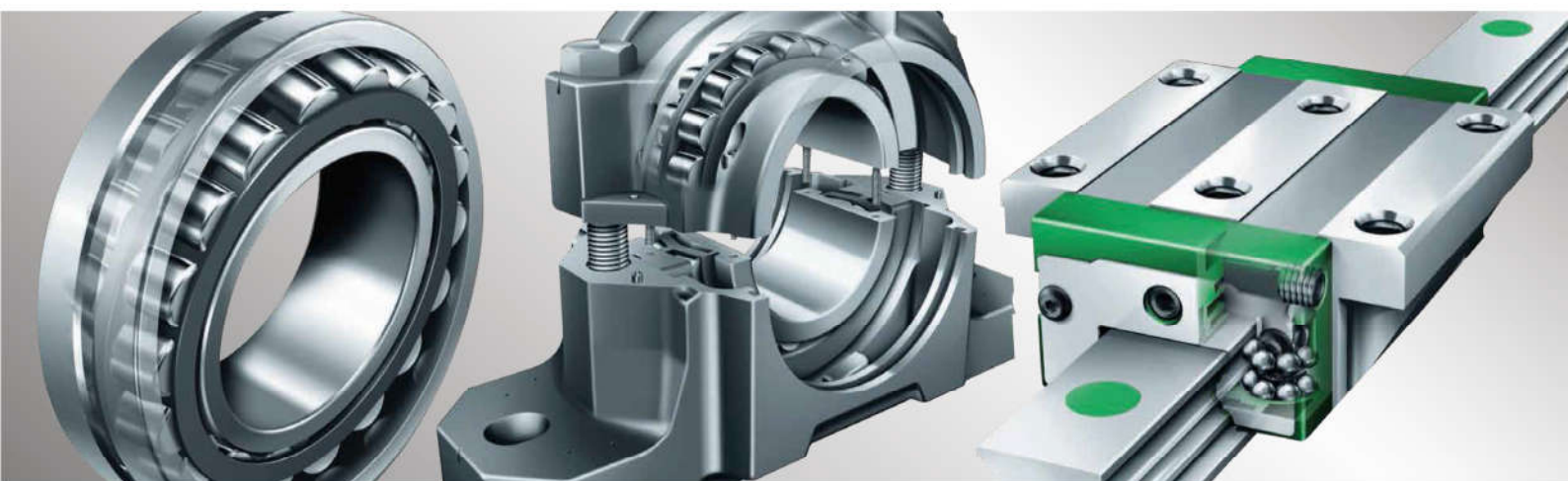
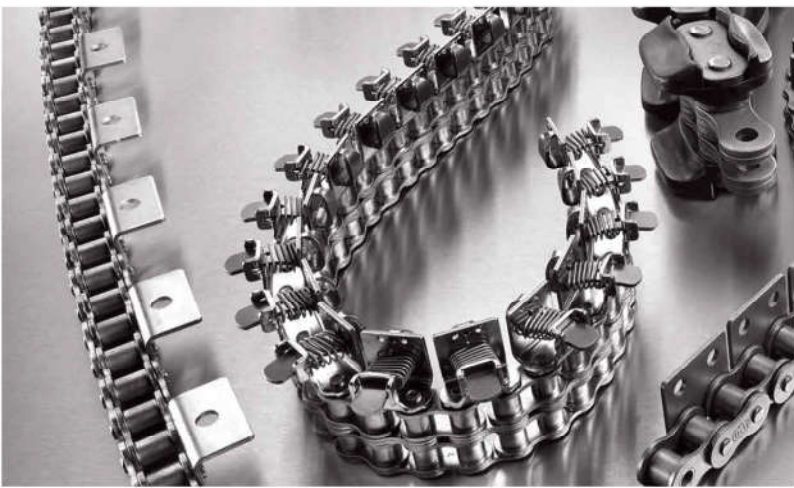




# optibelt TWIN TRACK Correia dentada para bicicletas



PRODUTO - SERVIÇO - ENGENHARIA - CONSULTORIA

TWIN

TRACK

TWIN

TRA

TV

TRACK

TWIN

TRACK

TWIN



optibelt TWIN TRACK TC TTC 93T AR



made in Ireland  
produced in Germany

# optibelt TWIN

The trend towards greater mobility and customised solutions has continued unabated over recent years.

This unbroken trend can also be observed at this year's Eurobike in Frankfurt. The numerous new models on show, as well as many other innovations and new products, bear out this unfolding development.

Optibelt's long-standing manufacturing tradition, underpinned by an enduring impetus to develop innovative high-performance products, has resulted in the creation of a patented drive system for the bicycle market.

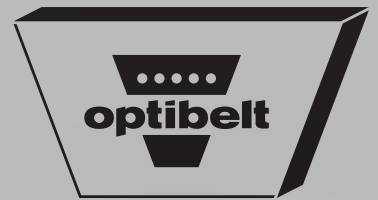
A particular advantage of this new development, in addition to the long life offered by timing belts, is its independent centric guide system, which minimises the installation space required.

We will be presenting this system under the name **optibelt TWIN TRACK** at the trade fair and are looking forward to seeing you there!

Your Optibelt Bike Team

Engineered  
in Germany  
Quality since 1872

# TRACK



## ADVANTAGES

### THE USE OF THE OPTIBELT TWIN TRACK INSTEAD OF A CHAIN OFFERS ADVANTAGES:

- Quiet drive
- Reduced weight compared to a chain
- Long lifetime
- Dry-running, oil-free drive
- Low-maintenance drive
- Dirt (like sand or gravel) is expelled from the belt groove and the optimised sprocket teeth

### OTHER ADVANTAGES OF A BELT DRIVE COMPARED TO A CHAIN:

- More than twice the lifetime
- Easy measuring equipment available for maintenance
- Reduced maintenance and repair costs
- No or little tightening necessary

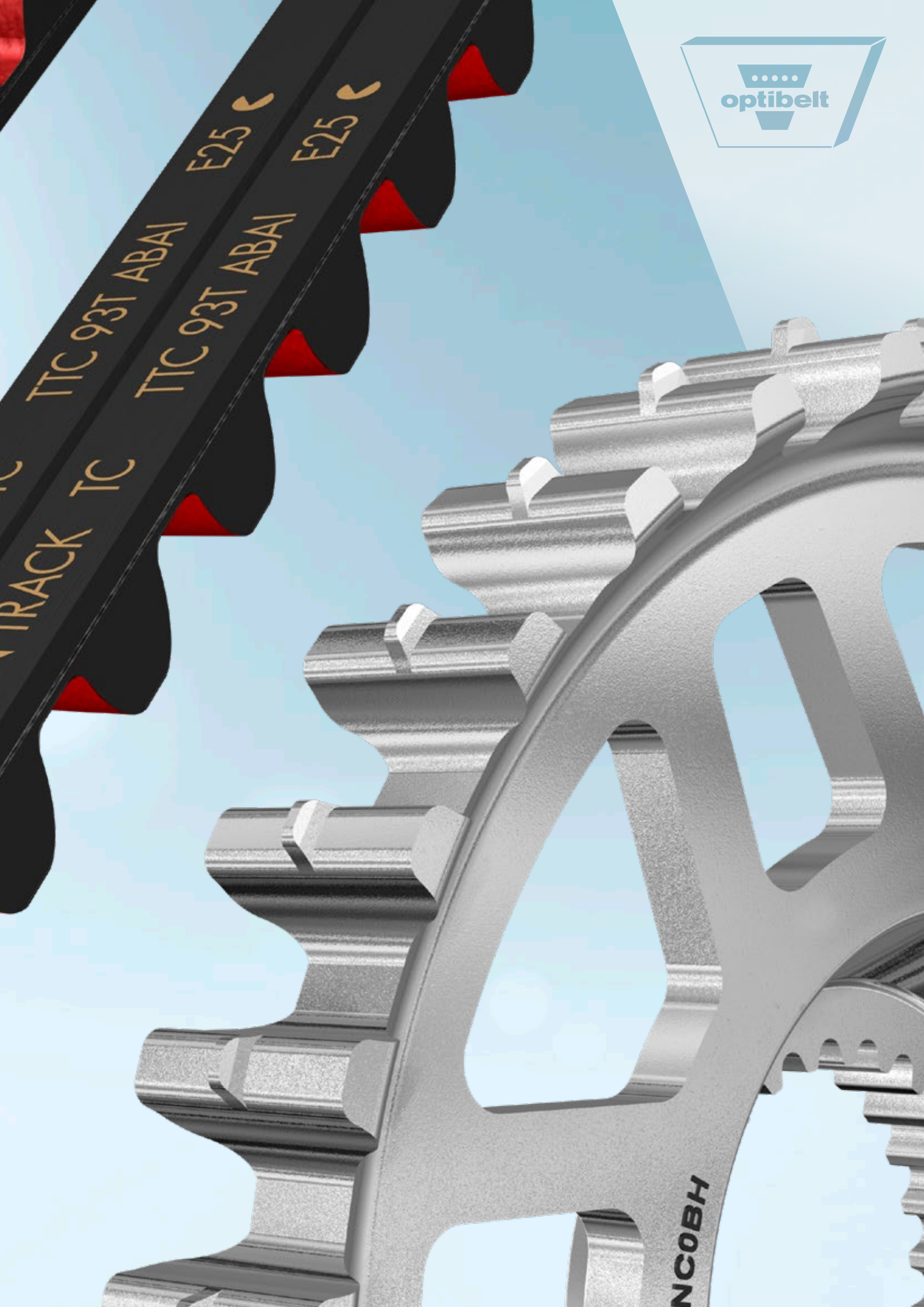
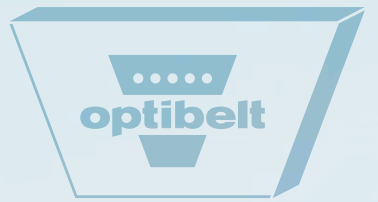
# optibelt **TWIN TRACK TC**

