



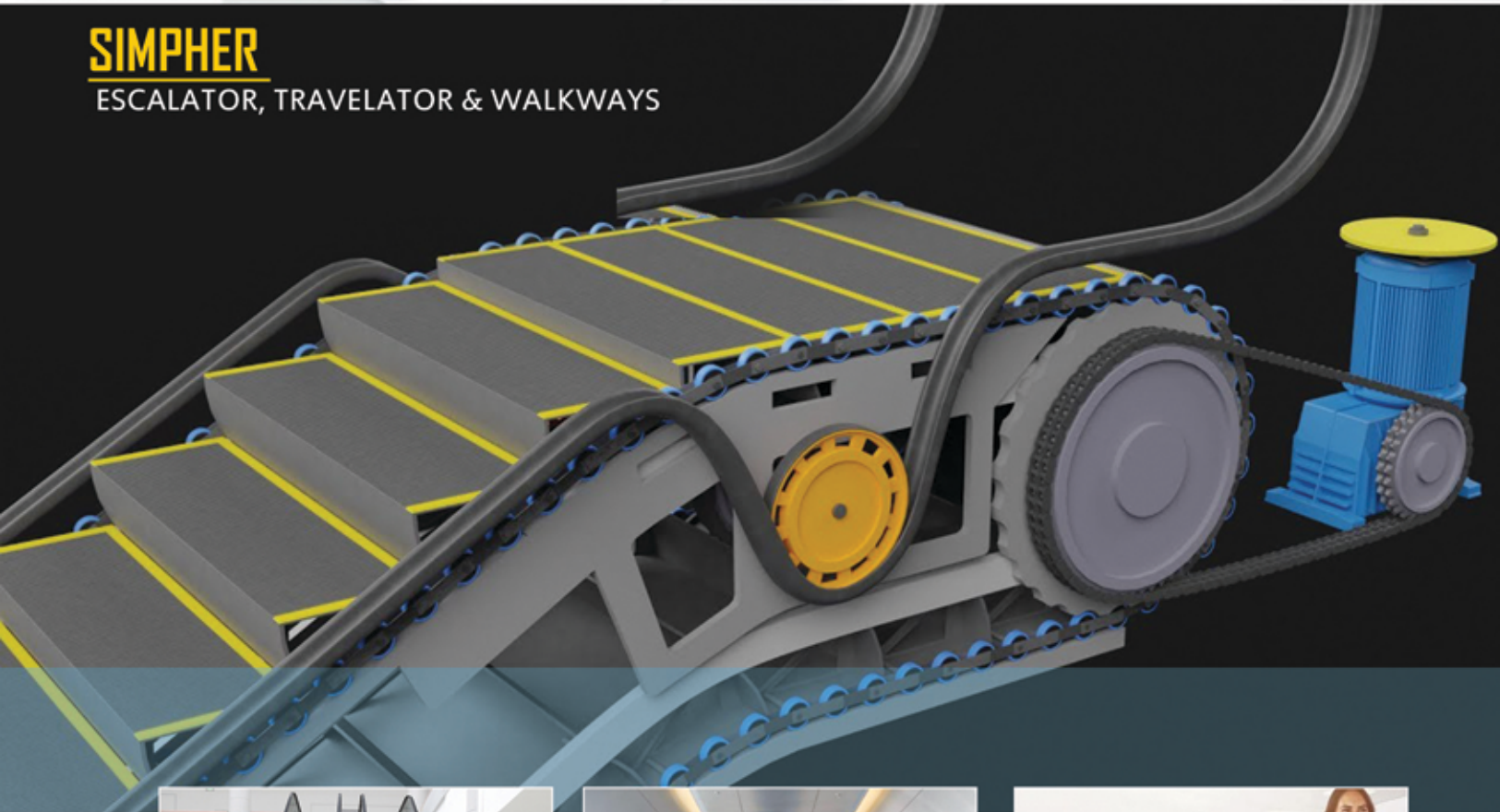
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ESCALATOR, TRAVELATOR & WALKWAYS



