

**Dream Ignite, Excellence Achieved**



**Hanson Lift (Suzhou) Ltd., Co.**

Add: :No. 99, Shunxiang Road, Changshu High-tech Industrial Park,  
Jiangsu Province,China

Tel: +086-512-52300585

Fax: +086-512-52906839

Post Code.: 215500

E-mail: Sales@hansonlift.com



[Http://www.hansonlift.com](http://www.hansonlift.com)



WeChat Official Account-hansonlift.

## Embedded Modernization Escalator



**E**Embedded  
**M**odernization  
**E**scalator



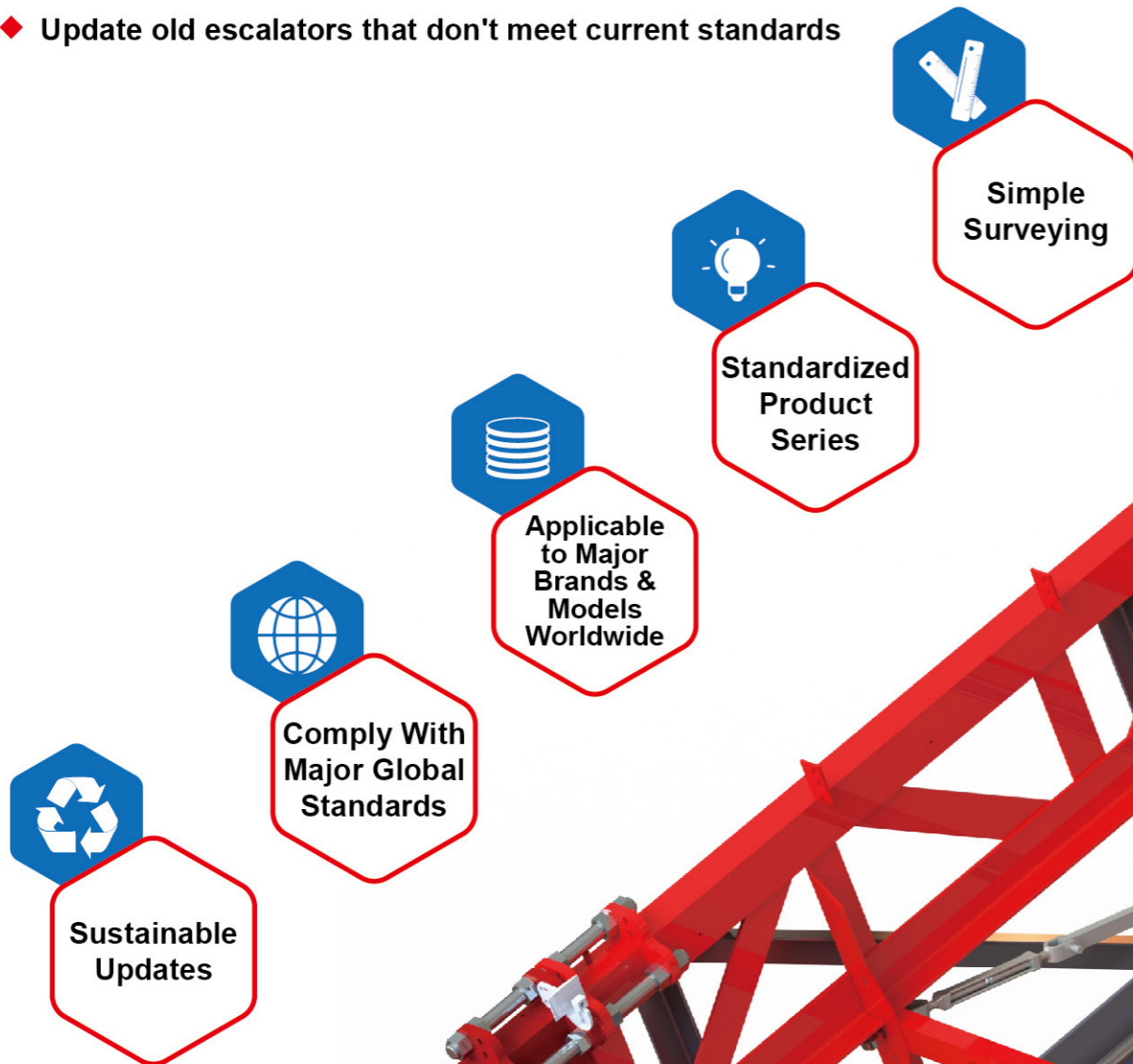
- ✓ Focus on escalator (Moving walks) technology
- ✓ Dedicated to manufacturing the safest escalator (moving walks)
- ✓ Provide the best escalator (moving walks) technology solutions and customized services worldwide
- ✓ Creating maximum value for customers





