







**REVOLUTION IS NOW**



**PLATINUM**<sup>®</sup>  
BY TEUFELBERGER

**LONGER LIFE TIME**

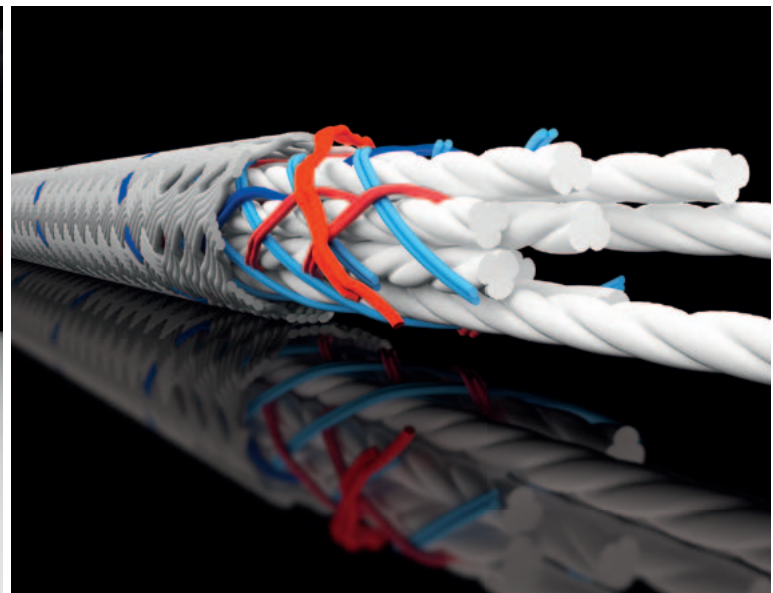
**MORE FLEXIBILITY**

**HIGHER SAFETY**

# PLATINUM® BY TEUFELBERGER - THE REVOLUTION IN ROPE TECHNOLOGY

The core/cover displacement in kernmantle ropes has been a problem since the day they were invented. Spurred by the ambition to solve this old problem, the research and development team of TEUFELBERGER, the Austrian specialist for ropes and strapping, started out in search of the key to success - and finally found it after many hours of meticulous development work.

PLATINUM® is the name of this new and innovative braiding technology. And the PLATINUM® rope construction has been submitted for patent by TEUFELBERGER. For the first time in the history of rope making the previously independent elements of a rope are merged into one unit. „With this technology we have created the basis for higher safety, a longer service life and better handling“, the managing director of the TEUFELBERGER Group Florian Teufelberger explained.



