

# IN FAVOUR OF TENSOREX C+

# RAILWAY



**TENSOREX C+  
is significantly more  
compact than conventional  
tensioning devices,  
and can be fitted in  
about an hour.**

**Modern railway tracks place extremely high demands on their tensioning systems.**

High-speed lines with numerous tunnels need tensioning devices that can be easily integrated into the tunnel geometry. There is a growing trend for urban transport systems to be aesthetically designed, requiring tensioning devices that blend inconspicuously into their environment. The overhead contact lines of railways are exposed to a variation in temperature - both from the day/night cycle and in the course of seasonal changes.

TENSOREX C+ by Mosdorfer Rail is an innovative solution on both types of application.

TENSOREX C+ is a spring based tensioning system for overhead lines on electric railways and tramways. It ensures that cables and wires remain at a constant height under tension. The necessary tensioning force is generated by the patented interaction between a spiral spring and a cam with variable radius - concrete and steel weights are not needed.

TENSOREX C+ is a maintenance free, economic system. Fast and easy installation - in about an hour - means lower personnel expenses and requires no additional expertise. This significantly reduces installation costs in comparison with conventional solutions.

## How it works



By means of a support cable, TENSOREX C+ exerts a constant tension on the contact wire, regardless of any changes in length due to temperature. The special spiral spring is firmly connected to two cams on the same shaft.

The degree of rotation of the shaft results in a linear variable torque/moment, which is compensated for by the combination with the variable radius of the cam. This produces a constant pulling force over the entire device working range.

## Benefits

- More compact and lighter than wheel tensioning systems
- High precision of response
- High level of safety
- Easy installation - lower installation costs
- Practically maintenance - free
- Virtually immune to vandalism
- Product training and familiarisation is available with Mosdorfer Rail
- There is a fixing bracket which Mosdorfer produces to support the Tensorex installation.

## TENSOREX C+ facts

- Units Sold: 35,000+ (Asia, Africa, Australia, Europe, North and South America)
- Compensating capability: 450 – 1500 mm
- Pulling force: 7.5 – 40kN