# Embedded Modernization Escalator

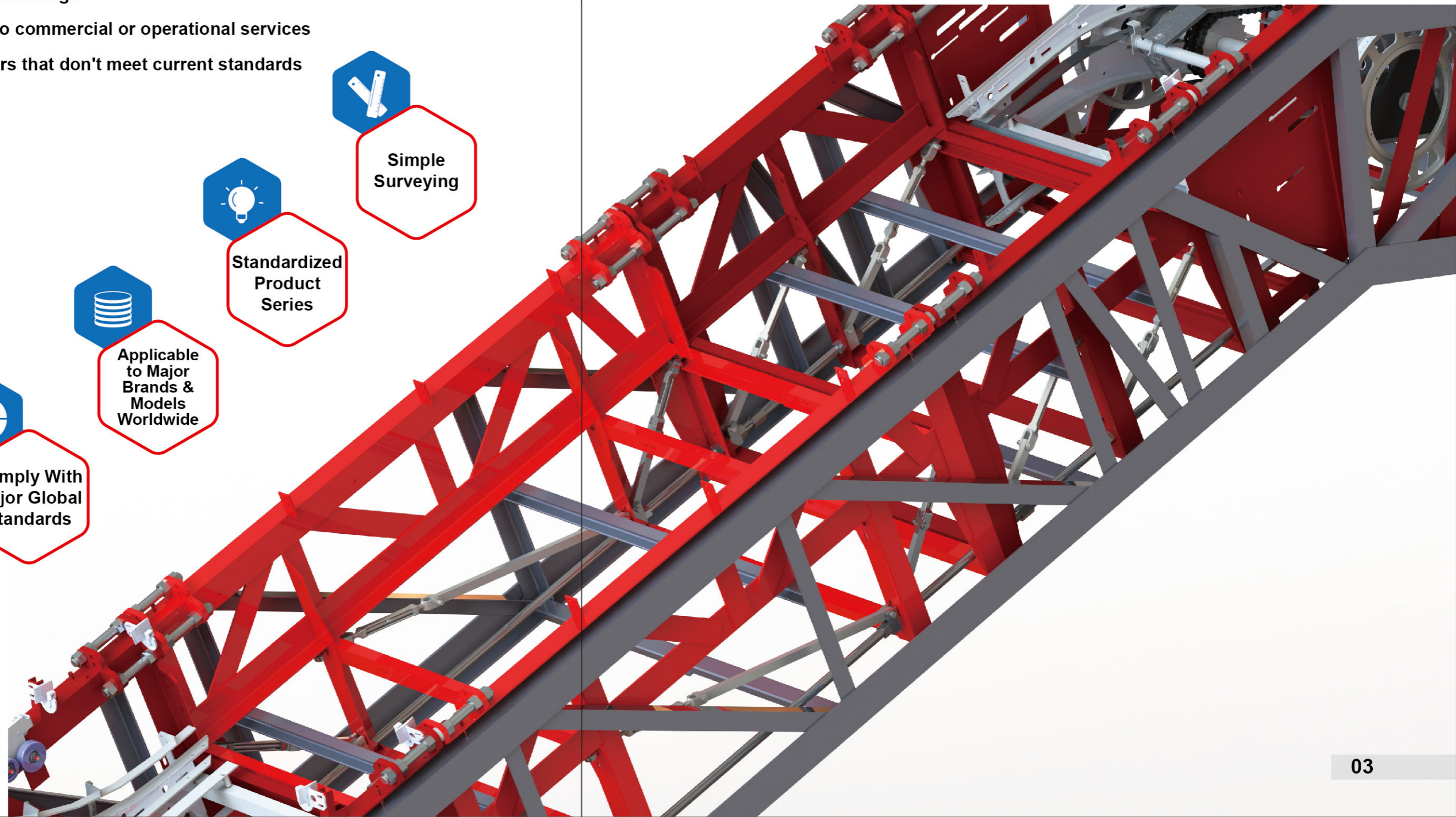
- ◆ Fully retain existing truss
- ◆ Modernization for the non-original brand and model of escalators.
- ◆ Minimize impact on buildings
- ◆ Reduce disruption to commercial or operational services
- ◆ Update old escalators that don't meet current standards



EME is a completely modernized escalator. The modules are inserted into the existing trusses and bolted together to form a double truss, achieving a perfect modernization of the escalator.

## Embeddable means modern!

The conventional renovation plan to retain the existing trusses is to modify the existing trusses and install new parts. In fact, it is a renovation of the old escalator rather than a complete modernization.





- ✓ The existing trusses, including the intermediate crossbars, are fully preserved, maximizing their strength.
- ✓ The EME modules are embedded into the existing trusses and interconnected, providing sufficient strength. They are also connected to the existing trusses at multiple points to form a double truss, further enhancing overall strength. This minimizes safety assessment risks associated with the existing trusses.
- ✓ The lightweight design of the modules ensures that the updated escalators are within the building's load capacity.

Conventional renovation plans that retain trusses can only weaken the strength of existing trusses instead of strengthening them. Therefore, it is crucial to evaluate the strength and life of existing trusses, but this evaluation is very difficult.

### Simple Surveying

It is only necessary to measure the rising height, horizontal length, machine room depth, inner width of the truss and the position of the intermediate crossbar of the existing truss, rather than surveying the detailed position and size of the all existing truss members.

### Completely Avoid Safety Risks of Existing Trusses

The embedded EME module forms a double truss with the existing truss, and its superimposed strength far exceeds that of the existing truss, minimizing the safety assessment risk of the existing truss.

### New Standardized Parts

All new standardized universal parts are used, and the maintenance and operating costs are no different from those of ordinary escalators.

### Comprehensive Upgrade

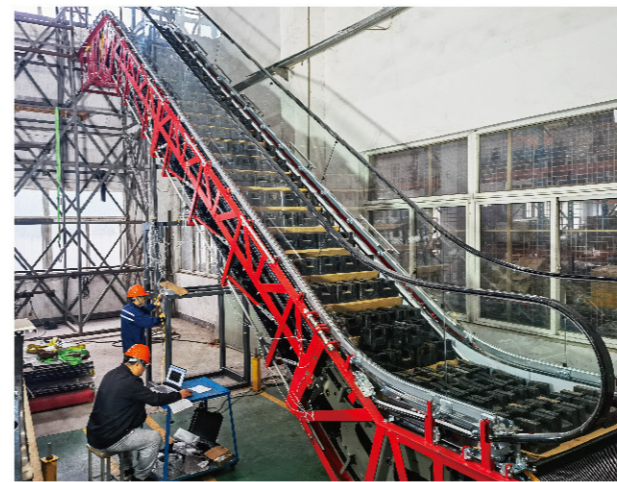
EME comprehensively enhances escalator functionality, performance, and safety. This includes efficient drive systems, energy-saving modes, multiple LED lighting options, a predictive maintenance system, and the latest sensors for safety protection.



- ✓ EME modules form a self-contained unit when connected, providing sufficient support strength. They are manufactured in-house, just like conventional escalators.
- ✓ EME is manufactured in-house according to manufacturing and quality control processes, effectively ensuring product integrity, consistency and reliability.