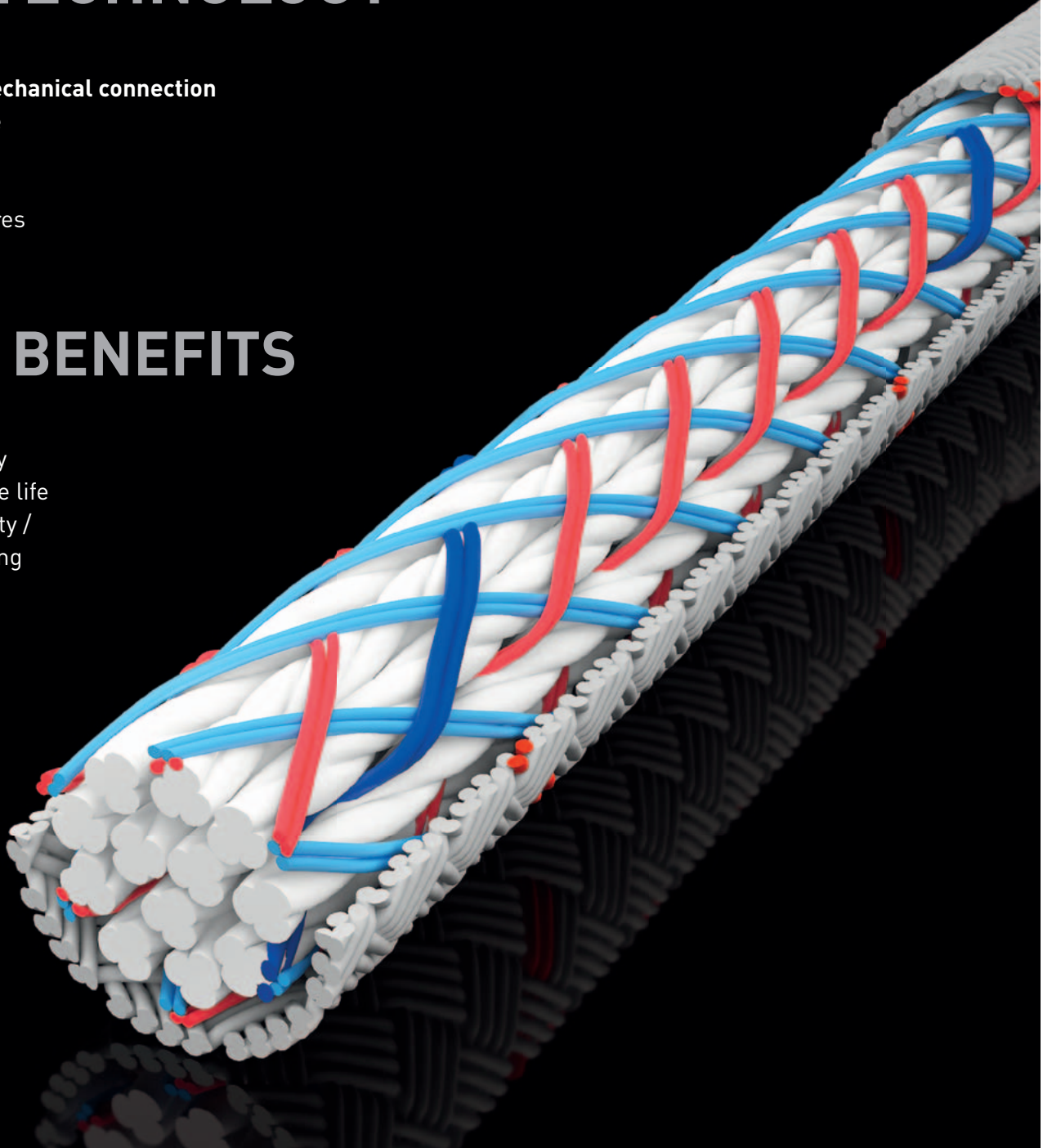
# OUR TECHNOLOGY

## Permanent mechanical connection

- between core and cover
- between individual cores

# YOUR BENEFITS

- greater safety
- longer service life
- more flexibility / better handling



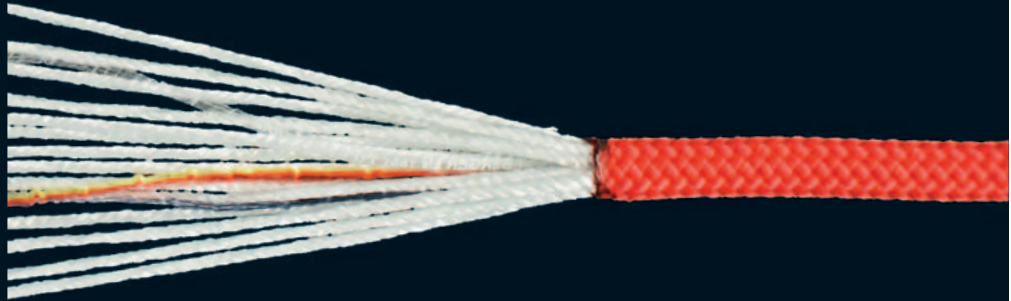
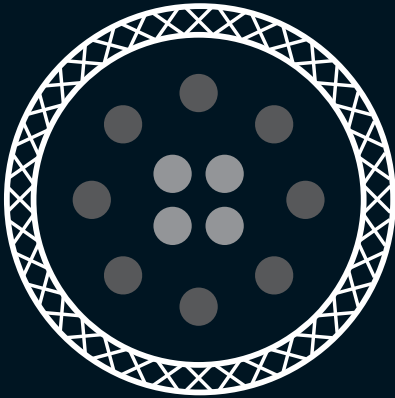
# ROPE STRUCTURE

