

The image shows the interior of a large, circular tunnel under construction. The tunnel walls are lined with a complex network of steel reinforcement ribs and cables. In the center, a large orange machine, identified by the label 'JB01' on its front, is positioned. This machine has a telescopic boom with a platform at the end, where a worker is visible. To the left of the orange machine, there is a white container or hopper, and two large white bags are on the floor. To the right, a smaller yellow and white machine is partially visible. The floor is wet and reflective, and the overall lighting is dim, with some bright spots from the machinery's lights.

LYON TURIN – EXPLORATORY TUNNEL SMP4

Lyon, France

The French-Italian base tunnel project, one of the longest rail tunnels in the world, lies at the heart of the Trans-European rail network, connecting Eastern and Western Europe. The core of the project is a 57 km-long base tunnel crossing the Alps, between Saint Jean de Maurienne in France and Susa in Italy. This will form the main part of the new Lyon-Turin high-speed railway link.

New Railway Tunnel

Place

Saint Jean de Maurienne, France
Susa, Italy

Main data

Length (total tunnel length): 57 km
TBM Excavation for the main tunnel
Exploratory tunnels in drill and blast excavation
Two parallel, single-track railway tunnels
One exploratory gallery
Cross-passages

Project Phases

Construction SMP4: 2015 – 2022

Statements

"The use of Amberg Navigator tablet software is a big benefit for personnel, enabling them to carry out simple, routine surveying tasks reliably, efficiently and independently.

The Amberg Navigator tablet solution with the big screen allows us to see the 3D measured profile information clearly. Furthermore, positioning of the control IDs is a plus and simplifies the workflow a lot."

Client and Contact Person

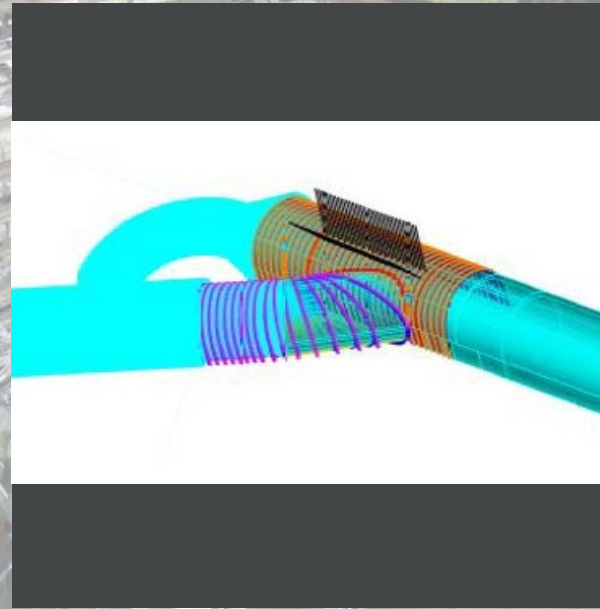
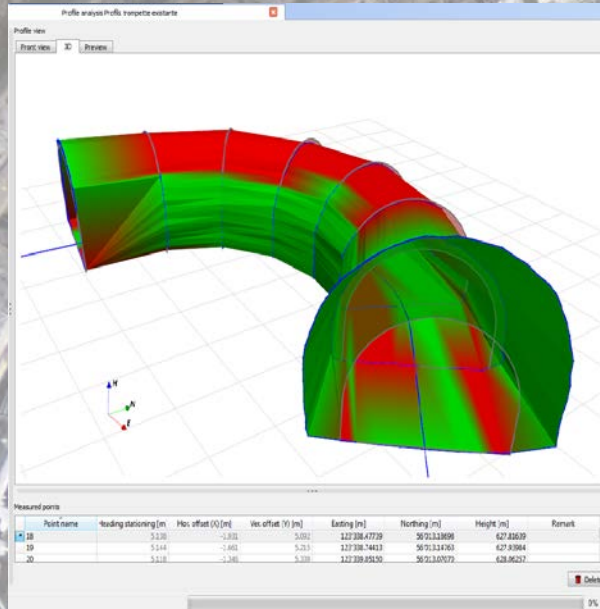
JV SPIE Batignolles, Eiffage TP,
Ghella, CMC, GOGES
Olivier Gauche (Surveyor Engineer Exploratory tunnel SMP4 Eiffage Travaux Publics)

Object

Exploratory tunnel Saint-Martin-La-Porte 4.
Construction costs: approx. 500 Million €

Our Service

- We sold the Amberg Navigator and Amberg Control software packages to the JV SPIE Batignolles, Eiffage TP, Ghella, CMC, GOGES
- Task the do:
 - Profile measurement
 - Arch positioning
 - Blast pattern
 - Rock bolts



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