# travel m

# The most perfect staj Irs competitor.

#### Lebanon

Mitsulift Lebanon S.A.L. Mitsulift House **Dbayeh Main Road** Metn 2502-5421 T 961-4-542803 M 961-3-499336 F 961-4-542808

#### Cyprus

Mitsulift Cyprus Ltd. 21 Markos Drakos Ave. Pallouriotissa 1621 Nicosia P.O. Box: 29078 T 357-22-793333 F 357-22-438995

#### Ghana

Mitsulift Ghana Ltd. Octagon Building, 8<sup>th</sup> Floor Kinbu Garden, Accra Central P.O. Box: CT 7667 Cantonments, Accra T 233-30-274-7207 M 233-54-012-1414 F 233-30-274-7208

#### Greece Mitsulift Hellas S.A. The Orbit Athens

Kifissias Avenue 115 Athens 11524, Greece T 30-210-9400848 F 30-210-9412465

#### **Ivory Coast**

Mitsulift Côte d'Ivoire S.A. Arc-En Ciel Building 3<sup>rd</sup> Floor, Apartment A Rue du Canal, Zone 4 18BP 203 Abidjan 18 Abidjan, Côte d'Ivoire T 225-21-574755 M 225-88-719238

#### Jordan

Mitsulift Jordan LLC Bldg. no. 3, 1<sup>st</sup> Floor Ibrahim Al-Qatan St. Hai Rawabi 7<sup>th</sup> Circle, Amman T 962-6-5885829 M 962-79-6978958 F 962-6-5885867

Malta Mitsulift Malta Ltd. Centre House, Level 1 Valleta Road Qormi QRM 3619. Malta T 356-21-450120

#### Nigeria

Mitsulift Nigeria Ltd. Nipost Towers Block A, 4<sup>th</sup> Floor No 1/3 Ologun Agbaje Street Victoria Island, Lagos T 234-1-4623808 M 234-818-000-4111

#### Svria

Mitsulift Syria Ltd. Rouya 1 Building The Eighth Gate, Yafour Damascus P.O. Box: 3 Yafour T 963-11-3943680/1/2/3 M 963-944-256688 F 963-11-3943684

A to B effortlessly.

travel m – smartly taking you where you need to get to, throughout different levels, vertical or horizontal, bridging destinations without having to take a single step.

mitsulift thinks beyond the boundaries of movement. Escalator and moving walks for the enhancement of people's mobility.



travel m

#### Contents

Product Presentation travel m Handrails and balustrades Steps, decks and floor covers	<b>05–09</b> 05 07 09
Product Information and Specifications	11–21
Product Overview - escalators	12
Arrangement Plan – escalators	13
Product Overview - moving walks	
Arrangement Plan - moving walks	15
Standard Features	16–17
Optional Features	18–19
Materials, colors and surfaces	20–21
Technical Specifications	22–27
Escalators	22-23
Moving walks 1	24-25
Moving walks 2	26-27



### travel m Step into smart flexibility.

#### Durable outside, elegant in sight.

Travel m is the ideal conveying companion in both commercial or public environments. Indoor or semioutdoor, it functions with intelligence and an adaptive flexibility providing superior user-friendly technology.

Our escalators and moving walks are built for durability and practicality. Assembled materials, elements and finishes are manufactured to the highest industry standards. Offering a variety of aesthetically appealing models in customizable dimensions, travel m conforms to varied environments and design needs.

Robust safety mechanisms, excellent energy efficiency, low decibel audibility and smooth operational maintenance are standard across all of our escalator and moving walk ranges. Smart integrated operating modes optimize low energy use, reducing overall running costs while ensuring a humble contribution for a greener planet.

All manufacturing and assembly processes of travel m systems are in rigorous compliance with the requirement standards of EN115-2017.

### Handrails & balustrades. Graceful combinations.



### Smooth feel, secure grip.

Personalize escalators and moving walks with three optional handrail colors to best suit your environment: jet black, charcoal grey or fire red.

Horizontally placed or vertically positioned, travel m handrails never shift from their base mounts, assuring passengers with grip security no matter the duration of the ride.

Balustrades crafted from slim profile safety panels seamlessly integrated with precise interlocking vertical joints, guaranteeing secure discreet finishing. Available in either clear glass, smoked glass or stainless steel.

Distinguish your travel m escalator or moving walk with LED railing or skirting illumination - adding extra luminescence, aesthetic appeal and visibility in low light situations.

# 0

Travel m handrails are produced using strong factory-spliced closed loops with integrated nylon cord girding layer. This manufacturing process ensures a durable life expectancy for all our handrails, enduring daily wear and tear with great efficacy.



