

Spiral Bridge Construction



Overview

This realistic mega construction short shows the full engineering process, from early quarry road alignment and foundation work to rising bridge piers, elevated connector spans, retaining walls, full spiral descent, asphalt paving, and final road finishing. A spiral bridge, loop bridge, helix bridge, or pigtail bridge is a road bridge which loops over its own road, allowing the road to climb rapidly. This is useful in steep terrain, or where the approach road to a bridge would terminate too far from the bridge's end. Despite its name, the typical. Watch how a giant spiral bridge road is built step by step inside a massive open-pit quarry. more Watch how. The Future of Bridges Construction with Pacific Spiral Structure With our cutting-edge spiral structure system, we provide developers and builders the tools they need to seize control and ensure future-proof construction practices. The reason for the design was simple - it had to be high enough for steam boats to pass under it while still exiting onto Main. The Lincoln Tunnel Helix, known commonly as The Helix or the Route 495 Helix, is an elevated spiral bridge freeway that carries New Jersey Route 495 to and from the Lincoln Tunnel in Weehawken, New Jersey.



Article Content

Aug 05, 2025

CSCEC-built spiral tunnel officially recognised as world's

A spiral tunnel in China, built by Chinese construction giant China State Construction (CSCEC), has been recognised as the world's longest.

Dec 27, 2025

FULL LOCKED COIL ROPE | SPIRAL STRAND

FATZER is proud to have contributed to this road bridge in Bavaria, which was nominated for the German Engineering Award. A total of 1,300 m of high-quality

Oct 17, 2025

Lincoln Tunnel Helix

The Lincoln Tunnel Helix, known commonly as The Helix or the Route 495 Helix, is an elevated spiral bridge freeway that carries New Jersey Route 495 to and from

Jan 18, 2026

MediaCity Footbridge

The bridge comprises two spans: a main span, approximately 65m in length, which traverses the shipping channel of the Canal, and a 18m flared concrete-filled back

Jul 09, 2025

Spiral Bridge Site

The Wisconsin Bridge and Iron Company received the contract for construction and engineering, but the individual responsibility for the idea to make a spiral bridge remains a mystery

Jul 14, 2025

Category:Spiral bridges

The following 4 pages are in this category, out of 4 total. This list may not reflect recent changes.

Dec 25, 2025

Spiral bridge explained

Spiral bridge explained A spiral bridge, loop bridge, helix bridge, or pigtail bridge is a road bridge which loops over its own road, allowing the road to climb rapidly. This is useful in steep terrain, or where

Apr 04, 2026

Design, Construction, Testing, and Behavior of Driven Precast

Abstract Marine, coastal structures, and bridges deteriorate prematurely due to corrosion. Numerous failures have occurred in substructure members of these structures, such as piles, leading

Nov 12, 2025

The Spiral Path: Secrets of the Helix Bridge

The Helix Bridge changes from a sleek steel construction to a glowing walkway that illuminates the Marina Bay skyline at night. The LED lights

Jan 03, 2026

Hastings Spiral Bridge Historical Marker

Hastings Spiral Bridge Only One of Its Kind in America April 27 1895 eight thousand people commemorated the opening of the new "High Wagon

Oct 06, 2025

FROM "EXPLORING THE MIDDLE ZONE" TO "CONSTRUCTING A BRIDGE ...

The spiral bianshi curriculum, an improvement on bianshi teaching developed by Gu (2000) and in line with Marton's theory of variation (Marton & Booth, 1997), was tried out in a primary

Jul 07, 2025

Manual for the Streets

Experience suggests that many of the street patterns built today will last for hundreds of years. We owe it to present and future generations to create well-designed places that will serve the...

Feb 22, 2026

Spiral Bridge Site

The bridge was built in 1895 with an interesting spiral that wound down to the Hastings business streets. The reason for the design was simple - it had to be high enough for steam boats to

May 14, 2026

Shear Behavior of Oblong Bridge Columns with Innovative Seven-Spiral ...

The use of spirals promotes construction automation as spirals can be automatically fabricated by a machine (Fig. 2). However, bridge columns are generally large, such that the spiral size in two ...

Mar 12, 2026

The Craziest Spiral Bridge Ever Built

Watch this mega construction transformation as the project goes from excavation to a fully operational highway.

