

CASE STUDY

# Elevating safety and efficiency: Levato 650 powers the Longchuan River Bridge build

The construction of a new bridge presents a range of unique access challenges and the Yuan Da Expressway, Longchuan River Bridge project in China is no exception. The Alimak™ Levato™ 650 construction hoist is an ideal solution for temporary vertical access in this challenging environment.

With the completed bridge due to reach 100 m tall, the project demands an efficient and reliable solution for the vertical transportation of both people and heavy materials. To meet these rigorous demands, the project team chose to install an Alimak Levato 650 construction hoist on the bridge's main pillar – a choice backed by Alimak's proven rack and pinion technology and decades of industry expertise.

Bridge construction presents a unique logistical challenge, especially when transporting bulky materials to elevated work zones. Maintaining a strict project schedule is crucial to avoid delays, and the challenging site conditions demand equipment that can withstand harsh environments. Above all, worker safety remains paramount, necessitating a vertical transportation solution that can enhance safety and streamline site operations.

To address these challenges, the Alimak Levato 650 construction hoist was installed. Its modular design allows for a spacious 3.9-meter cage, to suit the project's specific needs. With a robust payload capacity of 3,000 kg, the Levato 650 is ideally suited to efficiently transport large, heavy loads. Its impressive lifting speed—up to 60 meters per minute—enables rapid access to the 70-meter working height, helping the team meet tight deadlines.

The hoist's durable design ensures optimal performance even in harsh site conditions, while the improved car door design simplified installation and minimised setup time. Powered by Alimak's advanced ALC III intelligent control system, the Levato 650 automatically selects the most efficient operational mode, reducing wait times and boosting productivity on site.

Alimak was chosen for our extensive experience and reputation for reliability in demanding construction environments. The Levato 650's combination of modularity, intelligent control, and robust design makes it the trusted choice for this high-profile bridge project, delivering enhanced safety, increasing productivity, and streamlining workflows.



Alimak Levato 650 at Longchuan River Bridge project

HOIST DETAILS	
Location:	Yuanmou County, China
Application:	Bridge
Hoist type:	Alimak Levato 650
Hoist capacity:	3,000 kg
Hoist car size: (W x L x H)	1.5 x 3.9 x 2.3 m
Speed:	60 m/min
Lifting height:	70 m
No. of landings:	1

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