

New Shougang Bridge (China)



Project description

The New Shougang Bridge constructed in Beijing and serving as an extension line of the Chang'an Avenue, is one of the capital's most important link, which leads to Tiananmen Square in central Beijing, across the Yongding River. The project's main goal was to facilitate the development of Shougang Industry Park.

The New Shougang Bridge is the world's first twin-tower cable-stayed steel composite bridge, with a total length of 1,354 m featuring two asymmetrical arch-shaped towers that symbolise the gates of the city centre.

With a main span of 639 m, it is the longest among the bridges of Beijing. It has a width of 54.9 m and accommodates eight traffic lanes as well as cycle-and pedestrian lanes, making it the widest steel bridge in China.

The whole bridge structure was welded, using 45,000 tons of steel plates during its construction.

New Shougang Bridge is located in the Chinese capital of Beijing



mageba scope

For this attractive structure mageba delivered 47 m of TENSA®MODULAR expansion joints of type LR4 and 47 m of type LR7, both featuring mageba's patented asymmetric control system for even distribution of movements among the joints' gaps, and rubber hump seals that protect the joint's gaps against the ingress of dirt and debris. In addition, each joint features ROBO®MUTE for noise reduction.

The top surface of the expansion joints in the footway areas was coated with ROBO®GRIP anti-skid surfacing to enhance travel safety.

With its newly installed TENSA®MODULAR expansion joints accommodating movements at both ends, the New Shougang Bridge is well-equipped with key components that will ensure safe travelling for many years to come.

A 7-gap TENSA®MODULAR expansion joint is lifted into position



Highlights & Facts

mageba products:

Type: 2 × TENSA®MODULAR expansion joints LR4
2 × TENSA®MODULAR expansion joints LR7

Features: Equipped with ROBO®MUTE for noise reduction

Installation: 2019

Structure:

City: Beijing

Country: China

Type: Cable-stayed steel bridge

Main span: 639 m

Built: 2019

Designer: BMEDI

Contractor: Beijing Urban Construction Group Co., Ltd

Owner: Beijing Gonglian

A 7-gap TENSA®MODULAR expansion joint after installation

