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
China Railway First Group Co. Ltd.
Kunming Railway Bureau

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