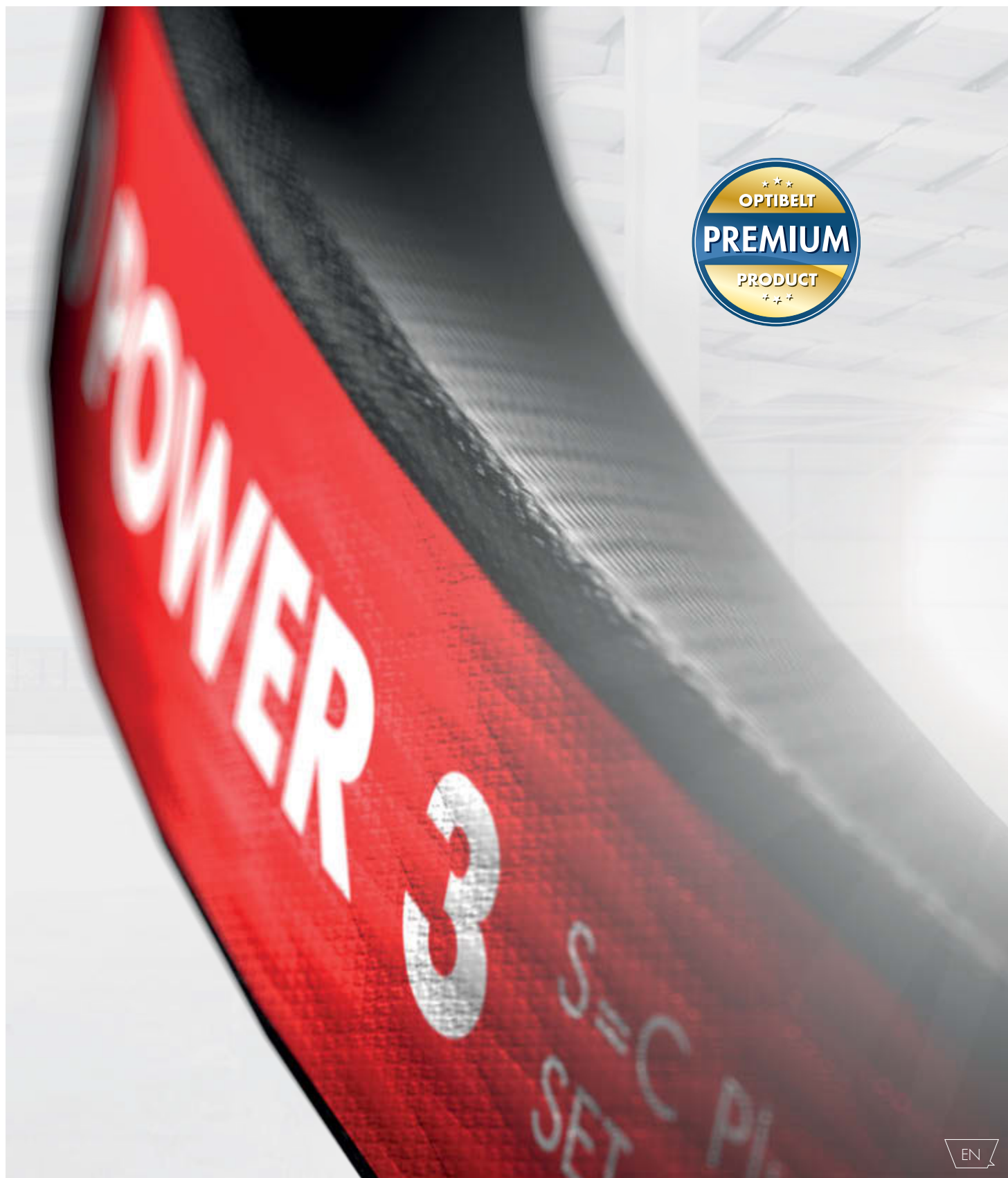




POWER TRANSMISSION

**optibelt RED POWER 3**



# PERFECT FOR HIGH PERFORMANCE DRIVES

## COMPACT: HIGH PERFORMANCE IN CONFINED SPACES

Reconfiguring systems using **optibelt RED POWER 3** V-belts allows space-saving and cost-effective designs to be created with fewer belts and an associated reduction in axial and bearing loads.



