

# Longjiang Bridge (China)



## Project description

The Longjiang River is the largest obstacle along a new spur expressway that will branch off from the G56 to the city of Tengchong in western Yunnan Province. To get across the 300 meter deep river gorge, the engineers have designed the longest span high bridge on earth with a tower to tower distance of 1,196 meters – nearly as long as the Golden Gate Bridge. Longjiang will surpass the distance of both Aizhai and Balinghe Bridges which previously held the long span record honors among the world's highest bridges.

The Longjiang crossing will also be unique among China's big mountain suspension bridges with a thin steel box girder deck that breaks away from the traditional truss deck used on earlier bridges like Siduhe, Balinghe, Lishuihe and Aizhai.

## mageba scope

mageba took over the job of this exciting project with the development and supply of the joints with the highest movement capacity ever and the first new fuse element patented by mageba.

The movement of the joints is 1,920 mm and can provide +/-350 mm additional movement when the earthquake comes; this makes these joints the biggest movement capacity ever by mageba.

Due to difficult transport conditions the joints had to be pre-assembled in the factory, then disassembled for transport, and re-assembled on the bridge deck.

## Highlights & Facts

### mageba products:

Type: TENSA®MODULAR expansion joints (type LR24)

Features: New fuse system  
Installation: 12/2015–01/2016

### Structure:

City: Teng Chong City  
Country: China  
Completed: May 2016  
Type: Suspension bridge  
Length: 2.470 km  
Main span: 1,196 m  
Owner: Yunnan Highway Development & Investment CO.,LTD  
Contractor: CCCC Second Highway Engineering CO.,LTD

Location of the bridge



Arrival of the joints with the biggest movement capacity ever (1,920 mm, +/-350 mm)



Installation of the joints with the patented fuse system element

