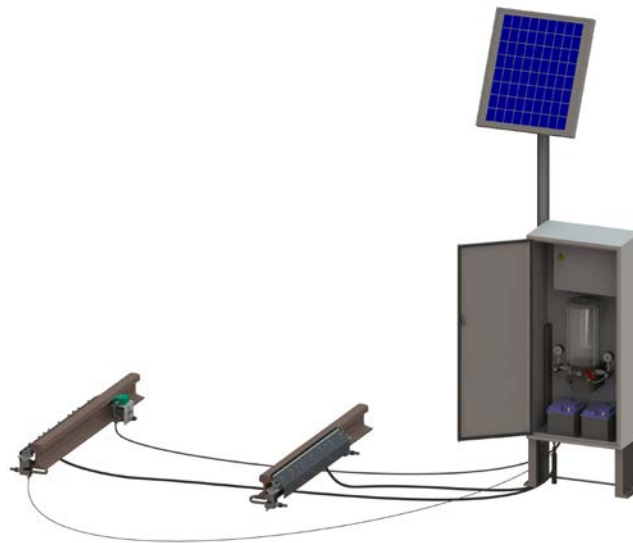


# STATIONARY TRACK LUBRICATION MKH-01 (TOR)



- ✓ COMPACT EXECUTION, REMOTE CONTROLLABLE
- ✓ EASY INSTALLATION, FOR TOP OF RAIL INSTALLATION

## Description

The MKH-01 technology is used for top of rail lubrication. This execution is intended for stationary use to control adhesion locally at a given point of the track, i.e. off-board system. The system is primarily design to reduce noise level of railroad section with high acoustic emission. At the same time, it significantly decreases the wear of rails, leading to extended frequencies of down-time caused by their replacement. A friction modifier is used as lubrication medium, which is different from standard lubricants by the fact that it contains solid components of generally soft metals. These additives provide friction between wheel and rail, avoiding the loss of traction and braking capabilities of trams. The lubricator consists of application strips, vehicle-presence sensors and protective cabinets in which a high-pressure pump is located, a control unit with a diagnosis of the system operating status, and, in the

case of a solar panel power supply, also the accumulators. The lubricant is automatically applied by the application strip on the top travel area, i.e. the top of rail. The system is adjustable to meet requirements of specific traffic corridors. The entire lubrication process is activated by the vehicle-presence sensor. The vehicle sensor detects individual passing vehicles axles and send signals to the programmable control unit that controls the lubrication device. Lubrication mode of the control unit can be easily changed and optimized even during regular device operation. The system can be equipped with remote control, including GSM module enabling operatively provide information of system status, and send error report by the means of SMS directly to user mobile phone. System power supply is possible from electrical network or solar panel.

## Technical parameters

Working pressure .....250 bar  
 Friction modifier tank volume ..... 8 litres  
 Nominal voltage ..... 24 V DC and others  
 Friction modifier dose .....from 0 to 3,8 cm<sup>3</sup>/min

Viscosity class NLGI..... from NLGI 0 to NLGI 2  
 Protection .....IP 65  
 Working temperature.....- 30 to + 60 °C  
 Weight ..... approx. 90 kg, accord.to execution

## Benefits

- Easy installation and removal of application strips without needing to drill hoses into rails, for different type of vignole rails.
- Buried cabinet execution with easy installation, optionally vandal-proof protective cabinets.
- Possibility to regulate the nominal dose of lubricant in a large range, multiple track applications at the same time.
- Exact detection of passing vehicles and electrical check of lubricant dosing.
- Power supplied by solar panels in areas without available electrical network or a 230 V AC and 600 V DC power supply (tram execution).
- Programmable control unit for easy and exact user-modifications of lubrication parameters.