Chongqing Dongshuimen Yangtze River Bridge (China)

Project description
The Chongqing Dongshuimen Yangtze River Bridge is located in the city of Chongqing and connects the Yuzhong district with the Nan’an district. Official opening to traffic was in 2014.

The bridge acts as the urban secondary trunk road and starts from Tushan Road, Nan’an district, crosses the Yangtze River, leads through the Huguang Guild Hall and finally ends at Shan’xi Road, Yuzhong district.

It is a combined bridge including upper and lower decks. The main bridge is a double tower and single cable plane cable-stayed steel truss girder bridge with a main span of 520 m, a deck width of 21 m and an overall length of 1’000 m.

mageba scope
In 2013, mageba installed several TENSA®MODULAR expansion joints of type LR3 and LR8 as well as TENSA®GRIP RS single gap joints for the Chongqing Dongshuimen Yangtze River Bridge.

TENSA®MODULAR expansion joints allow free movements in all directions and rotations about every axis. The largest joints delivered, type LR8, can accommodate movements of up to 640 mm.

TENSA®GRIP RS single gap joints can facilitate movements of up to 80 mm. The joints consist of robust steel edge profiles and replaceable elastomeric sealing profiles, which ensure long-lasting watertightness. The drainage of the joints is accomplished by the drainage system of the bridge deck.

Highlights & facts
mageba products:
Type:  TENSA®MODULAR expansion joints of type LR3 and LR8
       TENSA®GRIP RS single gap joints
Installation:  2013
Structure:
City:  Chongqing
Country:  China
Type:  Cable-stayed bridge
Completed:  2014
Length:  1 km
Owner:  Chongqing City Construction Investment Corporation
Contractor:  MBEC
Architect:  Liu Xiaohui
Designer:  China Merchants Chongqing Communications Research & Design Institute; T. Y. Lin International

 mageba – Project information

An 8-gap TENSA®MODULAR expansion joint ready for transport

Detailed view of the displacement box welded on the steel box girder