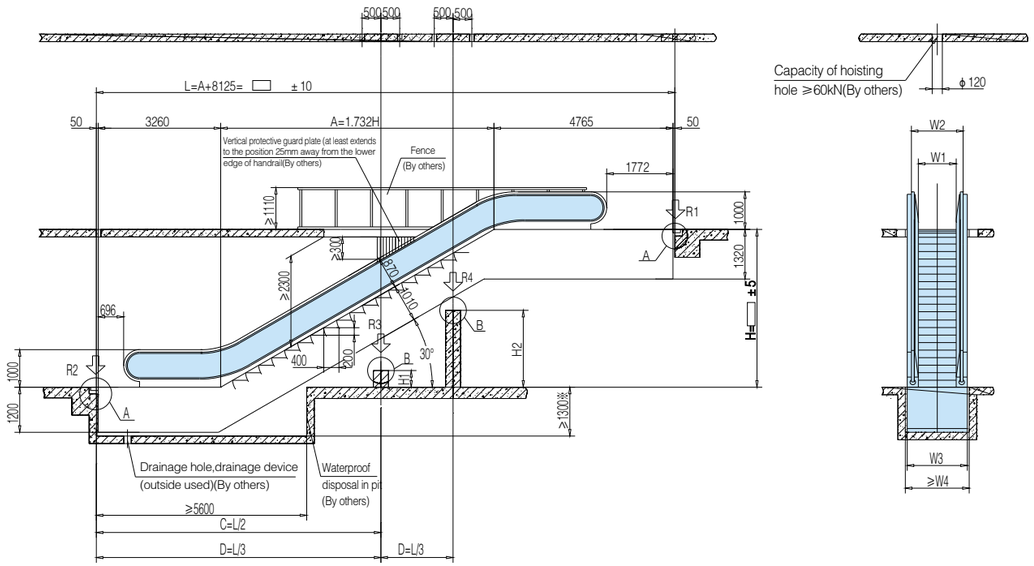
30° ESCALATOR ESG-W800 PRODUCT SPECIFICATION

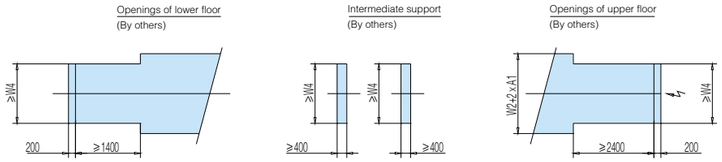
☆ Standard Function

33.Braking distance monitoring
When braking distance exceeds prescribed distance, the escalator cannot restart until fault is reset.
34.Lubrication pump oil level monitoring
When lubrication pump oil level is low, the fault will be displayed.
35.Up and down inspection socket
During inspection, manually control escalator running.
36.Safety circuit board detection
In the case of safety circuit fault monitored by safety circuit board, the escalator will stop running.
37.Frequency converter fault detection
In the case of frequency converter fault, signals will be output to controller and the escalator will stop running.
38.Step uprush protection
In the case of objects being trapped between steps resulting in abnormal running track of step roller, step running safety device will stop escalator running.
39.Contactor anti-blocking protection
In the case of contactor blocking, the escalator will stop running.
40.Safety device for protective cover
When inertia wheel protective cover is opened, the escalator will stop running.
41.Speed selection function
Select escalator running speed by external key switch.
42.Entrance floor plate anti-theft lock
When the plate is opened through abnormal way, the alarm bell will ring.
43.Temperature detection function in machine room
The machine room is equipped with special ventilator to lower machine room temperature.
44.Comb lighting
It is installed in skirt panel at the intersection of comb and skirt panel being convenient for passengers to see escalator entrance clearly.
45.Rolling door interface reserved
The escalator shall stop when the Rolling door (emergency exit) is signaled.
46.Start buzzing prompting
When the escalator is started or when the steps are stolen, the buzzer indicates.
47.Light and heavy load detection monitoring
Determine passenger capacity during escalator running by monitoring controller input state.
48.Emergency stop reserved in monitor room
In case of emergency press, stop switch in monitor room to stop running of the escalator.
49.Fire protection function interface reserved
Check the passive dry contact, when input fire signal, the escalator stops running.
50.Explosion-proof light
Installed in the machine room, convenient for lighting during maintenance.
51.Earthquake function reserved
Check the passive dry contact, when input earthquake signal, the escalator stops running.
52.Brake abrasion detection
When the brake is severely worn, the escalator will stop running.
53.Intermediate skirt panel switch (when the distance of the switches at both ends of the skirt panel is more than 10m)
In the case of objects being trapped between intermediate step and skirt panel, the escalator will stoop running.
54.Voice prompt function
Choose different language to indicate the running status of the escalator.
55.Truss cable shall be laid with metal wire slots
Make the main cable can be suitable for all outdoor weather and immune from rain, lightning, wet and fire retardant.
56.36V socket
Safety sockets shall be installed at the location of the upper and lower machine room of the escalator.
57.Low smoke halogen free cable
All escalators are equipped with environmentally friendly cables that will not emit toxic fumes when burning.
58. Drive motor shift protection
If the drive motor shifts, the escalator will stop running.
59.Oil-water separator (Standard equipment for outside)
The oil and water collected in the lower machine room of the escalator can be separated to realize environmental protection.

