

Southern Railway Bridge (Hungary)



Project description

The Southern Railway Bridge, located in Budapest carries the busiest railway lines of the Hungarian capital, on which the majority of the country's railway traffic passes.

The structure is located right next to the Rákóczi Bridge and was built in 1948 and 1953 in two phases, originally with two railway tracks and with a length of 477 m.

During the construction works, the superstructures of the old bridges were demolished, and the components of the new structures were placed on the original pillars, which had to be readjusted in order to accommodate the new bridge sections.

In addition, a third railway bridge has been also added to meet the demands of the increased railway traffic.

mageba scope

The new structures were equipped with 42 RESTON®SPHERICAL bearings (14 units per track), which all have an "upside-down" design and feature pressure sensors.

Displacement sensors were also installed near the new bearings, which measure the longitudinal and transversal movements of those.

In addition to these, each bearing was equipped with force measuring sensors. mageba not only designed and produced the bearings, but it was also tasked with their complete installation.

Highlights & Facts

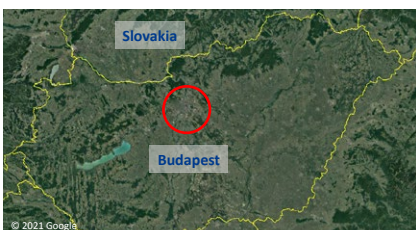
mageba Products:

Type:	RESTON®SPHERICAL bearings
Feature:	ROBO®SMART for structural bearings Pressure, displacement and force measuring sensors
Installation:	2020–2021

Structure:

City:	Budapest
Country:	Hungary
Type:	Railway bridge
Length:	477 m
Built:	1958
Owner:	Nemzeti Infrastruktúra Fejlesztő Zrt.
Contractor:	Duna Aszfalt Kft.

The bridge is located in the capital of Hungary, Budapest



RESTON®SPHERICAL bearings after assembly in the Hungarian factory



Installation of a displacement measuring sensor close to one of the bearings

