



OTIS

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Excellent Service E-mail: SE.IBD@otis.com

All Rights Reserved XOP 2012-1-1 **OTIS**

XDP Travolator





XIZI OTIS

Otis holding company in China, with the fastest development, highest cost efficiency, and greatest potential, Xizi Otis has been playing as one the most excellent operation entity in the Otis family.

Xizi Otis has the largest escalator and travolator production center of the Otis family, with a production capacity of more than 5000 units. The annual elevaor production (new equipment) is more than 33,000 units.

Since founded in 1997, Xizi Otis has been successfully applied the advanced Otis technology and the most matured world-class management system. And it is all along standing as the pioneer of the energy-saving and environment-friendly innovation.

Now, Xizi Otis is recognized as one of the top largest elevator, escalator and move walkway's manufacture & service provider. Such a great growth achieved by Xizi Otis is regarded as the legend in the China elevator industry.



XOP

Based on Otis advanced technology, the XOP travolator is designed and produced to apply for supermarket, airport, commercial mall, etc. Through the rigid quality system, it not only fully satisfied the operation practicality, but also bring passenger with humanized design.

XOP characterizes itself as high quality and reliability, safety, flexibility and energy saving.

Quality & Reliability

XOP travolator fully utilizes the Otis' advanced designing process-PDP. It has been proved as the Otis' most matured worldwide moving walkways product.

Through the stringent quality control system, and company's enforcement on all along pursuing the higher quality, XOP is deemed as the most qualified and reliable product; it effectively eliminates the operation failure and shortens the maintenance time.



EM-W1

- •SIEMENS gearbox, most mature -reducer in travolator industry. •High efficient worm gear box.
- Integrated Non Reversal
- -Device / Motor thermal
- -device / Motor cover control;
- -Optional Control contact for
- -lifted Brake / Brake lining wear
- -/Mechanical overspeed governor.
- Compact design and small size.Low noise and smooth operation.



Multiple chain designed main drive wheel is with a strong broken strength. Such a compact and vigorous structure strengthens the reliability of the whole driving system, and as well promotes efficiency and riding quality.



Otis initiated tube structure truss with a robust design; it greatly improve the overall running stability and service life. The Otis blue painting renders the whole truss a protection against rustiness and corrosion.



Anti-slip grooves on the pallet surface have excellent slip-proof function to make the ride safe and comfortable. Slightly inclined combs can make the trolleys easily get on and off.



As new generation escalator control system platform, GECS controller with 32 bit microprocessor can be configured for different functional requirement. GECS used as standard configuration for all the escalators and travolators of Xizi Oils.

Safety

The safety devices, electrical safety devices, structures and all their components are strictly in accordance with EN115. In European Union, we can provide travolators with EN115-2008 which presents the highest performance on safety for travolators. Also, we could supply travolators with EN115-2008 for other districts as option.

Comb Plate Contact

Floorplate Safety Contact

A safety switch is installed under the floorplate

switch will initiate, stopping travolator operation

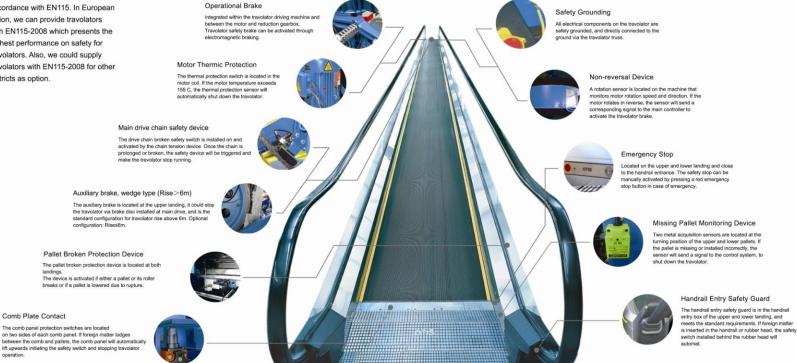
to ensure proper floorplate positioning. If the

floorplate is not properly closed, the safety

until the floorplate is properly closed.

operation.

Standard Safety Devices



Broken chain protection device

will initiate stopping the travolator.