30°ESCALATOR ESG-W800 SCHEME DRAWING

☆4000＜H≤10000　　Number of horizontal steps:4





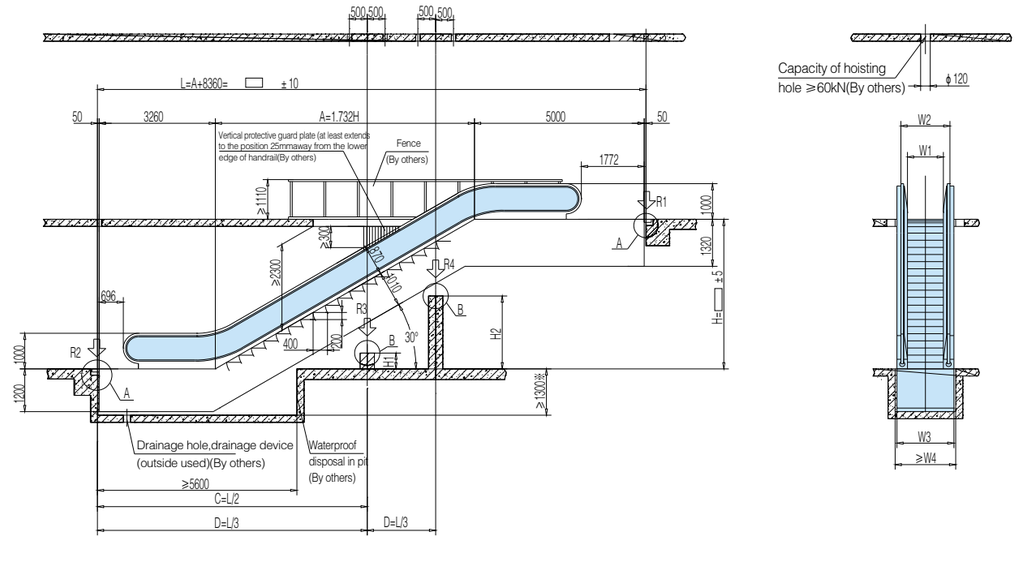
If the space provided by the user cannot guarantee that the distance A1 between the outer edge of the handrail and any obstacle is larger than or equal to 400mm (recommended), the value of W2+2×A1 shall not be less than W4.

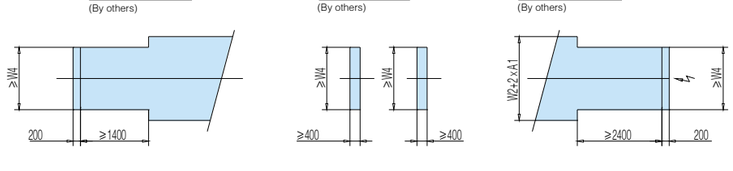
☆ Specification and size

	100step
W1（Step width）	1000
W2（Width of the handrail outer edge）	1348
W3（Escalator width）	1730
W4（Shaft width）	1800

30°ESCALATOR ESG-W800 SCHEME DRAWING

☆10000＜H≤16000　　Number of horizontal steps:4





If the space provided by the user cannot guarantee that the distance A1 between the outer edge of the handrail and any obstacle is larger than or equal to 400mm (recommended), the value of W2+2×A1 shall not be less than W4.

☆ Supporting load

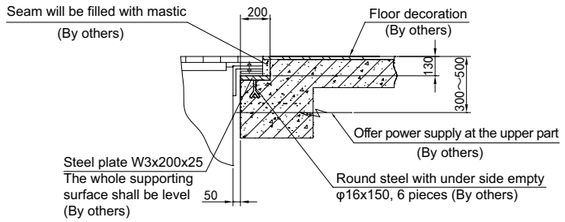
Lift height	4000<H≤12500			12500＜H≤16000			
Supporting load	R1(kN)	R2(kN)	R3(kN)	R1(kN)	R2(kN)	R3(kN)	R4(kN)
Step width 1000	2.26L+17.65	2.67L+3.36	6.20L+5.44	1.53L+13	1.53L+5	3.07L+2	3.07L+5

☆ Supporting height

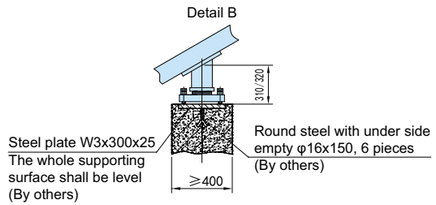
Lift height	4000<H≤12500	12500＜H≤16000	
Supporting height in the middle	H1	H1	H2
Step width 1000	0.577C - 3400	0.577D - 3400	1.155D - 3400

Note:
1.For outdoor escalator, size of "※" in schematic drawing is 1500.
2.The unit of the ""L"" in the reaction of supports calculation formula is in meters while all other dimentions not indicated are in milimeters.
3.See page 27 for enlarged figure of A&B.

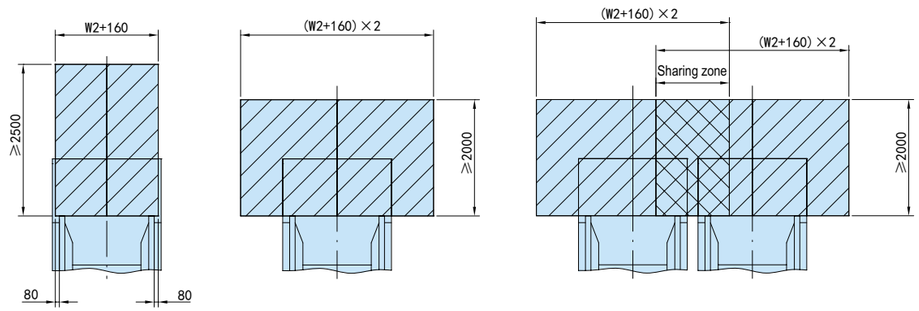
Detail A



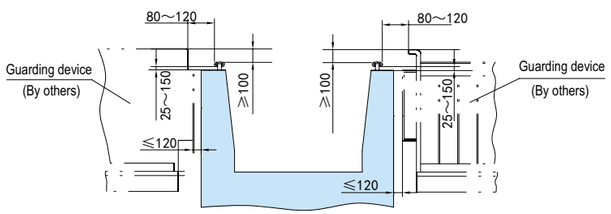
Detail B



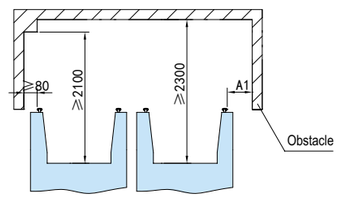
Boarding zone



Guarding device at access

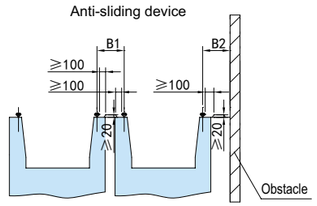


Distance between building structure and escalator



If the distance A1 between the outer edge of the handrail and any obstacle is larger than or equal to 400mm, there is no need to set up a vertical guarding device.

