

# Mega-scale main steel truss arrives at Kai Tak Sports Park (with photos)

The first large-scale prefabricated segment of the roof structure for the Main Stadium of the Kai Tak Sports Park was shipped from Zhongshan in Guangdong to Hong Kong this morning (September 13). This signifies that the Kai Tak Sports Park project will enter a new stage of construction.

The Main Stadium of the Kai Tak Sports Park can accommodate 50 000 spectators. Its roof is mainly supported by four sets of main steel trusses with spans ranging from 150 metres to 180m. Construction of the Main Stadium is a mega-scale building project in Hong Kong. The four sets of main steel trusses are divided into two to five segments each for ease of transportation for subsequent assembly at the Kai Tak Sports Park site.

The main steel truss comprises many large steel circular hollow sections, with the diameter of the largest section being up to 1.6m. Advanced technologies such as building information modelling (BIM) and design for manufacture and assembly, together with computer-controlled welding machines, are used in the prefabrication process to enhance the quality of work and speed up production. In addition, the project team has also used BIM for design visualisation so as to facilitate the enhancement of the design and construction processes.

The Kai Tak Sports Park will occupy 28 hectares of land. It will be the largest piece of sports infrastructure in Hong Kong, providing modern and multipurpose facilities for sports and recreation with a view to enhancing the sports culture in Hong Kong. "Pearl of the Orient" has been adopted for the facade design theme of the Sports Park's Main Stadium. The Main Stadium's retractable roof and flexible design will enable organisation of a variety of events of different scales, including international football and rugby matches, concerts and large community events. The Sports Park is scheduled for completion in the second half of 2023.