### Moving without walking.

Our steps are synchronized and soundly integrated within the overall operational efficiency and safety mechanisms of our escalators. Minimizing overload, overheating and dropping to a lowest.

The steps are resilient, easily maintainable and virtually silent when running. Step demarcation in yellow synthetic resin for quicker visibility is optional.

Travel m decks, manufactured from plain stainless steel. They securely harness all components for mechanical, electrical, rail, and step systems. Their computer systems ensure continuous motion detection, stair activation, brake safety, and an operational panel for live feed monitoring.

Travel m floor covers add the finishing touch to the first or final step. An etched stainless steel panel clearly demarcates either the starting or ending point. All floor covers assure firm foot grip for steadier boarding and softer landing.

Step on. Step off.

Travel m steps are produced from die-cast aluminum and are scratch resistant. They are built with vertical anti-slip grooves as standard.

### travel m – Product Information



### **Product Overview – escalators**

### Arrangement Plan

Detail	Description					
Inclination	30° or 35°.					
Rise and Inclination	Starting at 2 meters up to 6 meters: 35°.					
	Starting at 2 meters up to 7.5 meters: 30°.					
Step Width	600mm, 800mm or 1000mm.					
Speed	0.5 m/s.					
Power Supply	AC 3 phase. 5 wire 50Hz/60Hz.					
Application	Indoor and Semi-Outdoor.					
Balustrade Design	Slim profile safety tempered glass with a thickness of 10mm in either clear or smoke.					
	Stainless steel with hairline finish.					
	Balustrade height of 1000mm.					
Handrails	Factory-spliced closed loops with nylon cord girding layer in Black, Grey or Red.					
Handrail Entrance	Black plastic.					
Deckings	Hairline stainless steel.					
Skirting Panel	Hairline stainless steel.					
Steps	Aluminium alloy die-cast steps in silver grey.					
	With or without yellow synthetic resin demarcation.					
Skirt Panels	Brushed stainless steel with integrated skirt brushes.					
Lighting (optional)	LED skirt lighting in white. LED handrail lighting in white.					
Floor & Combplate	Engraved stainless steel without plain combfingers.					
Covers	Floor name engraved on stainless steel (optional).					
Operating Panel	Red emergency stop button and up/down key switch.					



Crisscross Continuous Arrangement.

### Product Overview – moving walks

### Arrangement Plan

Detail	Description		
Inclination	0°, 10°, 11° or 12°.		
Rise and Inclination	Starting at 2 meters up to 7.5 meters: 10°, 11° or 12°.		
	Starting at 20 meters up to 120 meters: 0°.		
Step Width	800mm or 1000mm for inclinations of 10°, 11° or 12°.		
	1000mm, 1200mm or 1400mm for inclinations of 0°.		
Speed	0.5 m/s.		
Power Supply	AC 3 phase. 5 wire 50Hz/60Hz.		
Application	Indoor and Semi-Outdoor.		
Balustrade Design	Slim profile safety tempered glass with a thickness of 10mm in either clear or smoke		
	Stainless steel with hairline finish.		
	Balustrade height of 1000mm.		
Handrails	Factory-spliced closed loops with nylon cord girding layer in Black, Grey or Red.		
Handrail Entrance	Black plastic.		
Deckings	Hairline stainless steel.		
Skirting Panel	Hairline stainless steel.		
Steps	Aluminium alloy die-cast steps in silver grey.		
	With or without yellow synthetic resin demarcation.		
Skirt Panels	Brushed stainless steel with integrated skirt brushes.		
Lighting (optional)	LED skirt lighting in white. LED handrail lighting in white.		
Floor & Combplate	Engraved stainless steel without plain combfingers.		
Covers	Floor name engraved on stainless steel (optional).		
Operating Panel	Red emergency stop button and up/down key switch.		



Crisscross Continuous Arrangement.

Parallel Interrupted Arrangement.

