

Gordie Howe International Bridge (USA)



Project description

The new six-lane Gordie Howe International Bridge will connect the city of Detroit (USA) and Windsor (Canada).

The bridge is named after the legendary hockey player Gordie Howe, and beyond accommodating six lanes for traffic it also has a dedicated path for pedestrians and cyclists.

Not only will the project deliver much-needed transportation improvements for international travellers, it will also provide jobs and opportunities for growth to the Windsor-Detroit region.

With its length measuring 2.5 km, it will be the longest cable stayed bridge in North America upon its completion.

mageba scope

mageba has been selected to design and supply 4 RESTON®SPHERICAL bearings, two in the main bridge's USA side, two in the main bridge's Canada side.

The two bearings for the Canadian side were designed for 28,257 kN ULS and 21,274 kN SLS, with SLS movements of 705 mm, while the bearings installed in the US side of the bridge were designed for 26,935 kN ULS and 20,320 kN SLS, with SLS movements of 254 mm.

The main span bearings were designed with height adjustment shims, which allows to gradually lower the bridge deck during the construction stage, until all of the shims are removed allowing the fixing of the bearings for the final condition during the service life of the bridge.

Highlights & Facts

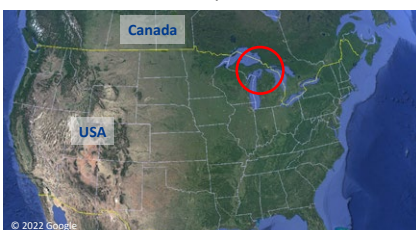
mageba products:

Type:	RESTON®SPHERICAL bearings
Installation:	2022

Structure:

City:	Detroit, MI
Country:	USA
Type:	Cable-stayed bridge
Length:	2.5 km
Owner:	Windsor-Detroit Bridge Authority
Contractor:	Bridging North America
Designer:	AECOM

The bridge will connect the city of Detroit in the USA with the Canadian city of Windsor



Lower parts of RESTON®SPHERICAL bearings before placing the curved calottes and flat sliding plates on top



A RESTON®SPHERICAL bearing installed to support the superstructure of the bridge

