QINGHE TRAIN STATION
A STATION FOR
THE 2022 BEIJING
WINTER OLYMPICS
TRAIN STATIONS FOR THE 2022 BEIJING WINTER OLYMPICS

QINGHE TRAIN STATION
Qinghe Train Station constitutes a major interchange hub on the high-speed rail line connecting Beijing to Zhangjiakou. The line has been designed to support the organisation of the 2022 Winter Olympics, but forms also part of the transport scheme for the huge megalopolis of Jing Jin Ji, which encompasses Beijing, the province of Hebei and Tianjin.

Qinghe Train Station is located in the north-east of Beijing, at the edge of the fifth ring road, where once stood one of the stations of the first rail line designed, built and funded by the Chinese to connect Beijing to Zhangjiakou over a century ago.

The immediate environment of the project is complex as the existing rail tracks and the metro and motorway viaducts fragment the city.

The project is designed to fit the environment in the best way and meets the challenges of accessibility, intermodality, fluidity, safety, image and urban development.

Commuter cross flows are separated, as it is always the case in Chinese stations of similar scale.

The station consists of nine rail tracks and four platforms at ground level. The departure hall spans the tracks and opens up to the west towards Xishan mountain with the viaducts of the motorway and of metro line 13, which connects Dongzhimen to Xizhimen, in the foreground. It faces the residential area to the east, while drop-off points are located on the north, above the platforms. Waiting areas, services and access to the departure platforms stretch over 22,000 sqm. Two mezzanine levels on the north and south sides of the station host calmer spaces accommodating food and beverage outlets and allowing users to dwell on the station in comfort.

Travellers arriving by train can access the transfer area directly from the platforms. It lies under the rail tracks and above the platforms of the two underground metro lines, and provides comfortable connections to all public and private transport means as well as to the surrounding neighbourhoods.

A large, 220-metre long and 130-metre wide, copper-coloured metal sheet roof covers the station building. Its curved form opens up the façades to the city. The west floor-to-ceiling glass façade opens up onto a large pedestrian plaza which extends beneath the viaducts and commands sweeping views of Xishan mountain. The east glass façade sits on a stone podium which faces the residential district.

The geometry of the structure is simple and applies easy to implement and cost-effective structural principles. The structure is composed of eight transversal ribs with a 25-metre space between them. They are supported by angled bents that are held firmly together on top and mark out the side halls at the foot of the building.

Total station surface: 109,000 sqm
Surface of the passenger halls: 49,000 sqm
Studies: 2016-2017
Opening: 2019
Client: CRC - China Railways Corporation
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