The safety switch is located on the tensioning

carriage of the lower landing. If the pallet chain

breaks or stretches abnormally, the safety switch



Optional Safety Devices

Option	Description
5 Dry Contact	5 Dry Contact, provide contact for up/down/emergency stop/fault/running signal to monitor system.
Control Contact For Brake Lining Wear	When the brake linings are worn, the controlling switch is activated ,and it prevents the machine from starting. If this happens, a maintenance job is necessarily carried out for the brake, and the brake lining must be replaced immediately.
The Brake Lifting Monitor	The operational brake control switches prevent starting the machine in case the operational brake is closed.
Loose Or Broken Handrail Protection Device	If the handrail stretches or breaks, the safety switch will initiate to stop the travolator.
Handrail Speed Monitoring Device	When the handrail running speed becomes abnormally (too fast or too slow), the sensor for monitoring handrail speed will send a signal to the control system to stop the travolator.
Skirt Panel Safety Protect Device	The safety switches located at upper and lower landing. If an object is blocked between the skirt panel and pallets at the position where safety switch located, and causing skirt panel deflection exceed the limit, then the skirt panel safety switch will initiate stopping travolator.
Skirt Panel Brush	Located on both sides of the skirt panel, the skirt panel brush protects passenger's clothing from getting snagged between the skirt panel and side plate.
Sprinkler System (Non-Standard)	Installed within the travolator body. In case of fire, the sprinkler system automatically initiates within the travolator or building.

Flexibility

XOP can be operated at temperature +4℃~+40℃, and with humidity <85%. It has a great flexibility to cater for different occasions.

The Microcomputer Control System, robust machine, a unique rectangular steel tube frame and the use of automatic refueling system, that makes XOP more suitable for real way station, supermarkets, airports and tourism channel, etc.



Supermarket



Shopping mall



Marketplace



Airport

Standard Specification

Inclination	10°/ 11°/ 12°
Rise	1.5-10m
Pallet Width	800/1000mm
Speed	0.5m/s
Arrangement	Single/Side by side/Scissors

Max Transport Capacity

Rating Speed (m/s)	Pallet Width (mm)	Capacity Person/Hour
0.5	800	6750
0.5	1000	9000







Energy Saving

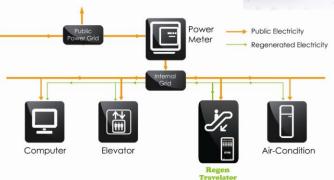
Regen Technology

XOP travolator introduces OTIS energy regenerative technology as option. OTIS Regen technology could convert the reduced system potential energy to electricity energy. Regen technology can also filter the regenerated electricity energy and make it clean enough to be re-used.

Benefits

- Increase the geard Permanent Magnet machine efficiency by 6%
- Save energy about 40% in average
- > OTIS regenerative drives save and regenerate energy by following 3 approaches:
 - Energy saving by means of idle speed running travolator when no passenger on the travolator
 - Energy saving by high efficiency of permanent magnetic machine over all passenger load in VF mode
 - Energy regenerating by the down running mode when generating power





Running Mode

The ETA-Plus Running Mode is standard mode of the operation used under normal circumstances, which is suitable for most of the application.

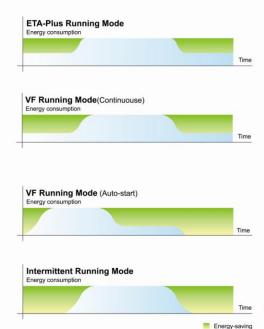
The VF Running Mode is generally applicable for low traffic flow locations such as hotels and office buildings.

In "Continuouse" Mode, the travolator will slow down while no passenger on it.

In "Auto-start" Mode,once the travolator sense that there is no passenger on the escalator,it will slow down. And moments later, the travolator will stop.

VF mode cuts down on noise levels and can save considerable energy depending on passenger flow.

The Intermittent Running Mode is designed for museum or exhibition center where daily traffic flow is inconsistent with long periods of little or no traffic.



Green Lubrication System

This oil lubrication system is electronically controlled. It is a complete system with consistent pressure, it reliably supplies exact amounts of oil to lubrication points. Each lubrication point can be supplied with a different amount of oil.