HIGH-END TIMING BELTS  
FOR BIKES

# optibelt **TWIN TRACK SP**

OPTIMISED TIMING BELT SPROCKETS  
MADE OF ALUMINIUM AND  
STAINLESS STEEL





TRACK TC

TTC 93T ABAI

TTC 93T ABAI

E25

E25

NCOBH

# OUR

## **optibelt TWIN TRACK TC** **HIGH-END TIMING BELTS** **FOR BIKES**

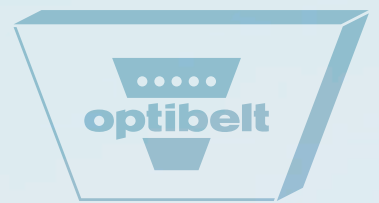
The **optibelt TWIN TRACK TC** (Thermoset Carbon) is a high-performance timing belt with a groove on the top side that picks up the guide tooth of the TSP like a chain and thus sets a new benchmark in the market.

### **DIMENSIONS**

Designation	Length
TTC 85T	1190 mm
TTC 90T	1260 mm
TTC 93T	1302 mm
TTC 100T	1400 mm
TTC 101T	1414 mm
TTC 112T	1568 mm
TTC 125T	1750 mm
TTC 150T	2100 mm
TTC 160T	2240 mm
TTC 224T	3136 mm

Other dimensions available on request

# RANGE



## **optibelt TWIN TRACK SP** **OPTIMISED TIMING BELT SPROCKETS** **MADE OF ALUMINIUM AND STAINLESS STEEL**

The **optibelt TWIN TRACK SP** sprocket has patented guide teeth that penetrate the belt like a chain sprocket connection, guide it laterally, and minimise the risk of the TTC skipping.

### **APPLICATIONS**

- TSP 3-Cleat
- TSP 6-Cleat
- TSP 9-Spline
- TSP 4-Arm
- TSP 5-Arm
- TSP Pinion

Number of teeth T available  
on request

Minimum number of teeth  
for rear sprocket: T17





# CLEANING & C



## **ROUGH CLEANING**

Simply spray with a jet of water (recommended if there is a lot of dust, sand and dirt).



## **THOROUGH CLEANING**

Clean with water and a brush or cloth (particularly recommended if covered with sand) or use soapy water, if you wish.



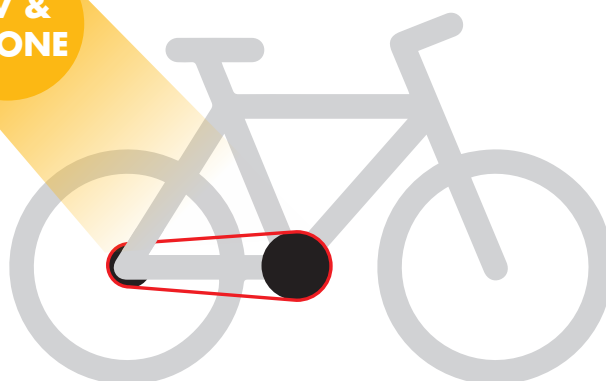
## **CLEANING AGENTS**

No strong grease-dissolving or degreasing agents necessary since the drive runs oil-free and dry.

If you wish, apply Optibelt care products (coming soon) to the drive when dry to promote particularly easy running and added longevity.



**UV &  
OZONE**



# CARE

optibelt



## PEDELECS AND SPEED BIKES

Carry out care and maintenance of pedelecs and speed bikes only when the battery and motor are switched off.



## OEM TIP: OPEN-ENDED INNER TUBE

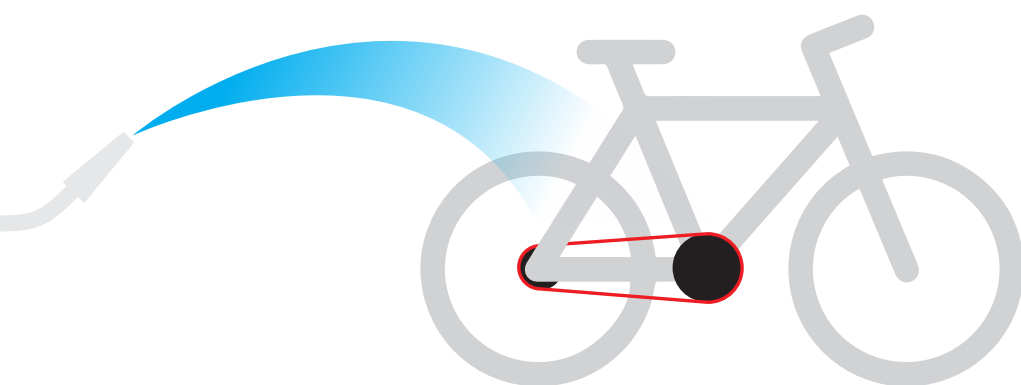
An open-ended inner tube can save you having to remove the rear wheel if you have a puncture.

## BEST TEMPERATURE RESISTANCE

thanks to the use of cast polyurethane – operating temperatures of approx.  $-30\text{ }^{\circ}\text{C}$  to  $+80\text{ }^{\circ}\text{C}$

$+80\text{ }^{\circ}\text{C}$

$-30\text{ }^{\circ}\text{C}$



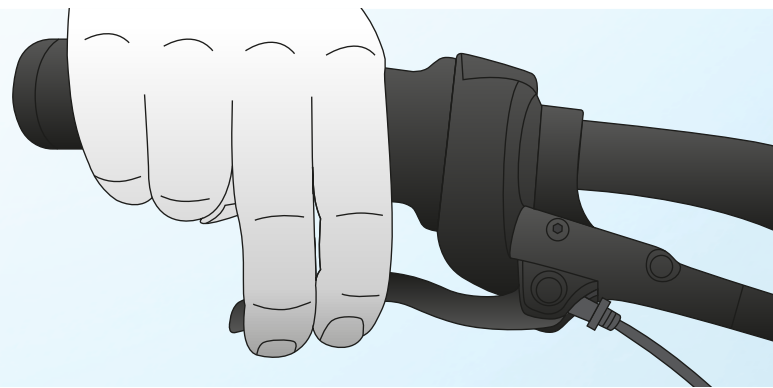
# PLEASE NOTE!

