

## POSCO Centre

Seoul, South Korea

### Case Study



#### Manntech replaces building maintenance units at the POSCO Centre

The POSCO Centre is an iconic 31-story commercial building that has long been a symbol of architectural excellence in Seoul, South Korea. Designed by Group-3 Architects & Associates, the building boasts prestigious awards, including the Seoul Metropolitan Architecture Award and the Korea Architecture & Culture Awards Grand Prize.

Founded as a steel company, POSCO Group has evolved into a global conglomerate spanning industries such as steel, energy, trade, construction, and secondary batteries. Today, the centre serves as the headquarters of POSCO Holdings, the group's holding company.

Manntech was approached to replace the current building maintenance units (BMUs) of the centre with a reliable and efficient facade access solution, to enhance performance, safety and overall maintenance efficiency.

One of the primary challenges Manntech faced was ensuring that the new BMUs were compatible with the building's existing design as they were replacements for existing building maintenance units. As such, the weight and size of the BMUs had to be carefully considered to ensure seamless integration.

To overcome these challenges, Manntech proposed the installation of two Type 4.1 BMUs from the Economical range. Recognised for their compact design and efficiency, the Type 4.1 BMUs were equipped with integrated material winches, enabling operators to undertake not only window cleaning but also comprehensive building maintenance tasks, such as glass unit replacements.

The BMUs were fully synchronised with hoist units, enabling operators to adeptly control both the main hoist and material winch using a single control button. Moreover, including a human-machine interface (HMI) offers simplified limit setup and checks, while router connectivity to the MyBMU remote monitoring portal enhances accessibility for preventive maintenance data. The BMUs were also equipped with inverters for soft start and soft stop, minimising wear and tear and extending the maximum lifecycle.

### Facts and Figures

**Completion:**  
August 2023

**Building Height:**  
31 floors

**Number of BMUs:**  
2

**BMU Type:**  
4.1 – Economical Range

**Outreach:**  
1,500 m

**Building Type:**  
Commercial

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