

Standard safety device

1. Lock of phase, error phase protection

The escalator (passenger conveyor) will be automatically stopped for running in case of phase failure.

2. Motor over-load protection

The escalator will be automatically stopped running in case the current exceeds the 15% of rated.

3. Electrical appliance loop protection

It offers the automatic circuit disconnection device to protect the circuit and main components of the escalator (Passenger Conveyor).

4. Handrail inlet protection

When foreign matters are jamming in the handrail inlet, the escalator (Passenger Conveyor) will be automatically stopped for running.

5. Comb plate safety device

When foreign matters are jamming in or between the combs, the escalator (Passenger Conveyor) will be automatically stopped for running.

6. Step sagging protection device

When there is abnormal step bending, the escalator (Passenger Conveyor) will be stopped for running before the step entering into the comb plate.

7. Broken drive-chain safety device

When the drive-chain has been over-stretched or it is broken, the escalator (Passenger Conveyor) will be automatically stopped for running.

8. Broken step chain protection

When the step (pallet) chain has been over-stretched or broken, the escalator (Passenger Conveyor) will be automatically stopped for running.

9. Over-speed protection

When there is over-speed to the escalator (Passenger Conveyor), it will be automatically stopped for running.

10. Direction reversal protection

In the event of an unintentional reversal of the direction of travel, the escalator (Passenger Conveyor) will be automatically stopped for running.

11. Security line

The yellow synthetic resin security line is located in the front position and two sides of the escalator step so that the passengers will not step on the edge of the adjacent step or between step and skirt panel.

The security line on both sides of the step is higher than the tread surface. (The Passenger Conveyor offers the selective yellow spray-painted security-line.)

12. Emergency stop button

When the button has been pressed down, the escalator (Passenger Conveyor) will be stopped for running.

13. Brake protection

When the electric force falls short of supply or it acts any of the safety device, the brake function goes into effect by the safety device through the spring resilience action, the escalator (Passenger Conveyor) stopped for running accordingly.

14. Safety inspection switch

It has a safety device to prevent from the escalator starting during the inspection and maintenance.

15. Step illumination

Illumination exists in the upper and lower ends of the escalator, in the lower part of the step in order to remind the passengers of the security matters.

16. Skirt panel protection

When foreign matter has been jammed in between the skirt panel and the step, the escalator (Passenger Conveyor) will be automatically stopped for running.

17. Control device for handrail breakage

When the handrail is broken, the escalator will be automatically stopped for running.



ESCALATORS

Optional safety device

18. Alarm bell starting device

The alarm bell rings when the escalator starts in order to remind the passengers of the security matters.

19. Handrail speed monitor

When the handrail speed versus step is slower than certain percentage, the escalator (Passenger Conveyor) will be stopped for running.

20. Skirt panel brush

It is a optional safety device. The brush that has been installed between the skirt panel and the step will prevent the shoes of passengers from touching the skirt panel.

21. Fire-proof rolling door device

When this device comes into action, it can stop the escalator (Passenger Conveyor).

22. Lower machine room drain

When it exceeds the standard water level in the machine room, the automatic drain system will start accordingly. (outdoor type)

23. Auxiliary brake

It prevents from the escalator slide and ensures the passengers security in case of the drive chain breakage or the out-of-order of the brake. (It should be equipped with the emergency brake when $H > 6m$.)

Function

Static electricity protection

Remove static electricity raised form running of steps

Un-intentional reversal protection

Protection against risk of unintentional reversal protection

Emergency stop button

Push the emergency stop button to stop the escalator/passenger conveyor against emergency happen

Lack of phase, error phase protection

Protection against risk of phase failure

Skirting protection

Protection against risk of foreign matters being jammed into clearance between steps and skirting

Short circuit protection

Protection against risk of short circuit

Handrail entry safety protection

Protection against risk of foreign matters being jammed into handrail entry

Over-load protection

Protection against risk of motor continually over-load

Main drive chains safety protection

Protection against risk of drive chains being breakage or over long

Step sagging protection

Protection against risk of steps being breakage and sagging

Over-speed protection

Protection against risk of speed being over 20% of rated speed

Step chains safety protection

Protection against risk of step chains being breakage or over long

Under-speed protection

Protection against risk of speed less than 80% of rated speed

Comb safety guard

Protection against risk of foreign matters being trapped into comb teeth of step(pallet)

Advantageous Performance

The truss utilizes first class angle steel with unique structure, high strength and complete durable features.