Jul 30, 2025

Helix Bridge: story of the Singapore bridge

Discover the history and features of the Helix Bridge, a pedestrian bridge that has become a symbol of Singapore, thanks to its shape inspired by

Nov 29, 2025

“Engineering a Spiral Bridge | Design & Construction Process”#short.

Ever seen a bridge that loops over itself? 🌀Welcome to the world of Spiral Bridge Construction — where engineering meets creativity!In this video, you'll di...

Feb 14, 2026

Discover Spiral Bridge Structures

The Future of Bridges Construction with Pacific Spiral StructureWith our cutting-edge spiral structure system, we provide developers and builders the tools they need to seize control and ensure future

Feb 01, 2026

The Footbridge, MediaCityUK

This elegant cable-stayed swing bridge completes the pedestrian links at Salford Quays. The tapering triangular box deck is curved on plan and elevation, and is

Jan 09, 2026

Spiral Strand

Geometrically, perhaps the simplest of rope constructions, spiral strand consists of concentric helical layers of wire (Fig. 1 (a)). The outer layers of a spiral strand, which constitute the

Apr 17, 2026

Media City Footbridge / WilkinsonEyre

WilkinsonEyre's footbridge forms a visual landmark and sculptural gateway to the Media City site and connects it with satellite

Jun 08, 2026

This Spiral Bridge Will Blow Your Mind! |Amazing ...

Have you ever seen a bridge built in a spiral shape? In this video, we explore some of the most incredible spiral bridges in the world — a true masterpiece...

Jun 03, 2026

Big Hill

Looking west, 1890. Safety Switch No. 1 and its uphill spur are shown foreground and right; the truss bridge under the rear of the train, now known as the "Old

Nov 30, 2025

FULL LOCKED COIL ROPE | SPIRAL STRAND | Bridges

Spiral ropes for bridges Whether for road or pedestrian bridges, FATZER cable assemblies arrive at the construction site prefabricated and ready for installation.

May 05, 2026

WORLDKINGS

(WorldKings) World's largest spiral bridge approach is the 180-meter-diameter final section of the elevated approach to the Nanpu Bridge in Shanghai, China.

May 16, 2026

Nanpu Bridge and Spiral Road, Shanghai, China

The cable-stayed bridge was designed by the Shanghai Municipal Engineering Design Institute, Shanghai Urban Construction College, and Shanghai Urban Construction Design Institute, with

Mar 20, 2026

About: Spiral bridge

A spiral bridge, loop bridge, helix bridge, or pigtail bridge is a road bridge which loops over its own road, allowing the road to climb rapidly. This is useful in steep terrain, or where the approach road to a

Nov 02, 2025

Brusio spiral viaduct

The Brusio spiral viaduct (or Brusio circular viaduct; Italian: Viadotto elicoidale di Brusio, German: Kreisviadukt Brusio) is a single-track nine-arched stone spiral railway viaduct on the Bernina Railway.

Dec 17, 2025

The Media City Footbridge

The bridge has a dramatic curved form which responds to the radial masterplan of the site and which will form an integral part of an orbital

May 02, 2026

Construction Begins on BIG's Spiral Skyscraper in Manhattan

Construction has begun on "The Spiral," a 1,031-foot-tall project in New York's Hudson Yards designed by Bjarke Ingels Group.

Oct 25, 2025

Spirals and helixes | Dezeen

Spirals and helixes in architecture including twisting cafes, observation towers, skyscrapers, cultural buildings and viewing towers.

Aug 06, 2025

Spiral Staircase Construction (How to do Precast Staircase)

Yes today, master the art of spiral staircase construction with this in-depth construction tutorial, specifically designed for both civil engineering students and construction professionals who ...

Aug 04, 2025

How This Giant Spiral Quarry Bridge Road Is Built Step by Step # ...

Watch how a giant spiral bridge road is built step by step inside a massive open-pit quarry.

Dec 12, 2025

Austin Bridge & Road is constructing a unique spiral

Austin Bridge & Road is constructing a unique spiral corkscrew bridge on FM 457 in Sargent Beach, Texas, on the northeast end of Matagorda Bay. The new spiral

Contact Us

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

Website: <https://www.piano-lessons.co.za>

Email: info@piano-lessons.co.za

Phone: +31 6 37258914

Address: Herengracht 123, 1015 BT Amsterdam, Netherlands

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