## HIGHER PERFORMANCE

Up to 50% higher power transmission capacity compared to conventional standard V-belts

## RESULTS THAT SPEAK FOR THEMSELVES

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**optibelt RED POWER 3** high performance wedge belts benefit from an optimal manufacturing process and the use of high-quality raw materials and semi-finished products.



## PROBLEM SOLVER: RELIABLE AND ECONOMICAL

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Its multiplied life span and significantly reduced maintenance requirement make the **optibelt RED POWER 3** a real solution provider for overloaded drives with conventional V-belts. Lower maintenance costs and a reduced demand for replacement parts ensure cost savings up to 35% due to fewer belts and smaller pulleys.

# PERFECT POWER TRANSMISSION



## HIGH TEMPERATURE RESISTANCE

Resistant from  $-30^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$



Made in  
Germany

## TEMPERATURE RESISTANT: STRONG IN HEAT AND COLD

**optibelt RED POWER 3** V-belts ensure consistent power transmission within a temperature range of  $-30^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$ .



## MAINTENANCE-FREE

If correctly tensioned, no maintenance intervals are required during the entire lifetime.

### MAINTENANCE-FREE: NO NEED TO RE-TENSION

During their lifetime, conventional V-belts have to be re-tensioned at regular intervals. With the maintenance-free **optibelt RED POWER 3**, this additional work and expenditure are no longer necessary.

**optibelt**

**RED POWER 3**

S=C Plus  
SET CONSTAN

**optibelt**

**RED POWER 3**

SET CONSTAN  
S=C Plus

# EXACTLY THE NOMINAL SIZE

## SET CONSTANT WITHOUT MEASURING: ALWAYS THE NOMINAL SIZE

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Optibelt S=C Plus is the epitome of perfect power transmission. The tight length tolerances are made possible by modern production methods, the long-standing expertise of professionals, and the use of consistently high quality raw materials.



### S=C PLUS

V-belts, set constant without measuring

## OPTIBELT ROTARY-VULCANIZATION – ORV

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S=C Plus tolerances and optimized dynamic belt performance are ensured by the special Optibelt Rotary-Vulcanization.

## PERFORMING UP TO THE LIMIT

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The **optibelt RED POWER 3** achieves up to 50% higher power capability than conventional V-belts. This means that fewer belts are required for power transmission and sustainable cost savings are possible by reducing the pulley sizes. If the same number of belts are used, pulleys with a smaller diameter can be employed.



## BETTER PERFORMANCE: HIGHER EFFICIENCY

**optibelt RED POWER 3** high performance V-belts achieve an efficiency of up to 97 % – which is significantly higher than conventional V-belts. The use of fewer belts reduces the bending losses. In comparison to conventional V-belts, the flexibility of each individual belt is increased thanks to the special fabric used.



**MORE EFFICIENCY – MORE POWER**

Up to 97% efficiency

# PERFECT FOR HIGH PERFORMANCE APPLICATIONS

## COVER FABRIC

Rubber-coated fabric cover for high wear resistance, special fabric construction for increased flexibility

## TENSION CORD

Particularly low stretch polyester cord

## TOP LAYER

High-quality mixture made of polychloroprene with transverse fibres

## BASE LAYER

Core mixture made of polychloroprene with transverse fibres for increased transverse rigidity and improved cord support



#### IDEAL IN MECHANICAL ENGINEERING

- Compressors
- Fans
- Pumps
- Mixers
- Presses
- Stone crushers
- Highly loaded drives

