

Case study:

The new age of Alimak high-speed rack & pinion construction hoists



*One Central Park, Chippendale
NSW, Australia*

Case study:

The One Central Park development will see the end of an era with the decommissioning of the original Alimak high-speed counterweight hoists. The new generation of Alimak Scando 650 FC-S construction hoists will set the industry standard for speed, performance and durability.

Redevelopment of a historic site

One Central park is a \$2 billion precinct featuring commercial, residential and retail space, built on the site of the historic Carlton & United Brewery in downtown Sydney. Alimak Hek worked closely with the builder, Watpac Construction, through tender stage to construction, aiding in the planning, budgeting and engineering of the 16 construction hoists that would be used throughout the project.

Positioned throughout the East and West towers of the development, the first Alimak rack and pinion hoist was installed in June 2011 with the final hoist due for dismantle in January 2014. Among the hoists selected for the project were the original high-speed Alimak Scando counterweight hoists and their recent successor, the new high-speed Alimak Scando 650 FC-S.

The end of the counterweight hoist

As the original high-speed construction hoist, Alimak counterweight hoists reach speeds of up to 80m/min with payload capacities of 2800kg. Replaced in 2004 with the launch of the new Alimak Scando 650 FC-S, the older counterweight hoists have slowly been phased -out and replaced with the new and improved fleet of Alimak Scando 650 high-speeds.

A mix of old and new

Given the large number of hoists required on the One Central Park project, a mix of old and new high-speed hoists were employed. As the last of their fleet, two Alimak counterweight hoists were positioned on the East tower, providing men and materials with access to 33

levels during construction. Upon completion of the tower, the two counterweight hoists will be decommissioned and replaced with the new Alimak Scando 650 FC-S high-speeds.

Located on Block 5c of the One Central Park development, a twin 650 FC-S high-speed aids in the transport of the development's 1000 workers on site daily. With a capacity of 3100kg, the 650 FC-S operates at speeds of up to 100m/min with a maximum standard lifting height of 400m.

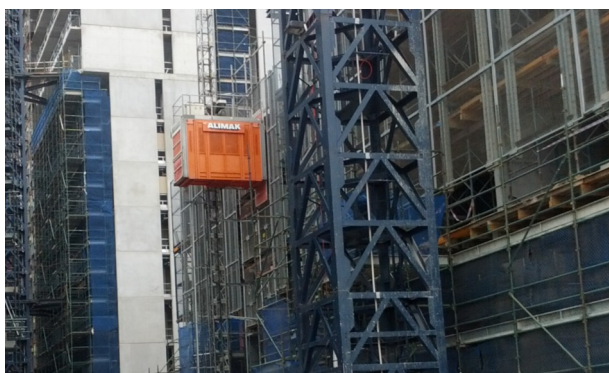
The new high-speed

Unlike their predecessor, the new Alimak Scando 650 requires no counterweight, instead powered by three 22kw frequency controlled motors to drive the system through high-efficiency gearboxes. Frequency control provides smooth starting and stopping, while the ALC-II Alimak Lift Control System reduces waiting time and provides an internal fault diagnostic system. The 650 FC-S has lower power consumption, resulting in less wear and tear and a reduction in breakdowns, while less jump time minimizes interruptions and reduces site down-time.

With old and new Alimak high-speed hoists working alongside one another at the One Central Park development, it is evident how far Alimak high-speed technology has developed in recent years. As the last of the Alimak counterweight hoists are phased out, the 650 FC-S sets a new industry standard for speed, performance and durability in high-speed construction hoists.

DETAILS

Location:	One Central Park, Chippendale NSW
Product Model:	ALIMAK SCANDO 650 FC-S
Application:	Mixed use development, construction hoist
No. of Landings:	24
Capacity:	3100 kg
Car size:	1.5 m x 3.9 m
Speed:	100 m /min
Lifting Height:	73 m



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