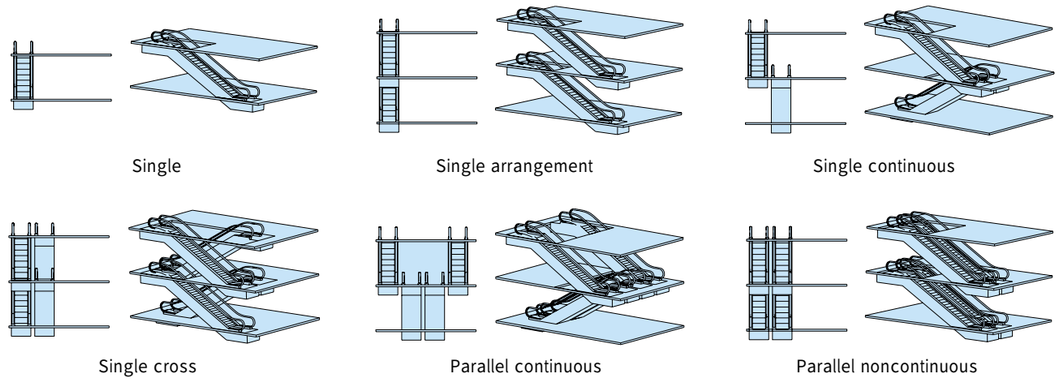
Anti-sliding device



When B1 is larger than 400mm or B2 is larger than 300mm,anti-sliding device should be installed on the handrail cover. The space between the devices shall not be larger than 1800mm and there shall be no acute Angle or sharp edge.

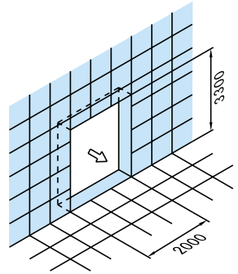
Technical specification

☆Pit cancels when escalator is installed above first floor;
☆The user should provide the escalator with a ground resistance which is lower than 4 ohm.
☆The user should provide at least 50 Lx illumination at the escalator exit entrance (ground detection value).

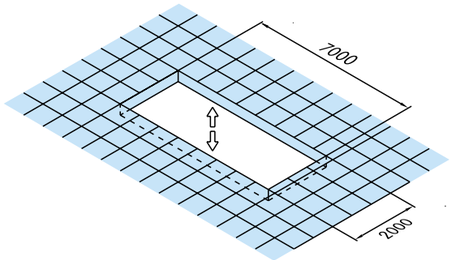


The minimum size of the escalator entrance

☆Vertical direction



☆Horizontal direction

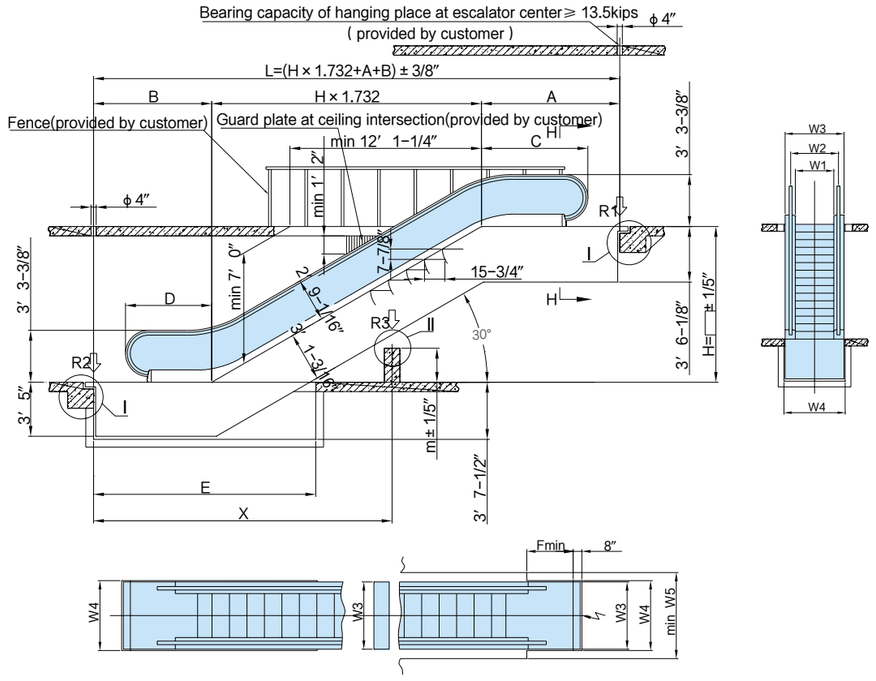


Note: Figure dimensions all in millimeters

Other related projects responsible by the user and agents

☆The holes which need to be drilled on the floor and the recovery works.
☆Water proofing work for the bottom layer of escalator pit.
☆Surrounding floor and ceiling decoration work after the completion of escalator of escalator installation.
☆Escalator safety in existing buildings, the protection around the escalator.
☆The wall around the guardrail and escalator.
☆Installation of temporary access and restoration works if the elevator is installed in existing buildings.
☆Power cable should be connected to the power cabinet at the top of the escalator .
☆The outer decoration of the escalator.
☆Installation of the anti-fall nets if the shaft is between the escalators.

ENP-G101 ASMEA17.1-2007



☆When step width is 1 ′ 11-5/8 ″ , value of A and G in the table will be increased by 1 ′ 7-11/16 ″ .