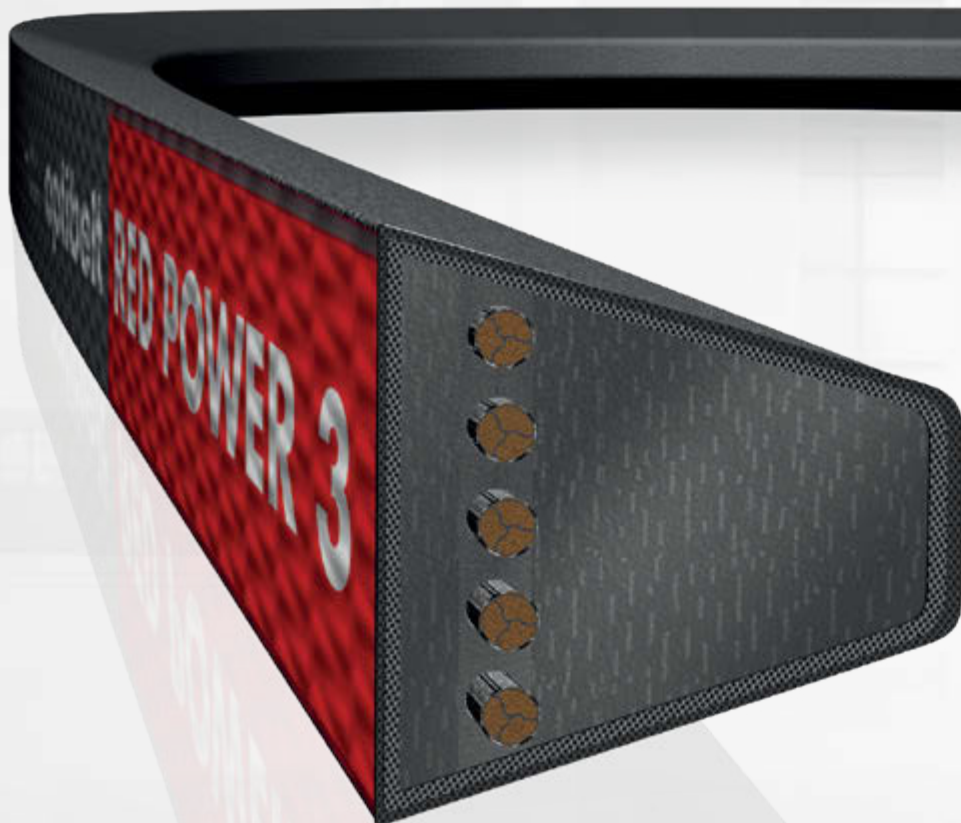
#### PROFILES/SIZES V-BELTS

|        |                |
|--------|----------------|
| SPZ    | 1170–18 000 mm |
| SPA    | 1170–18 000 mm |
| SPB    | 1170–12 000 mm |
| SPC    | 1900–21 000 mm |
| 3V/9N  | 460–7080 in    |
| 5V/15N | 460–4720 in    |
| 8V/25N | 820–7080 in    |

#### PROFILES/SIZES KRAFTBANDS

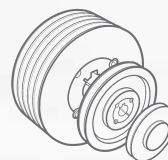
|           |                |
|-----------|----------------|
| SPB KB    | 2240–10 000 mm |
| SPC KB    | 2240–10 000 mm |
| 3V/9J KB  | 880–3930 in    |
| 5V/15J KB | 880–3930 in    |
| 8V/25J KB | 820–8260 in    |

Further dimensions available on request



#### V-GROOVED PULLEYS

SPZ / SPC pulleys for finished bore or optibelt taper bush available, special pulleys on request



