



Stockholm Globe Arena – Sweden

Special Structural Access

Customer

Contractor: Skytec, Sweden
Owner: Globe Arena

Project Scope

Maintenance and cleaning of the external aluminum sandwich panels on this large hemispherical building, with roof dimensions of 110 m diameter

Challenges

- Required a custom design for this unique surface
- Moving equipment 360° around the globe
- Unavailability of cranes
- Limited load capacity on the sandwich panels
- Weight bearing distribution system required for excessive loads

Power Climber Solution

We designed and built a custom suspension system with a monorail on top of the globe where the carrier could move 360°, and provided a 3 m suspended access platform with two Titan PI hoists which provided 450 kg payload. The platform was suspended to the carrier and attached together so they could travel simultaneously. Due to lack of crane availability, the monorail was dropped in place by the helicopter. In order to make the platform safe and stable to operate on a ground surface, the inclination of the platform floor was monitored by level sensors, allowing it to maintain the horizontal position of the platform floor.