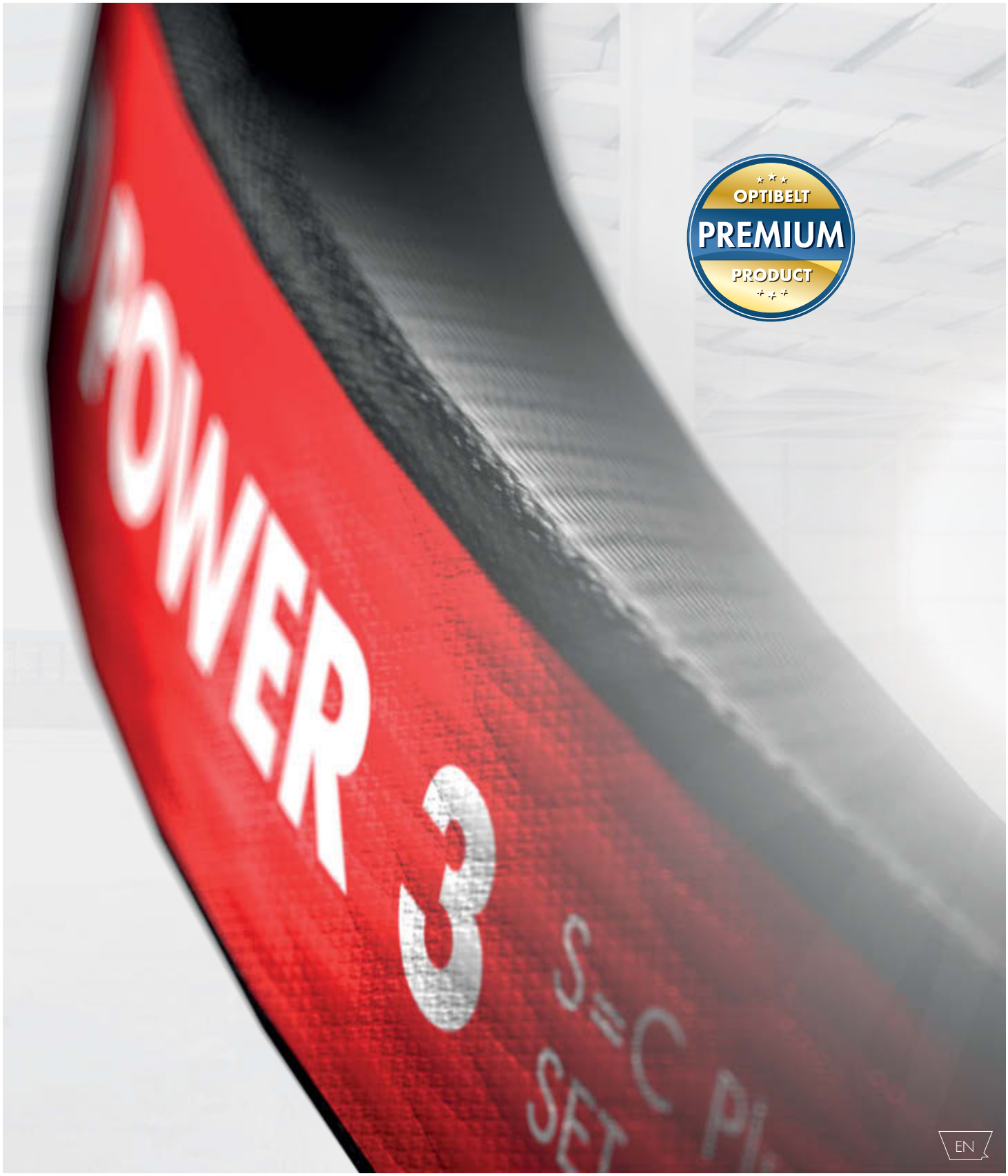
POWER TRANSMISSION

optibelt RED POWER 3



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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

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

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.