## Conventional kernmantle ropes:

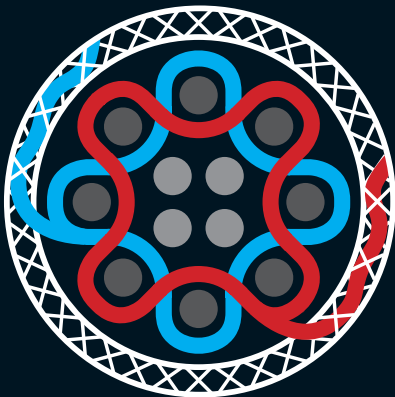
- the core carries the load, the cover protects the core
- no connection between cover and core
- no connection between the cores

## PLATINUM®

- Permanent mechanical connection between core and cover
- Cores are interconnected



conventional rope



PLATINUM®

# PLATINUM®

With the new and innovative PLATINUM® technology TEUFELBERGER succeeded in establishing a mechanical and durable connection between the core and the cover. Moreover, PLATINUM® interconnects parallel cores, thus relieving the particularly loaded outer yarns.

- first-ever permanent mechanical connection between the parallel cores and thus creation of a unit → patent pending
- the cores share the load and reinforce one another
- dimensionally stable and possibility of a defined geometry





# CRITICAL ISSUES ON CONVENTIONAL ROPES

## No connection between core and cover:

- the cover is prone to being pushed together on the core and will impair the use of climbing devices
- overloading will cause the cover to break
- rope ends may be lacking a core

PUSHING TOGETHER  
OF COVER ON CORE

OVERLOADING  
OF COVER

CORELESS  
END OF COVER



## CRITICAL SITUATIONS: PUSHING TOGETHER OF COVER ON CORE

### Conventional kernmantle ropes:

- A cover that has been pushed together on the core will impair the use of climbing devices
- Danger! Climbers are no longer able to rappel down by themselves

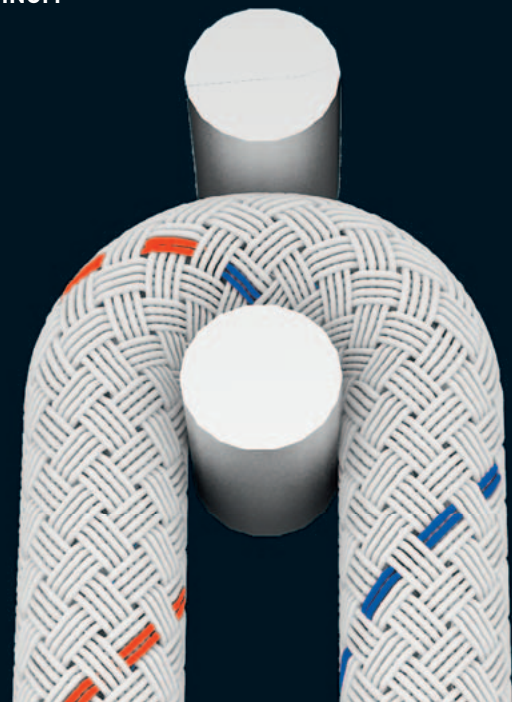
### Our Solution: PLATINUM®

It prevents the cover from being pushed together on the core → **greater safety**

conventional rope



PLATINUM®



## CRITICAL SITUATIONS: OVERLOADING

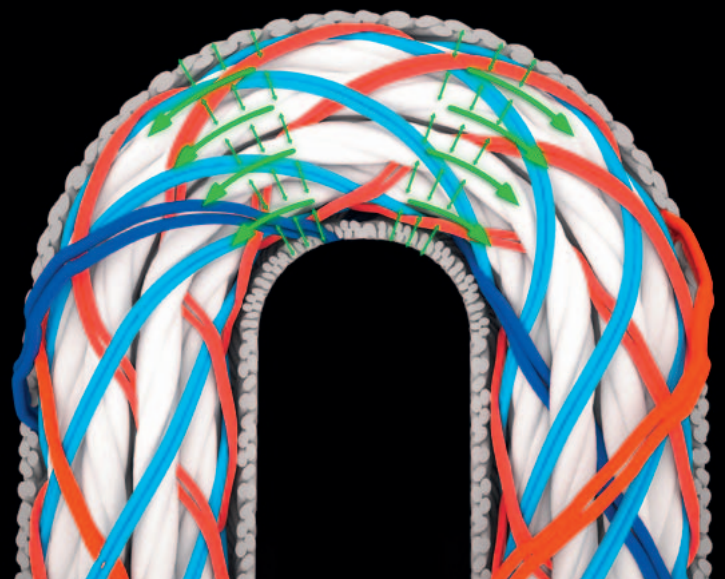
### FORCE TRANSFER PLATINUM®

It connects heavily loaded cores and thus eases the respective loads they are exposed to → **longer service life, increased safety**

