

Formwork Guidance Amberg Navigator Task



What is an Amberg Navigator Tablet?

Tunnel heading guidance and control has never been as easy as with Amberg Navigator.

Amberg Navigator consists of the mobile Amberg Navigator tablet for the application in the tunnel and the Amberg Tunnel software for project definition in the office. The tablet is operated by the tunnelling crew on site via the touchscreen.

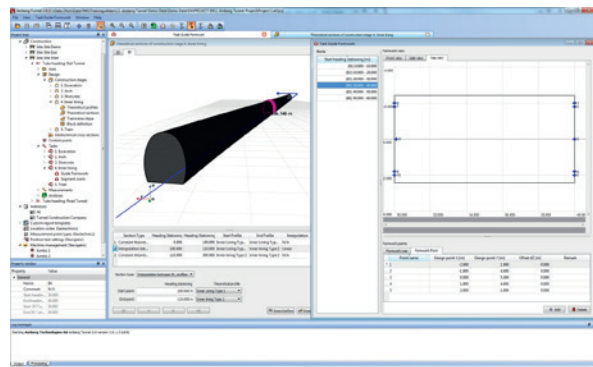


The tasks arranged in the Amberg tablet software based on the project-specific applications provide fully automatic control of the total station, laser scanner or Leica MultiStation according to the selected tasks.

Benefits

- Operable by the foreman
- Increased tunnelling performance through minimisation of idle time
- No previous surveying knowledge is required for guidance of a formwork
- Unique, intuitive handling concept

Formwork guidance has never been easier!



Formwork Guidance

Overview

Formwork – Amberg Tunnel-Definition

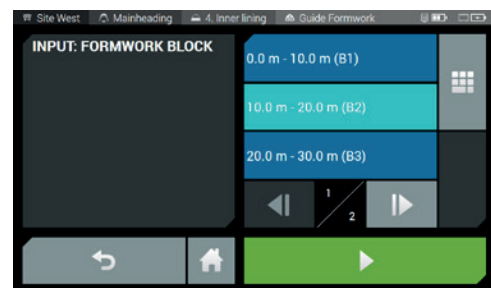
The Formwork measurement task allows to measure task points installed as prisms on the formwork carriage to help moving the formwork carriage to the design position. The definition is done as a block-based task. The formwork carriage is defined over a straight line (formwork axis) which is defined through the start and end stationing of the block on the heading axis.

Formwork – Guidance with the tablet

This task allows to guide a formwork carriage to its design position in the tunnel with the help of targets attached to the front and rear of the formwork and continuous measurement. The formwork task consists of three steps: block selection, selection of front or rear points and guidance.

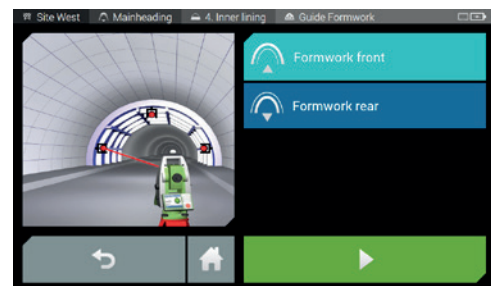
Step 1: Block selection

On this page a formwork block of the current task is selected for guiding the formwork carriage to its design position. The block can be selected from a list or by entering its stationing value using the numeric keypad.



Step 2: Front or rear points selection

On this page the choice between guiding the targets on the front or rear of the formwork has to be made. It is possible to change modes also later on the guidance page.



Step 3: Guidance

To point with the instrument laser to the design position of a target on the formwork carriage, select a point by pressing it in the graphics or use the Previous point and Next point buttons. To lock to it and start measuring it continuously, press the Start button. During the guidance, the offsets to the design position of the currently selected target point are constantly updated in the top-right corner of the graphics area.



Amberg Technologies has been developing specialised system solutions for the infrastructure industry for more than 30 years. The unique combination of systems development experience and industry know-how results in measurement systems characterised by precision instruments, practical system design and powerful software. Last but not least, Amberg Technologies' products have gained the trust and recognition of tunnelling and railway industry experts thanks to a worldwide service and support network.