The skirt panel, inside and outside of cover plate are made of stainless steel.

The overall design is concise and smooth and compatible.

Etched stainless steel from panels are available with various patterns.

The advanced interactional craftsmanship ensures the accuracy of steps.

The main board of super CPU monitors the operation in real time, which can automatically stops the running and records the error code in case of any abnormal condition happen.

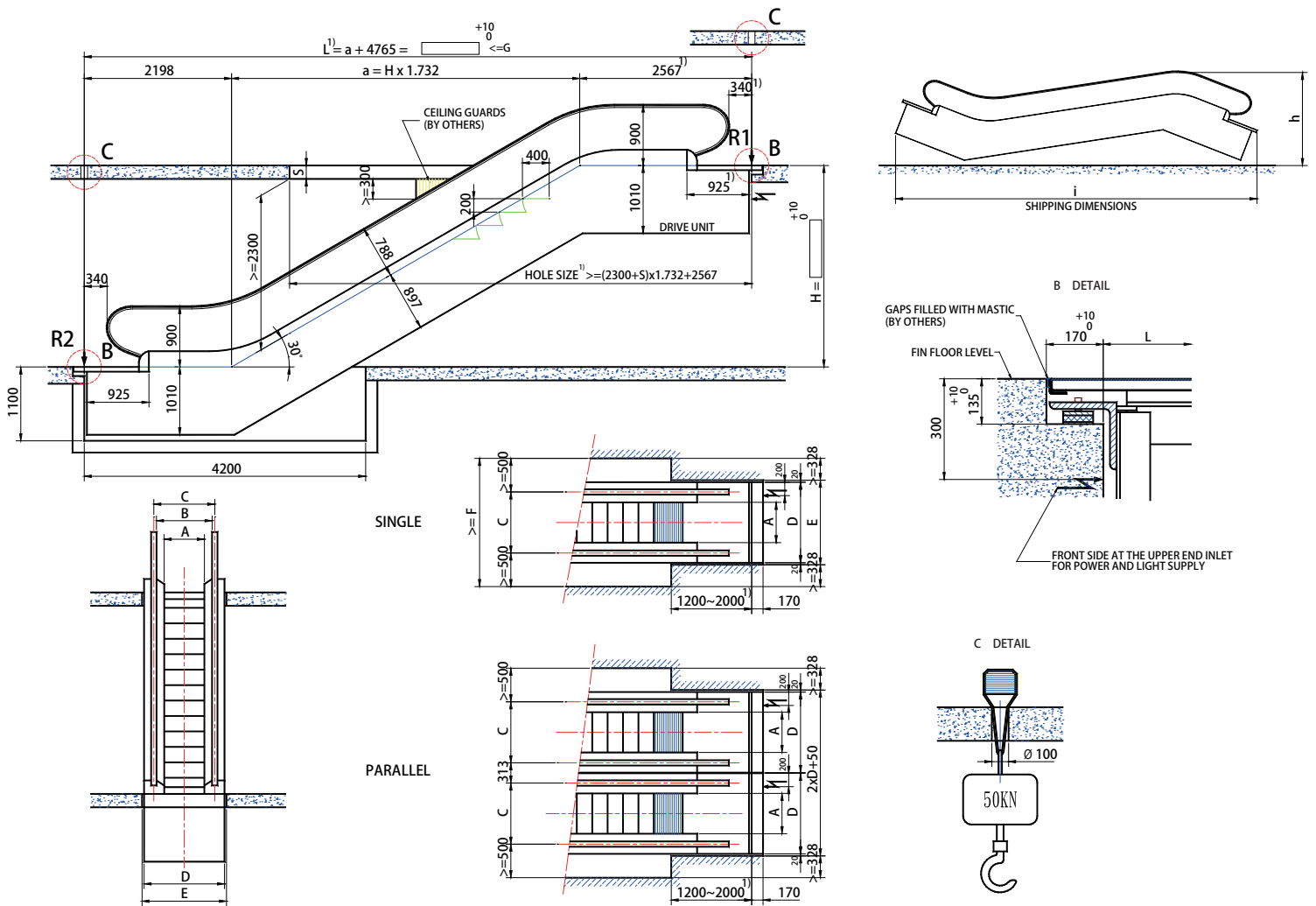
The large size diameter of step roller with stable running, low noise and long lifetime.