ESCALATOR



TRAVELATOR



MOVING WALKWAYS



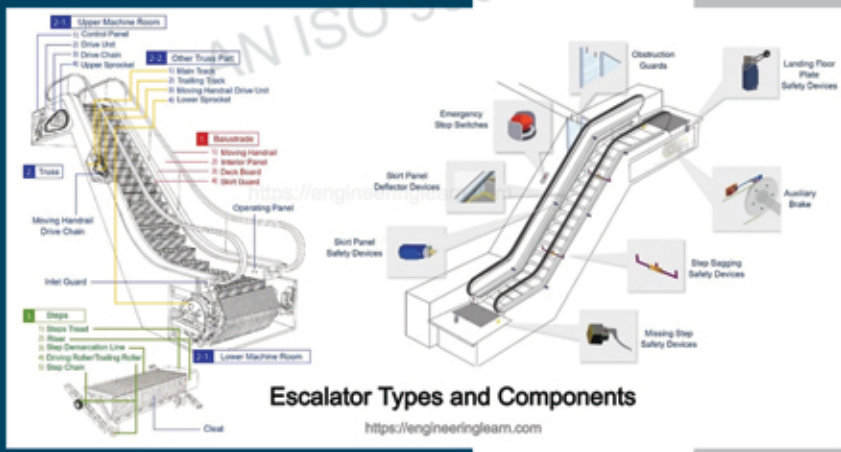
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Escalator

Escalators are mechanical devices used for transporting people vertically between different levels of buildings. Typically, they take the form of a moving staircase, consisting of a 'chain' of single-piece aluminium or stainless steel steps guided by a system of tracks in a continuous loop.

Escalators are commonly used in buildings where the movement of a large number of people is required, such as shopping centers, airports, transit systems, exhibition halls, hotels, arenas, public buildings, and so on.

They occupy the same physical space as a staircase, generally have no waiting time (other than during periods of congestion), allow a greater flow of people, and can be more practical than lifts. It is also possible for people to walk up or down escalators, if they are in a hurry, or if they break down. A variation of the escalator is the moving walkway, which transports people horizontally.



Speed

The speed of escalators is constant and is generally around 0.3–0.6 m (1–2 ft) per second. This translates to around 27–55 m (90–180 ft) per minute. An escalator moving an average of 44 m (145 ft) per minute can transport over 10,000 people per hour, which is a considerably higher capacity than a standard lift system.

Configurations

There are three basic configurations that are used for most common escalator systems:

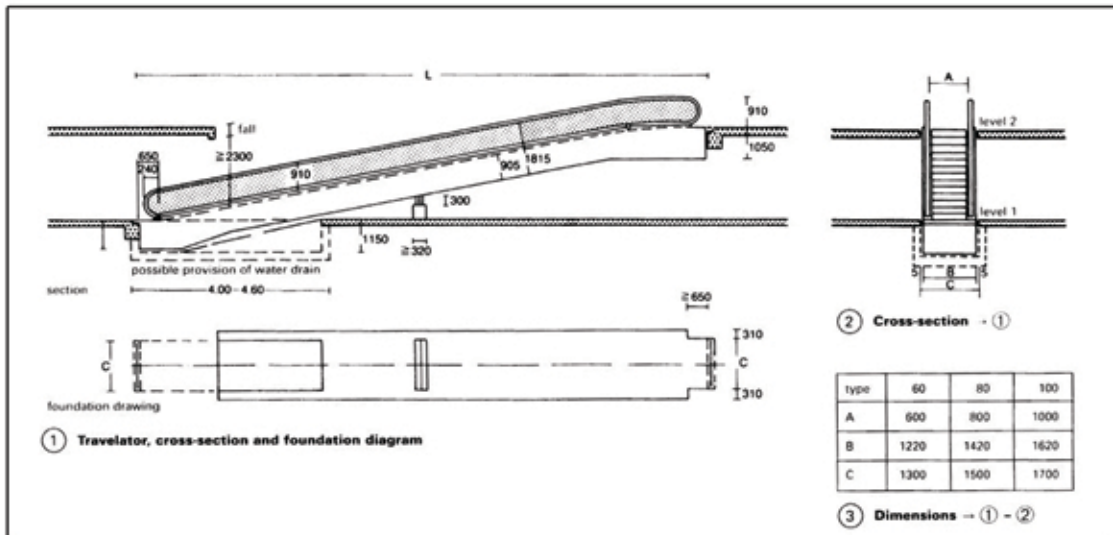
- **Parallel:** Escalators positioned side-by-side, moving in opposite directions.
- **Criss-cross:** Escalators moving in one direction are 'stacked', minimising space requirements.
- **Multiple parallel:** A bank of two or more escalators, with differing directions.