Number of horizontal steps	A	B	C	D	E	F
2	8 ′ 8-7/8 ″	7 ′ 5-9/16 ″	6 ′ 8-11/16 ″	5 ′ 5-3/8 ″	14 ′ 5-1/5 ″	3 ′ 11-1/4 ″
3	10 ′ 0-5/8 ″	8 ′ 9-5/16 ″	8 ′ 0-7/16 ″	6 ′ 9-1/8 ″	15 ′ 9 ″	3 ′ 11-1/4 ″

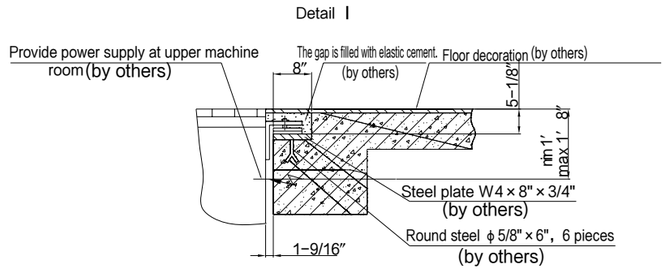
☆Drive host machine motor power

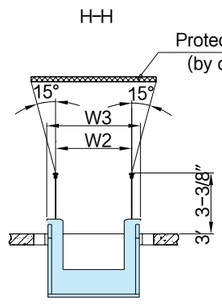
Rise H / Step width			Motor power (hp)
1 ′ 11-5/8 ″	2 ′ 7-1/2 ″	3 ′ 3-3/8 ″	
H≤16 ′ 5 ″	H≤12 ′ 9-1/2 ″	H≤10 ′ 6 ″	7.5
16 ′ 5 ″ <H≤22 ′ 11-1/2 ″	12 ′ 9-1/2 ″ <H≤17 ′ 8-1/2 ″	10 ′ 6 ″ <H≤14 ′ 9 ″	10
22 ′ 11-1/2 ″ <H≤26 ′ 3 ″	17 ′ 8-1/2 ″ <H≤24 ′ 1-3/8 ″	14 ′ 9 ″ <H≤19 ′ 8-1/4 ″	15
	24 ′ 1-3/8 ″ <H≤26 ′ 3 ″	19 ′ 8-1/4 ″ <H≤23 ′ 1-1/2 ″	17.5
		23 ′ 1-1/2 ″ <H≤26 ′ 3 ″	20

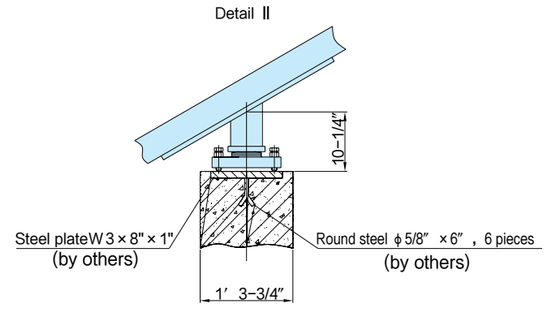
☆Support force calculation(kips)

Support beam horizontal span		L<49 ′ 9-1/2 ″		L≥49 ′ 9-1/2 ″		
Number of horizontal steps	Step width	R1(kips)	R2(kips)	R1(kips)	R2(kips)	R3(kips)
2	1 ′ 11-5/8 ″	0.27×L+1.91	0.27×L+0.16	0.14×L+2.13	0.14×L+0.74	0.36×L+0.62
	2 ′ 7-1/2 ″	0.32×L+2.09	0.32×L+0.27	0.15×L+3.05	0.16×L+0.75	0.39×L+0.92
	3 ′ 3-3/8 ″	0.36×L+2.32	0.36×L+0.52	0.16×L+3.97	0.18×L+0.76	0.42×L+1.22
3	1 ′ 11-5/8 ″	0.29×L+2.9	0.29×L+0.65	0.14×L+2.13	0.14×L+0.74	0.36×L+0.62
	2 ′ 7-1/2 ″	0.34×L+3.08	0.34×L+0.83	0.15×L+3.05	0.16×L+0.75	0.39×L+0.92
	3 ′ 3-3/8 ″	0.38×L+3.26	0.38×L+0.97	0.16×L+3.97	0.18×L+0.76	0.42×L+1.22

ENP-G101 ASMEA17.1-2007







☆Escalator appearance and related dimension

W1(step width)	1 ′ 11-5/8 ″	2 ′ 7-1/2 ″	3 ′ 3-3/8 ″
W2(handrail center distance)	2 ′ 9-15/32 ″	3 ′ 5-11/32 ″	4 ′ 1-7/32 ″
W3(escalator width)	3 ′ 8-7/8 ″	4 ′ 4-3/4 ″	5 ′ 0-5/8 ″
W4(shaft width)	3 ′ 11-1/4 ″	4 ′ 7-1/8 ″	5 ′ 3 ″
W5(shaft width)	5 ′ 1-7/8 ″	5 ′ 9-3/4 ″	6 ′ 5-5/8 ″
Hmax(the max. rise)	26'3"		

☆Technical requirement

1.When L≥49 ′ 9-1/2 ″ , add intermediate support;intermediate support height m=0.5774(X-B)-(4 ′ 6-1/10 ″);
2.For outdoor escalator, install protective cover above it and see H-H drawing for design and installation requirements for protective cover.And requirements for protective covers at lower level sect. and inclined sect. are the same as that of upper level sect.
3.At the intersection between escalator and floor plate or cross arrangement escalators, when level distance between handrail center and floor plate at intersection or between outer edges at escalators bottom is not more than 14 ″ , set guard plate at intersection as drawing shows.
4.In support force computational formula, unit of L is foot.
5.The drawing is construction layout drawing for escalator without earthquake safety function. When escalator is used at earthquake region,please contact with BLT company.

Brilliant Escalator· Passenger Conveyor

☆Passenger conveyors are mainly used in supermarkets, shopping mall, subway, airport and other public places. BLT-CS series passenger conveyor is designed and manufactured in accordance with the European Committee for Standardization EN115-1:2008+A1:2010 and EN115-1:2017 escalators and Passenger Conveyor manufacture and installation safety standards" (in line with GB16899-2017)

☆BLT-CS series passenger conveyor divides into three types of CSP-W110, CSP-W210 and CSG-W500, the most contemporary high quality products through devoting research and development, which meets the full range market demand. CSP-W110 with creative appearance, is the most popular model. CSP-W210 step band adopting outer arc structure, and about 1.3m horizontal area at each end as transition in order for the passengers to enjoy more comfortable and safety. The model was designed mainly to focus on international market, fully compliance with European CE standards, and it stands as a strong competitor in the domestic market.

