



POWER TRANSMISSION  
**optibelt OMEGA HP**



# PERFECT FOR THE HIGHEST DEMANDS

## OPERATIONAL SAFETY: LONGER LIFE

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Dynamic tests with the **optibelt OMEGA HP** timing belt show an increase in performance of up to 150% compared to the optibelt OMEGA. This means a significant improvement in operational safety and drive function.



## LONGER SERVICE LIFE

Up to 18 times the service life of standard rubber timing belts

## QUIET RUNNING: LESS NOISE THANKS TO FURTHER DEVELOPMENT

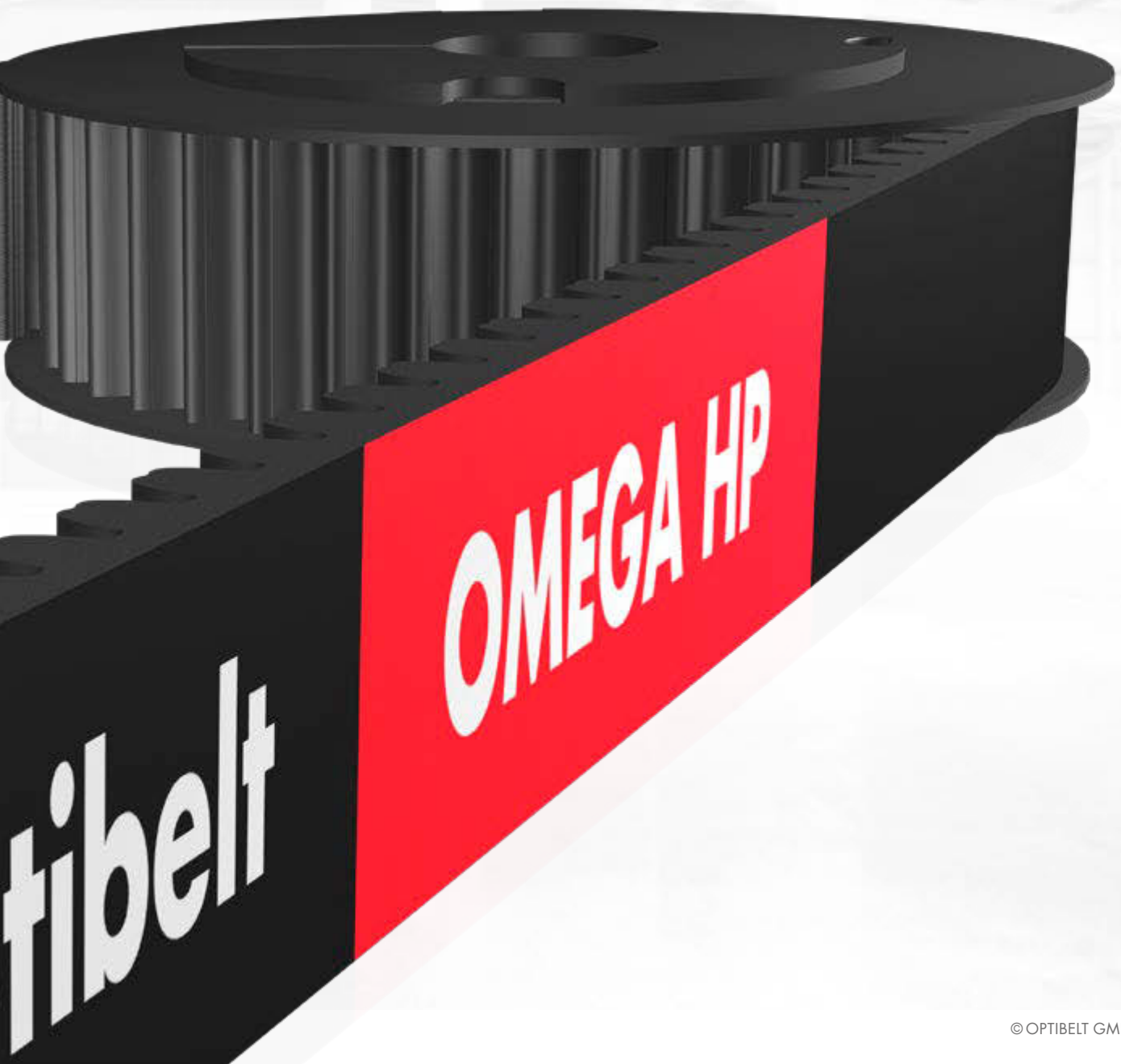
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The optimised tooth shape and notching in the tooth head of the **optibelt OMEGA HP** timing belt significantly reduce noise levels. In combination with the specially developed materials, it is possible to reduce noise levels further, even at high rotational speeds and with high pre-tension.



