

# ENERGY

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## NEW GENERATION TENSOREX C+ 3D

PATENTED SPRING  
TENSIONING SYSTEM

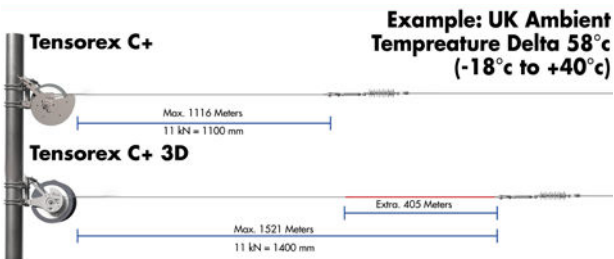


# INCREASED COMPENSATION CAPACITY

IN FAVOUR OF TENSOREX C+ 3D

RAIL  
WAY

## About Tensorex C+ 3D



Tensorex C+ 3D is a tensioning device designed to allow for an increased compensation capability in comparison to the standard Tensorex C+ range.

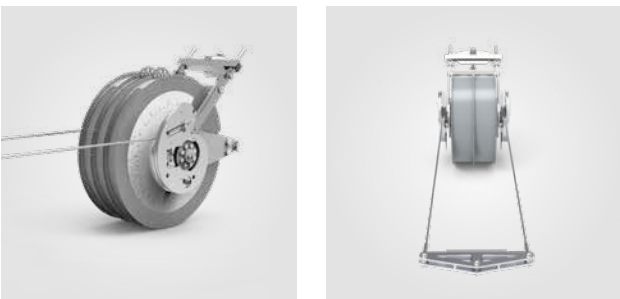
The Tensorex C+ 3D range is capable of upto 40 % additional compensation length in comparison to the existing range of Tensorex C+ devices, depending on the tension force required. For example, based on a 20 kN device the maximum tension length distance would increase from 1,078 m to 1,471 m, using a temperature delta of 60 °C.

### Benefits of a spring tensioning device

- More compact and lighter than an alternative tensioning systems
- High precision of response
- High level of safety
- Lower Installation costs
- Fast and simple installation
- Purely mechanical device – requires no additional power supply
- Upto 40 % additional compensation length (dependant on line tension)

Example: Based on UKMS design ambient temperature range 58 °C it will be possible to compensate up to 1,500 m tension length to anchor point, or for a greatly increased operating temperature range based on the existing tension length distances.

## Maintenance-free and cost-effective



Once in service, the Tensorex C+ system requires very little maintenance. Complicated and expensive repairs and or storage of many spare parts are now a thing of the past. In the event of a wire failure, the unit will be fully reusable.

The device is easily readable from trackside, with visual checks possible during regular scheduled OLE system maintenance.

### The new Tensorex C+ 3D range will consist of four product groups

Product group	Compensation value (mm)	Range of pull value (kg)	Weight (kg)	L (mm)
TRC+ 3D 2	1,200 to 1,300	1,000	200	270
TRC+ 3D 3	1,200 to 1,490	1,100 to 1,500	250	340
TRC+ 3D 4	1,165 to 1,345	2,000 to 2,250	300	410
TRC+ 3D 5	1,100 to 1,480	2,250 to 3,000	360	482

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