Product Characteristic

☆CSP-W110 series passenger conveyor with the characteristic of small space occupation and wide angle (10 ° /11 ° /12 °) , meeting customer demands. Stainless steel pedals, compact structure, strong and durable, non-slip pedal surface design, all contribute to a safe and comfortable passenger experience. A variety of handrail colors and simple handrail shape harmonizes the surrounding environment..

☆CSP-W210 series passenger conveyor adopting the small pitch aluminum pedals, the gap between the pedal and apron changes from horizontal direction to vertical direction, meaning the lower pedal goes under the skirt board, greatly reducing the possibility that the skirts or pants of the passenger get caught into the gap of the skirt board. With double arc structure, and large horizontal area at each end, passengers will enjoy the convenience and safety.

☆CSG-W500 series passenger conveyor has a tilt angle of 0-6 ° . It is commonly used in the airport and metro.

☆Standard Function

1.Electromagnetic brake
Guarantee appropriate braking distance for safety of passengers when the passenger conveyor stops running.

2.Overload protection
When drive motor is overloaded, power supply to motor will be cut off automatically, and the passenger conveyor will stop running.

3.Power supply phase failure and wrong phase protection
The passenger conveyor will stop running in the event of power supply phase failure or wrong phase.

4.Unintentional reversal protection device
When set running direction is changed, passenger conveyor will stop running.

5.Overspeed protection device
When running speed exceeds rated speed, the passenger conveyor will stop running.

6.Drive chain safety device
When drive chain is broken, the passenger conveyor will stop running.

7.Comb plate safety device
In the case of objects being trapped between pallet and comb plate, the passenger conveyor will stop running.

8.Handrail entry safety device
In the case of objects being trapped in the handrail entry, the passenger conveyor will stop running.

9.Emergency stop switch
In the case of emergency situation, press emergency stop switch to stop the passenger conveyor.

10.Skirt panel safety switch
In the case of objects being trapped between pallet and skirt panel, the passenger conveyor will stop running.

11.Pallet safety device
Under abnormal conditions caused by pallet deformation or other reasons, the passenger conveyorwill stop running.

12.Traction chain safety switch
When traction chain is unduly elongated or broken, the passenger conveyor will stop running.

13.Brake release monitoring device
After main controller outputs brake control signal, detect whether the brake has been opened, if not, the passenger conveyor cannot start.

14.Pallet lighting
It is installed under pallet at the entrance of the passenger conveyor and makes passengers know pallet running state clearly.

15.Pallet static eliminating device
Make the use of the static brush to eliminate the static of the pallet.

16.Handrail static eliminating device
Make use of metal roller to eliminate static of handrail.

17.Braking distance monitoring
When braking distance exceeds prescribed distance, the passenger conveyor cannot restart until fault is reset.

18.Pallet quantity monitoring
When the pallet is missing, the passenger conveyor shall stop running before the gap emerged from the comb.

19.Handrail speed monitoring
In the case of handrail speed deviation of more than -15% to the actual speed for more than 15s, the passenger conveyor will stop running.

20.Entrance floor plate lifting protection
When entrance floor plate of the machine room is opened, the passenger conveyor cannot start normally. It can only start by inspection control device.

21.Skirt panel brush
It will protect passengers from unintentional contact with skirt panel so as to lower risk of squeezing.

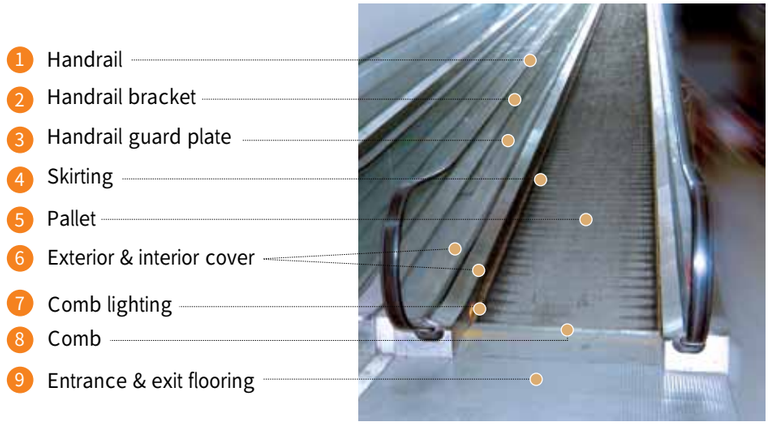
☆Optional Function

Auxiliary brake

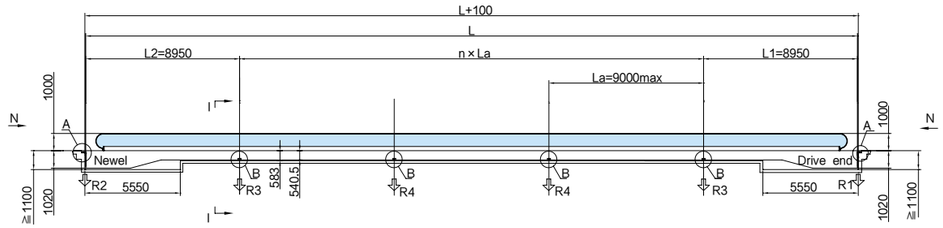
In the case of drive chain being broken, escalator reversal, or excessive speed running 120%, the device will act and the passenger conveyor will stop running. It is standard for passenger conveyor which lifting distance is more than 6m or for the public transport passenger conveyor.