Prevent any risk of injury by ensuring the bike is properly secured during maintenance work (for instance, by using a bike stand) during maintenance or installation work. Only under certain conditions for e-pedelecs and speed bikes if the battery and motor are properly secured. **In addition, follow the bike manufacturer's safety instructions.**

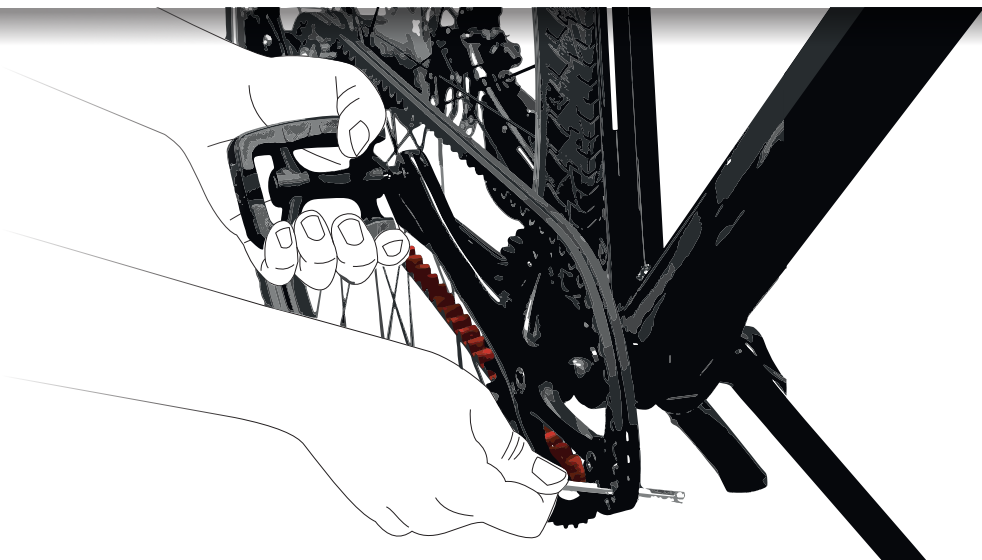


**Read through these recommendations before using the belt drive on your bike.**

Improper use of the belt drive can result in death or serious bodily injury or even death.



**DO NOT  
PRISE ON  
OR OFF**





is in a safe position and cannot move (using the bike stand) before you begin any maintenance and care procedures on the motor are switched off.

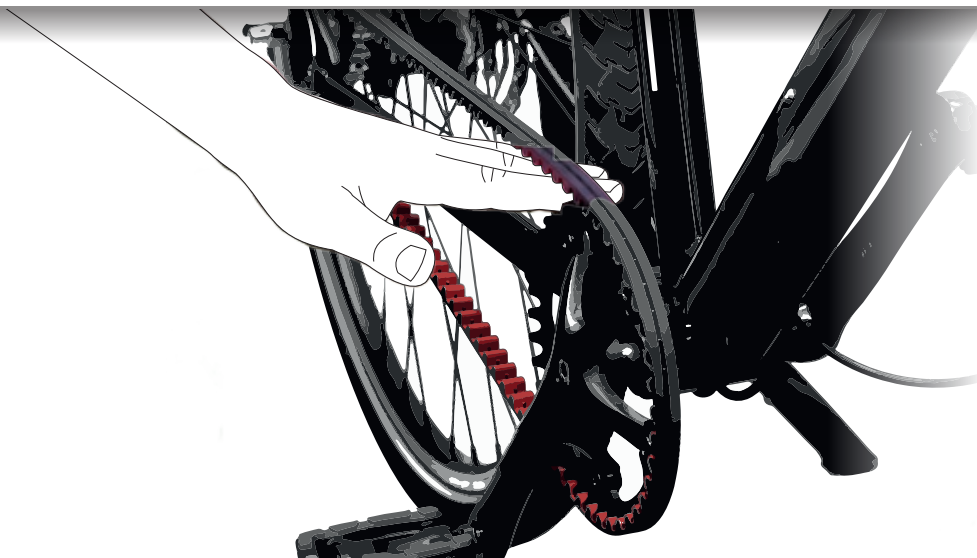
**safety recommendations.**



## When fitting or replacing an Optibelt

to avoid damage to property,

TWIN TRACK requires the main brake system to be a rim or disc brake.



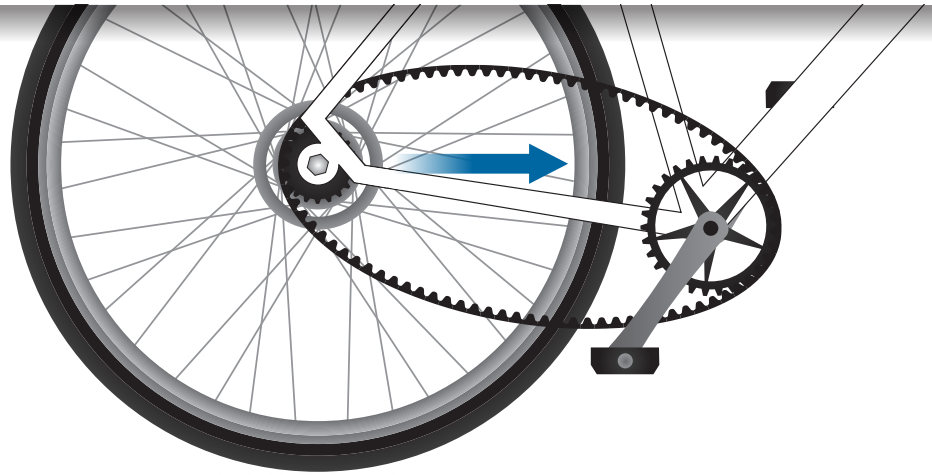
**DO NOT  
REACH INTO  
THE DRIVE**

# BELT CHANGE

Step-by-step instructions for changing the **optibelt TWIN TRA**

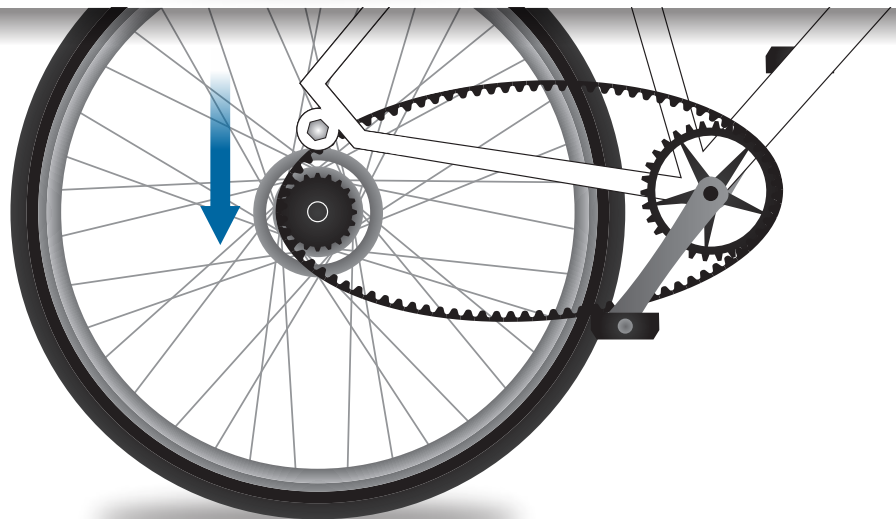
1

Release the tension of the optibelt TTC timing belt.



