



NANJING METRO LINE S8 – NANJING, CHINA

The orange dragon of Nanjing

The S8 metro line in Nanjing heralds a new era in the ancient capital, setting new records as the longest and fastest urban rail transit in China.



With the recent opening of Nanjing's S8 metro line, a complex subway network now covers the entire historic city. Spanning 45 kilometers and 17 stations and trains at a maximum speed of 120 kilometers per hour, the line is the longest and fastest in China. Flying through the city like an orange dragon, it winds a scenic route from Taishanxincun Station to Jinniu Lake.



Built for the 2014 Nanjing Youth Olympic Games, S8 is the first line in Nanjing located north of the Yangtze River. In this significant project supporting the infrastructural and economic development of northern Nanjing, KONE was selected as the sole supplier of the line's 37 elevators and 75 escalators.

No crowd too large

To ensure the project's completion before the opening of the Youth Olympics, the KONE team faced a time disadvantage, with only one year to carry off the complex task. To cope with the enormous workload, KONE maximized manpower inputs, carried out multiple tasks at different locations simultaneously, and managed to deliver the equipment safely and on schedule.

On the opening day of S8, all passengers were offered a free trip to the scenic Jinniu Lake terminal. Millions flooded into the station, with traffic peaking at times to over 300,000 passengers. KONE assured them all a safe, smooth and very special trip with its people flow handling capacity.

A first in China

This was the first project in China to utilize escalators equipped with the KONE Direct Drive, a reliable and eco-efficient escalator drive solution that has proven its merits in many KONE infrastructure projects. The chainless design avoids common risks such as chain breakage and oil leakage. Replacing the chain drive with a gear drive also consumes 20 percent less energy and requires less space and preparation for installation, which makes it the ideal solution for public transportation projects.

Olympic spirit

As the only metro line serving the sailing venue of the Youth Olympics, S8 carried an extreme peak of passengers during its first month of operation. To guarantee the constant operation of equipment during the event, KONE established an emergency response team of 20 experts who remained on standby for 15 days, checking, adjusting and maintaining equipment and communicating safety knowledge to passengers.





SUMMARY

Challenge

- To complete installation of elevators and escalators before the opening ceremony of the Nanjing Youth Olympic Games
- To ensure that all elevators and escalators on Line S8 operated reliably to create smooth people flow

Solution

- Manpower and material input was increased and resource allocation was optimized to complete the installation on schedule
- An emergency response team was established during the Nanjing Youth Olympic Games to provide all-round service to ensure reliable equipment operation

FAST FACTS

Nanjing Metro Line S8

- Completed: 2014
- Track length: 45,216 km
- Stations: 17 (6 underground, 11 above ground)
- Operator: Nanjing Metro Operation Co., Ltd.
- Developer: Nanjing Metro Operation Co., Ltd.
- Architect: Beijing Urban Engineering Design & Research Institute Co., Ltd.
- Main Contractor: China Railway Electrification Bureau Group Co., Ltd.

KONE Solutions

- 37 KONE MonoSpace® elevators
- 75 KONE TransitMaster™ 140 escalators
- KONE Care™ Maintenance Service