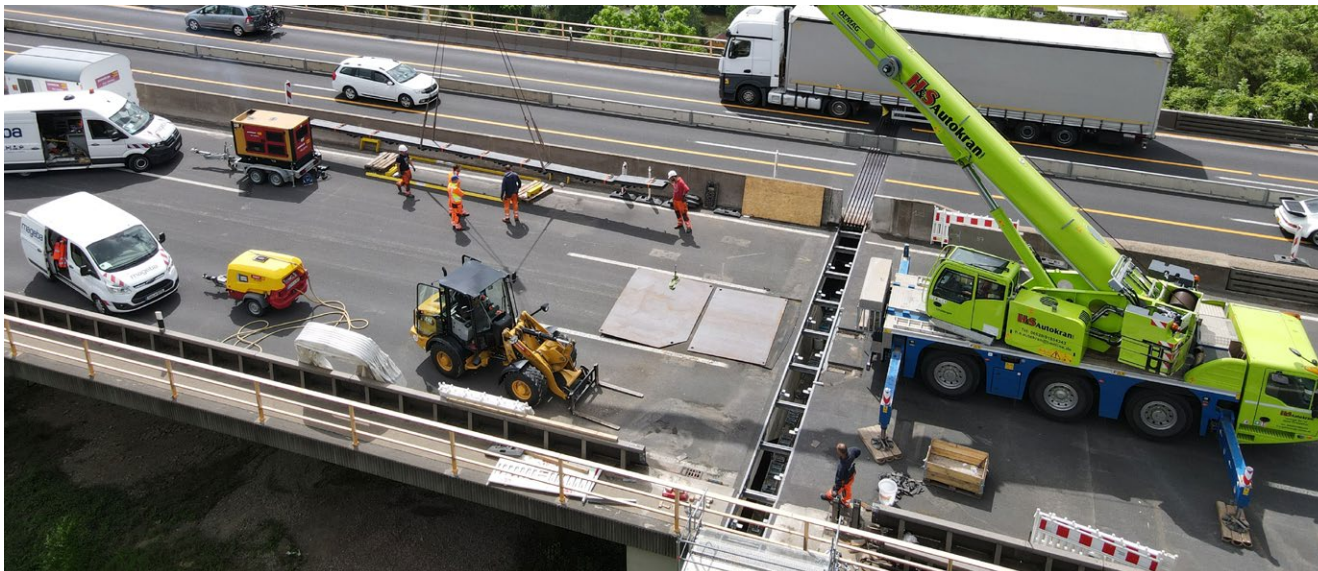


Werratal Bridge (Germany)



Project description

The Werratal Bridge is a 732-m-long pre-stressed concrete viaduct on the A4 motorway in Hörschel, Germany.

The structure spans over the Werra Valley, where the Thuringian Railway and State Road 1021 run parallel to the bridge.

The twelve pillars on which the bridge's superstructure rests are 9.6 m wide and the tallest one has a height of 80 m.

The structure was originally built between 1981 and 1983 and opened to traffic on December 15, 1984.

mageba scope

In 1996, all 4 existing mageba expansion joints were replaced with 2 TENSA®MODULAR joints of types LR7 and LR9 respectively. Although, after an inspection in 2021 it was decided that only the wearing parts of the joints should be replaced, the client wanted brand new joints.

The new products were installed using mageba's box-in-box method. The bridge deck in this case did not have a hard shoulder nor a classic central cap, only a concrete barrier rail, therefore one lane on the opposite side had to be closed when the joints were replaced on a particular side.

All support bars were individually installed in the existing support boxes in advance and then levelled at their final height. During the short road closure only the center-beam package had to be lifted in, and then stirrups had to be installed. In addition, the client also decided to use polymer concrete strips on both sides of the expansion joints instead of the traditional ones.

Highlights & facts

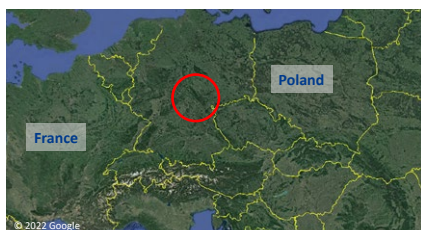
mageba products:

Type: TENSA®MODULAR LR joints
Installation: 2022

Structure:

Country: Germany
City: Hörschel
Completed: 1981–1983
Type: Pre-stressed concrete viaduct
Length: 732 m
Contractor: Via Solutions Thüringen GmbH & Co.KG

The bridge is located near the town of Hörschel in Germany



Lifting one of the new modular joints in place



A replaced TENSA®MODULAR LR9 joint after installation

