

# Kriváň Highway (Slovakia)



## Project description

Slovakia's new R2 highway is currently being constructed, all the way from Trenčín in the north-west to Košice in the south-east. The construction of the highway is proceeding in stages with the current section between Mýtina and Tomášovce, which is 13.5 km-long. It is planned to be completed in late 2022 and costs approximately EUR 127 million.

This new stretch of the highway includes eleven new bridges, which from two have a length of over 500 m.

## mageba scope

The bearings and expansion joints required for the construction of the structures on this stretch of the highway included 104 RESTON®POT bearings, which are designed for loads of up to 14,500 kN and movements of up to +/- 245 mm, 14 TENSA®FINGER RSFD cantilever finger joints, which can accommodate longitudinal movements of up to 400 mm, and 18 TENSA®GRIP RS-LS single gap joints with noise-reducing surfacing.

The design of the bearings, involved the application of some interesting features. Some had to be designed to facilitate height adjustment, while the unidirectional bearings supporting the curved superstructure of the second longest bridge (a 13-span structure with a length of 548 m) also had to be adapted with respect to the direction of the uniaxial movement they accommodate. These bearings thus required to be designed with two sliding interfaces.

## Highlights & facts

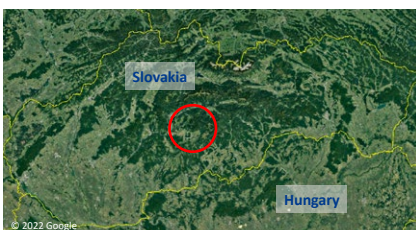
### mageba products:

Type:	RESTON®POT bearings TENSA®FINGER RSFD and TENSA®GRIP RS-LS joints
Feature:	Single gap joints feature noise-reducing surfacing
Installation:	2021–2022

### Structure:

Country:	Slovakia
Region:	Central Slovakia
Type:	Highway bridges
Owner:	Národná diaľničná spoločnosť, a. s.
Contractor:	Association (consortium) of Metrostav a.s., HOCHTIEF SK s.r.o., HOCHTIEF CZ a.s
Owner:	Národná diaľničná spoločnosť, a. s.

The Mýtina-Tomášovce section of the R1 highway is located north-west to Košice in Slovakia



An installed TENSA®GRIP RS-LS joint with noise-reducing surfacing



A TENSA®FINGER RSFD joint in its recess