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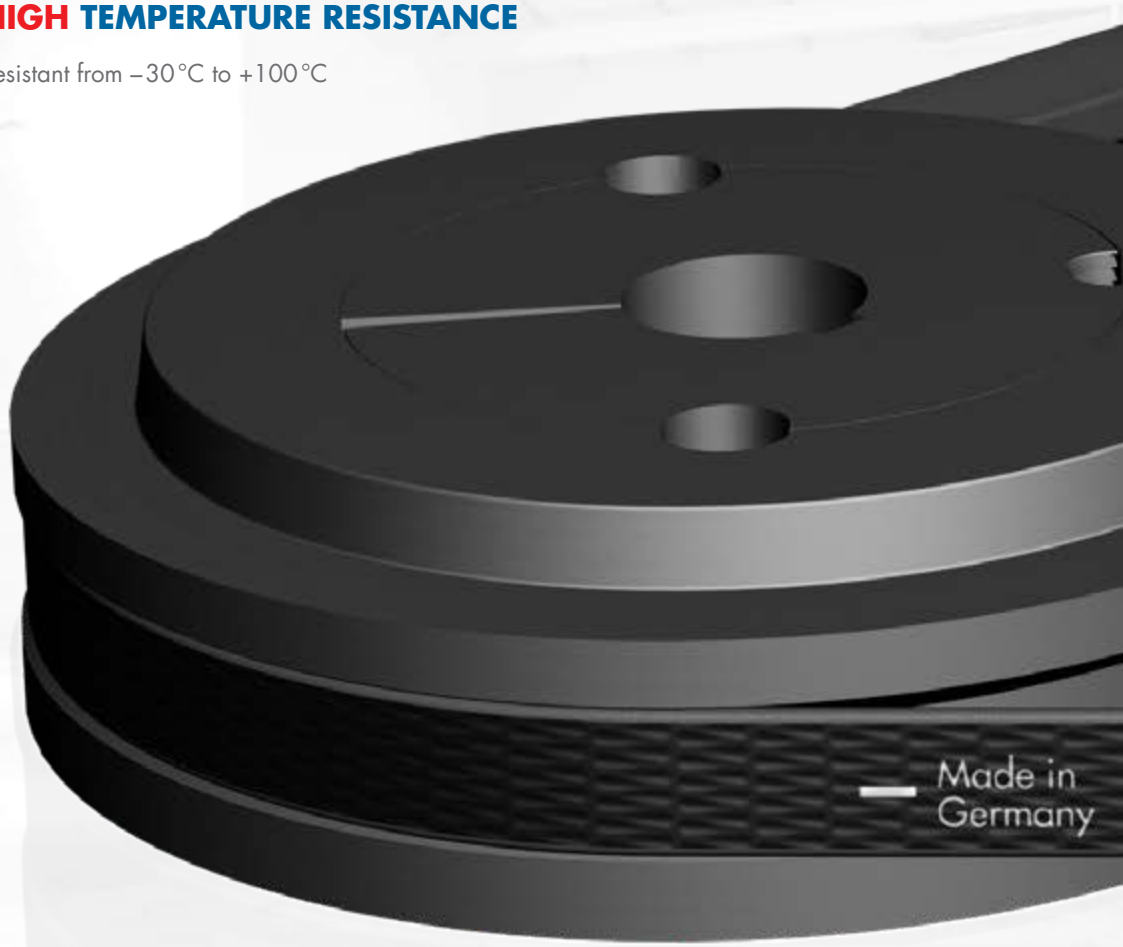
PERFECT POWER TRANSMISSION

HIGH TEMPERATURE RESISTANCE

Resistant from –30 °C to +100 °C



TEMPERATURE RESISTANT: STRONG IN HEAT AND COLD

optibelt RED POWER 3 V-belts ensure consistent power transmission within a temperature range of –30 °C to +100 °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.

