

Taohuayu Yellow River Bridge (China)



Project description

The Taohuayu Yellow River Bridge is the fourth bridge of the Xixia Wuzhi Highway over the Yellow River in the city of Zhengzhou. The bridge has a total length of 7,691.5 m, including approaches.

The main structure is a two-tower, three-span self-anchored suspension bridge with a main span of 406 m and side spans of 160 m.

The stiffening girder was erected using a one-way multi-point synchronous incremental launching method, which was controlled by a computer.

The bridge opened to traffic in October 2013.

mageba scope

mageba supplied TENSA®MODULAR expansion joints of types LR13 and LR16 for the Taohuayu Yellow River bridge when constructed in 2013. The expansion joints of type LR13 are designed to accommodate longitudinal deck movements of 1,040 mm, while type LR16 is able to facilitate movements of up to 1,280 mm.

The TENSA®MODULAR expansion joints were connected to the bridge structure by shear bolts. The installation team adopted butt welding during installation under the supervision of mageba.

The entire steel surface is coated with anti-skid material, ensuring safety when driving in humid environments.

Highlights & facts

mageba Products:

Type: TENSA®MODULAR LR16 and LR13 expansion joints

Installation: 2013

Structure:

City: Zhengzhou

Country: China

Completed: 2013

Type: Suspension bridge

Length: 7,691 m

Owner: Henan Taohuayu Yellow River Bridge Investments Co., Ltd.

Contractor: China Railway Mayor Bridge Engineering Group CO., LTD

Designer: Shandong Provincial Communications Planning and Design Institute

The bridge crosses the Yellow River in the city of Zhengzhou in eastern China



A 13-gap TENSA®MODULAR expansion joint ready for delivery at mageba's Shanghai factory



A TENSA®MODULAR expansion joint at one end of the cable suspended structure

