

# ENERGY

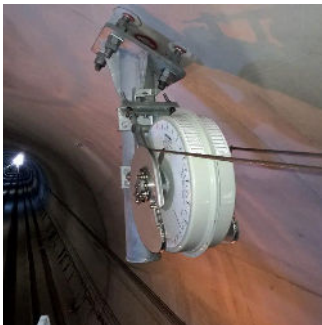
WE ENERGIZE  
THE WORLD

## TENSOREX C+

PATENTED SPRING  
TENSIONING SYSTEM



# IN FAVOUR OF TENSOREX C+



**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/pulley 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 force due to temperature. The special spiral spring is firmly connected to a shaft which are firmly connected both cams/pulleys.

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 pulley 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

Mosdorfer Upresa Rail S.A.U.  
C/Empordà 7, Polígono Industrial Congost  
08403 Granollers, Spain  
Phone +34 938 40 03 65  
[mosdorfer.upresa@mosdorfer.com](mailto:mosdorfer.upresa@mosdorfer.com)

Mosdorfer Rail Ltd.  
2–4 Orgreave Place, Orgreave, Sheffield S13 9LU, UK  
Phone +44 114 38 78 370  
[ordersrailuk@mosdorfer.com](mailto:ordersrailuk@mosdorfer.com)

Mosdorfer Rail S.r.l.  
Via Achille Grandi 46, 20017 Rho (MI), Italy  
Phone +39 02 64 08 81 42  
[inforail.it@mosdorfer.com](mailto:inforail.it@mosdorfer.com)