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EXACTLY THE NOMINAL SIZE

SET CONSTANT WITHOUT MEASURING: ALWAYS THE NOMINAL SIZE

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

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

PERFORMING UP TO THE LIMIT

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

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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

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DRIVE FOR THE FUTURE

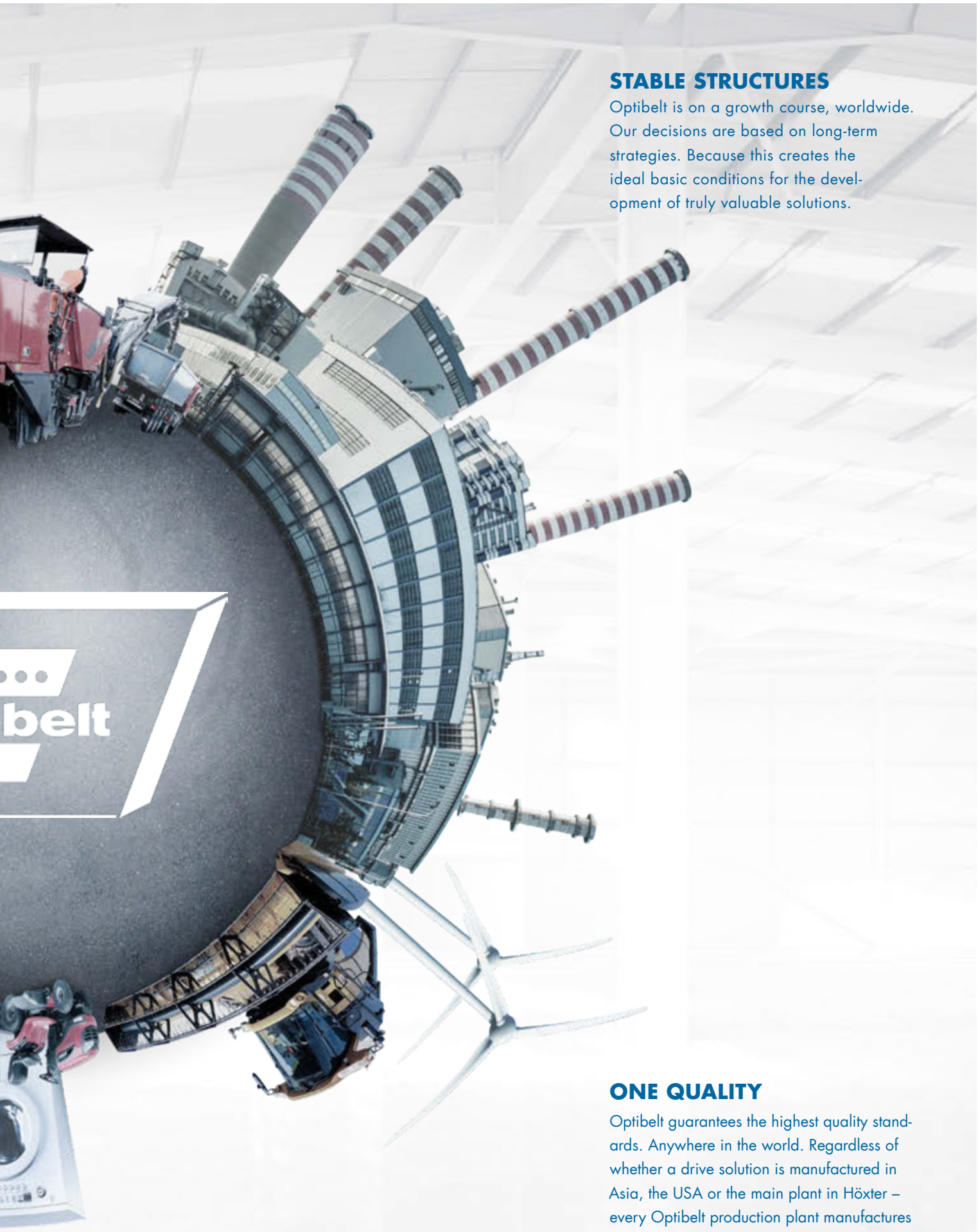
OPTIBELT'S INDUSTRY-SPECIFIC SOLUTIONS

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.



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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