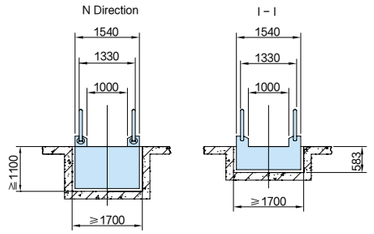
PRODUCT SPECIFICATION AND COMPONENTS

	CSG - W500	CSP - W110	CSP - W210
Rise Height/Span	60m	3~6m	3 - 6m
Angle of Inclination	0~6 °	10 ° /11 ° /12 °	11 ° /12 °
Step Width	1000mm	800/1000mm	800/1000mm
Rated Speed	0.5m/s	0.5m/s	0.5m/s
Horizontal Steps	————	2 at upper entrance/exit,none at lower entrance/exit	10 at upper entrance/exit; 10 at lower entrance/exit
Maximum Capacity	6000 Persons/Hour	4800/6000 Persons/Hour	4800/6000 Persons/Hour
Power	50Hz AC 3 - phase 380V, 1 - phase 220V or according to regional requirements	50Hz AC 3 - phase 380V, 1 - phase 220V or according to regional requirements	50Hz AC 3 - phase 380V, 1 - phase 220V or according to regional requirements
Traction Machine	3 - phase AC motor	3 - phase AC motor	3 - phase AC motor
Control Mode	MPK108	MPK108	MPK108
Start Operation Mode	Star Delta Start; VVVF photoelectric detection start is optional	Star Delta Start; VVVF photoelectric detection start is optional	Star Delta Start; VVVF photoelectric detection start is optional
Handrail Guard Plate	10mm thick enhanced safety glass; vertical hairline stainless steel is optional	10mm thick enhanced safety glass; vertical hairline stainless steel is optional	10mm thick enhanced safety glass; vertical hairline stainless steel is optional
Handrail Bracket	Hairline stainless steel, anodized aluminum alloy is optional	Hairline stainless steel, anodized aluminum alloy is optional	Hairline stainless steel, anodized aluminum alloy is optional
Handrail	Black synthetic rubber; other colors are available	Black synthetic rubber; other colors are available	Black synthetic rubber; other colors are available
Interior & Exterior Cover	Hairline stainless steel	Hairline stainless steel	Hairline stainless steel
Skirting board	Hairline stainless steel; black or green teflon - coated steel is optional	Hairline stainless steel; black or green teflon - coated steel is optional	Hairline stainless steel; black or green teflon - coated steel is optional
Handrail Lighting	Optional (anodized aluminum alloy handrail bracket)	Optional (anodized aluminum alloy handrail bracket)	Optional (anodized aluminum alloy handrail bracket)
Entrance &Exit Flooring	Etched stainless steel decoration	Pressed stainless steel decoration	Pressed stainless steel decoration
Comb Plate	Aluminum	Aluminum	Aluminum

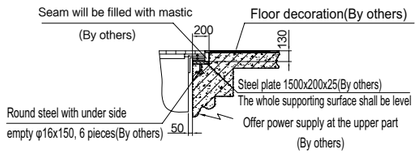


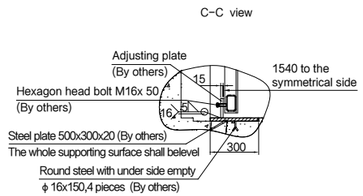
PASSENGER CONVEYOR CSP-W500 SCHEME DRAWING

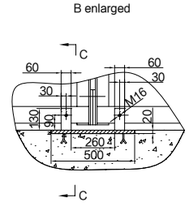




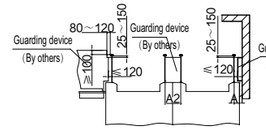
A enlarged







Guarding device at access



When the passenger conveyor is adjacent to the wall and the width A1 of the outer cover plate is larger than 125mm, a blocking device should be installed on the upper and lower parts. When the passenger conveyor is arranged in parallel with each other and the width A2 of the shared outer cover plate is larger than 125mm, a blocking device should also be installed.

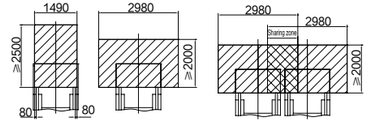
Distance between building structure and escalator

If the distance B1 between the outer edge of the handrail and any obstacle is larger than or equal to 400mm, there is no need to set up a vertical guarding device.

Technical specification

☆ The distance between two nearby supports can not exceed 9000mm,and supports should be placed symmetrically.
☆ The user should provide the passenger conveyor with a ground resistance which is lower than 4 ohm.
☆ The user should provide at least 50Lx illumination at the passenger conveyor exit entrance(ground detection value).

