# New Champlain Bridge (Canada)

## Project description

The Champlain Bridge is located in Montreal, Canada, and will be replaced by the new bridge over the St. Lawrence River. This crossing will be one of the busiest in Canada with over 60 million vehicles and $20 Billion in international trade passing over it on a yearly basis.

The $4.2 billion project will consist of two main bridges – the New Bridge on the St-Lawrence and the Île-des-Soeurs Bridge and is scheduled for completion in December 2018.

## mageba scope

mageba will be providing Structural Health Monitoring Service and Modular Joints for this iconic bridge.

Over the project duration, over 50 embedded and 150 surface sensors will be installed on the bridge, allowing the Government of Canada to monitor displacement, corrosion, movements, temperature, stresses, strain and environmental conditions of the bridge over the next 30 years.

This will most certainly optimize maintenance and increase the lifespan of the structure. Moreover, the ingenious system provides the ability to re-act instantly to changes and deterioration.

In parallel, the largest expansion supplied will span over 20 meters and cover upwards of 800 mm in movements (10 gaps).

## Highlights & Facts

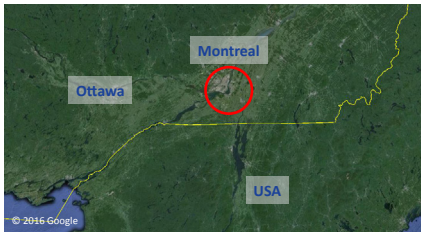
**mageba products:**

| | |
|---|---|
| Type: | ROBO®CONTROL permanent Monitoring System |
| | TENSA®MODULAR expansion joints types LR8, LR9 & LR10 |
| Features: | approx. 200 sensors |
| Installation: | 2016–2018 |

**Structure:**

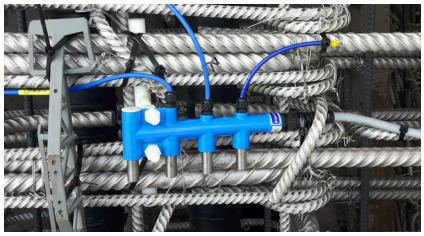
| | |
|---|---|
| City: | Montreal |
| Country: | Canada |
| Type: | Cable-stayed bridge |
| Completed: | Scheduled for 2018 |
| Owner: | Infrastructure Canada |
| Contractor: | SNC Lavalin, Dragados, Flatiron Canada, TY Lin, MMM Group Preliminary |
| Design: | Arup |

The new bridge is located in Montreal, Canada, and is part of the government's extensive corridor project




Erection of the cable stay bridge

Corrosion Sensor installed on the pier starter reinforcement




mageba International - 575 Lexington Avenue, 4th Floor - New York, NY 10022 - T 212-317-1991 - info@mageba.net