➤ EME assembled in the factory



➤ EME testing in the factory



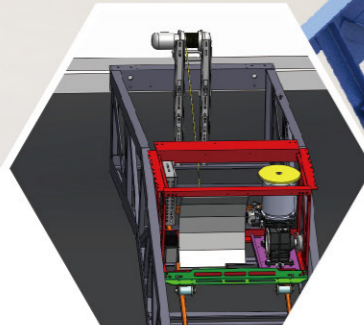
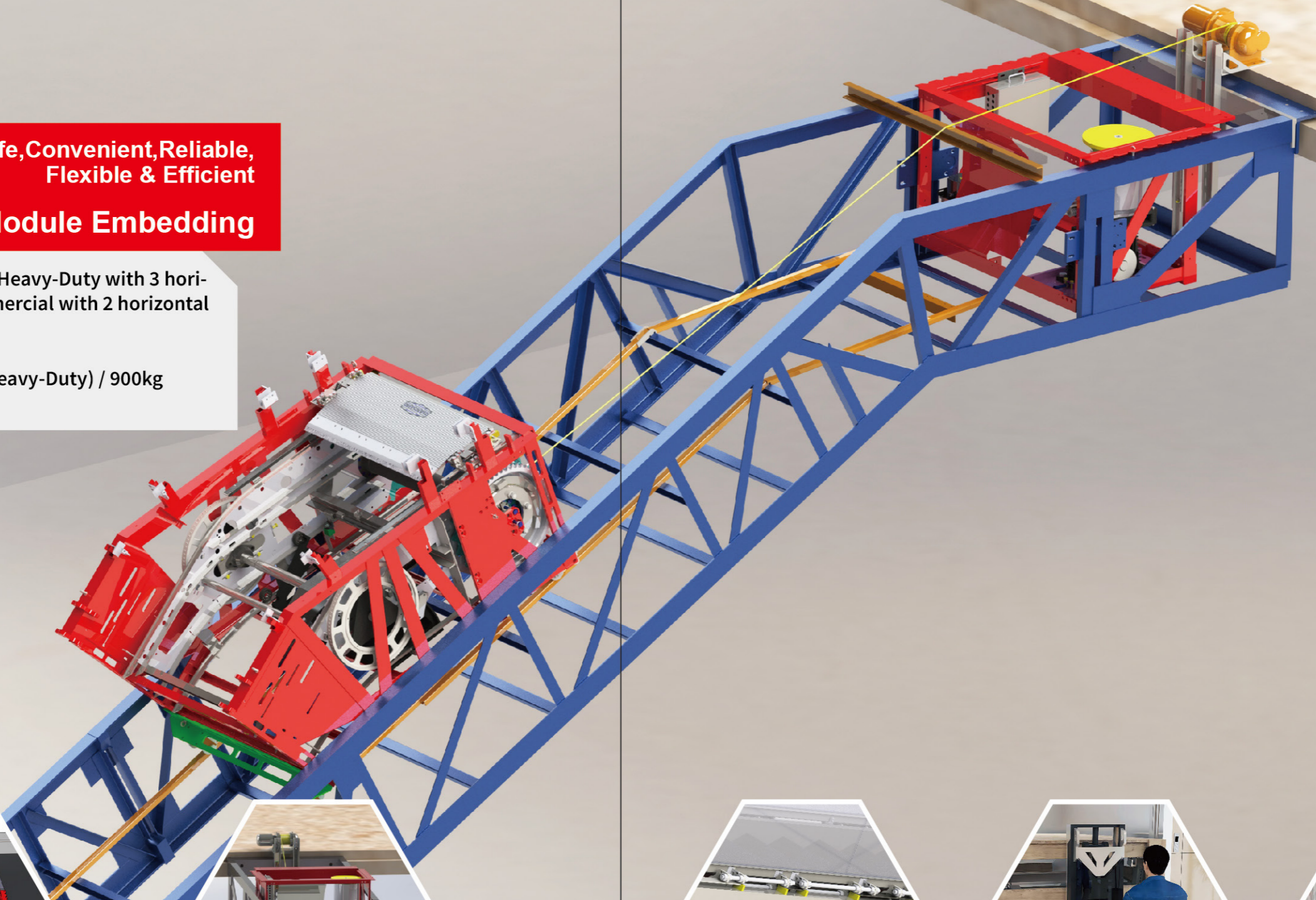
➤ EME being shipped

**Safe, Convenient, Reliable,  
Flexible & Efficient**

**Module Embedding**

Max. Module Length 2800mm(Heavy-Duty with 3 horizontal steps) / 2400mm (Commercial with 2 horizontal steps)

Max. Module Weight 1500kg(Heavy-Duty) / 900kg (Commercial)



**Safe**

**Transporting within the existing truss**

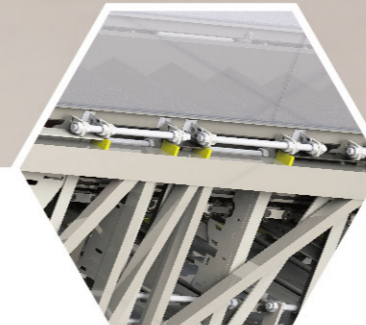
The EME modules are moved within the existing trusses at nearly half their lowered height, so this method of transportation is safe.



**Convenient**

**Convenient in place**

The EME module equipped with transport rollers is pulled to the designated position within the existing truss through the temporary guide rails and upper winch.



**Reliable**

**Double truss structure**

Each module has a connection point with the existing truss chord, forming a double truss with the existing truss by welding.



**Flexible**

**Freight elevator handling**

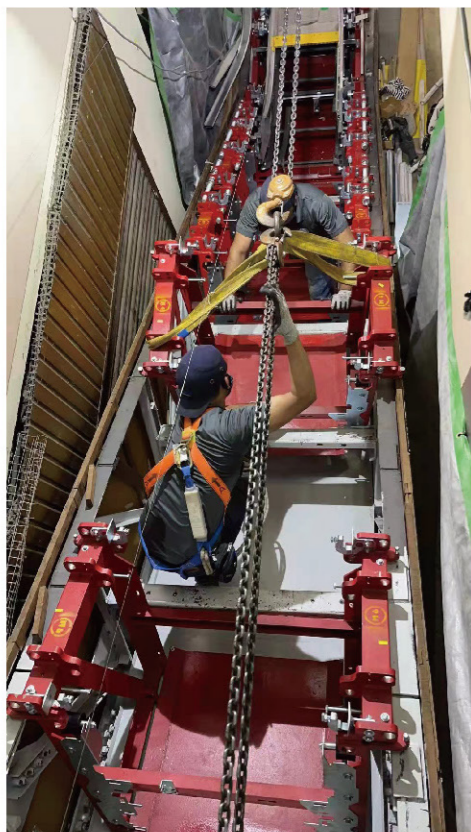
The module can be easily transported by common equipment such as small vehicles, hand forklifts, elevators, etc., making it easy to access the installation site.