### **Operational Features**

Standard Features	Description
Emergency Stop Button	A button that immediately stops the escalator in emergency situations.
Start Key Switch	A tri-state self-reset switch meant to start the escalator.
Handrail Safety Guard	A safety device that stops the escalator when physical contact or blockage is detected between the handrail and the inlet.
Step Chain Safety Device	A safety device that stops the escalator if the Step Chain breaks or stretches beyond an acceptable limit.
Step Level Safety Device	A safety device that stops the escalator if the horizontal level of the step has dropped and if the step can no longer mesh with the comb plate.
Phase Monitor	The phase monitor stops the escalator immediately in the case of any phase dislocation or phase loss of the input power supply.
Zinc Steel Flying Wheel Cover	The zinc steel flying wheel cover protects the motor's flying wheel from any potential damage during maintenance service.
Overload Detection Device	A safety device that stops the escalator if overload is detected either by abnormal current or drive motor temperature change.
Overheat Detection Device	A safety device that stops the escalator if motor overheating is detected.
Comb-Step Safety Device	A safety device that stops the escalator if a foreign object becomes stuck in the gap between the Step and the Comb.
Maintenance Interlock Switch	A maintenance switch that restricts the Start Key Switch of the escalator from being activated when the inspection handle is operated.
Buzzer	A warning system located on the outer decks warning passengers that the escalator is about to start.
Missing Step Safety Device	A safety device that immediately stops the escalator if any step is missing.
Anti-Static Handrail Roller	A roller that removes any potential static electricity from the moving handrails.
Anti-Static Step Brush	A brush that removes any potential static electricity from the steps of the escalator.
Brake Safety Device	A safety device that stops the escalator if it detects that the service break is not breaking properly or failing to break at all.
Soft Stop Device	A device that reduces the speed of the escalator before braking is activated in order to prolong the life-span of the brakes hence reducing service visits.

Standard Features	Description				
Handrail Speed Safety Device	A safety device that stops the escalat an unusual speed or if they fail to syn loosening or breaking of the Moving				
Power Box Switch	Used to activate or deactivate the eso				
Landing Plate Switch	A switch that auto-activates to stop t plate (maintenance cover) is removed				
LCD Operation Panel	An LCD screen that displays the opera faults or shortcomings.				
Step Upthrust Device (Escalators Only)	A safety device that stops the escalat steps dislocating the step. Also preve				
Speed Governor Device	A safety device that stops the escalat rated speed or beyond. This device w drive motor and the brakes in case ac				
Auto Lube System	A device that keeps the drive, steps a lubricated. This feature is a standard,				
Circuit-Breaker Safety Device	A device that stops the escalator in ca detected in the electrical circuit.				
Fire Stop Device	A device that stops the escalator whe The fire signal supplied by the buildir contact.				

tor in case the handrails are running at achronize with the Steps due to slippage, Handrails.

calator. Situated in the top machine room.

the escalator when detecting that the landing

ational state of the escalator as well as possible

tor in case an object gets trapped between two ents the steps from dropping.

tor should the speed increase to 120% of the will also cut down the power supply to the main ccidental reversal is detected.

nd handrail drive chains well oiled and yet it is mandatory for outdoor applications.

ase any short-circuit or earth leakage is

en a signal of fire-fighting action is received. ng's fire system should be NC, dry (passive)

<b>Optional Features</b>	Description
Electromagnetic Brake	A safety device that stops the escalator in the case of power failure, or if any safety device or Emergency Stop Button gets activated. This feature is mandatory for escalators extending beyond six meters.
Drive Chain Safety Device	A safety device that stops the escalator if the Drive Chain breaks or stretches beyond an acceptable limit.
Remote Monitoring	A system that monitors the status of the escalator with computers through four dry contacts. Available for Building Management Systems.
LED Traffic Indicators	Indicates to passengers the operational direction of the escalator, stop, no entry or other situations .
LED Comb Illumination	LED illumination in white located on both sides of the Comb Plates.
Step Gap Illumination	LED illumination in green under the Combs located at the top and bottom ends of the escalator.
Handrail Illumination	LED illumination in white located at the lower edges of the handrails.
Machine Room Illumination	Fixed lighting for top and bottom machine rooms.
Skirting Illumination	LED dot type or LED with diffuser type illumination on the Skirting Panels on both sides of the escalator.
Skirt Guard Safety Device	A safety device to stop the escalator in case a shoe or any other object gets stuck in the gap between the Step and the Skirt.
Zinc Steel Drive Chain Cover	The zinc steel cover protects the Drive Chain from any potential damage. This feature is mandatory for outdoor applications.
Handrail Safety Device	A safety device that stops the escalator in case the handrail damage is detected such as slippage, loosening or breaking.
Machine Room Steps	A set of steps located inside the top and bottom machine rooms for easier access during maintenance service.
Special Cable Requirement	Fire retardant or low smoke and haloge-free fire retardant.
Anti–Climb Device	A device that blocks passengers from climbing into the escalator from the sides.
Outside Cladding	Plain stainless steel with hairline finish – thickness of 1mm.
	Painted steel in a variety of RAL colors – thickness of 1mm.

