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EKOS® TheFuture

EKOS® Roller Systems

The EKOS® roller switching systems enable lubrication free sliding of the switch blades during switch movements.

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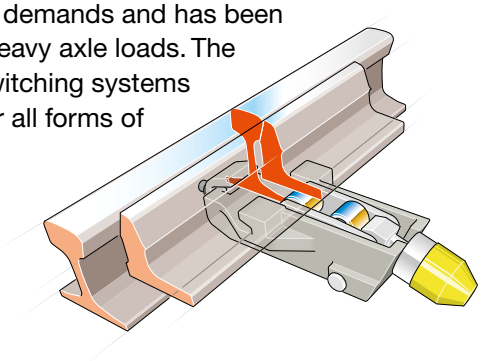
Reduced Switch Maintenance

The EKOS® roller switching systems enable lubrication free sliding of the switch blades during switch movements. A durable, reliable and robust roller system completely eliminates the need to lubricate switch slide plates while simultaneously reducing switch operating forces. The advantages of this system have already won over a significant number of national and international customers.

The EKOS® components can be quickly installed into existing and new points without having to interfere with the construction of the points themselves – it is even possible to complete part of the installation during normal track operation.

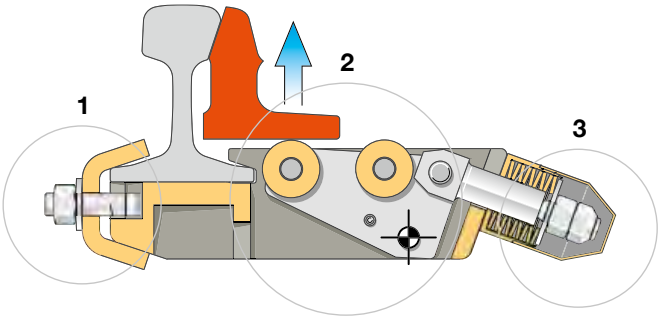
Solutions for all profiles

The first EKOS® was developed in 1993 and since then has been continually improved and developed so that today we are able to speak of a system that fulfils our customers' demands and has been proven under heavy axle loads. The EKOS® roller switching systems are available for all forms of rail profile.



Advantages

- High availability of the points through reliable and smooth switch movements
- Protection of the switch drives due to reduced switching forces
- Environmentally friendly, since lubrication is no longer necessary
- Quick and easy installation due to clamping mechanism
- Reduction in the life cycle costs due to reduced maintenance needs
- Short payback periods

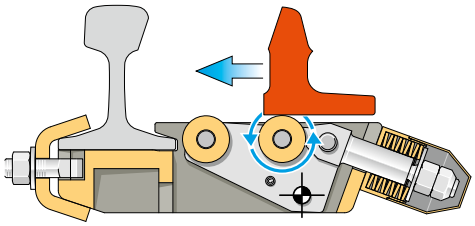


1. Clamping device for securing to the rails
2. Bearing block with perforated plates, rollers and retaining screw
3. Tensioning device with spring assembly, force and travel limitor

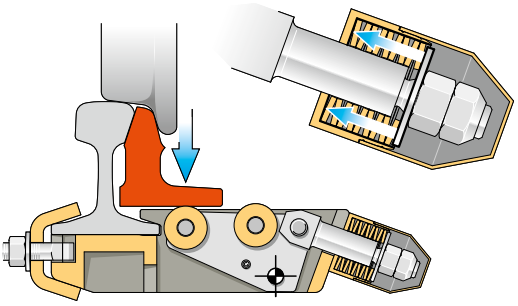
3 Reasons to choose EKOS®

1. Robust construction (approx. 20 kg) from individually tested components
2. The open housing prevents jamming and blocking by allowing dirt and foreign objects to fall through
3. Easy assembly with clamping mechanism

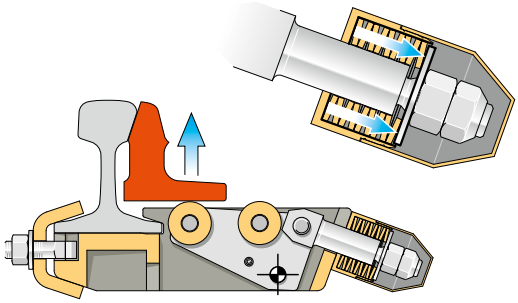
The Function



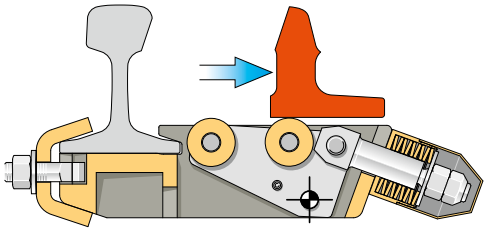
During the switch movements, the switch blade moves evenly over the rollers – without contacting the slide plates.



The passing wheel presses the switch blade down. The spring mechanism acts as an energy storage device.