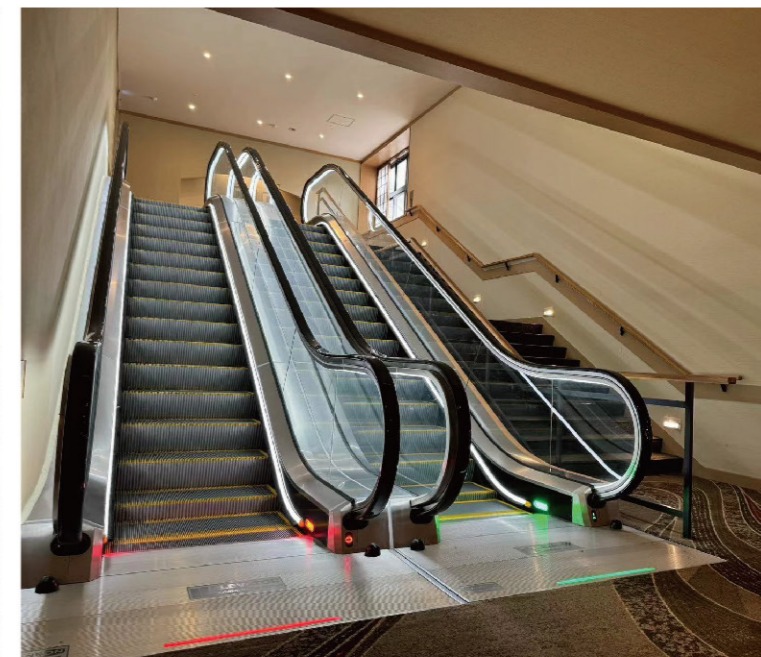
**Efficient**

**Climbing transportation**

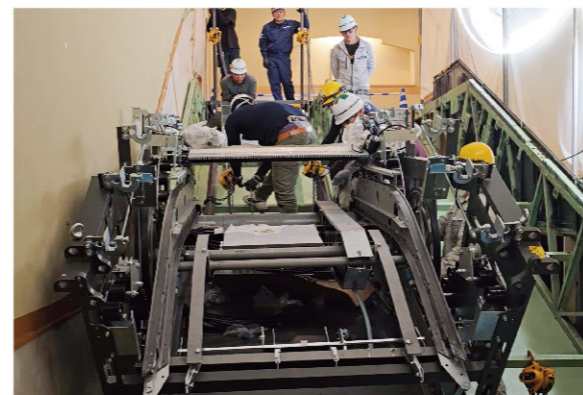
With the help of a special crawler stair climber, the module can easily climb the stairs, solving the problem of carrying it up and down the stairs.