#### optibelt RED POWER 3

Construction in cross section



## **DRIVE FOR THE FUTURE**

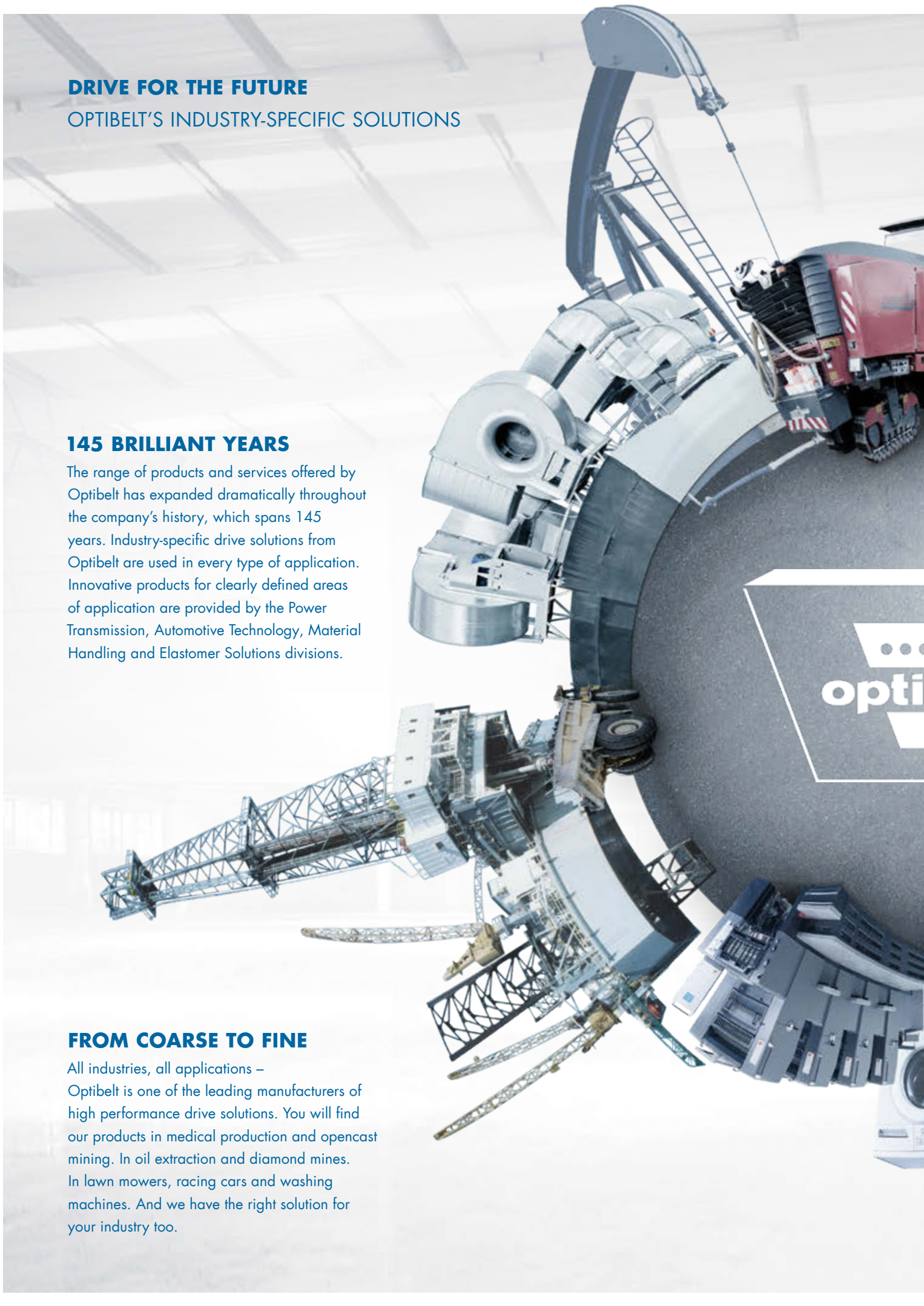
### **OPTIBELT'S INDUSTRY-SPECIFIC SOLUTIONS**