VVVF is optional for control running speed to save energy. It can prolong the lifetime and operations cost.

The human-oriented handrail entrance is secured by brush.



Floor plan of HS-200-30K Commercial Escalator



Type	Rise	Weight	Support Loads		Power kw	Transport size	
			R1	R2		H	I
30-60K 4500 man/hour	H	KN	KN	KN	v=0.5m/s	H	I
	3000	57	46	41		2172	11177
	3500	60	49	44		2217	12165
	4000	63	52	47		2254	13155
	4500	67	56	50		2284	14146
	5000	70	60	53		2309	15138
	5500	74	62	56		2330	16131
6000	77	65	59	2348	17125		
30-80K 6750 man/hour	3000	59	52	47	5.5	2066	10788
	3500	63	56	50	5.5	2101	11778
	4000	67	60	54	8	2130	12769
	4500	70	64	57	8	2153	13762
	5000	74	68	60	8	2172	14755
30-100K 9000 man/hour	5500	78	74	66	11	2188	15750
	6000	81	78	69	11	2201	16745
	3000	63	59	53	8	2066	10788
	3500	67	64	57		2101	11778
	4000	71	68	61		2130	12769
	4500	75	73	65		2153	13762
5000	79	79	71	2172		14755	
5500	83	84	75	11		2188	15750
6000	86	88	79	11	2201	16745	