**Textile Center—Singapore**  
3.7 Meter (1 Unit) 28 Days

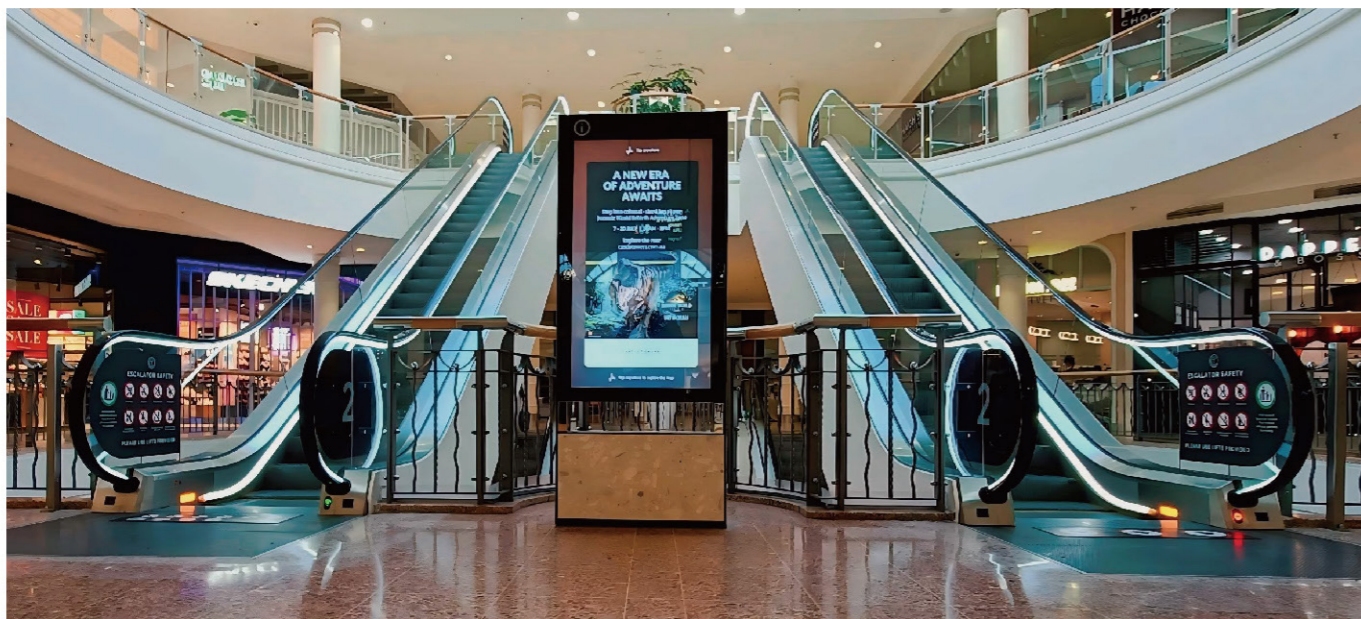


**Takimotokan Hot Spring Resort—Hokkaido, Japan**  
2.5~3 Metro (4 Units) Total 28 Days

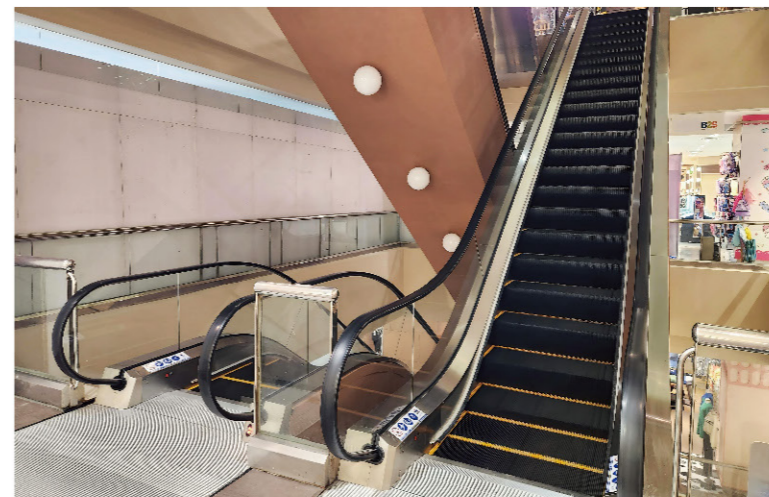


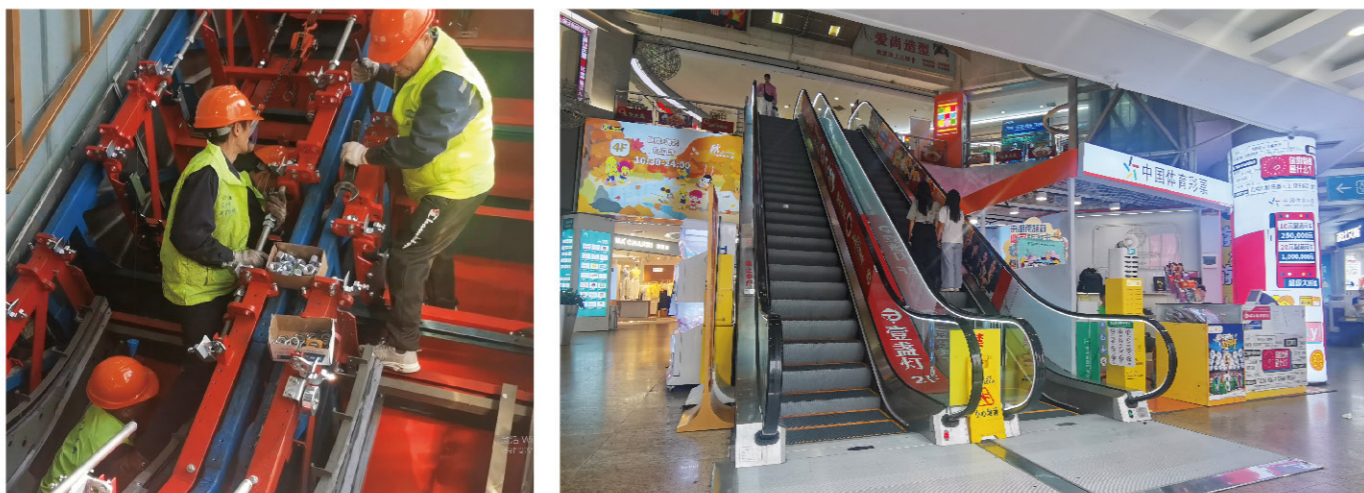


**Castle Tower Shopping Mall—Sydney, Australia**  
5 Meter (2 Units) Total 30 Days



**Central Shopping Mall—Bangkok, Thailand**  
5~5.8 Meter (8 Units) 10 Days/Unit

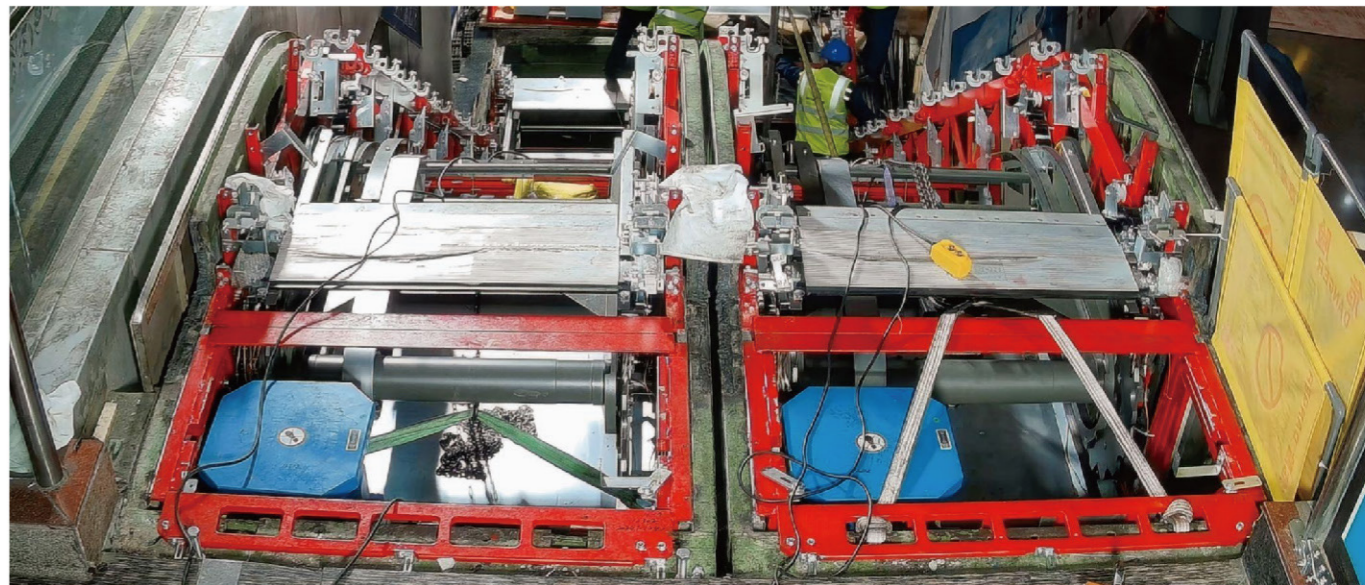




