

CASE STUDY

Alimak construction hoists at work during construction of double-deck suspension bridge

Two Alimak SC 45/30 construction hoists were utilized in the pier construction of Wenzhou Oujiang North Bridge crossing the Oujiang river in Wenzhou City, Zhejiang province, China. The Alimak hoists provided efficient vertical access for both people and materials.

Two Alimak SC 45/30 passenger and material hoists were used during the construction of the bridge pylons at Wenzhou City, Zhejiang, China. With a payload capacity of 2,000 kg and a lifting height of 150 meters, and with 1.5 degree inclination with the pylons, the hoists provided efficient vertical access during the concrete slipform construction of the bridge pylons.

The bridge is a double-deck suspension bridge with three concrete pylons and with the main spans of 2 X 800 m. Both the upper and lower decks of the bridge are designed to carry 6-lane highways.

Alimak construction hoists have been used for over 50 years in all types of applications around the world. The standard range of Alimak construction hoists offer the optimum transport solution during slipform construction of towers, bridges, buildings and dams. It performs well with inclinations and curves and follows the constantly changing structures during construction.



Two Alimak hoists service the construction of a new double-deck suspension bridge in China

HOIST DETAILS

Location:	Oujiang Bridge Wenzhou City, Zhejiang, China
Application:	Bridge construction
Hoist type:	Alimak SC 45/30 DOL
No. of hoist cars:	2
Capacity/hoist:	2,000 kg
Hoist car size:	1.5 m 3.0 m 2.14 m (W x L x H)
Speed:	36 m/min
Lifting height:	150 m

BRIDGE DETAILS

Carries:	Dual 6-lane highway
Crosses:	Oujiang river
Design:	Double-deck suspension bridge
Longest span:	2 x 800 m