- No drip-off oil
- A No step and bottom plate contamination
- ▲ Less clean-downs on units
- Minimal maintenance efforts
- ▲ Maintenance cost reduction
- Extended Lifetime of chains
- Reduced wear of step chain, main drive chain and handrail drive chain



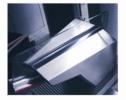


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Stylish Design



To satisfy the customization from different users, XOP is offering many options to choose. With these stylish designs, while satisfying customer's requirement, it can reach a perfect harmonious combination with the building environment in vicinity. Thus besides bringing passenger a safe and quiet riding, it renders a graceful aesthetical appreciation as well.



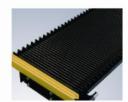
Stainless steel handrail entry box as standard.



Painted steel handrail entry box as option.



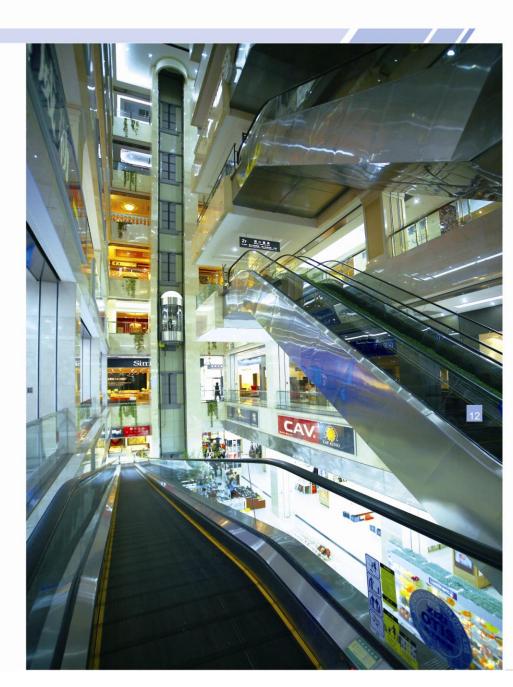
Various handrail colors meet different environment.



Stainless steel is the standard material for pallet.



Die-cast aluminum is the optional material for pallet.



Then horizontal span L>30000, add 2 intermediate supports, bi portionally.

4. Safety protection barrier with enough strength which is not less th

e placed around all the holes of escalator before installation.

The out should be impervious to infiltration of water. And the drainens hole should be

5. The pit should be impervious to infiltration of water. And the drainage hole should be in toponer of the pit.

omer of the pit.

placed in the machine room with protection, switch and locked off. The fluctuation of the wer supply should be less than ±7%. The neutral conductor and the protection conductor

power supply should be tess than 2.7%. The neutral conductor and the protection conductor should always be separate, and the ground resistance should be no more than 4.9.

, when the distance between the centarine of the handrali and any obstacle is less than .5m, a vertical obstruction of not less than 0.3m in height, not presenting any sharp outting

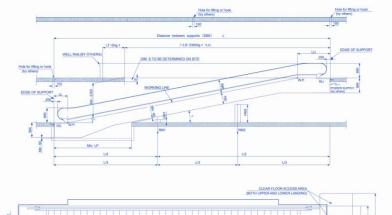
Adopt 10mm* soft wire cable as the power supply cab. (by others)

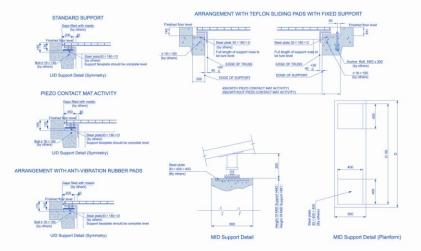
9. The corresponding parameter of machine should refer to SEB.

