

Interior expansion system for the Belchentunnel

A complete and complex interior expansion system for the Belchentunnel



The Belchentunnel is a very extensive project. At the beginning of 2014 ARGE Marti Belchen (Marti Tunnelbau AG) was tasked with the construction of the inspection tunnel.

Our transfer bridge is used to get the tubing segments and the remaining material for the excavation to the tunnel boring machine. This is a movable 66m-long bridge, of which 35 metres is self-supporting without support, i.e. longer than most bridges built over the motorway.

The transfer bridge is not just a bridge, but more precisely the lifeline of the tunnel boring machine. Material is delivered via the bridge. There is enough space for 3 workplaces under the bridge and at the rear of the bridge, the tunnel will end at the construction track.

- Total length of bridge: 66 m
- Freestanding length: 35 m
- Maximum vehicle weight: 120 t
- Maximum axle load: 30 t
- Dead weight of bridge: 200 t



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Main contractor
ARGE Marti Belchen
(Marti Tunnelbau AG)

Drawn up
2015 / 2016

Scope of supply

- Transfer bridge
- Reinforcement carriage
- Vault formwork
- Sealing carriages
- Ceiling formworks



1. Transfer bridge
2. Vault formwork
3. Reinforcement carriage
4. Sealing carriages