Tavelator

Travelator, the conveyor of which comprises a frame, which comprises a stationary first frame part and a second frame part that moves in relation to it. The drive wheel is mounted on a bearing allowing rotation onto the first frame part. The power unit rotates the drive wheel. The diverting wheel is mounted on a bearing allowing free rotation onto the second frame part. The transport surfaces are connected to a traction element which is formed as



an endless loop, and which is led to pass over the drive wheel and the diverting wheel. The tightening device is arranged to act between the first frame part and the second frame part to move the diverting wheel linearly away from the drive wheel in order to exert tightening force on the traction element. The travelator comprises identification means for identifying the drive status of the conveyor, and adjustment means for adjusting the tightening force of the tightening device to different force levels based on the drive status identified. In the method the drive status of the conveyor is identified, and the tightening force of the endless traction element of the conveyor of the travelator is adjusted on the basis of the drive status identified.

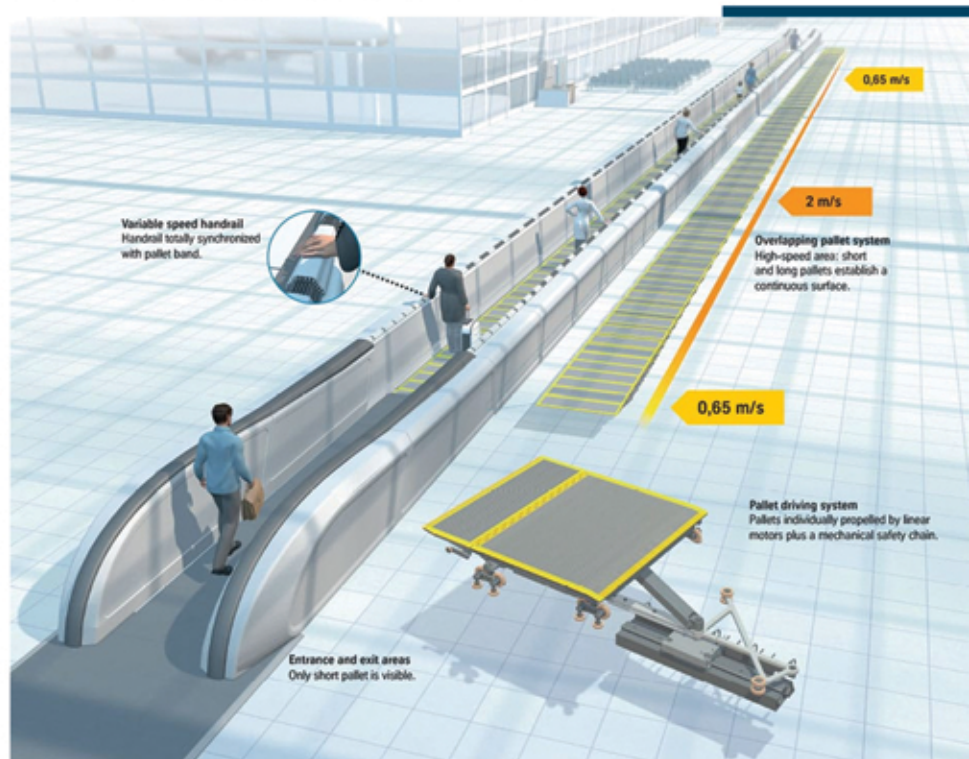


Moving Walkways drawing



Moving walkways, or moving sidewalks, conveyors or travelators, are motorized continuously moving horizontal or low-inclined surfaces that transport people over short to medium distances. Easy to use by either standing or walking, moving walkways are commonly used in airports, public transportation stations, densely populated cities, museums, zoos, theme parks, retail stores, theater sets, and ski resorts.

Moving walkways can be designed for various customizable lengths depending on use. Handrails of 3' (91 m) must be maintained throughout the entire length of the walkway. For structural support, a supporting truss with a depth of 3'6" (1.07 m) must also span the length of the moving walkway.





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