

**CoxGomyL
overcome the
challenge of facade
access solutions
for One World
Trade Center**

CoxGomyL's reliable, high quality facade access systems can be found in daily use at many of the most famous landmark buildings all over the world. No other project, however, exceeds the cultural and social importance of the new One World Trade Center in New York.

This new iconic landmark on the famous New York City skyline represents a stunning achievement in a number of areas. In terms of sheer scale, One World Trade Center is the tallest building in the USA and in the entire Western Hemisphere, towering 541 metres over the bustling city streets and well exceeding super-tall status. Given the sensitive history of the World Trade Center site, this was also a highly emotive and poignant redevelopment project which needed to not only provide high end office space for business and commerce but also stand as a fitting monument for New York itself and provide the city with a renewed sense of optimism and civic pride. The stakeholders involved therefore extended beyond the architects, developers and construction companies to the government and the people of New York.

The building design by Skidmore, Owings & Merrill (SOM) was conceived as a strikingly bold monument with clean lines creating a deceptively simple aesthetic. The tower features a strong geometric form with gently tapering corners presenting inward tilting facade surfaces. The prism-like shape is also intended to interact with natural light, constantly changing the experience of looking at the building. All of these factors made effective building access systems a vital consideration. The project was significantly complicated by the requirement to install all Building Maintenance Units without the use of tower cranes.

Working closely with a wide range of stakeholders, CoxGomyL's expert team developed a unique facade access system which would be capable of meeting all of the practical access needs while also overcoming the challenges involved during installation. A high level of functionality and maneuverability is provided by four BMUs in fixed positions with dual knuckle slewing rings. In addition, the system was specially developed to ensure every individual component weighed less than 6000lbs (2721kg) and was also small enough to be transported via the elevator system.

One World Trade Center has been widely celebrated by both local New Yorkers and the wider world and thanks to the problem solving ability of CoxGomyL's expert design and engineering team, will stand as a proud glistening icon of the city for many years to come.

FACTS & FIGURES

Commencement	January 2017
Completion	January 2020
Building Height	541m
Floor Count	105
No. of BMUs	4
Outreach	26m
Building Type	Commercial