10. The drawing is only for EM-W1 or EG-M

MEMO: MID support beam by local formula: (mm HM1=(L1-L3)Xtg = -(760/cos = +250)







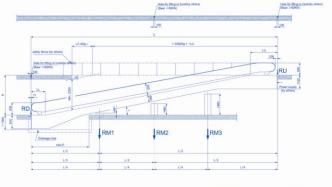


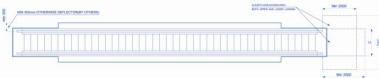
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TRAVALATOR XOP-NC H≤6000mm LAYOUT

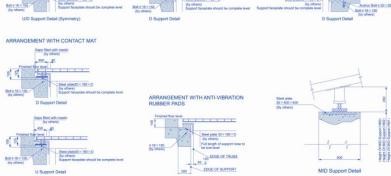
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MID Support Detail (Planform)









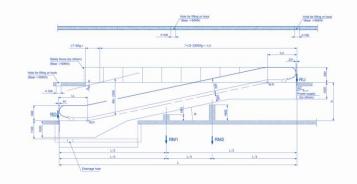
Angle	SPEED (m/s)	Step width A(mm)	SPAN L(mm)	min LP	LU	LL	LS	В	С	min D	E	K1	K2	КЗ
10"		1000		5290	2022	1075		1237	1590	1700	1560	15000	30000	45000
10		800	5.6713H+3097	5290	2022	1075		1037	1390	1500	1360	15000	30000	45000
	2.20	1000	5.1446H+3155	4950	2080	1075 2300/10		1237	1590	1700	1560	15000	30000	4500
1111	0.5	800		4950			2300/tg a +LU	1037	1390	1500	1360	15000	30000	4500
12"	1000	4.7046H+3210	4650	2135	1075		1237	1590	1700	1560	15000	30000	4500	
		800	4,704011*3210	4000	2130	1070		1037	1390	1500	1360	15000	30000	4500
				Rea	ction t	o suppo	rt in K	N (L	in m)		(1KN=	100	g)
Step wid				Rea	ction t	o suppo	rt in K	N (L	in m)	80		1KN=	100	(g)
(mm)	of	RD			ction t	o suppo	ort in K	Ì	in m)			1KN=		(g) RM3
(mm) Number	of	RD		1000				D		R	0			
Number Suppor	of		RU	1000 RM1	RM2	RM3	RI	D +3.5	RU	F. 5.3L	0 M1	RM2	: 1	RM3

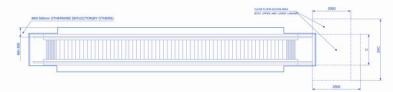
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TRAVALATOR XOP-NPC 6000<H<10000mm LAYOUT

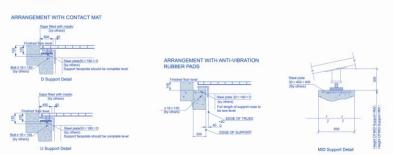
XOP Travolator

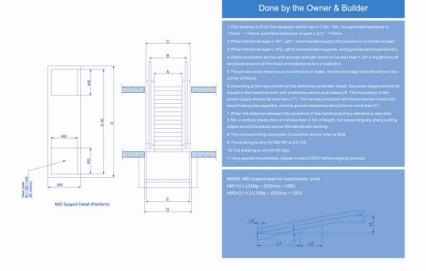
XOP Travolator











Angle	SPEED (m/s)	Step width A(mm)	SPAN L(mm)	min LP	LU	LL	LS	В	С	min D	E	K1	K2
10°		1000		5990	1999	2316		1237	1590	1700	1560	15000	30000
10-		800	5.6713XH+4315	0990	1999	2310		1037	1390	1500	1360	15000	30000
		1000	5.1446XH+4375	5660	2046	2329 2		1237	1590	1700	1560	15000	30000
11"	0.5	800	D.1440A71143/D	5000	2040	2328		1037	1390	1500	1360	15000	30000
		1000	4 7046XH+4440	5275	2005	2345		1237	1590	1700	1560	15000	30000
12*		800	4.704020774440	5375	2095	2345		1037	1390	1500	1360	15000	30000
			Re	eactio	n to	suppo	ort in KN	(L in	m)	(1	KN=	100kg)
Step w				eactio	n to	suppo	ort in KN	(L in	m)	(1		100kg)
(mm	r of	RD				suppo		(L in	,				RM2
(mm Numbe	r of	RD 4.9L+6.2	10	000	11		/12 F		F	80	00	11	
Numbe Suppo	r of		RU RU	000 RN	11	RM	/12 F	RD	F 4.25	80 RU	00 RN	11	RM2

NOTE:DO NOT SACALE THIS DRAWING, UNLESS OTHERWISE STATED.

TRAVALATOR XOP-NI H≤6000mm LAYOUT