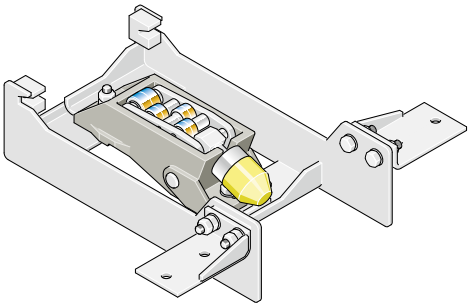
The spring mechanism raises the switch blade back to the starting height.



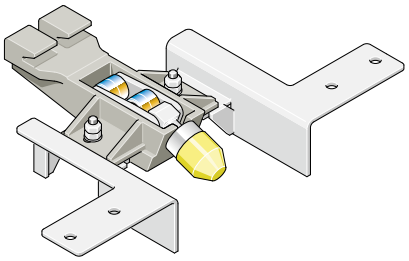
The switch blade is always positioned on the rollers, which are adjusted to the right height by the spring force.

The EKOS® product family is available in different variations for all types of rail profile

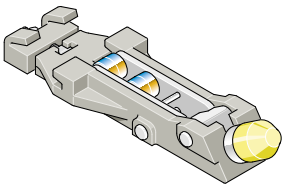
Here are a few examples



This EKOS® variant has been designed for use in AREA points with a narrow switch blade foot. This EKOS® solution is characterised by a particularly tight arrangement of the rollers, which ensures that the narrow switch blade foot lays on the rollers at all times. The mounting system ensures that everything is held securely and reliably in place.

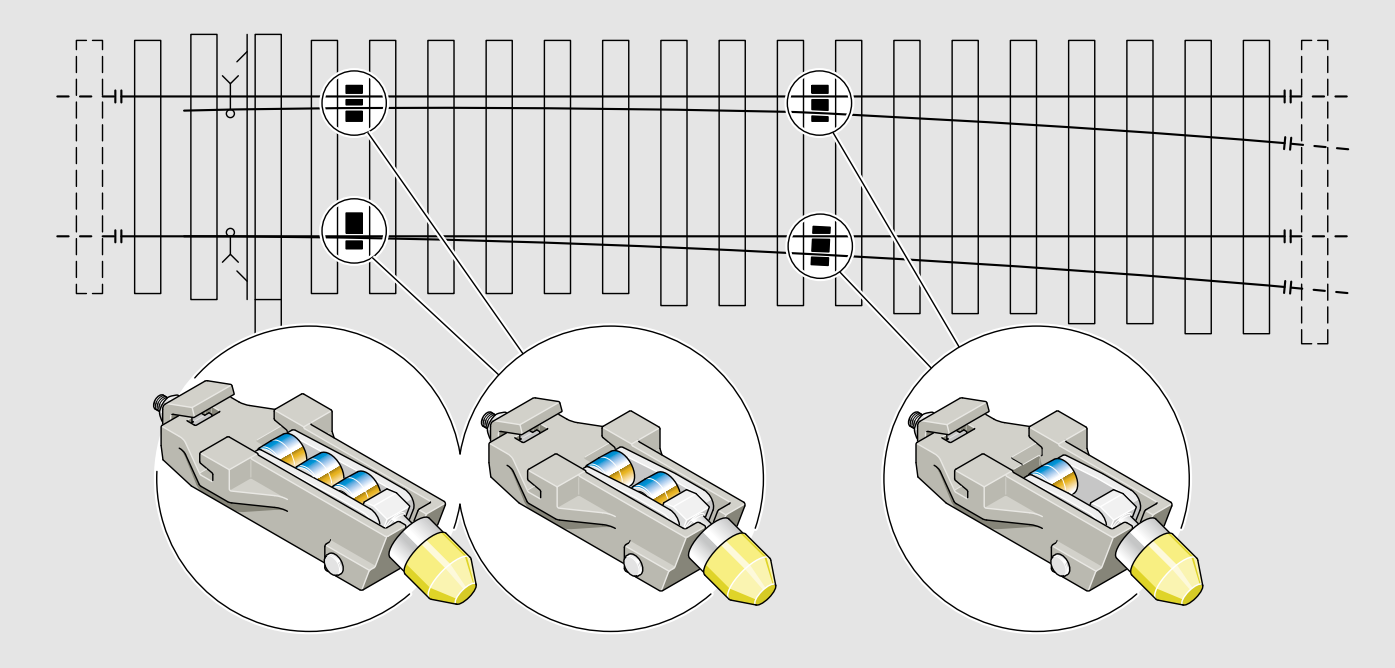


This EKOS® variant has been developed for use in points with full depth rail switch blades. The fixings are adapted to fit the turnout type. EKOS® is positioned in the centre of the space between the sleepers where it is screwed to the sides of the adjoining sleepers and clamped to the stock rail.



This EKOS® variant has been designed for use in points with a slab track superstructure. It is characterised by its extremely flat construction.

Arrangement in the points



EKOS® is installed as a system consisting of 2 or 3 sets of rollers depending on the size of the turnout. Large turnouts requiring more than 3 sets of rollers can also be accommodated. On request we can determine the exact arrangement to suit individual turnouts.

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