

# Nansha Bridge (China)



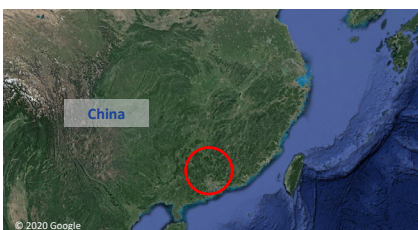
## Project description

Nansha Bridge crossing the Pearl River in South China's Guangdong province, is a super-large suspension bridge, opened to traffic in 2019.

The bridge with its length of 12.9 km and width of 40.5 m, accommodating eight traffic lanes, is the world's widest steel box girder suspension bridge. It is also the steel box girder suspension bridge with the largest span (1,688 m) in the world. The structure can bear a maximum speed of 100 km per hour and has an estimated service life of 100 years.

It shortens the travel distance from Guangzhou to Dongguan by 10 km, saving half an hour of travelling time between the two cities, and plays a vital role in accelerating economic cooperation and infrastructure connectivity among the cities of the Guangdong-Hong Kong-Macao Greater Bay Area.

Nansha Bridge crosses the Pearl River in South China's Guangdong province



## mageba scope

mageba is proud to be able to contribute to the construction of this mega project by installing 41 m TENSA®MODULAR expansion joints of type LR24, with each product featuring 24 individual gaps and facilitating movements of up to 1,920 mm. In order to ensure high traffic safety in wet conditions, the entire steel surface is treated with an anti-skid surfacing.

One side of the expansion joints is connected to the steel box girder, while the other is connected to the concrete approach bridge.

In order to ensure the durability and reliability of the expansion joints under extreme movement, the installed products on Nansha Bridge feature a two-way moveable design in order to accommodate the bridge's movements and rotations better.



## Highlights & Facts

### mageba products:

Type: TENSA®MODULAR expansion joints LR24  
Installation: 2018

### Structure:

City: Guangzhou  
Country: China  
Type: Suspension bridge  
Built: 2019  
Designer: CCCC Highway Consultants Co., Ltd  
Contractor: CCCC Second Highway Engineering Co., Ltd  
Owner: Guangdong Highway Construction Co., Ltd Nansha Branch

24-gap TENSA®MODULAR expansion joints were installed in the bridge's superstructure