**Huangxing South Road Pedestrian Street  
—Changsha, China**  
5~6 Meter (16 Units) 7 Days/Unit



**Shenfang Building—Shenzhen, China**  
4.2 Meter (3 Units) 7 Days/Unit

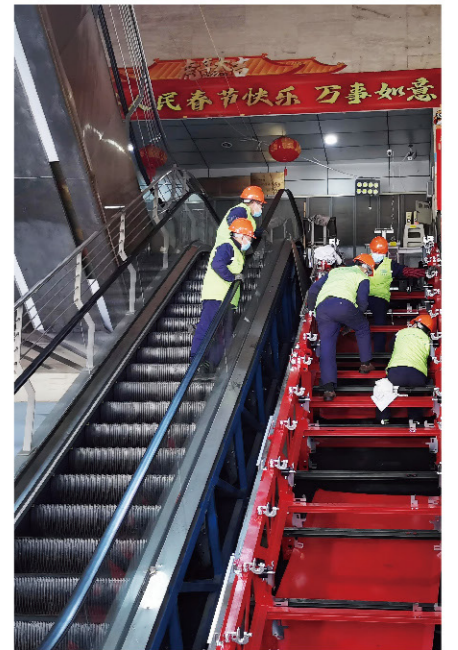




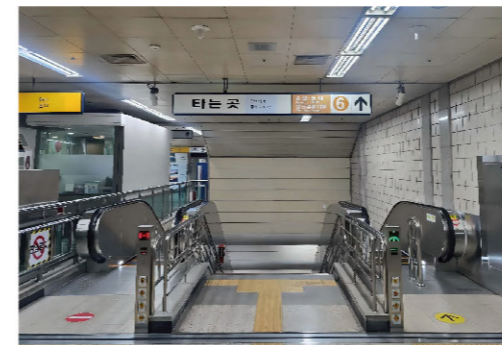
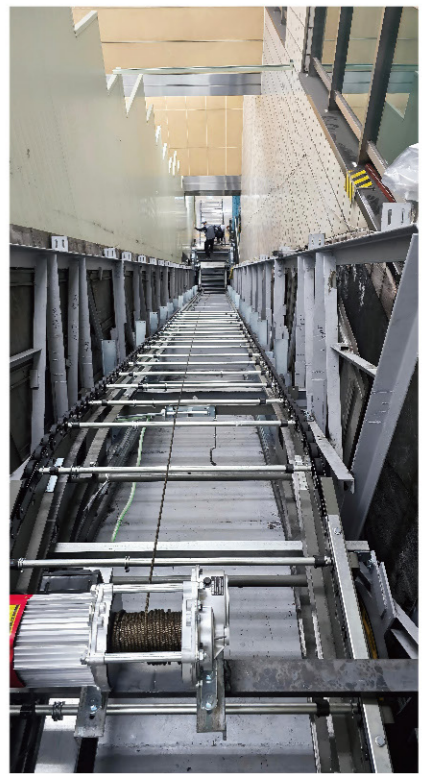
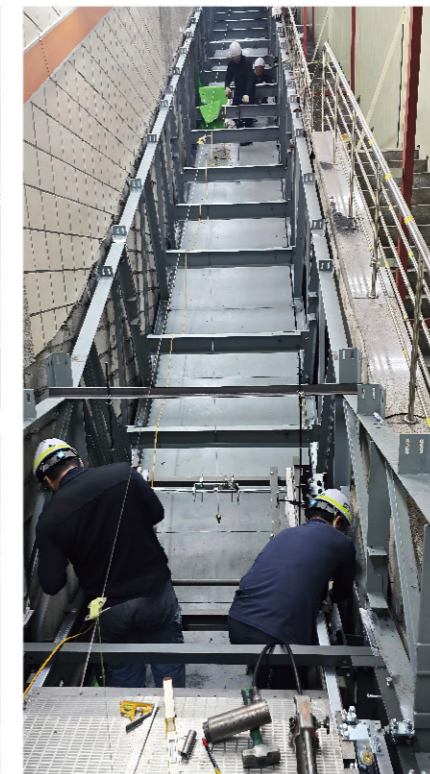
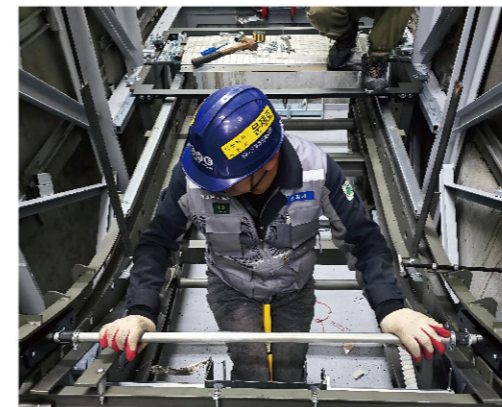
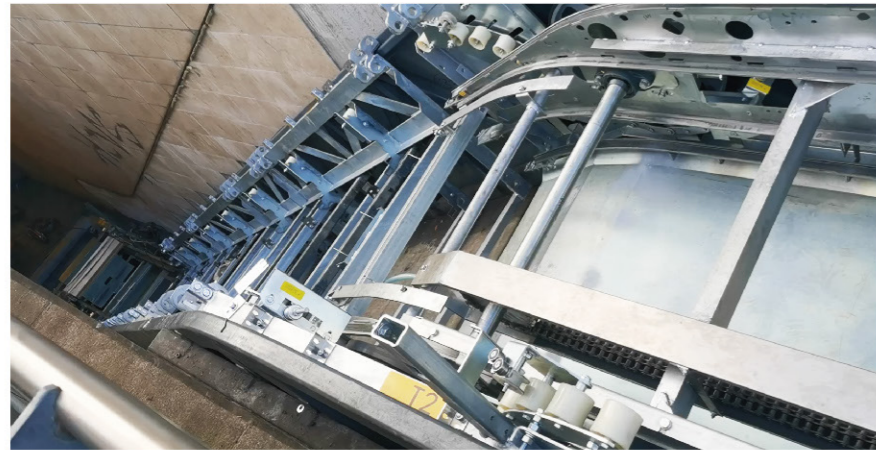
**Tsann Kuen Market**  
—Taipei, China  
4.5 Meter (2 Units) 16 Days/Unit



