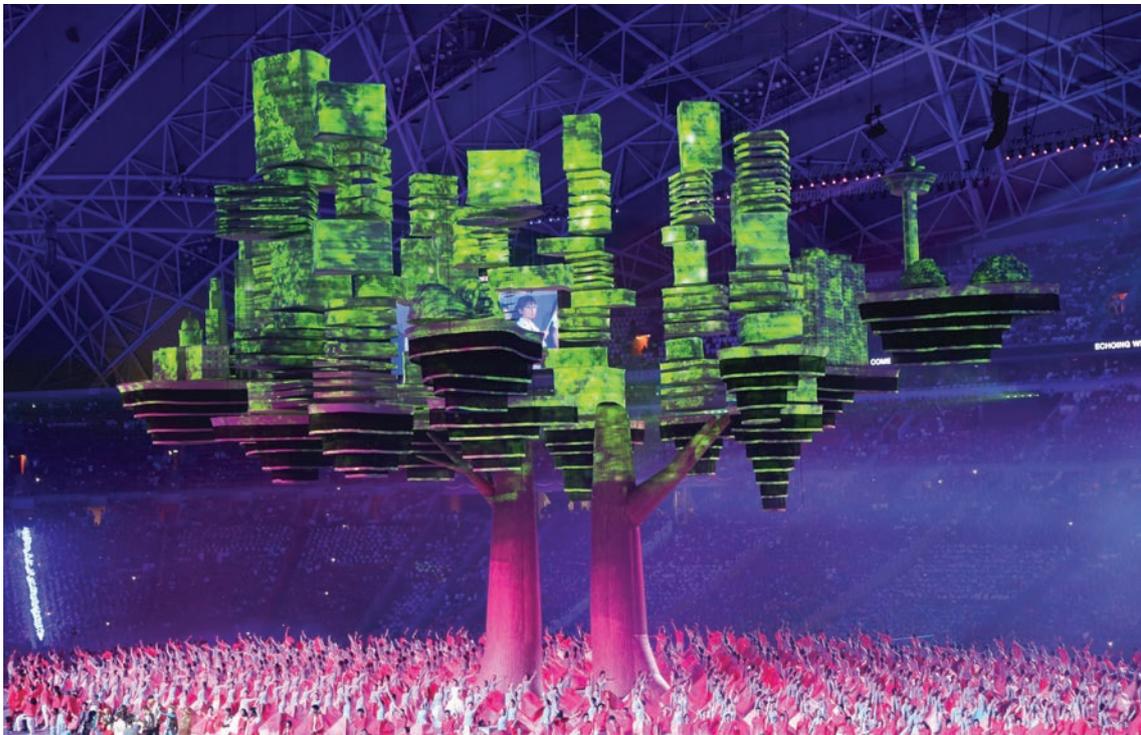




National Day Parade 2016 Singapore



Working for The Government of the Republic of Singapore, we delivered the aerial system and scenic elements.

We provided the flying system and some large scenic elements for this high-profile event celebrating Singapore's independence. For the first time, the National Day Parade took place within Singapore's National Stadium, a venue with a capacity of 55,000 and currently the largest domed structure in the world. We were familiar with the venue as well as the client and creative team, having worked successfully with them on delivering Singapore's 28th South East Asian Games in 2015. This time, we delivered a total of three NDP shows, including two preview shows, each playing to a capacity audience. The main show was broadcast live on national television.

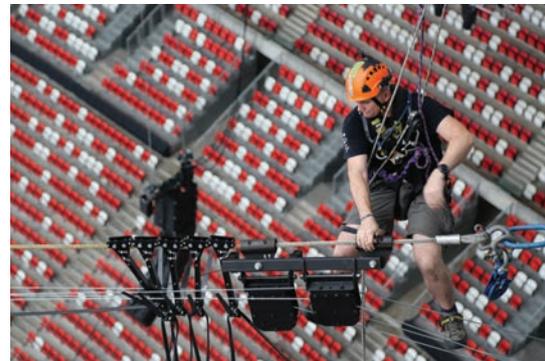
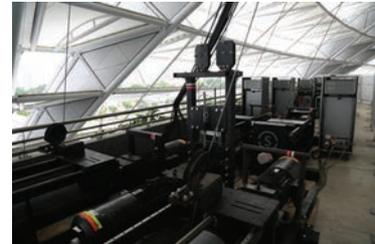


Aerial System

Working to a compressed timescale of just three weeks, our crew installed a radial catenary flying system that flew up to twenty performers at a time, including a seven-year-old boy who traversed the field of play riding atop a scenic unicorn.

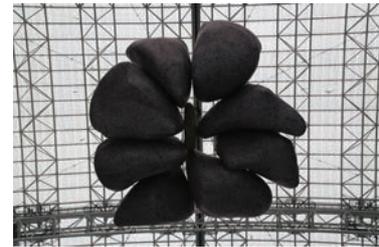
The radial configuration comprised four 24mm and four 18mm wire rope catenaries, the longest reaching 80m in length, all meeting at a central hub. Four self-contained winch farm platforms were installed in the roof space, with an additional two positioned at level six on the stadium's north and south sides. These winch farms housed a total of eight friction drives to deliver the traverse, and thirty-three standard hoists providing the raise and lower.

In addition to the catenary flying, we also supplied an additional fifteen spot hoists for performers and scenery. All flying sequences were programmed and controlled using our Qmotion system.



Legend of Badang

In addition to the aerial engineering, we provided various large scenic pieces including eight inflatable boulders used during the telling of the legend of Badang. Each 7m x 5m x 5m boulder was flown on the catenaries, beginning the sequence in a central cluster before flying apart to reveal a GRP Singapore Stone within. Controlled by a spot hoist, the Singapore Stone was also 'inlaid' with LEDs, forming ancient script in line with the legend. In order that the eight boulders remain fully inflated, each was fitted with a fan unit powered by a 240v flat cable running along the catenary. These cables were secured by a series of bespoke runners, allowing each to be retracted and festooned as required by the position of the boulders.



City in the Sky

Our scenic package also included two inflatable tree trunks that appeared to grow from within the stage floor, rising to meet a 'city in the sky' representing modern-day Singapore. The steady, slow appearance of growth was achieved using a system of internal wiring and tethers, gradually releasing as the skin of the trunks was filled with air from fans housed beneath the stage. We engineered drop and slide traps in the stage floor through which the trunks emerged.



Projection mapping was used to great effect in this section of the show, our system delivering the exact control and precision required, maintaining the flow of accurate positional data between the projection team's system and our aerial automation system.

