

Robinson Bridge (Hungary)



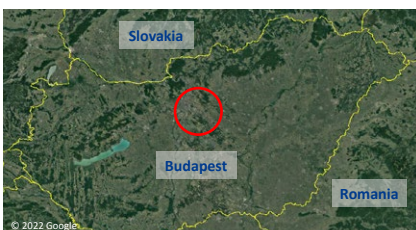
Project description

The new National Athletics Centre, located in central Budapest on the north side of the Csepel Island, is expected to host the 2023 World Athletics Championships.

The Robinson Bridge is an important link of the complex, which will ensure that competitors can quickly get to the stadium from the warm-up tracks on the other side of the Ráckeve branch of the Danube river, during the World Athletics Championships. After the Championship is finished, the bridge will be converted to a mixed use pedestrian/cycle crossing.

The structure has a single pylon cable-stayed design, measuring 168 m in length and has a deck width of 7 m. Its single pylon measures 65 m in height. In order to increase the bridge's load capacity, the engineers used a so called "hybrid design" where the single pylon of the structure and parts of the main girder are concreted.

The bridge is located in the capital of Hungary, Budapest, on the left bank of the Danube



mageba scope

mageba was commissioned to design and supply spherical bearings for this structure.

In total, 6 RESTON®SPHERICAL bearings were produced, of which three have an "Uplift" design.

The vertical load capacities of the supplied bearings are ranging from 632 kN to 7,907 kN.

After the production of the bearings at mageba's Hungarian production facility, the products were shipped to site and installed during the summer of 2022.

Highlights & Facts

mageba Products:

Type: RESTON®SPHERICAL bearings
Installation: 2022

Structure:

City: Budapest
Country: Hungary
Type: Pedestrian bridge
Built: 2021–2022
Length: 168 m
Owner: City of Budapest
Contractor: Hídépítő Zrt.
Architect: Speciálterv Építőmérnöki Kft.

A RESTON®SPHERICAL bearing during installation



RESTON®SPHERICAL bearing in its final position