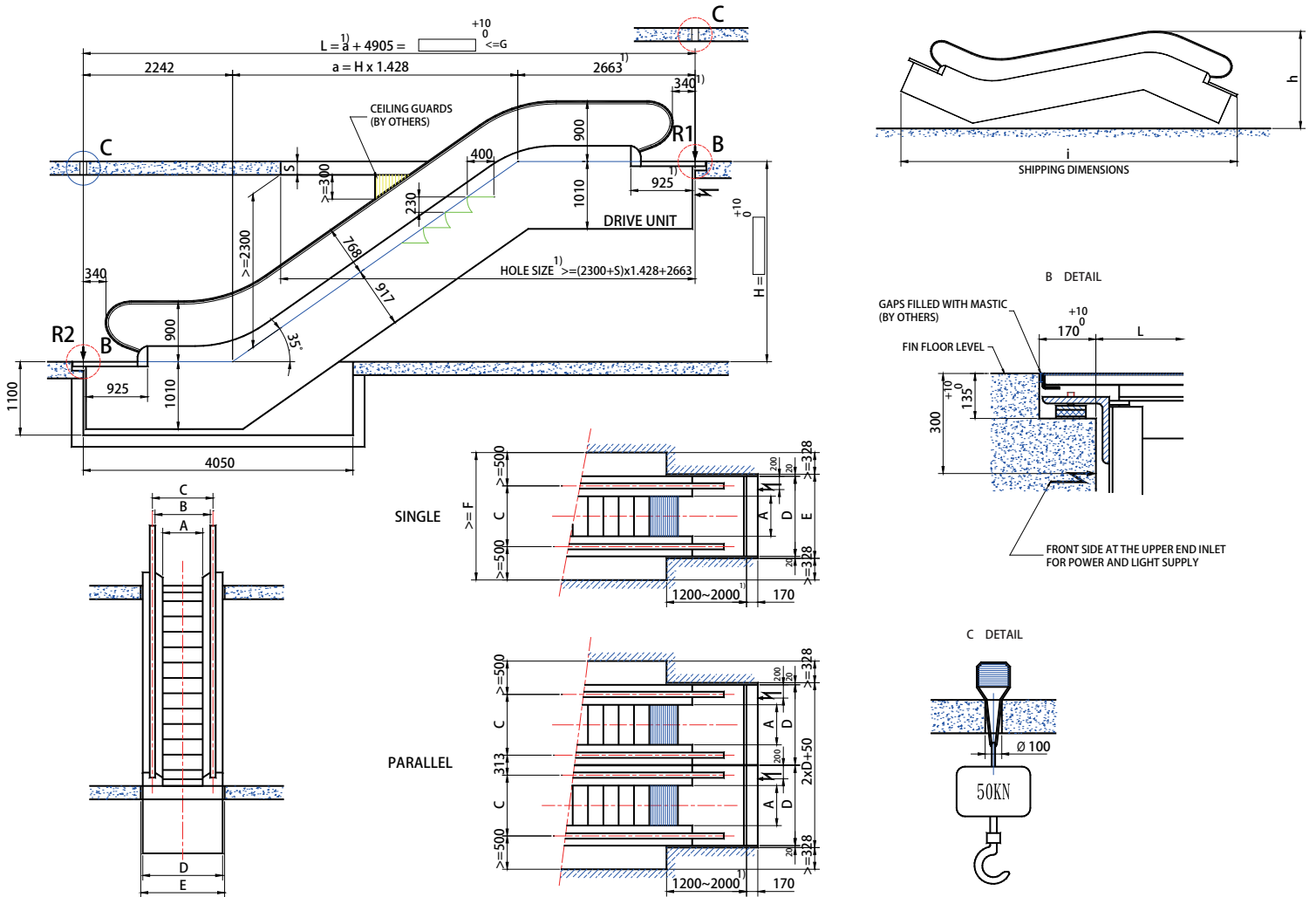
	Step width		
	1000 mm	800 mm	600 mm
A : Step width	1000	800	600
B : Width between handrails	1157	957	757
C : Handrail center distance	1237	1037	837
D : Width of escalator	1540	1340	1140
E : Width of shaft	1580	1360	1180
F : Minimum spacing	2236	2036	1636
G : Maximum outreach	16000	17200	18900

1. If $L > G$, an intermediate support is required, please consult.
2. If step width is 600mm, upper truss shall increase 417mm.
3. Detailed motor power parameters may check with our technical department

mm size units, individual size may be revise.



Floor plan of HS-200-35K Commercial Escalator



Type	Rise	Weight	Support Loads		Power kw	Transport size	
			R1	R2		H	I
30-60K 4500 man/hour	H	KN	KN	KN	$v=0.5\text{m/s}$	H	I
	3000	54	43	39	5.5	2291	10458
	3500	57	46	41		2345	11309
	4000	60	49	44		2389	12163
	4500	64	52	46	8	2425	13019
	5000	67	54	49		2456	13877
	5500	70	57	51		2481	14737
6000	73	60	54	2503		15598	
30-80K 6750 man/hour	3000	58	49	44	5.5	2177	10073
	3500	60	52	47		2219	10926
	4000	63	56	50	8	2253	11782
	4500	66	59	53		2281	12640
	5000	70	62	56		2304	13500
5500	73	65	59	11	2324	14362	
6000	76	69	61		2340	15224	
30-100K 9000 man/hour	3000	60	56	50	8	2177	10073
	3500	64	60	53		2219	10926
	4000	67	64	57		2253	11782
	4500	71	67	60	11	2281	12640
	5000	74	71	67		2304	13500
	5500	78	77	69		2324	14362
6000	82	81	72		2340	15224	