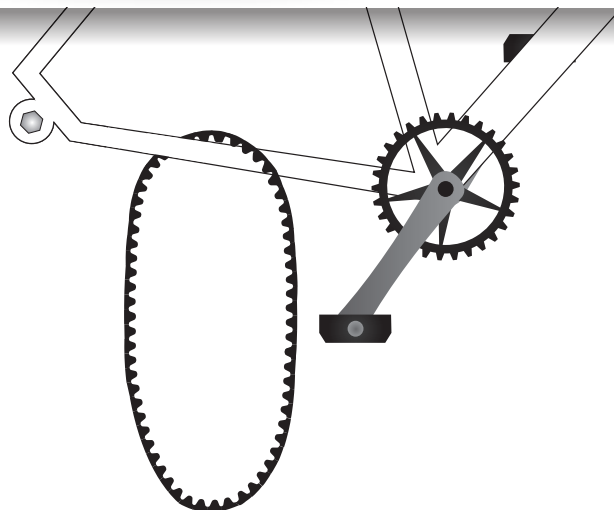
2

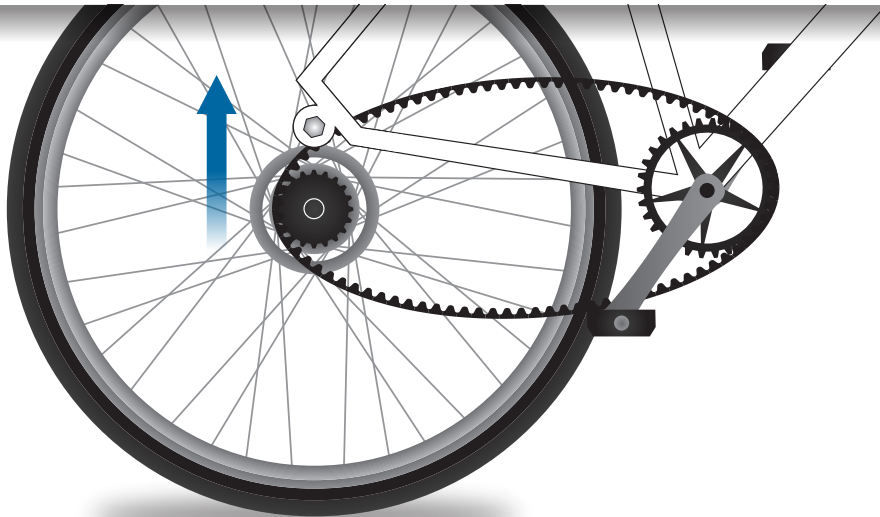
Remove the rear wheel.



3

Open the frame lock, replace the TTC, and close the frame lock.





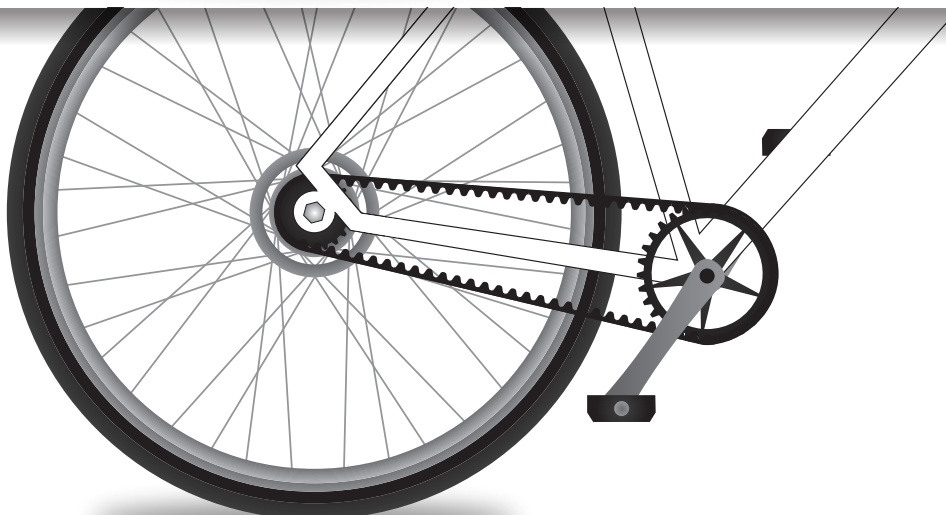
**4**

Fit the TTC around the two TSP sprockets. Fit the rear wheel.



**5**

Tension the TTC by adjusting the position of the rear wheel.



**6**

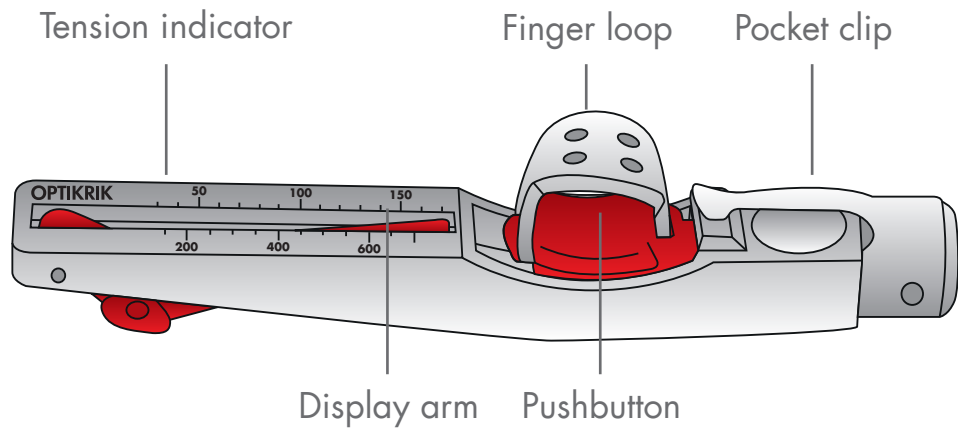
Set the specified belt tension (see the next page for example).

# BELT TENSION

Measure the tension of the **optibelt TWIN TRACK TC** using t

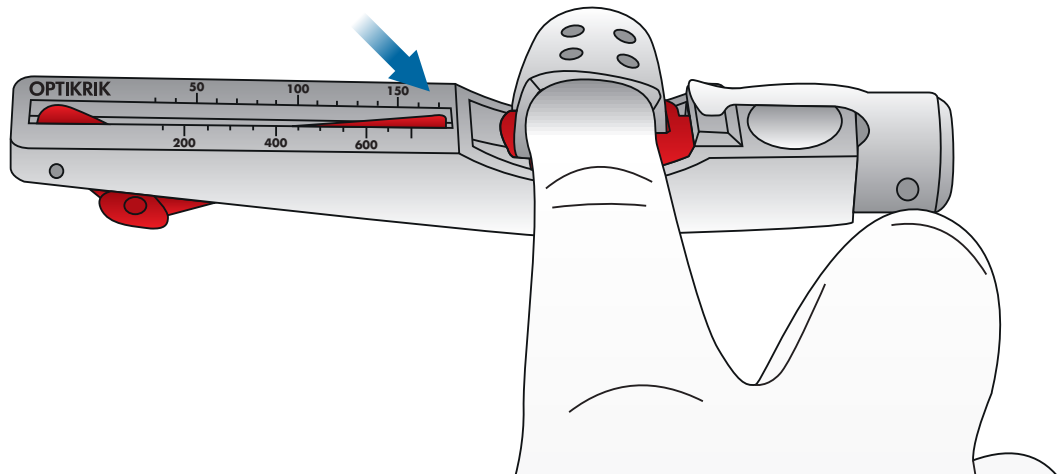
1

OPTIKRIK design and explanations for use.