Boarding zone

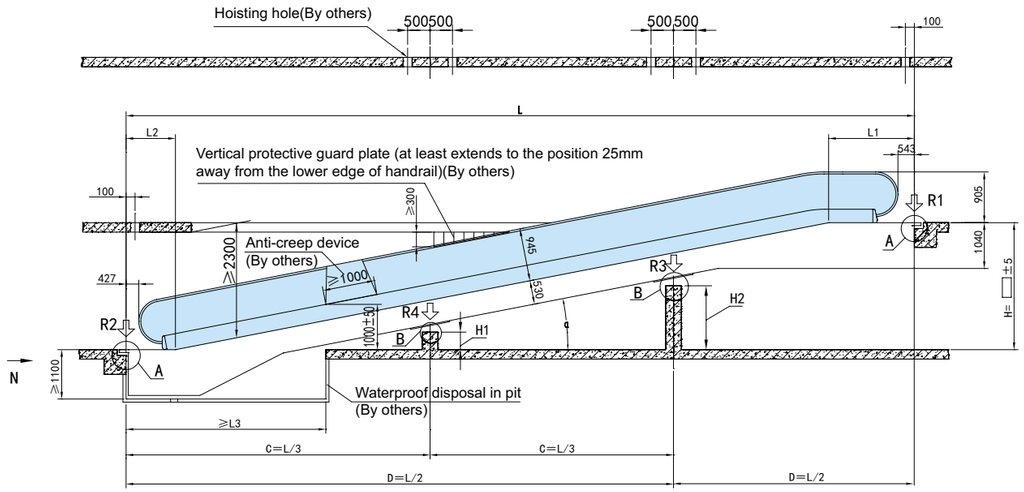


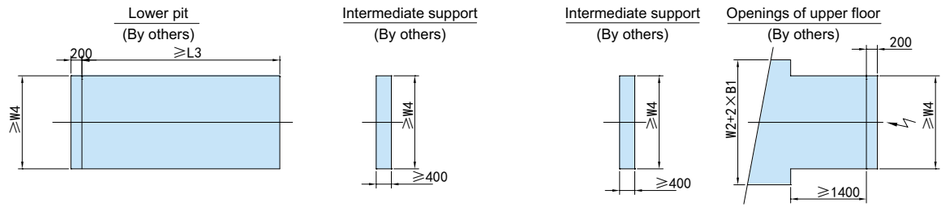
☆Reaction force of support

R1(kN)	R2(kN)	R3(kN)	R4(kN)
54	46	83	79

Note:Except for the units indicated in the data of the chart, the rest are in millimeters.

PASSENGER CONVEYOR CSP-W110 SCHEME DRAWING





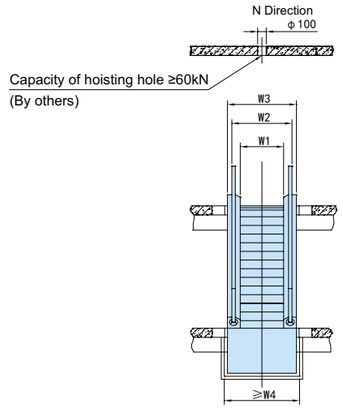
☆ Specification and size

	80 Step	100 Step
W1(Step Width)	800	1000
W2(Handrail Outer Edge Width)	1130	1330
W3(Passenger Conveyor Width)	1340	1540
W4(Pit Width)	1440	1640
E(Support Span)	16300	15000
F(Support Span)	32600	30000

Angle of Inclination α	L1	L2	L3	L
10 °	2016	1122	4750	5.6713×H+3138
11 °	2093	1090	4420	5.1446×H+3183
12 °	2165	1080	4120	4.7046×H+3245

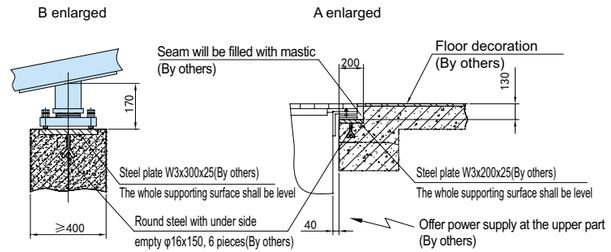
Note:
1.One intermediate support is needed if L>E; two intermediate supports are needed if L>F.
2.The unit of the "L" in the reaction of supports calculation formula is in meters while all other dimentions not indicated are in milimeters.
3.Please contact us if the angles are different from above.

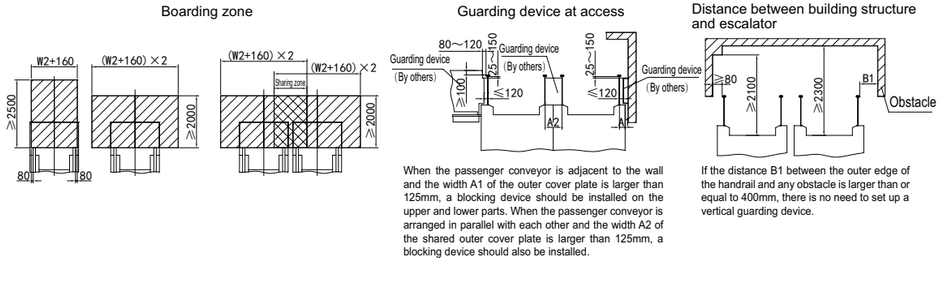
PASSENGER CONVEYOR CSP-W110 SCHEME DRAWING



Technical specification

☆If there is a risk of falling, Anti-creep device should be installed.
☆One intermediate support is needed if L>E; two intermediate supports are needed if L>F.
☆Pit cancels when passenger conveyor is installed above first floor.
☆The user should provide the passenger conveyor with a ground resistance which is lower than 4 ohm.





When the passenger conveyor is adjacent to the wall and the width A1 of the outer cover plate is larger than 125mm, a blocking device should be installed on the upper and lower parts. When the passenger conveyor is arranged in parallel with each other and the width A2 of the shared outer cover plate is larger than 125mm, a blocking device should also be installed.

If the distance B1 between the outer edge of the handrail and any obstacle is larger than or equal to 400mm, there is no need to set up a vertical guarding device.