### REDUCED NOISE LEVEL

Lower noise emissions thanks to optimised tooth shape with comparable width and profile



# PERFECT FOR EXTREME LOADS



## TEMPERATURE RESISTANCE

Temperature resistance range:  $-30\text{ }^{\circ}\text{C}$  to  $+100\text{ }^{\circ}\text{C}$



## ELECTRICAL CONDUCTIVITY: SAFE WITH NO IGNITION HAZARDS

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The electrical conductivity of the **optibelt OMEGA HP** timing belt allows the discharge of electrostatic charges. In timing belts with insufficient electrical conductivity, these charges can be so high that sparking causes a risk of ignition.



**ELECTRICALLY CONDUCTIVE**

Certified as per ISO 9563

# OMEGA HP

## SPECIAL EPDM VERSION

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Very large temperature resistance range of  $-40\text{ }^{\circ}\text{C}$  to  $+140\text{ }^{\circ}\text{C}$  with the 8M and 14M profiles. Extremely flexible at low temperatures.

## OPTIMUM POWER TRANSMISSION

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The **optibelt OMEGA HP** timing belts offer optimum power transmission within a temperature range of  $-30\text{ }^{\circ}\text{C}$  to  $+100\text{ }^{\circ}\text{C}$  without any early aging or embrittlement and thus without drive failures.

# FASTER, STRONGER, MORE COMPACT



## **OIL RESISTANT**

Minimises damage to the drive.  
Please contact our application engineering.



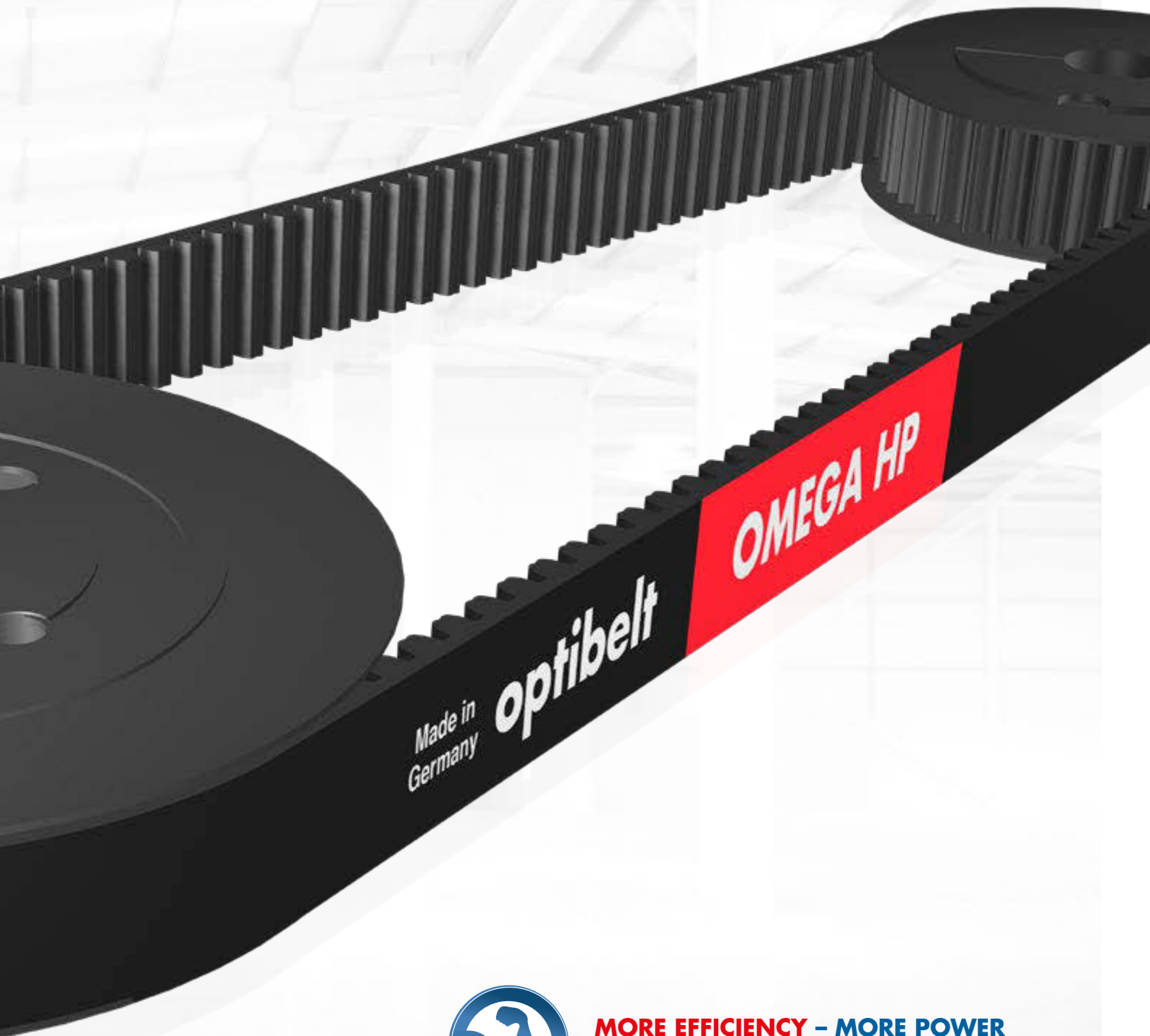
## **HIGHER EFFICIENCY: PRACTICALLY FRICTION-FREE DRIVE**