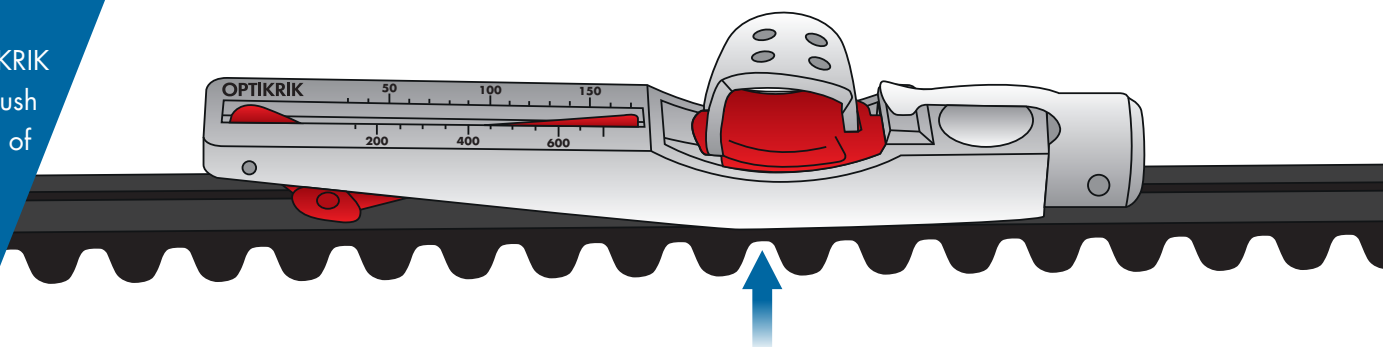
2

Place your index finger in the finger loop and rest it on the pushbutton.

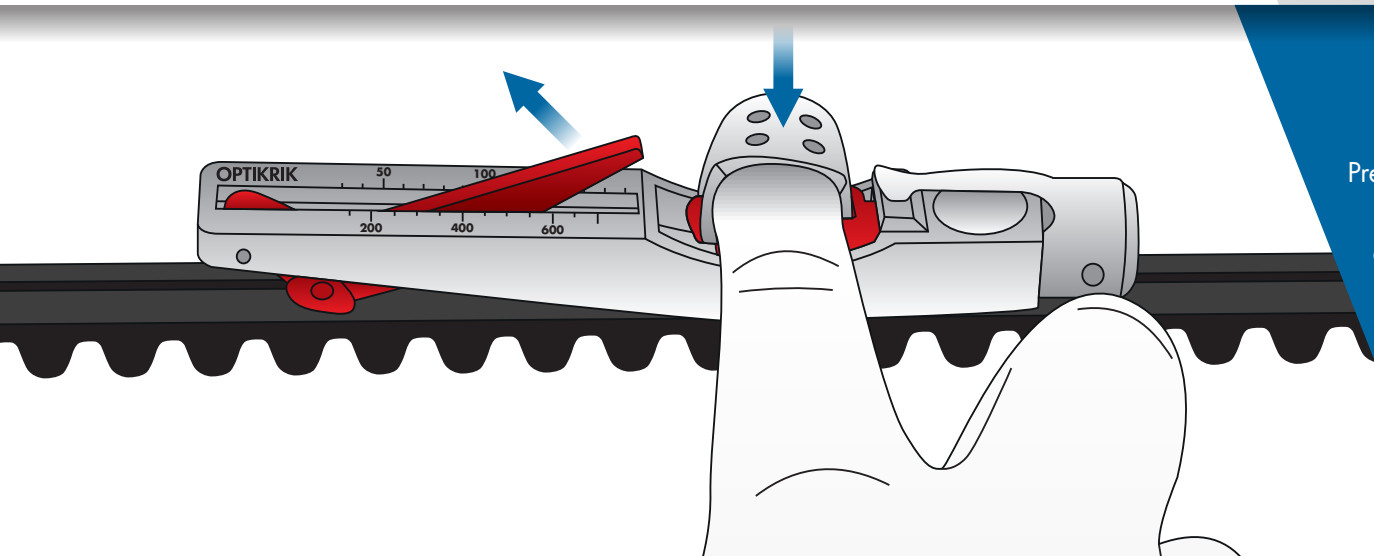


3

Place the OPTIKRIK centrally and flush on the top side of the TTC.

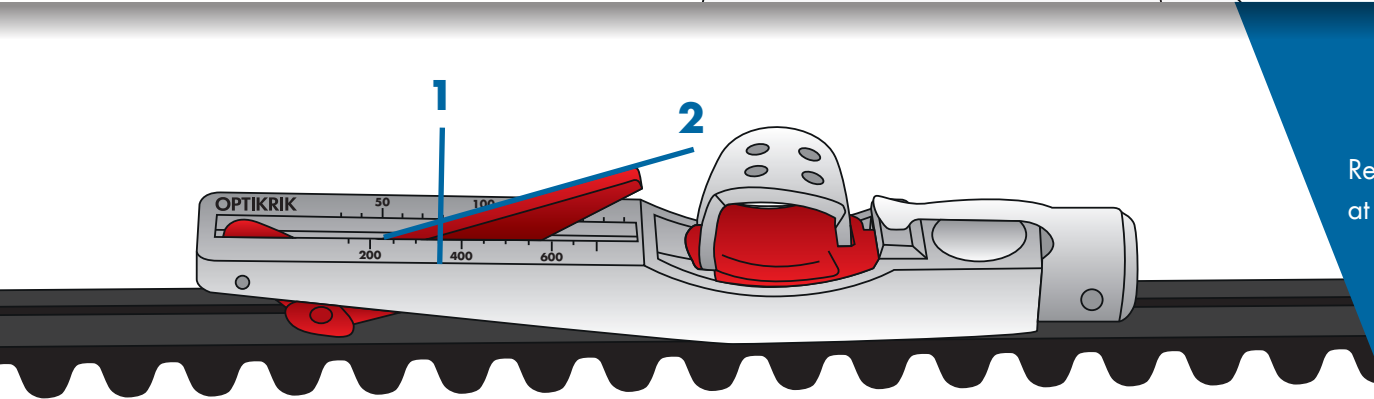


# The **OPTIKRIK** TENSION GAUGE



**4**

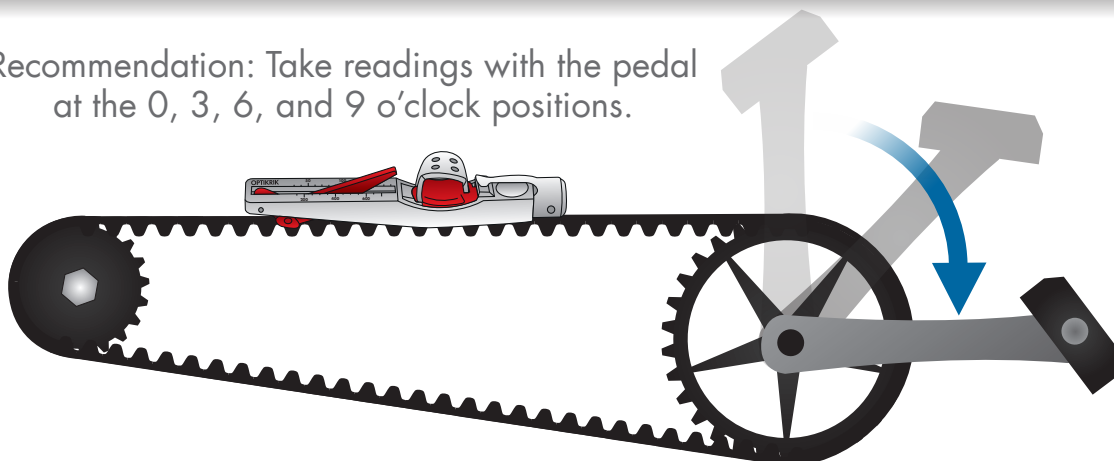
Press down on the pushbutton until a click is heard.



**5**

Read off the value at the point where lines **1** and **2** intersect.

Recommendation: Take readings with the pedal at the 0, 3, 6, and 9 o'clock positions.



**6**

Turn the pedal through a quarter turn and repeat steps 2 to 5 at least 3 times.



# HANDLING

To benefit from all its advantages and enjoy the full lifetime of the belt system, the **optibelt TWIN TRACK TC** must be handled properly.

