

CASE STUDY

A comprehensive rental access solution for the construction of Australia's tallest residential tower

Alimak's long record of excellence as a leading provider of vertical access solutions for the construction industry was called upon to deliver a reliable and robust construction hoist system for the ambitious project site at Australia 108.

Located in Southbank, Melbourne, this is the tallest residential building in the Southern Hemisphere.

At 319 metres and 100 floors, the efficient transport of key personnel and a broad range of tools, materials and equipment would be vital to realising this bold vision and enhancing safety on site. A particular challenge during this project was the planning and execution of a high capacity construction hoist system which would call for a staged handover of the building as each floor was completed and residents took up occupation. As an integral contributor to the success of the building, the flexible rental solution that Alimak provided, encompassed six highly engineered construction hoist cars built on the rack and pinion drive system pioneered by Alimak.

An Alimak Scando 450 is ideal for transporting both passengers and cargo with a maximum payload of 2,000 kg and a top speed of 55 metres per minute. In addition, Twin FC-S and a Twin FC construction hoists were also deployed to satisfy the scale of the build, with the modular design providing the benefit of two construction hoists utilising a single mast.



Australia 108, Melbourne, Australia

Again, the capabilities are impressive with the FC-S having a maximum payload capacity of up to 3,200 kg and travelling at up to 100 metres per minute. The system was able to achieve a lifting height of 220 metres with convenient access to 73 landing points.

In addition to the flexibility of the construction hoist system, the project also benefited from the comprehensive rental operations that Alimak are able to provide as the worldwide market leader. Beyond the supply of the equipment, Alimak's expert team are also on hand to provide a full range of service and support solutions including consultation and training and maintenance support to ensure the ongoing success of continuous operations. This kind of rental arrangement with appropriate support from industry-leading experts can often deliver a cost-effective solution without compromising on functionality by ensuring that the most appropriate vertical access solutions are in place for each stage of the build process with qualified technicians taking care of the installation and dismantling as required.

HOIST DETAILS

Location:	Australia 108, Melbourne, Australia
Rental period:	March 2017 – July 2019
Application:	Construction
Hoist type:	Alimak Scando 450, Twin FC-S and Twin FC
Capacity:	450 1400kg /Twin FC-S 3100kg /Twin FC 3200kg
450 Car size:	2.3 x 1.4 x 2.0m (speed 40m/min)
Twin FC-S:	2.2 x 1.5 x 3.9m (speed 100 m/min)
Twin FC:	2.2 x 1.5 x 3.9m (speed 54m/min)
Lifting height:	220 m (applies to all hoists)
No. of landings:	73 (applies to all hoists)

www.alimak.com

ALIMAK