

Cross-Sea Highway Bridge

This highway bridge spans a bay, connecting two cities and reducing travel time. It is designed to accommodate high traffic volumes and incorporates a cable-stayed portion.



Project Overview

Engineering Marvel in Hangzhou Bay

The Cross-Sea Highway Bridge is a monumental infrastructure project designed to withstand extreme tidal ranges and storm conditions, setting a new global precedent for bridge engineering. With a design life exceeding 100 years, the structure integrates advanced durability standards with a unique S-shaped curve inspired by local cultural aesthetics. This bridge serves as a critical transportation artery, seamlessly blending high-capacity functionality with tourism potential.

Technical Standards

Design Life	100 years
Technical Innovations	250
Core Technology Series	9

Design Features

Structural Form	S-shaped curve
Design Inspiration	West Lake lying wave morphology

Capabilities

Environmental Adaptability

- Large tidal range
- High scour depth
- Severe storm conditions
- Soft soil conditions

Primary Functions	Transportation, Tourism
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