SmartMeasures
Tough projects call for smart measures.

AmbergRail

Bring the city together! Canberra Light Rail Stage 1
Canberra, Australia

Project

- Canberra Light Rail stage 1
- Measure accurately in a short amount of time
- Provide QA reports

Duration

- 2.5 years, end of construction early 2019

Contractor

Landmark Surveys Pty Ltd.
www.landmarksurveys.com.au

Tasks

- Measure 24 km of track accurately in a short amount of time
- Provide QA reports

Challenges

- Limited amount of time
- High accuracy requirements

Bring Canberra's first light rail to a good start - with Amberg GRP 1000

The Light Rail in Canberra has an ambitious goal: to bring the rapidly growing district of Gungahlin closer to the city centre. The first stage of the city's new public transport system will pass through Dickson, another upcoming suburb in the capital city of Australia.

Amberg Technologies has been commissioned to provide a method for conforming the two twelve kilometer long tracks to the required specifications and to provide QA reports. The biggest challenge of the project was to measure and interrogate a large amount of data accurately in a short amount of time.

Fast and efficient - the Amberg GRP1000 system

In order to meet the tight schedule, an Amberg GRP1000 system was provided by the Amberg Technologies distribution partner C. R. Kennedy. After training and support with implementing the system, the local survey crew was able to accurately measure all track parameters in only one visit. This effectiveness resulted in considerable time savings, which was one of the reasons why Amberg Technologies was chosen by the lead contractor Canberra Metro in the first place.

The gathered data has been efficiently managed and stored as a single source of truth and has allowed multiple sets of information to be extracted from the survey.

AMBERG TECHNOLOGIES

«We were introduced to the Amberg GRP 1000 at the beginning of the project. It has been effectively implemented and is now part of the "Quality Assurance" of the track that we could not do without»

Ben Cleaver
Senior Surveyor
Landmark Surveys Pty Ltd.

Amberg Technologies' products used

- Amberg GRP1000 system
- Amberg Rail 3.0 software

Customer benefits

- Training by experienced staff
- Fast and accurate track measurement
- Efficient data handling

Contact

Amberg Technologies AG
Trockenloostrasse 21
8105 Regensdorf-Watt
Switzerland
Tel +41 44 870 92 22
rail@amberg.ch
www.amberg.ch/at

A key project for Amberg Technologies

The Canberra Light Rail project represents one of the first engagements of Amberg Technologies in Australia. The GRP1000 system with a customization for grooved tracks, which are often used for tram tracks, was delivered with a short wheelbase, absolute mode and the software Amberg Rail 3.0.

Amberg Technologies' system proved itself for the contractor with its speed and precision of the trolley, which is much better compared to existing equipment and procedures.

The small radius in design was well catered for with the appropriate configuration of the trolley and appropriate parameters within the processing to deliver the most accurate result.

Results

The Amberg GRP1000 has provided many advantages to the customers. All track parameters are measured and stored in one location. Furthermore, Amberg Rail offers customized reports of the track geometry tailored to the needs of the various stakeholders, all based on the same set of measurements. The system provides a high accuracy given the tight construction tolerances of the project. That allowed to create an auditable trail of reports for conformance and adherence to design.

Conclusion

The customer found the Amberg GRP1000 System to be easy to use, very accurate and efficient. After the measurements, they were able to quickly check and pre-process to ensure all information captured was reliable before leaving the track. The office reporting shows the precise QA reports required for conformance.

The overall system helps the customer save time, as well as labour resources yet still deliver an outstanding result.

Made in Switzerland

AMBERG TECHNOLOGIES