**Xiangdong Market—Zhuzhou, China**  
5.2 Meter (1 Unit) 3 Days

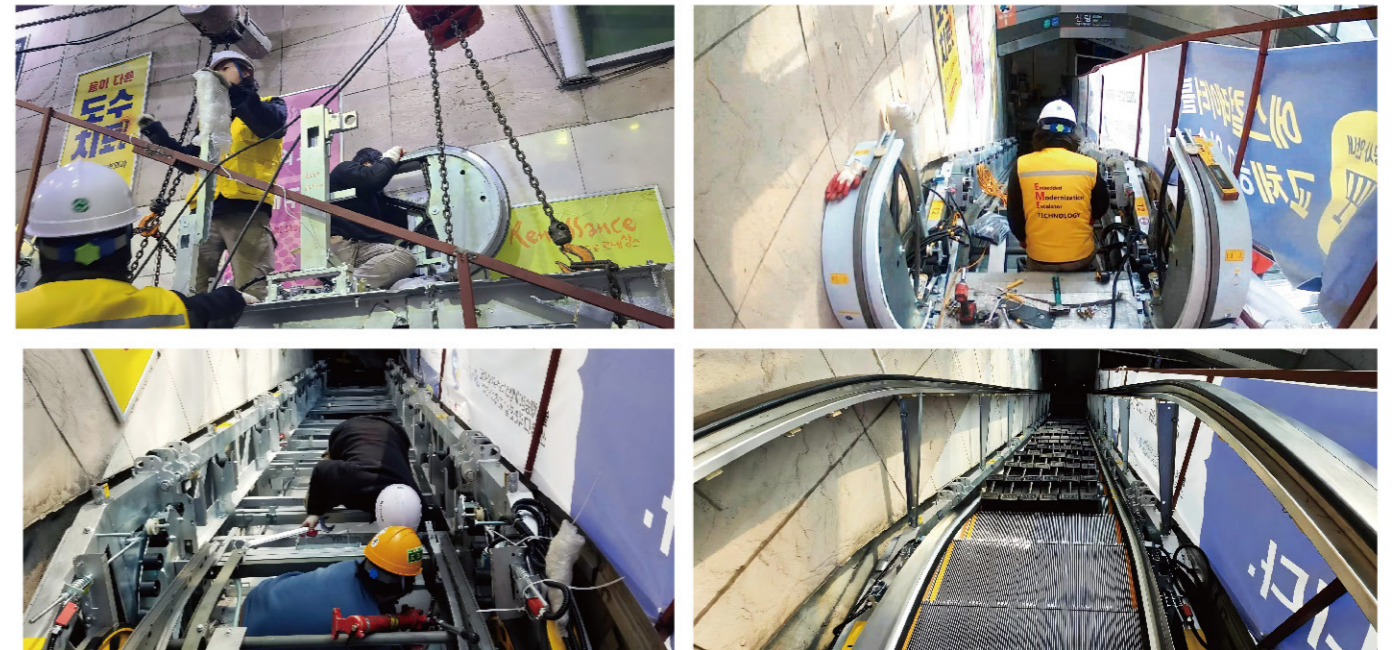
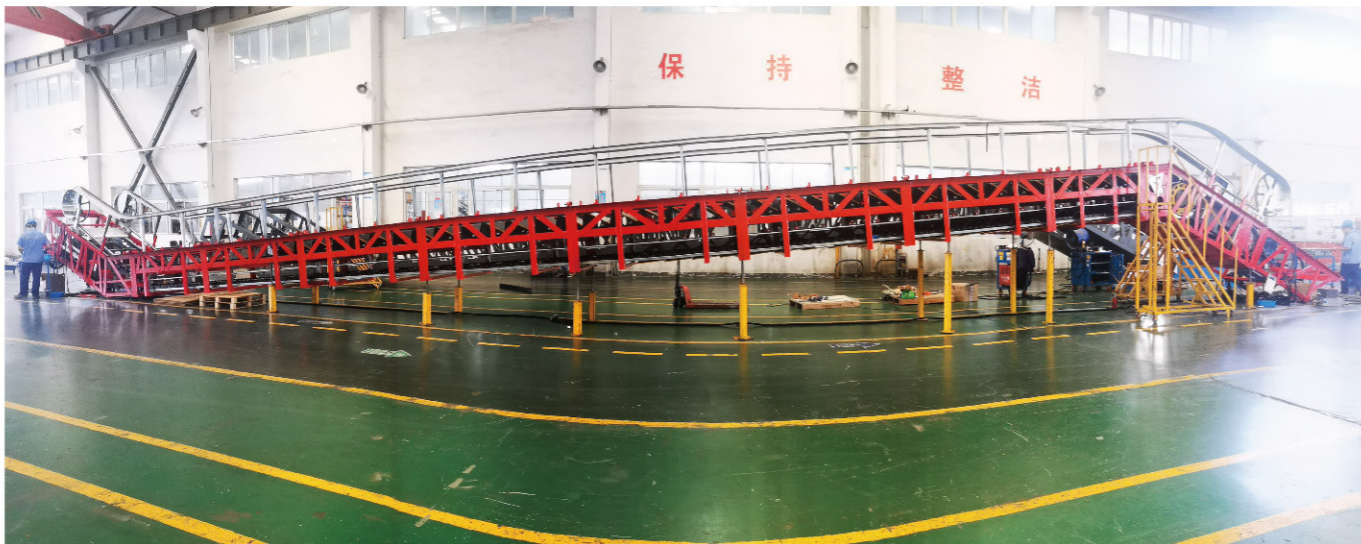


**Metro Deutz Station  
—Cologne, Germany**  
4.9 Meter (1 Unit)



**Metro Line 6 (5 Stations)  
—Seoul, South Korea**  
9.2~13.5 Meter (18 Units) 15 Days/Unit

**Metro Line, Gusu Station  
—Shenzhen, China**  
9.95 Meter (1 Unit) 12 Days



**Metro Line 2, Xinlin Station  
—Seoul, South Korea**  
5 Meter (1 Unit) 12 Days



\* The above-mentioned days refer to the installation time, excluding the time for dismantling the original escalator components.



## Authoritative Certification, Safe choice



ETC 上海交通大学电梯检测中心  
Shanghai Jiao Tong University Elevator Test Center



EURO CERT EUROCERT S.A.

## Patented Technology Globally Implemented



China



European Union



USA



Saudi Arabia



Japan



Australia



South Korea

More major global economies are authorizing...