#### **145 BRILLIANT YEARS**

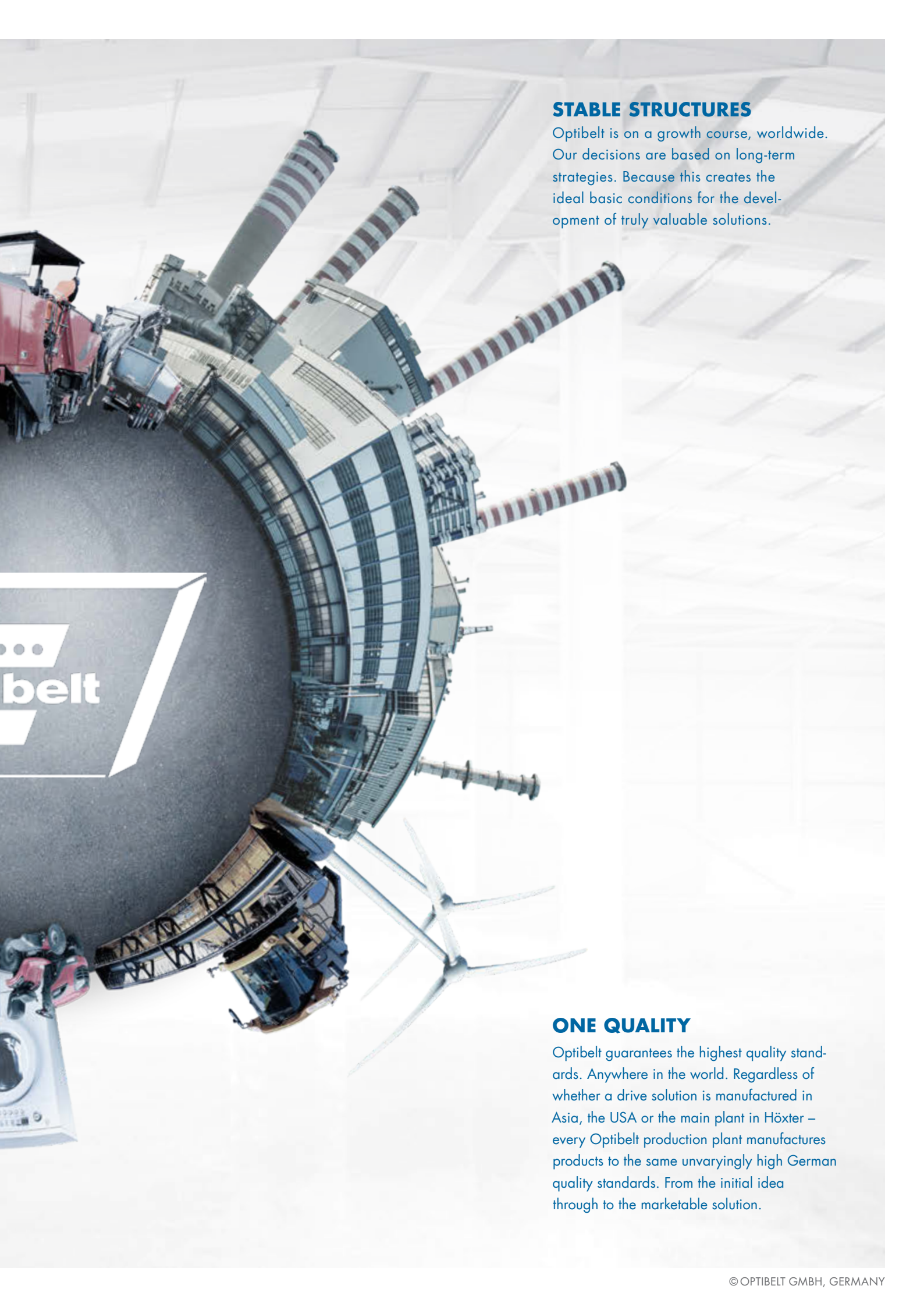
The range of products and services offered by Optibelt has expanded dramatically throughout the company's history, which spans 145 years. Industry-specific drive solutions from Optibelt are used in every type of application. Innovative products for clearly defined areas of application are provided by the Power Transmission, Automotive Technology, Material Handling and Elastomer Solutions divisions.

#### **FROM COARSE TO FINE**

All industries, all applications – Optibelt is one of the leading manufacturers of high performance drive solutions. You will find our products in medical production and opencast mining. In oil extraction and diamond mines. In lawn mowers, racing cars and washing machines. And we have the right solution for your industry too.



...  
**opti**



## STABLE STRUCTURES

Optibelt is on a growth course, worldwide. Our decisions are based on long-term strategies. Because this creates the ideal basic conditions for the development of truly valuable solutions.

## ONE QUALITY

Optibelt guarantees the highest quality standards. Anywhere in the world. Regardless of whether a drive solution is manufactured in Asia, the USA or the main plant in Höxter – every Optibelt production plant manufactures products to the same unvaryingly high German quality standards. From the initial idea through to the marketable solution.

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