

Alimak Hek and CAS rise to new heights on St George's Wharf Project

Brookfield Multiplex has installed a high speed Hoist and Common Tower Access System which is now fully operational at The Tower currently under construction at 1 St George Wharf, London. This is a St George South Limited project and this tower will reach a height of 185m making it one of the tallest residential building in Europe.



Brookfield Multiplex Europe proposed using this type of system and Alimak Hek Ltd and Construction Access Systems (CAS) of Cambridge were contracted to produce the system.

A pair of the innovative ALIMAK SCANDO 650FCS 100mtr/min high speed construction hoists have been installed, and are specifically designed to speed up construction time and save costs. On St George's Tower, full height transit time has been reduced to just 90 seconds, compared to over 4 minutes using standard hoists. The hoists also incorporate VFC drives which have improved levelling accuracy and further power savings

of around 30% have also been achieved, which makes it great value for money.

The CAS Common Tower System is manufactured from aluminium alloy to minimise weight and has a small 5m x 5m footprint yet it is capable of running multiple hoists simultaneously. This allows all material and personnel hoists to be concentrated in one area, which streamlines loading efficiency at ground level. The system installed at St George's Tower also incorporates a 3m x 4.6m 'Mammoth' hoist from Alimak Hek with a safe working payload of 5500kg which is crucial for the fast movement of large materials required for modern buildings.

With all hoists operating simultaneously it minimises waiting times for men and materials, especially at peak times. Unlike other systems the CAS Common Tower provides an open clear (5m x 5m) landing space at each floor to allow an enhanced and safe flow of materials in and out of the hoists.



As only the common tower, and not the hoists, are tied directly into the building, it means external cladding can be applied to the whole building during construction with the exception of the 4.5 metre access openings at each level. As a result there are far fewer panels to replace at the end of the project, which dramatically speeds up de-rigging.

The combination of the Alimak Hoists and Common Tower not only saves time and boosts efficiency during the construction phase but is also far quicker to install and remove than conventional stand-alone hoist systems, so there are major savings at the start and end of the project as well.

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Editor's notes:

Hi-res images available on request

More about Alimak Hek

Alimak Hek is the world's leading supplier of mast climbing equipment and added value services for both temporary and permanent installations providing the most cost efficient, reliable, and flexible vertical access solutions for people and materials in the construction and general industry.

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Alimak Hek operates wholly owned sales and rental companies in some 20 locations around the world, and has over 50 representatives in other locations.

For further information

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