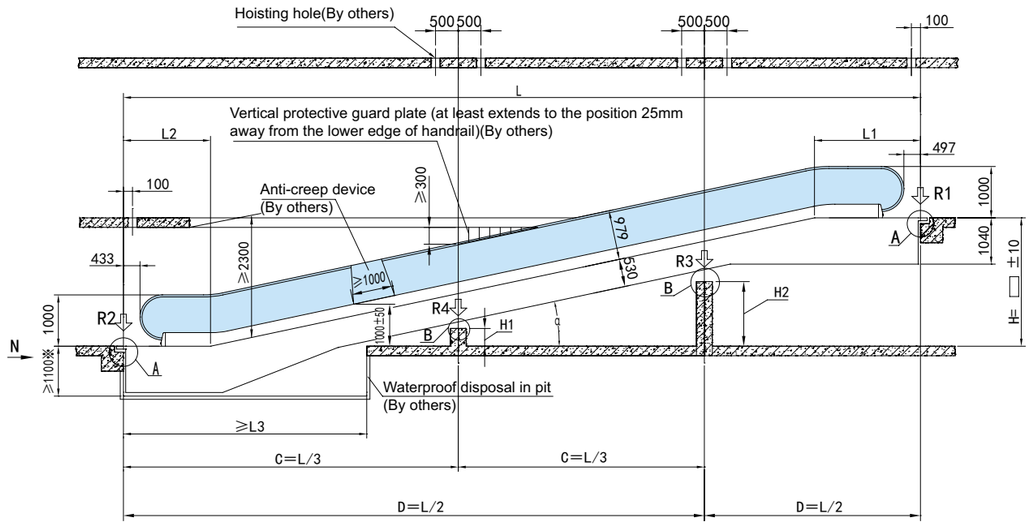
☆Height of intermediate support

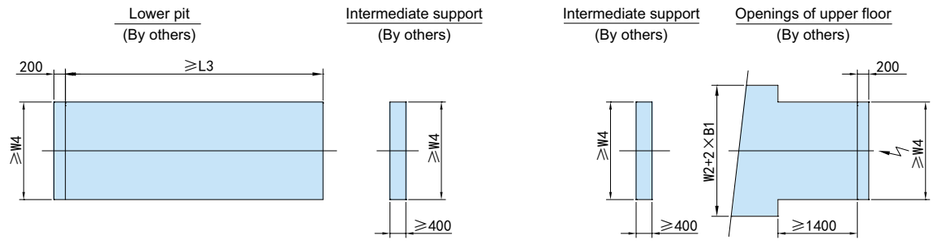
Angle of Inclination α	One Intermediate Support	Two Intermediate Support
10 °	H1=0.1763D - 926	H1=0.1763C - 926 H2=0.3527C - 926
11 °	H1=0.1944D - 942	H1=0.1944C - 942 H2=0.3888C - 942
12 °	H1=0.2126D - 962	H1=0.2126C - 962 H2=0.4251C - 962

☆Reaction force of support (unit: kN)

Step Width W1	Reaction Force of Supports	One Intermediate Support	Two Intermediate Support
1000	R1	R1=1.3L+36	R1=0.66L+33.6
	R2	R2=1.5L+23.5	R2=0.69L+25.5
	R3	R3=5.8L+288/L	R3=3.4L+3.2
	R4	————	R4=3.4L+3.2

PASSENGER CONVEYOR CSP-W210 SCHEME DRAWING





☆ Specification and size

	80 Step	100 Step
W1(Step Width)	800	1000
W2(Handrail Outer Edge Width)	1130	1330
W3(Passenger Conveyor Width)	1340	1540
W4(Pit Width)	1440	1640
E(Support Span)	16300	15000
F(Support Span)	32600	30000

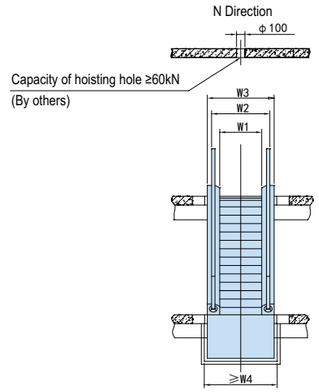
Angle of Inclination α	L1	L2	L3	L
11 °	2556	3192	6250	5.1446×H+5748
12 °	2588	3210	6050	4.7046×H+5798

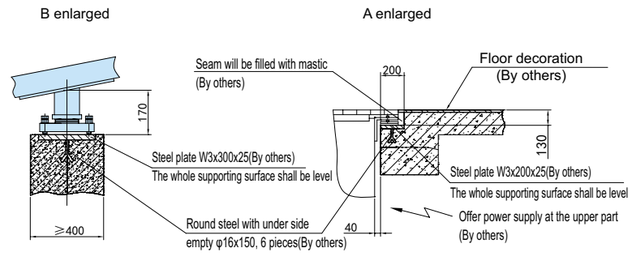
Note:
1.One intermediate support is needed if L>E; two intermediate supports are needed if L>F.
2.The unit of the "L" in the reaction of supports calculation formula is in meters while all other dimentions not indicated are in milimeters.
3.Please contact us if the angles are different from above.

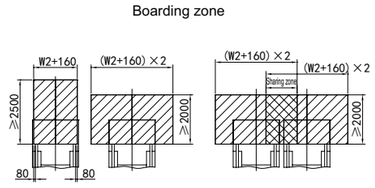
PASSENGER CONVEYOR CSP-W210 SCHEME DRAWING

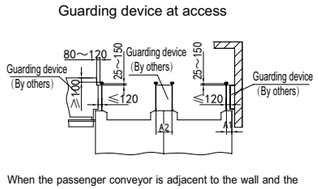
Technical specification

☆If there is a risk of falling,Anti - creep device should be installed.
☆One intermediate support is needed if L>E; two intermediate supports are needed if L>F.
☆Pit cancels when passenger conveyor is installed above first floor.
☆The user should provide the passenger conveyor with a ground resistance which is lower than 4 ohm.

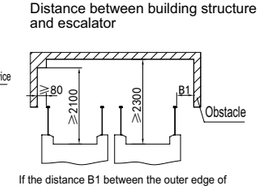








When the passenger conveyor is adjacent to the wall and the width A1 of the outer cover plate is larger than 125mm, a blocking device should be installed on the upper and lower parts. When the passenger conveyor is arranged in parallel with each other and the width A2 ofthe shared outer cover plate is larger than 125mm, a blocking device should also be installed.



If the distance B1 between the outer edge of the handrail and any obstacle is larger than or equal to 400mm, there is no need to set up a vertical guarding device

☆Height of intermediate support

Angle of Inclination α	One Intermediate Support	Two Intermediate Support
11 °	H1=0.1944D - 1351	H1=0.1944C - 1351 H2=0.3888C - 1351
12 °	H1=0.2126D - 1415	H1=0.2126C - 1415 H2=0.4251C - 1415

☆Reaction force of support (unit: kN)

Step Width W1	Reaction Force of Supports	One Intermediate Support	Two Intermediate Support
1000	R1	R1=1.3L+36	R1=0.66L+33.6
	R2	R2=1.5L+23.5	R2=0.69L+25.5
	R3	R3=5.8L+288/L	R3=3.4L+3.2
	R4	————	R4=3.4L+3.2

Note:Our company reserves the right of modifying the data in all scheme drawing. Please further confirm when signing the contract.