<b>Optional Features</b>	Description				
Cable Protection	Metal or plastic raceway protecting c environmental threats. This feature is				
Skirting Brush	A single row of standard brushes with the Skirts. This feature is mandatory u				
Comb Heating	Mandatory for outdoor or semi–outdo temperature is below 4°C and in case environments. The heater is situated i the comb plate with an output of 1.5K				
Truss and Comb Heating	Mandatory for outdoor or semi-outdoo is below 0°C. The heater is situated ins				
Oil-Water Separation Device	A device that separates oil from water				
Float Switch Device	A safety device that stops the escalate machine room rises beyond the accep outdoor applications.				
Passenger Detection Device	A 3D sensor device located at the han Y-∆ stops the escalator in case no pas as soon as a passenger approaches to VVVF stops the escalator in case no pa again as soon as a passenger approac passengers are detected for some tim eventually come to a stop if no passen				
VF Energy Saving Device	A photocell sensor that makes the esc detected and then automatically acce a passenger approaches to enter the detected, the escalator will run back a				

cables from heat, humidity, corrosion and other s mandatory for outdoor applications.

n aluminium brackets located on both sides of under EN115 requirements.

bor applications where the ambient as where machine rooms are located in outdoor inside the upper and lower truss, right under (w.

or applications where the ambient temperature side the truss with an output of 1.5Kw.

r inside the machine rooms.

tor in case the water level inside the bottom ptable level. This feature is mandatory for

ndrail entrance.

ssengers are detected and makes it start again o enter the escalator.

bassengers are detected and makes it start ches to enter the escalator. In case no ne, the escalator will run at a slower speed and engers are detected in sight.

calator run at low speed if no passengers are elerate back to its normal speed as soon as escalator. In case no further passengers are at low speed.

## Materials, colors and surfaces

**Demarcation Line** 



Synthetic resin in yellow.

Landing Plate

Etched stainless steel.

Skirting

Illumination





Handrail illumination in white LED.

Skirting illumination in white LED.

Combplate

ululululu

Aluminium alloy steps in silver grey coating.

Steps

Decks



Silver grey coating.



Stainless steel in hairline finish.



Stainless steel with integrated black brush.

Moving Handrails

Jet Black.

Balustrade



Charcoal Grey.

Handrail Entrance

Indicators











Slim profile safety tempered glass - clear.

Slim profile safety tempered glass - smoke.

Black plastic.

Landing area no-entry sign in red LED.

Traveling direction entry sign in green LED.

Comb illumination in white LED.

Fire Red.

Slim profile stainless steel - hairline finish.

### **Technical Overview – escalators**

#### 1.1 Layout plan





#### **1.2 Technical specifications** All dimensions are in mm. Please note that dimensions are subject to change.

Step Width			600		800		1000		
A: Step width				600		800		1000	
B: Width between h	andrails			837		1037		1237	
C: Handrail center distance				1145		1345	1545		
D: Width of escalate	or			1200		1400		1600	
Horizontal Steps	а	AA	BB	сс	DD	FF	]]	кк	ММ
2 steps	30°	2195	2449	H x 1.732	2238	4200	870	7800	960
2 steps	35°	2229	2510	H x 1.428	2386	4000	850	7000	980
3 steps	30°	2595	2964	H x 1.732	2638	4600	870	8300	960
Transport Capacity	– persons	/hour		4500		6750		9000	
A: Step width		600		800		1000			



#### intermediate support



### Technical Overview – moving walks 1

2.1 Layout plan





Step Width		800	1000
A: Step width		800	1000
B: Width between handrails		1037	1237
C: Handrail center distance		1345	1545
D: Width of escalator		1400	1600
Inclination (angle a)	ш	кк	FF
 10°	H*3945+5.671	17700	4750
11°	H*3755+5.145	16700	4550
12°	H*3595+4,705	15800	4500
Transport Capacity at 12° – persons/hour		4800	6000
A: Step width		800	1000



intermediate support



### Technical Overview – moving walks 2

#### 3.1 Layout plan





#### **3.2 Technical specifications** All dimensions are in mm. Please note that dimensions are subject to change.

Step Width	1000	1200	1400
A: Step width	1000	1200	1400
B: Width between handrails	1237	1437	1637
C: Handrail center distance	1595	1795	1995
D: Width of escalator	1670	1870	2070
Transport Capacity at 0°- persons/hour	6000	6000	6000
A: Step width	1000	1200	1400



# 27



Floor finishing not by mitsulift



Reserved for steel plate

not by mitsulift

# A horizontal exploration of vertical living.

