

## Large-span dual-purpose road and rail bridge



### Overview

Stretching 3,118 meters with a 68-meter-wide deck, the bridge will become the world's largest dual-use bridge accommodating both highway and railway traffic. Its bored piles have also set new world records for their designed diameter of 6. The long-span dual-purpose highway-rail double-tower cable-stayed bridge has the characteristics of a large span and large load-bearing capacity. Designed and constructed by China Railway Bridge Science Research Institute, Ltd. respectively, both. Construction of the Xihoumen railway-highway dual-use bridge is making significant progress as concrete pouring for the bored piles of the bridge's main pier was completed on Sunday. On October 22, the main arch of the world's long-span road-rail dual-purpose steel arch bridge-Hutong Yangtze River Bridge Tiansheng Port Special Channel Bridge, constructed by the. At the beginning of the new year, at the construction site of No.



## Article Content

Paradigm update in the design of long-span railway-crossing bridges ...

The investigation ends in the identification of some main design parameters. A consequent optimization process on them could drive toward the final executive design of next generation of long

Large-Span High-Speed Dual-Purpose for Both Road and Rail Steel ...

The bridges are designed according to the different requirements of the clients. They are classified based on the characteristics of the acceptance, the purpose, the total length and span of the bridge,

List of road-rail bridges

List of road-rail bridges The Sydney Harbour Bridge, a steel through arch bridge, carrying both road and rail traffic in Sydney, Australia. Road-rail bridges are

### MULTI-SPAN LARGE BRIDGES

The bridge reference design in the treaty comprised of single level bridge structures carrying two tracks of high speed rail and a dual 2-lane with hardshoulder road.

A Long-span Network Arch Bridge for Road and Rail Traffic

Abstract The Qilu Huanghe River bridge, which is designed to span the Huanghe River and carry both road and rail traffic, is a network arch bridge with a record-breaking span of 420 m.

Large-Span High-Speed Dual-Purpose for Both Road and Rail Steel ...

High strength: The tensile, compressive and shear strength of steel is relatively high, enabling it to withstand large loads and being suitable for the construction of large-span bridges.

Super Project! SANY Helps The Piers Of The World's Widest Cross

Especially the high reliability shown in long (time) construction can make the owners feel very reassured. It is understood that the Xihoumen highway-rail dual-use bridge has solved the problem of

Recent development of design and construction of medium and long span ...

Medium- and long-span bridges of the high-speed rail (HSR) projects play a significant role when crossing certain obstacles, such as rivers, existing highways, etc. This paper provides a state

Construction begins on the world's longest-span railway-highway dual ...

It will be the world's largest highway and railway bridge with the longest span. The completion of the bridge will enable Zhoushan to connect to the national railway network, as reported by...

Construction underway for world's longest road-rail bridge in E China

Stretching 3,118 meters with a 68-meter-wide deck, the bridge will become the world's largest dual-use bridge accommodating both highway and railway traffic. Its bored piles have also set new world

World's longest dual-purpose bridge takes a further step toward

Spanning a total length of 3,118 meters and with a bridge deck width of 68 meters, the Xihoumen Rail-road Bridge is set to become the world's longest dual-purpose bridge with the widest

Effects of High-Speed Trains on Trucks Running on a Road-Rail Dual

Road-rail dual-use bridges [1, 2], which accommodate both vehicular and rail traffic, are increasingly important in regions with high-density transportation networks.

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The invention relates to the technical field of bridge engineering, in particular to a long-span road-rail dual-purpose three-tower cable-stayed bridge and a design method thereof.

The main arch of the world's largest span road-rail dual-purpose

On October 22, the main arch of the world's long-span road-rail dual-purpose steel arch bridge-Hutong Yangtze River Bridge Tiansheng Port Special Channel Bridge, constructed by the China

The Design and Study on Long-Span Road-Rail Cable-Stayed Bridge

The main content of this paper is to study the Steel Road-Rail Cable-stayed Bridge with a main span of 1200m. The finite element model is established by large-scale analysis software to calculate the

Optimal Design of Bridges for High-Speed Trains

Akiyama, Fukada and Kajikawa (2007) studied the influence of different structural systems on pedestrian and road single span bridge vibrations. They investigated four types of structural models:

Developments and Prospects of Long-Span High-Speed Railway Bridge ...

In order to overcome the technical issues that originate from the extremely large dead loading and the relatively small structural stiffness of long-span high-speed railway bridges, many

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For more information, pricing, or custom solutions, please contact us:

Website: <https://activa.net.pl>

Email: [sales@activa.net.pl](mailto:sales@activa.net.pl)

Phone: +48 662 748 193

Address: ul. Cybernetyki 7B, 02-677 Warsaw, Poland

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