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The specially developed tooth fabric of the **optibelt OMEGA HP** timing belts and the flexible belt design result in virtually friction-free belt drives.

## OIL RESISTANCE: NO DAMAGING EFFECTS

**optibelt OMEGA HP** timing belts have a certain level of oil resistance, which prevents the damaging effects of mineral oils, provided that these substances are not present in large quantities and not permanently in contact with the belt.



**MORE EFFICIENCY – MORE POWER**

Up to 98% efficiency

# PERFECT FOR HIGH-PERFOR- MANCE DRIVES

## TOP SURFACE

Durable, flexible polychloroprene body with aramid fibre reinforcement

## FABRIC

Exceptionally low coefficient of friction with low noise characteristics

## TEETH

High shear strength with low friction and low-noise operation

## TENSION CORD

Glass fibre tension cord with excellent flexibility and low elongation





### IDEAL FOR MACHINE DRIVES

- Textile machines
- Machine tools
- Compressors
- Printing machines
- Wood processing machines
- Paper machines

### OMEGA HP PROFILES

2M HP	74–1224 mm
3M HP	111–1692 mm
5M HP	180–2525 mm
8M HP	288–3600 mm
14M HP	966–4578 mm
D8M HP	1120–3600 mm

Other dimensions available on request

### OMEGA HP LINEAR PROFILES

3M HP	6–15 mm
5M HP	10–25 mm
8M HP	10–30 mm

Standard roll length 30 m

Other dimensions available on request

### STD HP PROFILES

S5M HP	180–2525 mm
S8M HP	288–3600 mm

### STD HP LINEAR PROFILES

S5M HP	10–25 mm
S8M HP	10–30 mm



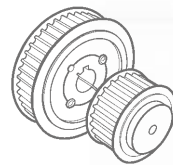
**optibelt OMEGA HP** runs in the standard HTD and RPP pulleys.

STD profiles are only compatible with STD toothed pulleys.

### TOOTHED PULLEYS

Standard HTD pulleys available from stock; special pulleys on request.

See product list for profiles and versions.