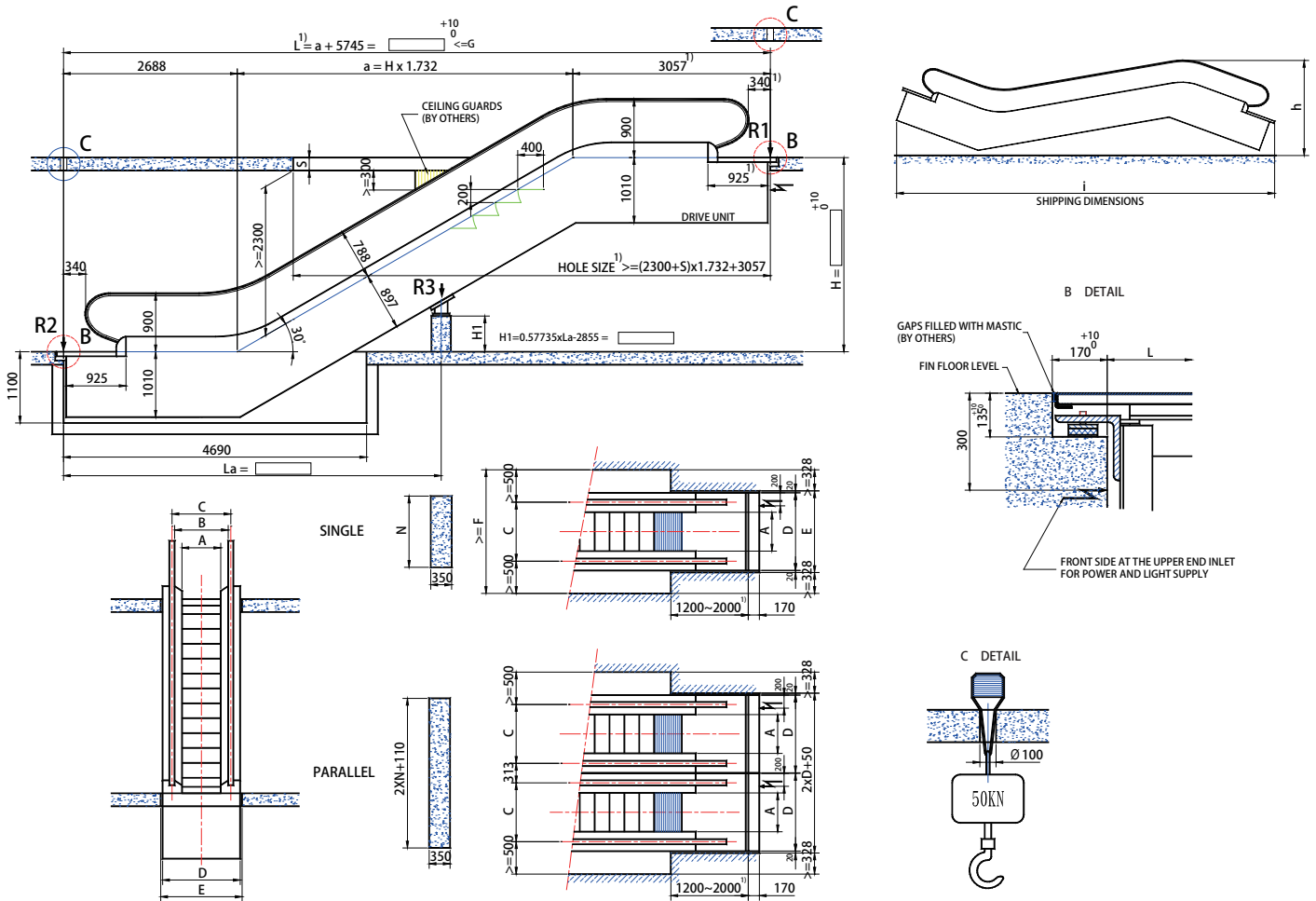
mm size units, individual size may be revise.

	Step width		
	1000 mm	800 mm	600 mm
A : Step width	1000	800	600
B : Width between handrails	1157	957	757
C : Handrail center distance	1237	1037	837
D : Width of escalator	1540	1340	1140
E : Width of shaft	1580	1360	1180
F : Minimum spacing	2236	2036	1636
G : Maximum outreach	16000	17200	18900

1. If $L > G$, an intermediate support is required, please consult.
2. If step width is 600mm, upper truss shall increase 417mm.
3. Detailed motor power parameters may check with our technical department.



