5th Nanjing Yangtze River Bridge (China)

Project description

The mighty Yangtze River is well over a kilometer wide where it passes through the city of Nanjing, a thriving modern metropolis.

Most of the bridges built across the Yangtze River since the first truss bridge was completed in 1968 are long-span cable-supported structures.

Now another equally impressive structure has been built across the river, the 5th Nanjing Yangtze River Bridge, also known as Nanjing Jiangxinzhou Yangtze River Bridge.

It is a three-tower cable-stayed structure with a main span of 1.2 km and a total length (excluding approaches) of 1.8 km.

The bridge was opened to traffic in December 2020.

mageba scope

After supplying TENSA®MODULAR expansion joints with large movement capacities to the 2nd / 3rd / 4th Nanjing Yangtze River Bridges during the last 20 years, mageba was again selected to be the expansion joints supplier of this latest structure.

Overall, 2 TENSA®MODULAR LR13 expansion joints were installed at both ends of the structure with a total length of 60 m.

Each of the two modular joints are designed to accommodate longitudinal deck movements of 1,040 mm, as well as transverse and vertical movements and multi-axial rotations.

They were also designed for concreted connections to the bridge's abutments and welded connections to its steel superstructure, and feature ROBO®GRIP anti-skid coating on their driving surface to enhance vehicle safety.

Highlights & Facts

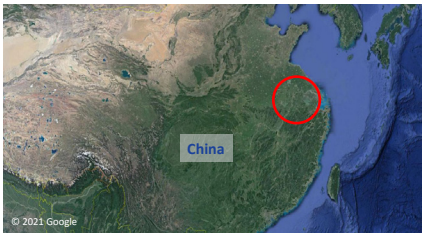
mageba products:

Type:	TENSA®MODULAR LR13 expansion joints
Feature:	ROBO®GRIP anti-skid surfacing
Installation:	2020

Structure:

City:	Nanjing
Country:	China
Type:	Cable-stayed bridge
Built:	2020
Designer:	CCCC Highway Consultants Co., Ltd
Contractor:	China Communications Construction Company
Owner:	Nanjing Public Works Construction Center

The Nanjing Jiangxinzhou Yangtze River Bridge is located in Nanjing City, Jiangsu Province



The TENSA®MODULAR LR13 joints were delivered from mageba's Shanghai factory to the site

A TENSA®MODULAR LR13 expansion joint during installation

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