

# The Hong Kong Link Road of Hong Kong – Zhuhai – Macao Bridge (Hong Kong)



## Project description

The Hong Kong Link Road is a 12 km dual 3-lane carriageway bridge, connecting the Hong Kong – Zhuhai – Macao Main Bridge (HZMB) at the Hong Kong Special Administrative Region (HKSAR) boundary with the Hong Kong Boundary Crossing Facilities (HKBCF).

The HKLR comprises a 9.4 km long viaduct section from the HKSAR boundary to Scenic Hill on the Airport Island; a 1 km tunnel section to the reclamation formed along the east coast of the Airport Island and a 1.6 km long at-grade road section on the reclamation connecting to the HKBCF.

## mageba scope

mageba is supplying 208 earthquake bearings RESTON®SPHERICAL for vertical loads of up to 94,700 kN and high horizontal loads at the same time, while allowing large movements. The bearings have a special fuse system that was specially developed for the first ever seismic design requirement in Hong Kong.

mageba also provided 4 expansion joints of type TENSA®MODULAR LR8-LS and 37 TENSA®FINGER RSFD expansion joints. Modular expansion joints allow movements and rotations in any direction and assure a smooth driving comfort.

## Highlights & facts

### mageba Products:

Type:	RESTON®SPHERICAL earthquake bearings, TENSA®FINGER RSFD expansion joints, TENSA®MODULAR expansion joints LR8-LS
Features:	Earthquake fuse system for bearings at ULS earthquake event
Installation:	2014–2017

### Structure:

City:	Hong Kong
Country:	China
Type:	Long viaduct section
Length:	12 km
Contractor:	Dragages – China Harbour – VSL Joint Venture
Engineer:	Ove Arup & Partners Hong Kong Ltd.

Location HKLR of the Hong Kong – Zhuhai – Macao Bridge (HZMB), Hong Kong



An installed RESTON®SPHERICAL bearing



One of the TENSA®FINGER RSFD joints after installation