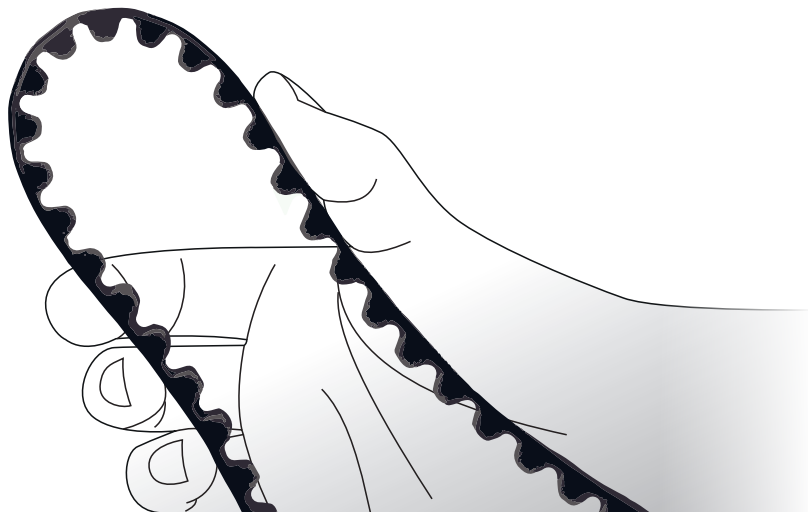
**Treat the optibelt TWIN TRACK TC carefully:**



**DO NOT  
BUNDLE**

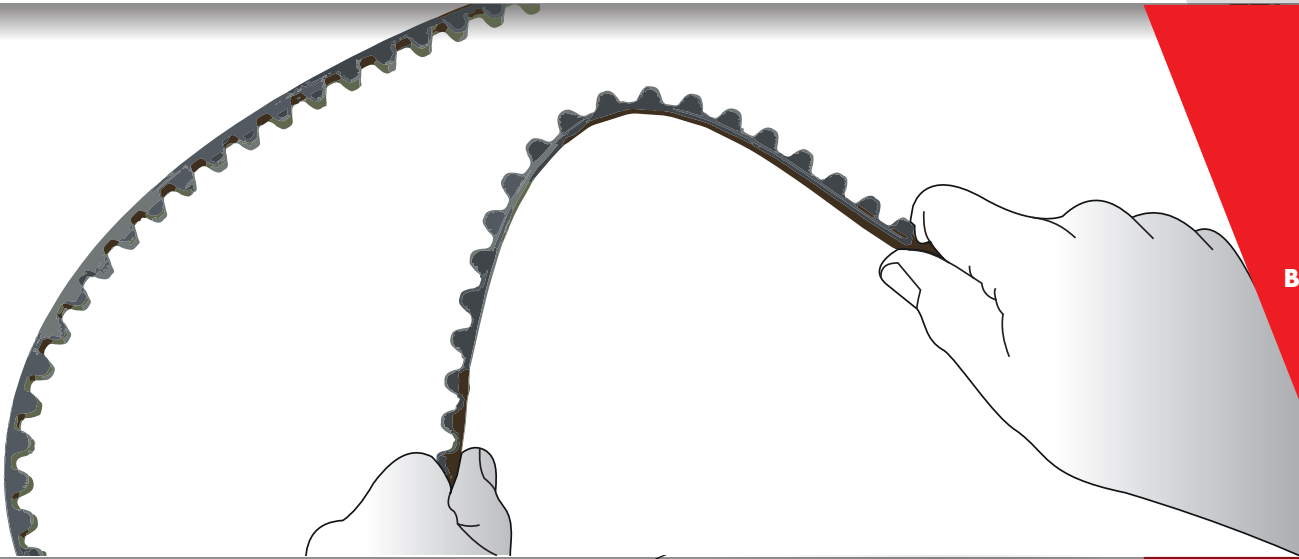
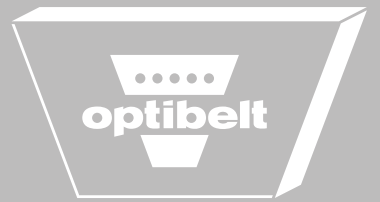


