810 Rail Link Station Roof (Hong Kong)

Project description

The West Kowloon Terminus (WKT) is an underground railway terminus which is part of a large scale transport infrastructure project that will provide high-speed, cross-boundary rail services between the major cities of Mainland China and Hong Kong.

The structure is formed from three geometrically complex lattice trusses supported at only nine locations by 30 meters high curved steel columns.

The state-of-the-art terminus will integrate sustainable features maximizing the use of natural daylight and create a green cultural plaza for the public with substantial green plants and vegetation on top of the terminus roof.

mageba scope

In 2015, mageba installed RESTON®POT HP (High Performance) bearings for the West Kowloon Terminus.

These high performance bearings have been selected in order to ensure the controlled transfer of loads between the structure's complicated roof structure and its substructure. They also accommodate rotations about any axis and – where appropriate – movements of the superstructure, and also can be subjected to low or high loading and frequent movements and rotations.

Some bearings are also equipped with load measuring cells and are specially designed to be prestressed by injection possibility in order to overcome future loads and movements during replacement.

Highlights & Facts

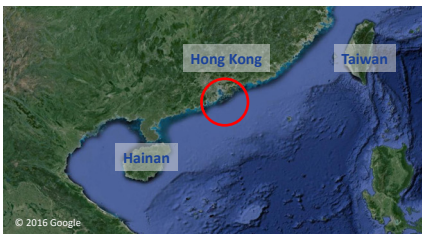
mageba products:

Type:	RESTON®POT HP bearings
Features:	Combination of ROBO®CONTROL monitoring and height-adjustment system (injection)
Installation:	2015

Structure:

City:	Hong Kong
Country:	China
Completed:	2017/2018
Type:	Terminus of Express Rail link
Owner:	MTR Corporation Hong Kong
Architect:	Aedas

The West Kowloon Terminus is located in Hong Kong



Vertically installed guided bearings

Vertically installed free sliding bearings

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