The Construction Layout Drawing of HS200 Medium Height Commercial Escalator



Type	Rise	Weight	Power/kw
30-80M 6750 man/hour	H	KN	v=0.5m/s
	6000	89	11
	6500	95	
	7000	99	
	7500	102	
	8000	106	15
	8500	115	
	9000	118	
	9500	122	2x8
	10000	126	
30-100K 9000 man/hour	6000	94	15
	6500	100	
	7000	104	
	7500	113	
	8000	117	2x8
	8500	121	
	9000	125	
	9500	129	
10000	133	2x11	

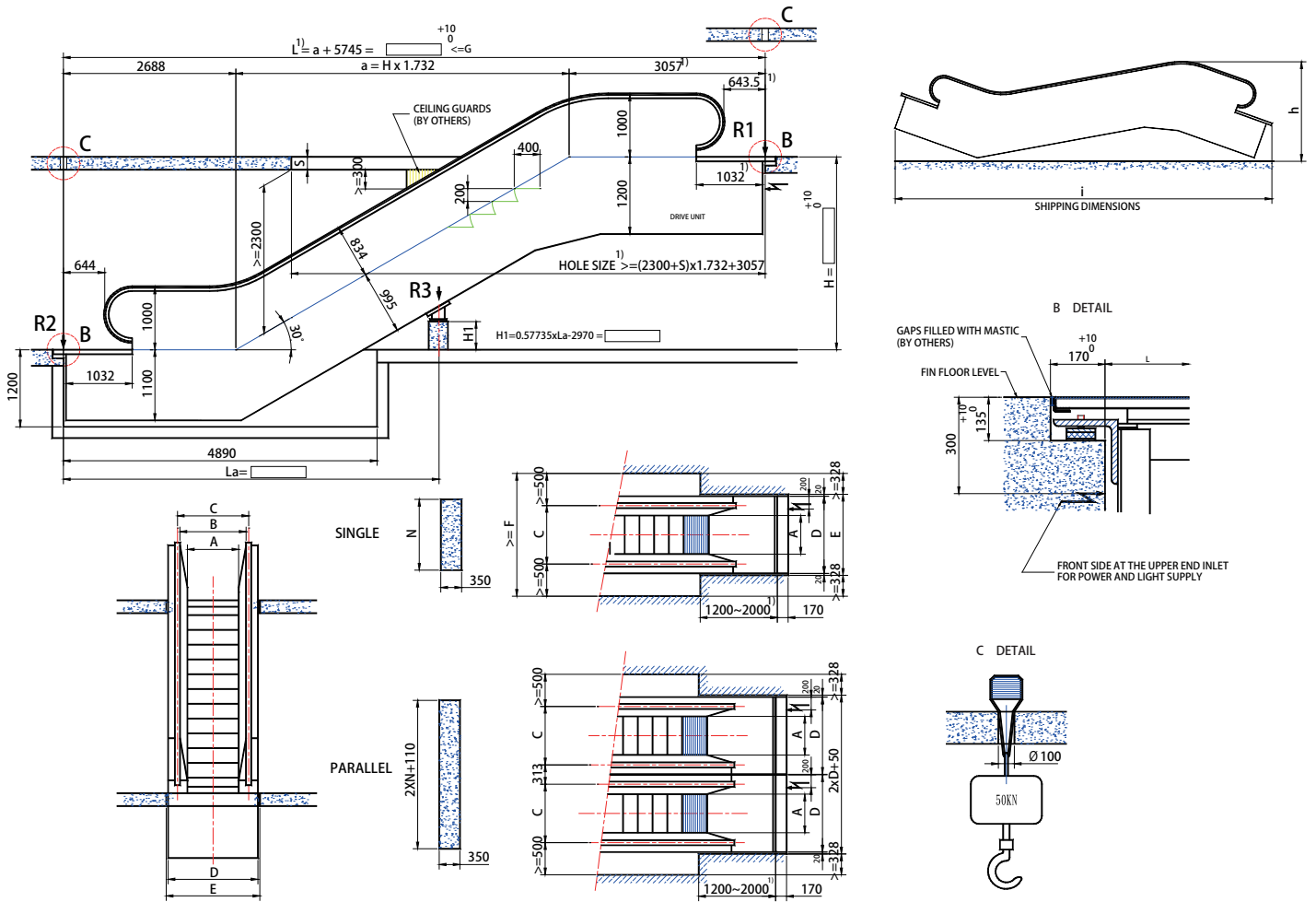
	Step width	
	1000 mm	800 mm
A : Step width	1000	800
B : Width between handrails	1157	957
C : Handrail center distance	1237	1037
D : Width of escalator	1540	1340
E : Width of shaft	1580	1360
F : Minimum spacing	2226	2036
G : Maximum outreach	16000	17200
N : Width of supporting	1500	1300

