

NANNING-KUNMING HIGH-SPEED RAILWAY – THE PERFECT PROJECT FOR IMS 1000



Yunnan & Guangxi, China

Nanning–Kunming High-Speed Railway – in China's Yunnan Province and Guangxi Zhuang autonomous region – is partially opened and in some parts still under construction. It connects the Guangxi capital of Nanning with the Yunnan capital city of Kunming. It will have a total length of 715.8 kilometres of electrified double-track railways, built to the Grade 1 standard.

Positioned as part of China's long-term railway network plan this new line shall improve the development of South-Western China, where infrastructure is in a critical state. It is seen as a crucial link between the economic powerhouse of the Pearl River Delta Economic Zone and Indochina under the Chinese One Belt-One Road policies.

New High-Speed Railway

Location

Nanning, Guangxi
Kunming, Yunnan

General Information

Total length	710 km
Design speed	200 – 250 km/h
Number & Length of bridges	221 / 160 km
Number & Length of Tunnels	160 / 374 km
The longest tunnel	18.2 km
Type of track	Ballast Track & Slab Track

Project Stages

Start of Tamping work	2016-04-15
End of Tamping work	2016-06-15
Achieved accuracy	1 mm
Measuring performance	2 - 3.5 km/h
Total measured distance	500 km

Challenges

Time pressure	finished within 2 months
Climate	high humidity >80%, high temperature up to 35°C
Topography	mountain area difficult to reach, without infrastructure for transport of goods.

Clients

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Kunming Railway Bureau



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Object
High-Speed Railway section Baise-Kunming

Our Service
Alignment and reference point based high-precision and high-performance pre-surveying for tamping machines

- Amberg IMS 1000 System
- Amberg Rail 3.0 Software
- Tamping / SlabTrack modules