## EME Product Line

**HS220 - 30 - 100 - L - AX**  
Hanson EME Series

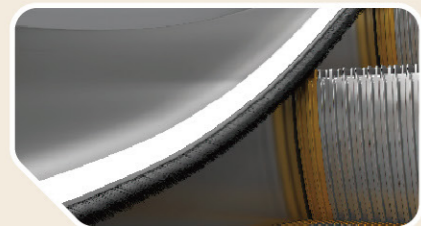
Inclination		Step Width		Number of Horizontal Step		Sub-model Structure Category		
						Sub-model	Balustrade	Step Roller Position
35	35°	100	1000mm	K	2	AA	Vertical	Inside of Chain
30	30°	80	800mm	M	3	AB	Inclinate	
27	27.3°	60	600mm	L	4	AO	Vertical	
						AP	Inclinate	Inside of Chain
						AT	Vertical	
						AV	Inclinate	
						AW	Vertical	
						AX	Inclinate	
						BV	Inclinate	Outer of Chain
						BX		
						BY-A		
						BY-B		

## Specification

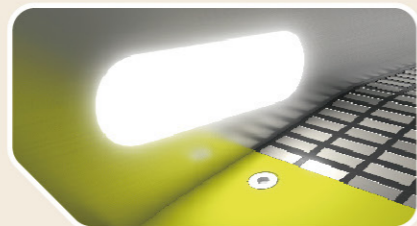
Inclination	Number of Horizontal Step	Sub-model	Upper/Lower Radius	Rated Speed (m/s)	Max. Rise (m)	Step Width (cm) Min. Embedding Width (mm)
35	K/M/L	AA	Top:1000/Bottom:1000	0.5	6	100(1328)
		AB				/ 80(1128) / 60(928)
30	K/M/L	AA	Top:1000/Bottom:1000	0.5	9	100(1328)
		AB				/ 80(1128) / 60(928)
30	M/L	AO	Top:1000/Bottom:1000	0.5	16	100(1396) / 80(1196) / 60(996)
		AP				
		AT				
27.3	M/L	AV	Top:1500/Bottom:1000	0.65	16	100(1396) / 80(1196) / 60(996)
		AW				
		AX				
30	M/L	BV	Top:2600/Bottom:2000	0.75	18	100(1458) / 80(1258) / 60(1058)
		BX				
		BY-B				
27.3	M/L	BY-B	Top:3600/Bottom:2000	0.75	26	100(1458)
		BY-A				/ 80(1258) / 60(1058)
30	M/L	BY-A	Top:3600/Bottom:2000	0.75	32	100(1498)
		BY-B				/ 80(1298) / 60(1098)



## Rich Options & Comprehensive Improvement



Skirt (brush) LED lighting



Comb LED lighting



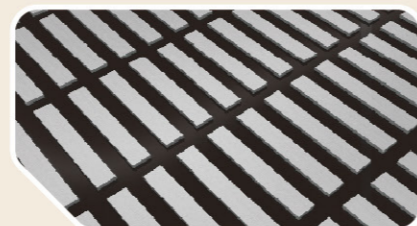
Balustrade LED lighting



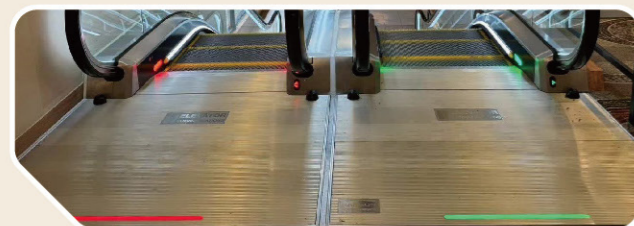
Handrail entry indicator



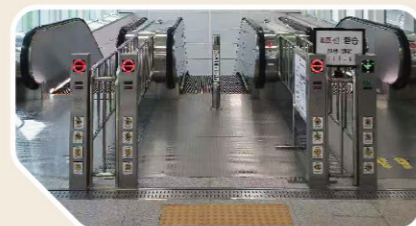
Polyurethane NT handrail



Aluminum floor plate



Direction indicator on floor plate



Post

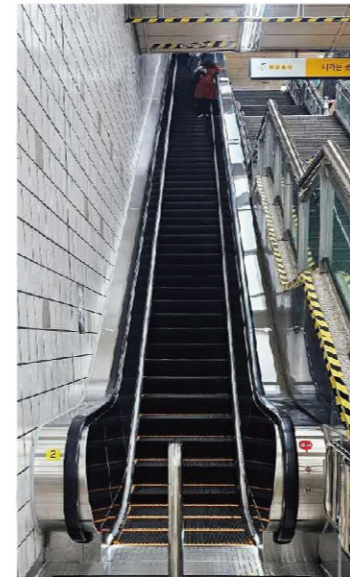


Variable frequency speed control

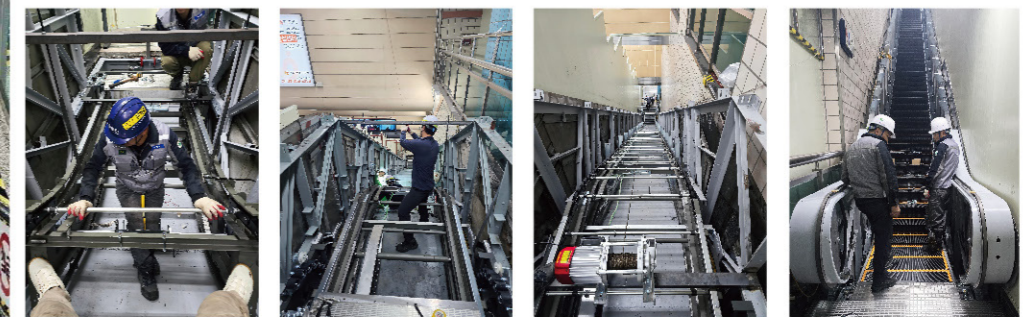


## Extended Applications of EME

### Semi EME



Semi EME refers to half of the embedded properties, designed to replace the intermediate module with a thin sheet module, which retains the update advantages of EME while reducing the weight of the updated escalator. Suitable for escalator renovation projects that meet high requirements for building structural load-bearing capacity.



Semi-EME was used in five stations on Line 6 of the Seoul Metro in South Korea, and 18 old escalators were updated.

### Embedded Modernization Travelator(EMT)

Using the same design philosophy and principles as the EME, the existing truss of travelator are retained, hence the name embedded modernization travelator (EMT). Using only upper and lower reversing modules, upper machine module and several lightweight sheet module in the middle, the updated travelator is even lighter, meeting the structural load limits of the building.



EMT embedded the upper and lower reversing modules into the existing travelator trusses on site.



The upper and lower modules of the EMT are manufactured in the factory.



After the EMT module is embedded, all assembly processes are the same as those of conventional travelator.