conventional rope



PLATINUM®



## CRITICAL SITUATIONS: CORELESS END OF COVER

### Conventional kernmantle ropes:

- a surplus length of the cover results in a coreless rope section
- this may be extremely dangerous for inexperienced climbers
- due to the displacement of the cover → loss of flexibility

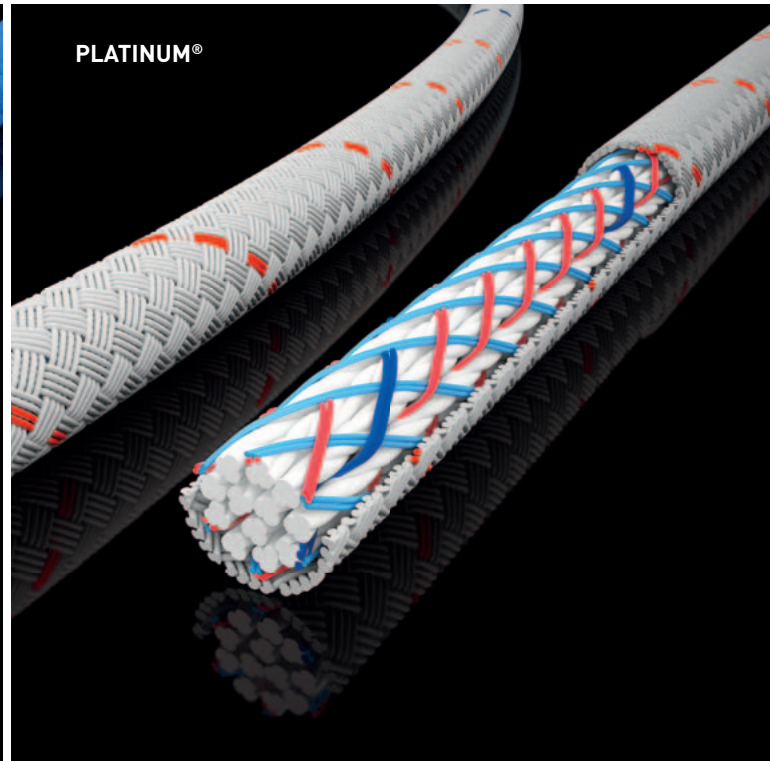
### Our Solution: PLATINUM®

It fully avoids displacement at the end of the rope → **greater safety and comfort**