- 1.If $L > G$, an intermediate support is required, please consult.
- 2.With a double drive and Step width of 600 mm, the truss must be extended by 417 mm.
- 3.Detailed motor power parameters may check with our technical department.

mm size units, individual size may be revise.



The Constructuion Layout Drawing of HS200 Public Traffic Type Stainless Steel Slant Handrail Escalator



Type	Rise	Weight	Support Loads		Type	Rise	Weight	Support Loads	
	H		KN	v=0.5m/s		v=0.65m/s		H	KN
30-80K 6750 man/hour	3000	80	8Kw	8Kw	30-100K 9000 man/hour	3000	85	8Kw	11Kw
	3500	85	8Kw	8Kw		3500	89	8Kw	11Kw
	4000	89	8Kw	11Kw		4000	93	11Kw	11Kw
	4500	92	8Kw	11Kw		4500	97	11Kw	11Kw
	5000	96	11Kw	11Kw		5000	101	11Kw	15Kw
	5500	100	11Kw	11Kw		5500	106	11Kw	15Kw
	6000	103	11Kw	15Kw		6000	109	15Kw	15Kw
	6500	110	11Kw	15Kw		6500	115/120	15Kw	2*8Kw
	7000	114	11Kw	15Kw		7000	119/124	15Kw	2*8Kw
	7500	117	15Kw	15Kw		7500	129	2*8Kw	2*11Kw
	8000	121/127	15Kw	2*11Kw		8000	133	2*8Kw	2*11Kw
	8500	131	2*8Kw	2*11Kw		8500	137	2*8Kw	2*11Kw
	9000	134	2*8Kw	2*11Kw		9000	141	2*8Kw	2*15Kw
	9500	138	2*8Kw	2*15Kw		9500	145	2*11Kw	2*15Kw
	10000	142	2*8Kw	2*15Kw		10000	150	2*11Kw	2*15Kw
	11000	150	2*8Kw	2*15Kw		11000	158	2*11Kw	2*15Kw
12000	157	2*11Kw	2*15Kw	12000	166	2*15Kw	2*15Kw		
13000	165	2*11Kw	2*15Kw	13000	175	2*15Kw	2*15Kw		
14000	173	2*15Kw	2*15Kw	14000	183	2*15Kw	2*15Kw		
15000	180	2*15Kw	2*15Kw	15000	192	2*15Kw	2*15Kw		
16000	189	2*15Kw	2*15Kw	16000	200	2*15Kw	2*15Kw		

	Step width		
	1000 mm	800 mm	600 mm
A : Step width	1000	800	600
B : Width between handrails	1157	957	757
C : Handrail center distance	1237	1037	837
D : Width of escalator	1540	1340	1140
E : Width of shaft	1580	1360	1180
F : Minimum spacing	2236	2036	1636
G : Maximum outreach	16000	17200	18900
N : Width of supporting	1500	1300	1100

- If $L > G$, an intermediate support is required, please consult.
- With a double drive and Step width of 600 mm, the truss must be extended by 417 mm.
- Detailed motor power parameters may check with our technical department.

PERFECTION IS OUR GOAL

SAFETY EFFICIENCY COMFORT ENVIRONMENT SPACE



Space

Contact with your life

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