

A photograph of the Hongqiao Transport Hub in Shanghai, China. The image shows a multi-level structure with glass railings and escalators. The architecture is modern and sleek, with a prominent glass and metal facade. The lighting is bright, highlighting the clean lines and reflective surfaces. A few people are visible on the escalators, adding a sense of scale and activity to the scene.

HONGQIAO TRANSPORT HUB – SHANGHAI, CHINA

Gateway to China's future

With an annual passenger turnover predicted to exceed 50 million by 2020, China's newest and largest travel hub puts a new spin on the concept of mass transit.



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SUMMARY

Challenge

- To provide reliable and integrated elevator and escalator solutions within a very strict time frame for a complex infrastructural development, while ensuring uninterrupted traffic in an already-busy travel hub

Solution

- A seamlessly integrated package of reliable and spacious elevators, escalators and autowalks
- Efficient and flexible project management
- Highly responsive 24 hour maintenance package

FAST FACTS

Hongqiao Transport Hub

- Completed: 2010
- Flow:
 - 40 million air passengers yearly
 - 140 million rail passengers yearly
 - 1.1 million people daily
- Land area: 26 sqkm

KONE Solutions

Hongqiao Airport (Terminal 2):

- 99 KONE MonoSpace[®] elevators
- 64 KONE TransitMaster™ escalators
- 32 KONE TravelMaster™ escalators
- 40 TransitMaster™ autowalks
- KONE E-Link™ monitoring system
- KONE Care™ Maintenance Service

Hongqiao Station

- (Beijing-Shanghai express railway)
- 115 KONE TransitMaster™ escalators



Opened for the 2010 World Expo, the Hongqiao Transport Hub is one of the world's most uniquely integrated transport centers. Covering a land area larger than 26 square kilometers, it comprises Hongqiao Airport and serves as an interchange for five subway lines, a bullet train to Beijing and the Maglev Train connection to Pudong Airport.

Well thought-out investment

With the world's eyes turning to Shanghai for the 2010 World Expo, China was eager to complete the project in time to guarantee 80 million Expo visitors an unforgettable ride. KONE was selected to deliver a complete solution consisting of more than 400 units of elevator and escalator equipment for this mammoth, fast-paced project.

Flexible, efficient project management was crucial not only because of the project's massive scale, complexity and extremely strict deadline, but also due to the challenging location. Installation was carried out in an already-busy area of China's most populous city, right next to an operational airport.

Easing the flow and beating bottlenecks

People-focused design is the key to assuring smooth transit in a hub as complex as Hongqiao, which serves a population larger than that of most countries.

With seamless integration of 350 spacious elevators, escalators and autowalks, KONE delivered a user-friendly solution enabling people to move through the hub smoothly, safely and without disruption – at all times of the day and night.

KONE TransitMaster™ escalators and autowalks were the ideal solution for the project's extensive infrastructure. The 155 autowalks are positioned so that walking distances never exceed 300 meters, and transit between the airport and rail connections should never take longer than 15 minutes.

With tens of millions of people using the hub every year, even the briefest downtime can cause serious bottlenecks. KONE's reliable solutions are complemented by extensive support services and a fast-response maintenance team on hand 24 hours a day.

Solutions for a lifetime

In addition to new solutions, KONE also provided modernization services in the older part of the Hongqiao Airport terminal. These incorporate contemporary design features and include a special scenic elevator designed in collaboration with the architect.