**DO NOT  
BEND**

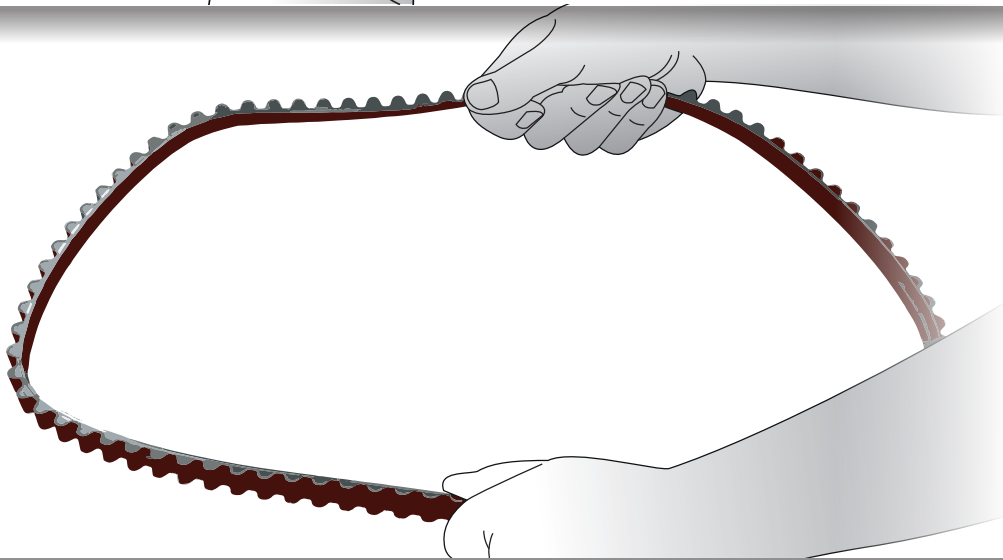


**DO NOT  
TWIST**

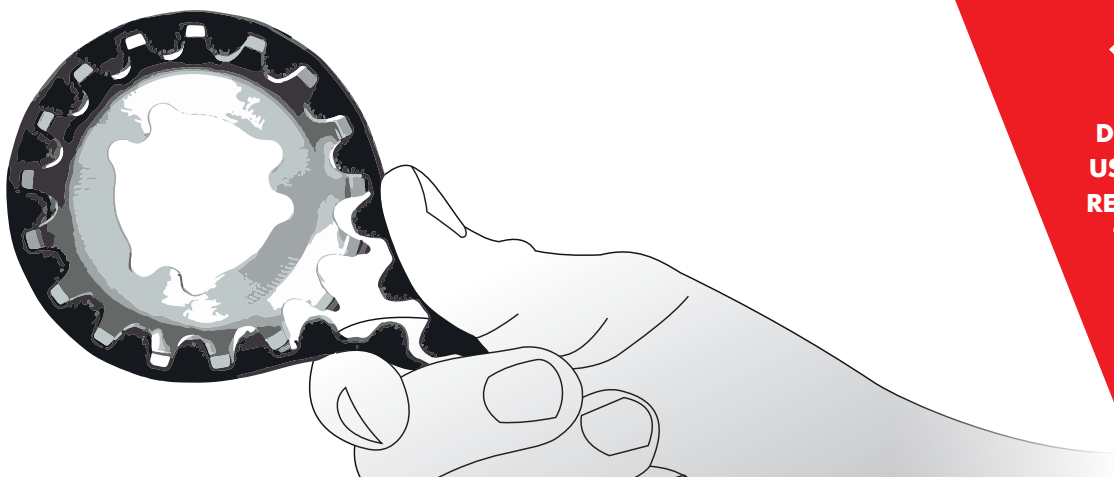




**DO NOT  
BEND IT  
BACKWARDS**



**DO NOT  
TURN IT  
INSIDE OUT**

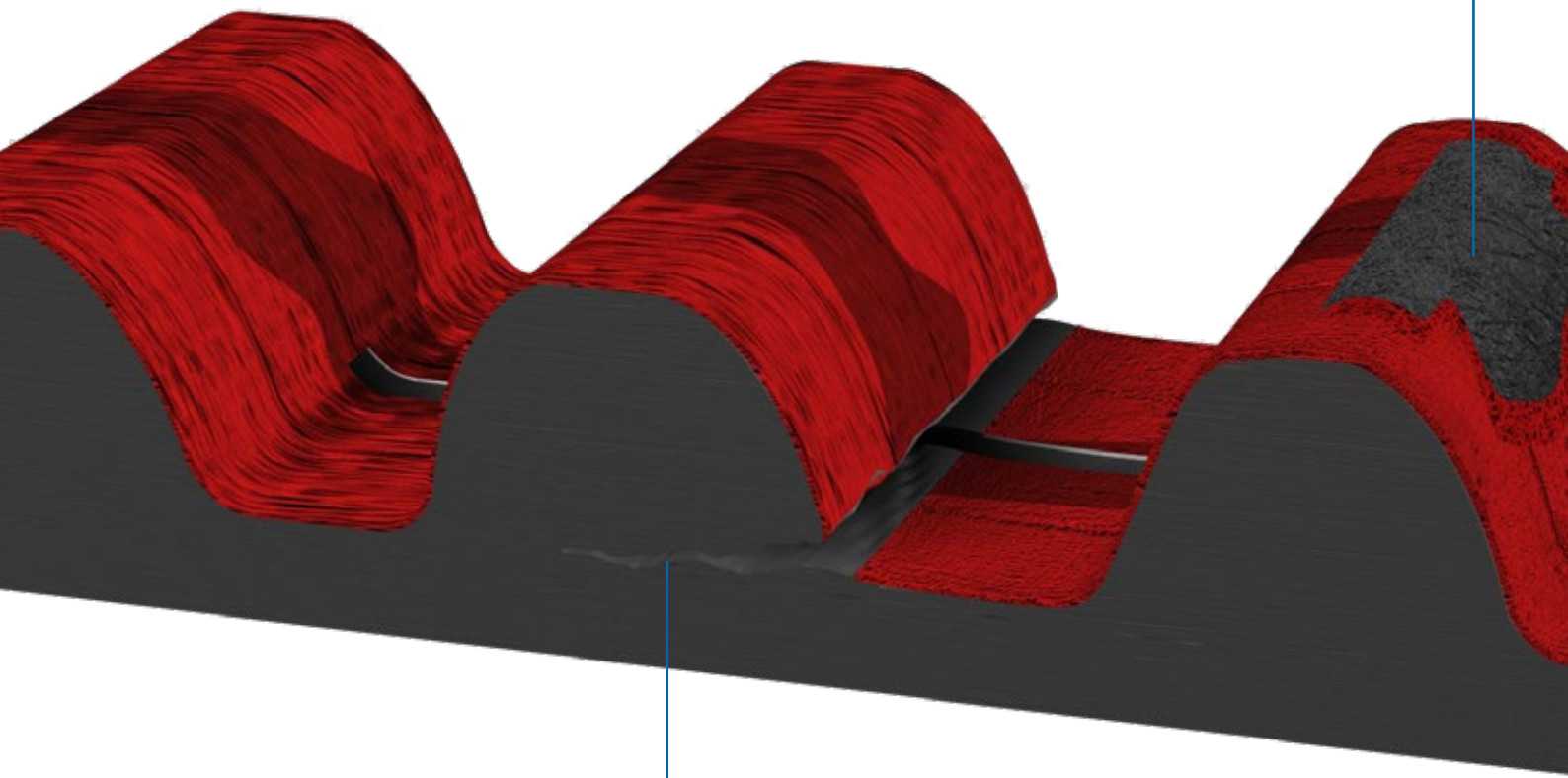


**DO NOT  
USE AS A  
REMOVAL  
TOOL**

# REPLACEMENT

NOTE: DISAPPEARANCE OF THE **RED** COLOUR IS **NOT** A SIGN

**EXTREMELY WORN FABRIC  
WITH VISIBLE POLYMER**



**TORN  
TOOTH**

PLEASE DO NOT HESITATE TO CONTACT US  
IF YOU HAVE ANY OTHER QUESTIONS.

# CRITERIA



GN OF WEAR!

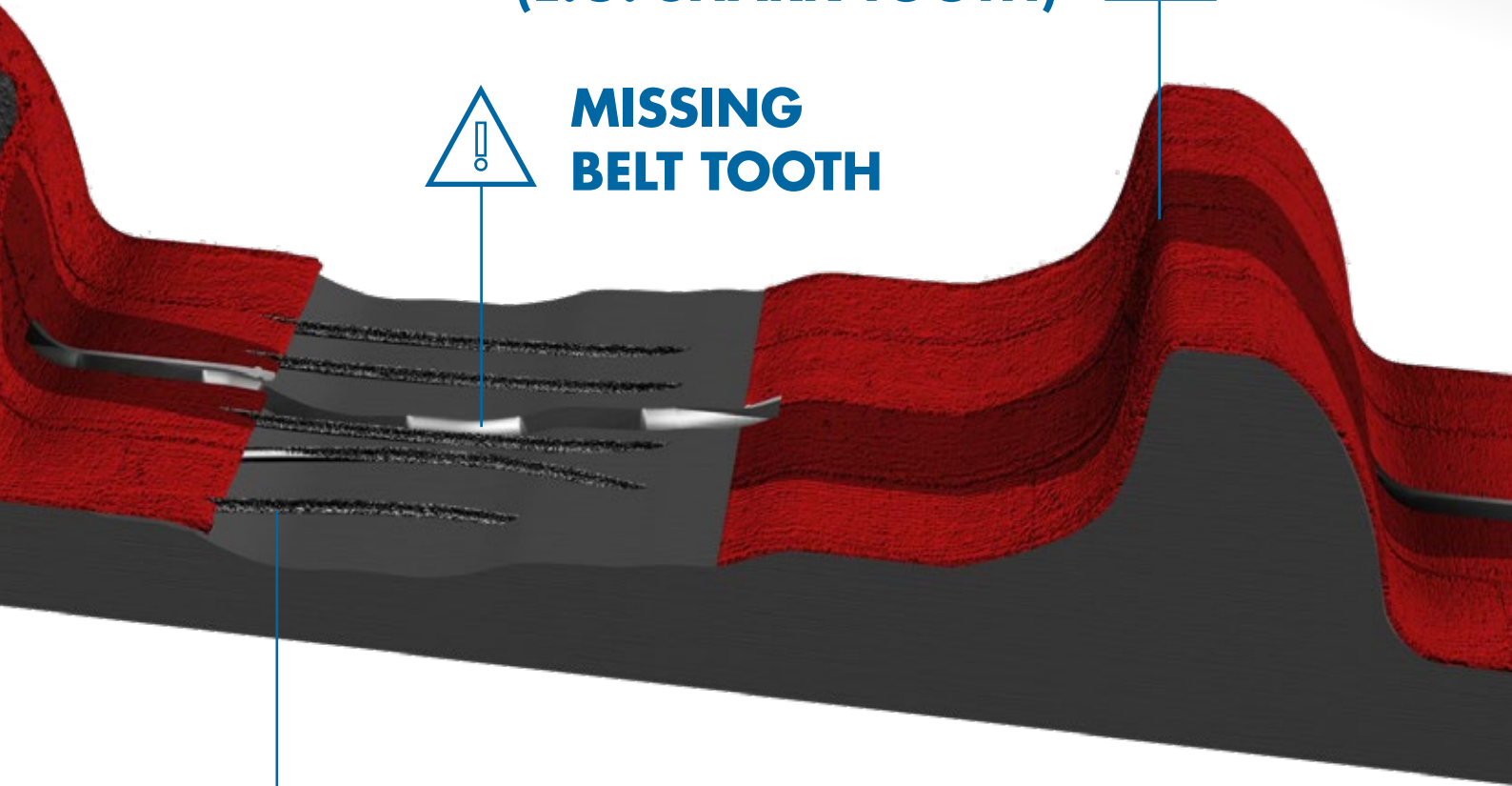
**NOT SYMMETRICAL  
(E.G. SHARK TOOTH)**



