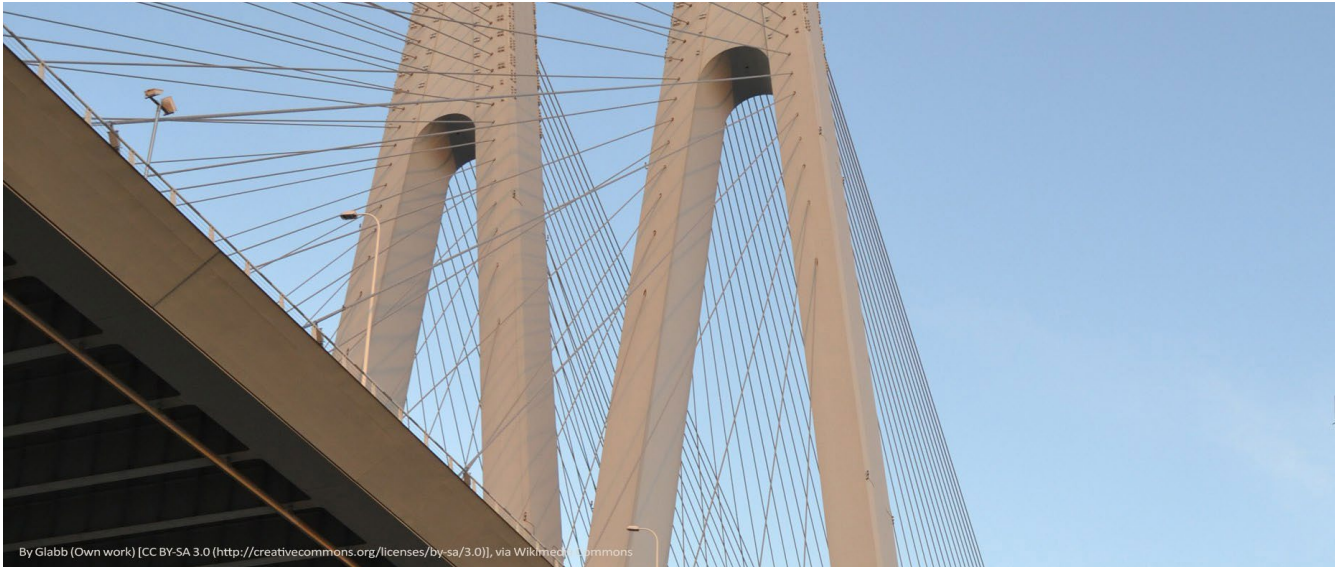


Yongjiang Super-Large Bridge (China)



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Project description

The Qingshuipu Bridge, in the city of Ningbo near Shanghai in eastern China, carries a section of the city's outer ring road over the Yongjiang River. Bridge construction work began in 2008 and the structure was opened to traffic in 2011.

With its main span of 468 m, the bridge is claimed to be the world's longest twin diamond-tower dual carriageway cable-stayed bridge. With side spans of 166 m and back spans of 54 m at each side, the cable supported structure has a total length of 908 m, while the total length of the bridge including approaches is 1,535 m.

mageba scope

In 2010, mageba supplied four TENSA®MODULAR expansion joints for the construction of the bridge. The joints were installed in 2011, at the ends of the cable supported structure's deck, two at each end. The joints, of type LR15 (with 15 gaps each), accommodate longitudinal deck movements of 1,200 mm.

The expansion joints were supplied with ROBO®GRIP anti-skid surfacing, to improve tyre grip and thus increase safety. This is generally recommended, in particular, for steel expansion joints that are so large that all wheels of a car may make contact with the joint at one time.

Highlights & Facts

mageba products:

Type: TENSA®MODULAR expansion joints (type LR15, 15 gaps each)
Features: ROBO®GRIP anti-skid surfacing
Installation: 2011

Structure:

City: Ningbo
Country: China
Completed: 2011
Type: Cable stayed bridge
Length: 1,535 m
Main span: 468 m
Contractor: Shanghai Urban Construction Municipal Engineering (Group) Co., Ltd
Owner: Ningbo East Beltway Highway Co., Ltd

The bridge is located in the city of Ningbo, south of Shanghai in eastern China



Installation of ROBO®GRIP anti-skid surfacing on the expansion joints



Picture of the joint's installation process on construction site

