Grande Chaloupe Bridge (La Réunion)

Project description

The French island of La Réunion in the Indian Ocean, east of Madagascar and southern Africa, is 63 km long and 45 km wide. It is located above a hotspot in the Earth's crust, and experiences frequent volcanic activity. With much of the island mountainous, rocky and largely unpassable, a long section of one of its most important roads has been constructed right at the water's edge. Where this road crosses a sea inlet, a five-span bridge had to be constructed, designed to suit its location in this volcanically active region.

mageba scope

RESTON®POT HP LIFT bearings were selected to support the bridge's deck, meeting its particularly challenging demands. With very large loads of up to 52,400 kN to be carried while allowing sliding movements of up to 320 mm, the application of the HP (high performance) design to the RESTON®POT bearings greatly increased their strength, reducing their size and improving constructability. And the bearings' LIFT feature enables the deck to be lifted by simple injection, offering a quick and easy solution to future ground settlements.

Highlights & facts

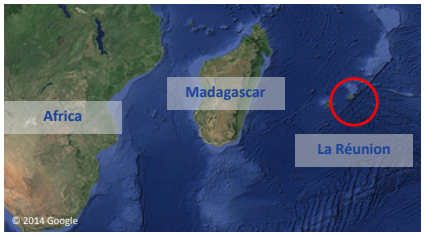
mageba products:

Product:	RESTON®POT HP LIFT bearings
Features:	HP (high performance) design greatly increases bearing strength, and bearings can be injected to lift the bridge's deck
Installation:	2015

Structure:

City:	La Réunion
Completed:	2015
Type:	Highway bridge
Length:	240 m

The bridge is located on the island of La Réunion, in the Indian Ocean.



The bridge in question crosses a sea inlet on an important highway's route around the island.

RESTON®POT LIFT bearings can be injected to lift a bridge deck following ground settlement.

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