

# MKAD - Profsoyuznaya Int. (Russia)



## Project description

The MKAD (Moscow Ring Road) Street (converting into A-130 highway heading towards Kaluga) is a part of the strategic upgrade of Moscow Infrastructure by the government of Moscow City.

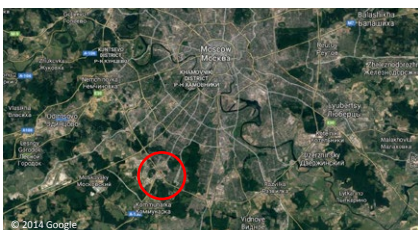
Finished in 2017, this interchange upgrade saw widening of the Kaluga Highway to 4 lanes, reconstruction of MKAD KM39-KM42, 1 tunnel (970 m), 2 turning and 2 through-put new overpasses.

The construction works took place in confined conditions, with several stages of traffic re-routing, in under 2 years.

Overpass superstructures were assembled in-place on-site, and transfer the loads through quite compact spherical bearings into slender columns.

This project forms another important transport knot for modern Moscow infrastructure.

A strategic new interchange on the crossing of Moscow Ring Road and Profsoyuznaya Str. - exit towards Kaluga



## mageba scope

Early in the project mageba teamed up with the designer of the turning overpass sections, and made timely and optimised design of spherical bearings RESTON®SPHERICAL, including 1 bearing with uplift claws - forces induced by the special geometry of the overpass.

Expansion joints - in order to follow the decree of the Mayor of Moscow to provide low-noise expansion joints for urban areas - were chosen to be the TENSA®GRIP RS-LS with sinus plates. In addition to that, asphalt-strengthening ribs ROBO®DUR were also used to strengthen the asphalt in the joint area and provide durable, comfortable driving experience for all drivers to go through the newly built structures.

RESTON®SPHERICAL bearings support the horseshoe-shaped turning overpass



## Highlights & facts

### mageba products:

Product:	RESTON®SPHERICAL bearings (incl. uplift); TENSA®GRIP RS-LS100 expansion joints with sinus plates; ROBO®DUR asphalt strengthening ribs
Feature:	Bearings with uplift, noise-reducing joints and strengthened asphalt
Installation:	2017

### Structure:

Location:	Moscow
Country:	Russia
Type:	Overpasses
Main span:	77 m
Length:	305 m
Completion:	2017
Owner:	Moscow City
Contractor:	ARKS
Engineer:	MosEngProekt/KSP/MTM

TENSA®GRIP RS-LS sinus-plated joints lower noise emissions, approaches strengthened by ROBO®DUR asphalt ribs

