

Fastest Hangzhou metro line enters into operation thanks to TST, Thales JV in China

- Hangzhou Metro Line 16, the fastest metro line in Hangzhou, relies on Thales SEC Transport (TST) signalling system technologies for maximum safety and efficiency, ensuring daily pleasant and reliable journeys for local passengers.
- Through its JV TST, Thales has provided advanced CBTC (Communications-Based Train Control) signalling systems for 35 lines in 14 major Chinese cities, with a total length of 1,356km.



Hangzhou metro line 16 © Hangzhou Metro

On April 23rd, Hangzhou Metro Line 16, connecting Hangzhou downtown with Lin'an District, entered into revenue service smoothly. This very fast metro line of Hangzhou area relies on Thales SEC Transport (TST) signalling system technologies for maximum safety and efficiency, ensuring everyday pleasant and reliable journeys for local passengers.

Hangzhou Metro Line 16 sets off eastward from Jiuzhou Street Station at Lin'an District to Lvting Road Station at Yuhang District, covering a total operational rail length of 35.12 km and crossing through twelve stations (eight underground and four elevated). With a speed of up to 120 km/h and a single end-to-end journey lasting just 38 minutes, it is currently the fastest metro line in

Hangzhou, offering an alternative to the one-hour traffic zone from Hangzhou downtown to Lin'an District.

As an important metro transit in the Hangzhou metropolitan area, the Line 16 links the district with central Hangzhou, thereby facilitating Lin'an's sustainable growth through integration into Hangzhou metropolis and the Yangtze River Delta, but also boosts regional transportation within the metropolitan area. This metro line consolidates Hangzhou's position as a central city in the southern part of Yangtze River Delta and speeds up the regional extension of Zhejiang province.

As the signalling system supplier for Hangzhou Metro Line 16, TST integrated the metro line's characteristics and customer requirements into the development of new functions based on SelTrac™ CBTC, including ATS (Automatic Train Supervision) triple redundancy, ATP (Automatic Train Protection) for engineering vehicles, and switch protection in IATP (Intermittent Automatic Train Protection) mode. TST also optimized the functions of train hold, route trigger timing and route release delay, with the client fully recognizing the metro's excellent system performance.

“An efficient metro is essential for the commercial success and growth of any great city. Thales is proud to bring a proven expertise and decades of transit infrastructure experience to Hangzhou Line 16 that will contribute to the transportation foundation for Hangzhou's growth and evolution.” Jérôme Bendell, Vice President of Thales North Asia and CEO of Thales in China said, “China is accelerating the construction of new infrastructure. Thales is committed to supporting Chinese cities in their future goals for smart mobility and urban transportation.”

China is the world's biggest growing urban rail markets, as well as one of the fastest, with 8,500 km of new lines planned in 40 cities. Benefiting from 30 years of experience in rail signalling systems, coupled with a strong understanding of operational requirements in the Chinese market, Thales has provided advanced CBTC (Communication-Based Train Control) signalling systems for 35 lines in 14 major Chinese cities through its JV TST, with a total length of 1,356km.

About Thales

Thales (Euronext Paris: HO) is a global technology leader shaping the world of tomorrow today. The Group provides solutions, services and products to customers in the aeronautics, space, transport, digital identity and security, and defence markets. With 83,000 employees in 68 countries, Thales generated sales of €19 billion in 2019 (on a pro forma basis including Gemalto over 12 months).

Thales is investing in particular in digital innovations — connectivity, Big Data, artificial intelligence and cybersecurity — technologies that support businesses, organisations and governments in their decisive moments.

About Thales in China

Thales provides innovative solutions for the infrastructure that forms the backbone of China's growth. The Group has been present in China for around 40 years and is the trusted partner for the Chinese aviation and urban rail transportation industries. In the meanwhile, from secure software to biometrics and encryption, Thales has successfully applied its advanced technology to mobile communication, banking, IoT and software monetization etc. Thales has 3 JVs and employs 2,300 people with offices located in 8 cities in China. Thales established R&D centers and Innovation Hubs

in Beijing, Dalian and Hong Kong to provide innovative solutions for both China and international market.

About TST

Thales SEC Transport (TST) was established in 2011 via the joint investment of Thales and Shanghai Electric Group. The company focuses on providing world-leading signalling system for China's urban rail transport as well as developing innovative solutions to meet local requirements. The company is the second CBTC competence center of Thales and has been selected by 14 cities in China for 1,356 km of tracks.

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