conventional rope



PLATINUM®



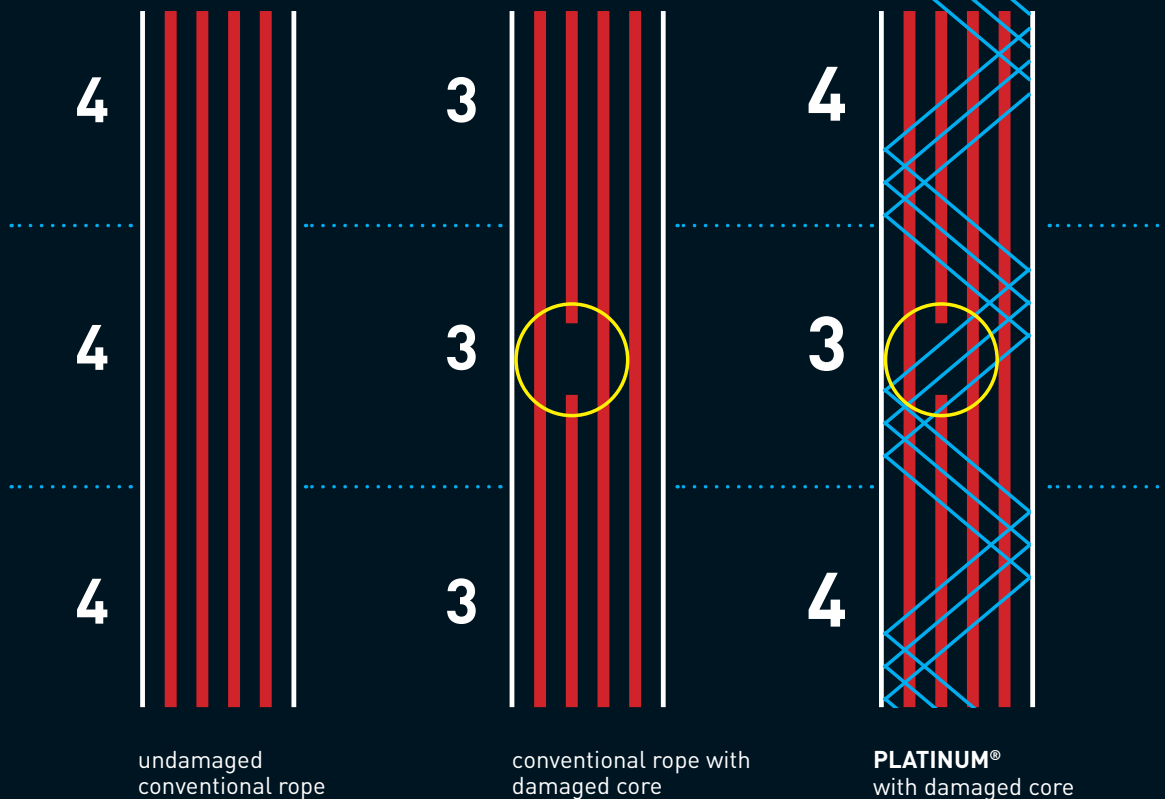
# LOCAL OVERLOADING

## Conventional kernmantle ropes:

- Localized damage in the core weakens the rope along its entire length

## PLATINUM®

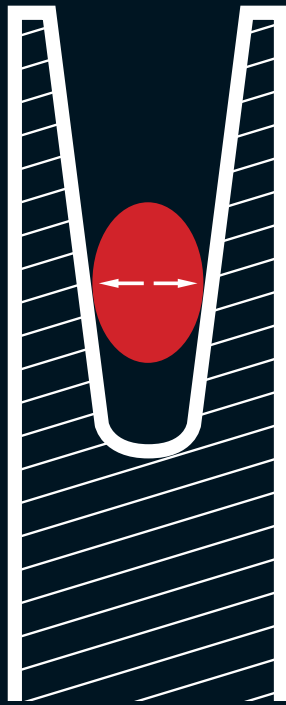
No displacement of the parallel cores:  
Damage will have an impact only on a locally confined area → **greater safety**



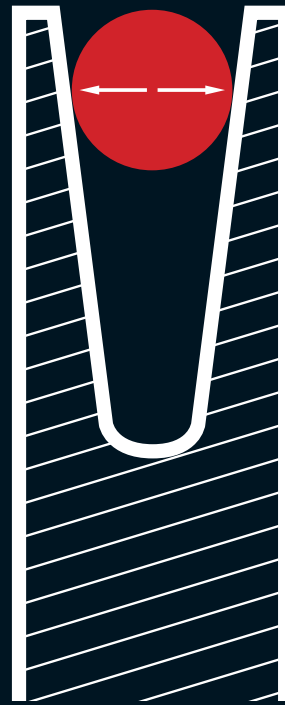
# PLATINUM<sup>®</sup>

## STABILITY TO LATERAL PRESSURE

- in sheaves, a high stability to lateral pressure is desirable
- thanks to its high level of compactness, PLATINUM<sup>®</sup> ensures excellent grip in sheaves
- increased grip → **increased service life**



conventional rope



PLATINUM<sup>®</sup>



**⚠ WARNING**

The use of our products can be dangerous. Our products may only be used for their intended purpose. They must particularly not be used for lifting as specified in EU directive 2006/42/EC. The customer is responsible that the user has been trained in the safe use of the product and in accompanying safety precautions. Be aware of the fact that the product can cause damage if wrongly used, stored, cleaned or overloaded. Check national safety regulations, industry recommendations and standards for local requirements.

Platinum® is a trademark of  
TEUFELBERGER GmbH.  
registered in many countries.





**PLATINUM**<sup>®</sup>  
BY TEUFELBERGER



**TOGETHER IN MOTION**



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