### **optibelt OMEGA HP**

Profile illustration



### **optibelt STD HP**

Profile illustration



## DRIVE FOR THE FUTURE

### OPTIBELT'S INDUSTRY-SPECIFIC SOLUTIONS

#### 145 BRILLIANT YEARS

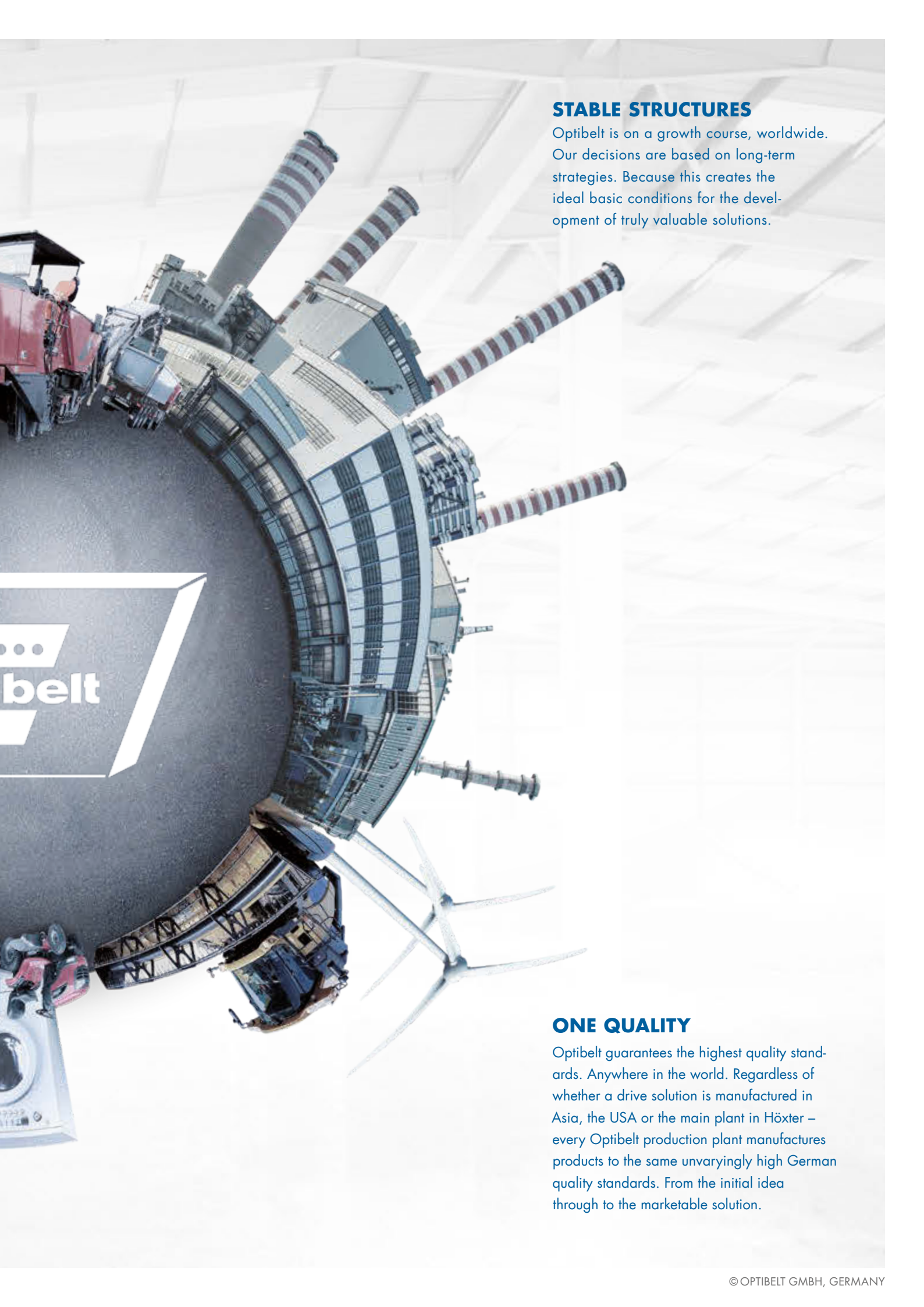
The range of products and services offered by Optibelt has expanded dramatically throughout the company's history, which spans more than 145 years. Industry-specific drive solutions from Optibelt are used in every type of application. Innovative products for clearly defined areas of application are provided 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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