

Lotte World Tower

Seoul

Case Study



Manntech provides facade access solution for supertall Lotte World Tower

This iconic, supertall skyscraper is the tallest in Korea, the tallest building in any of the 35 member countries of the OECD, and the fifth tallest building in the world. The design features an elegant, slender cone shape with convex, gently curved sides. An exterior of pale-coloured glass draws inspiration from Korean ceramics and features accents of metal filigree. The development is home to retail outlets, offices, residences, a luxury hotel and public access floors with an observation deck.

Manntech always take pride in providing the best facade access solutions possible. For this project we not only met the specifications of the client in terms of the number and location of machines but produced final, detailed designs with machine functionality which improved efficiency and simplicity of use beyond what was expected.

This supertall building required a facade access solution with a total of seven crane-type Building Maintenance Units (BMUs). Four BMUs are located inside the building itself at level 73. Each machine is dedicated to a zone covering one quadrant of the building, and the telescoping jib extends from huge opening gates integrated within the building facade. Articulated arms mean that the jibs can all slew once clear of the gate. Three BMUs are located higher up the building to service from level 125 down to level 73. Because the building is tapered and conical the cradles are designed to roll down the facade.

A particular challenge was the limited space available for the BMUs at level 73. The project required the functionality of relatively large machines but also called for them to rotate inside the building when not in use. Manntech were able to provide a more compact solution for the level 73 machines than any other provider.

Facts and Figures

Commencement:
May 2012

Completion:
May 2016

Building Height:
555 meters

Floor count:
123

Access solution:
▶ All Type 6 crane type machines

Outreach:
▶ 4 machines on level 74: 18.5 meters
▶ 2 machines on level 125: 11 meters
▶ 1 machine on level 125: 14.5 meters

Building Type:
Office, hotel and retail

For more information

View more projects: www.manntech.com
Email: info@manntech.com