**MISSING  
BELT TOOTH**

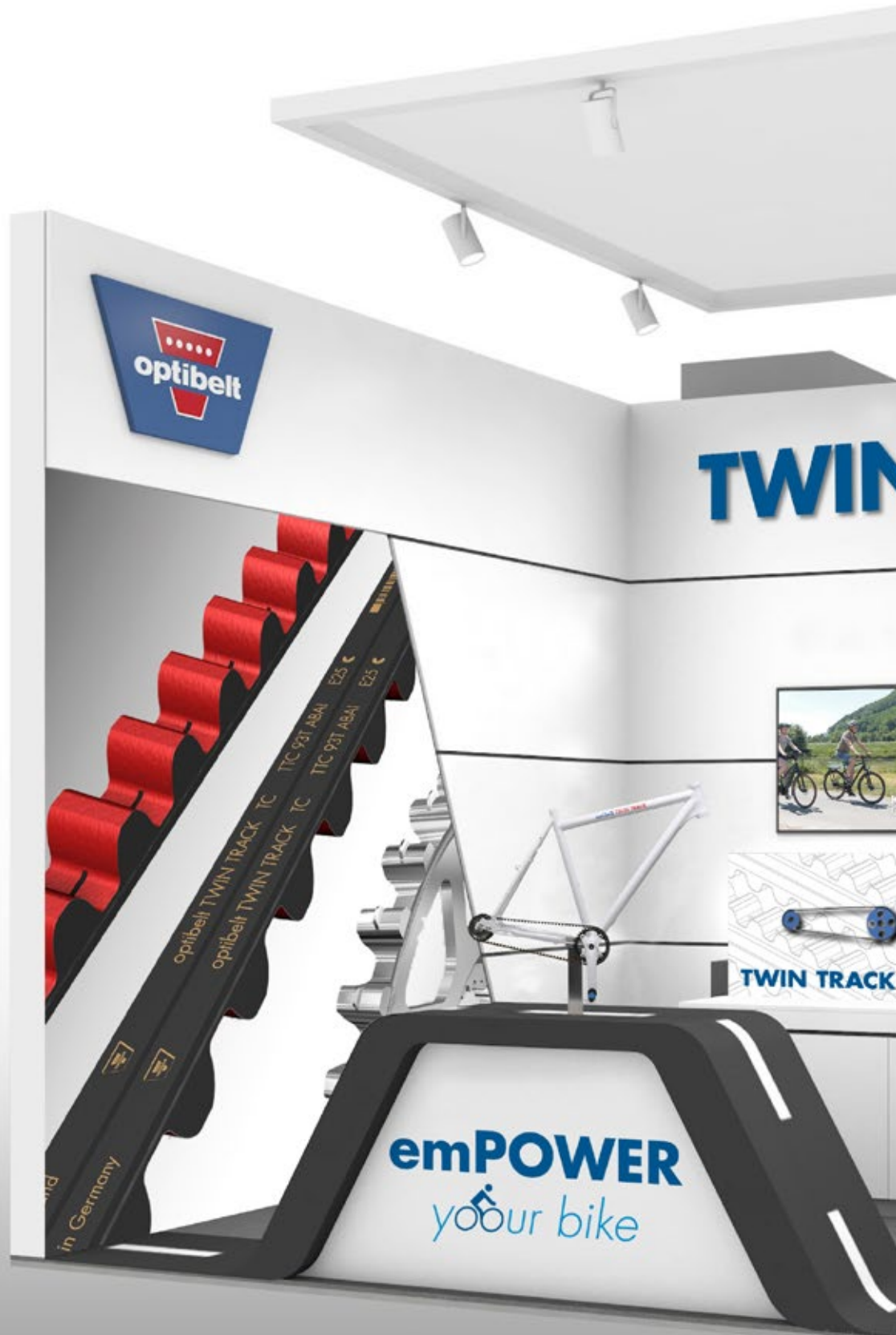


**EXPOSED CARBON FIBRES**





# WE LOOK TO YOUR V



# FORWARD VISIT



**INDOORS:  
HALL 9.1 / B30**

**OUTDOORS:  
F12.0 / F08**

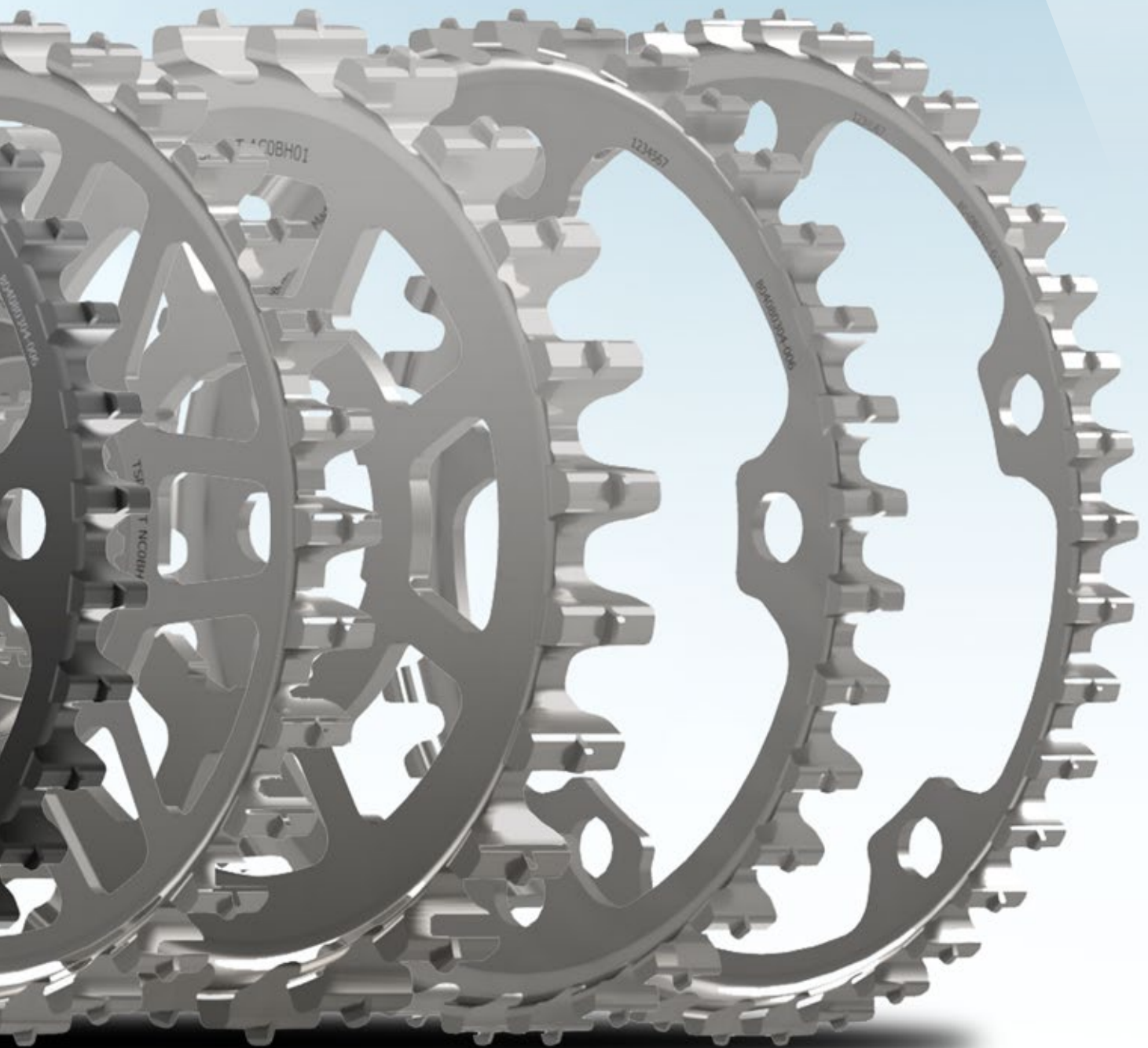
# DRIVE SO SINCE



# SOLUTIONS 1872

150

YEARS OPTIBELT  
1872 - 2022





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