



POWER TRANSMISSION
optibelt OMEGA HP



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PERFECT FOR THE HIGHEST DEMANDS

OPERATIONAL SAFETY: LONGER LIFE

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

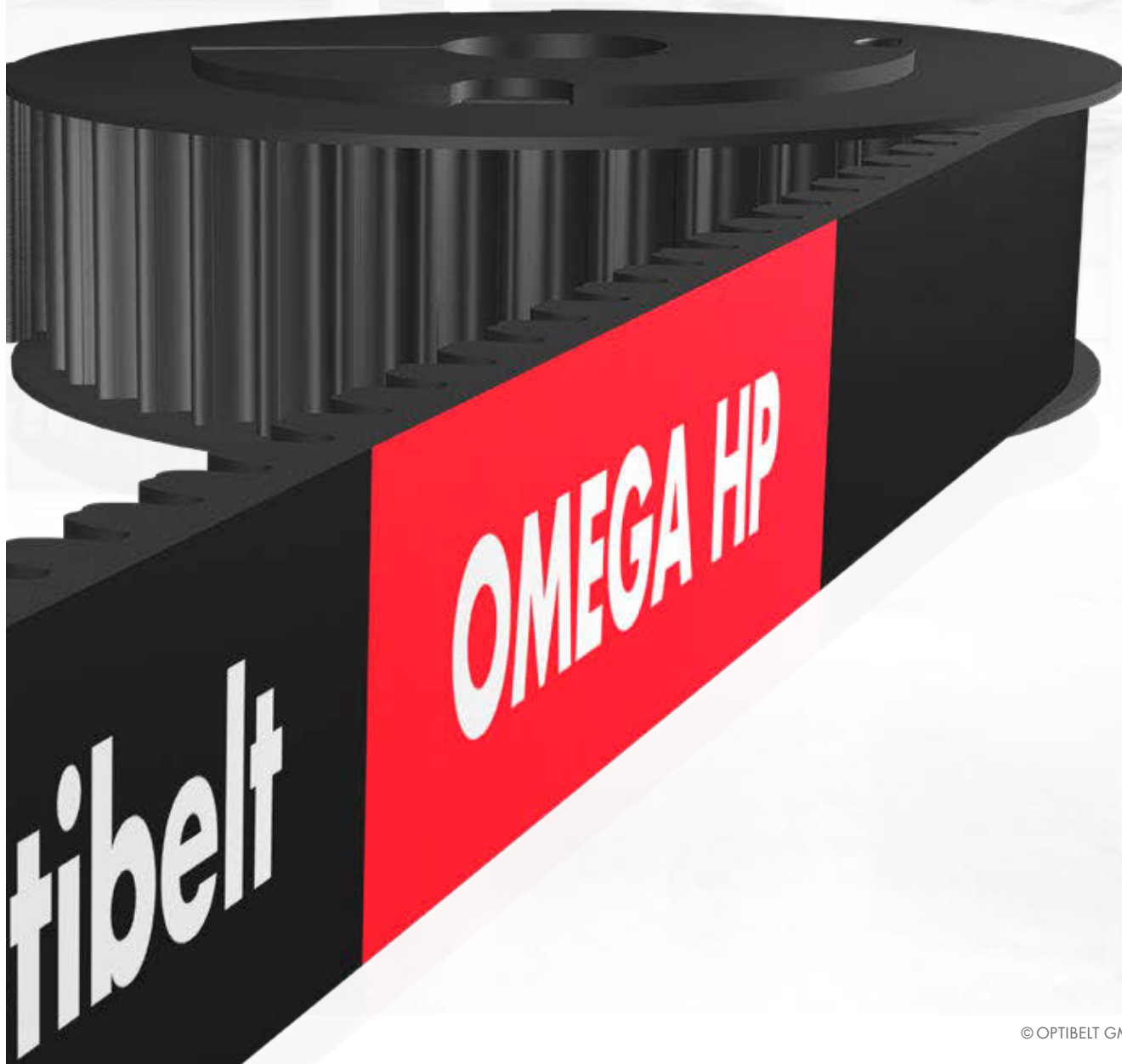
QUIET RUNNING: LESS NOISE THANKS TO FURTHER DEVELOPMENT

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



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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

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

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

OPTIMUM POWER TRANSMISSION

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

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FASTER, STRONGER, MORE COMPACT



OIL RESISTANT

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

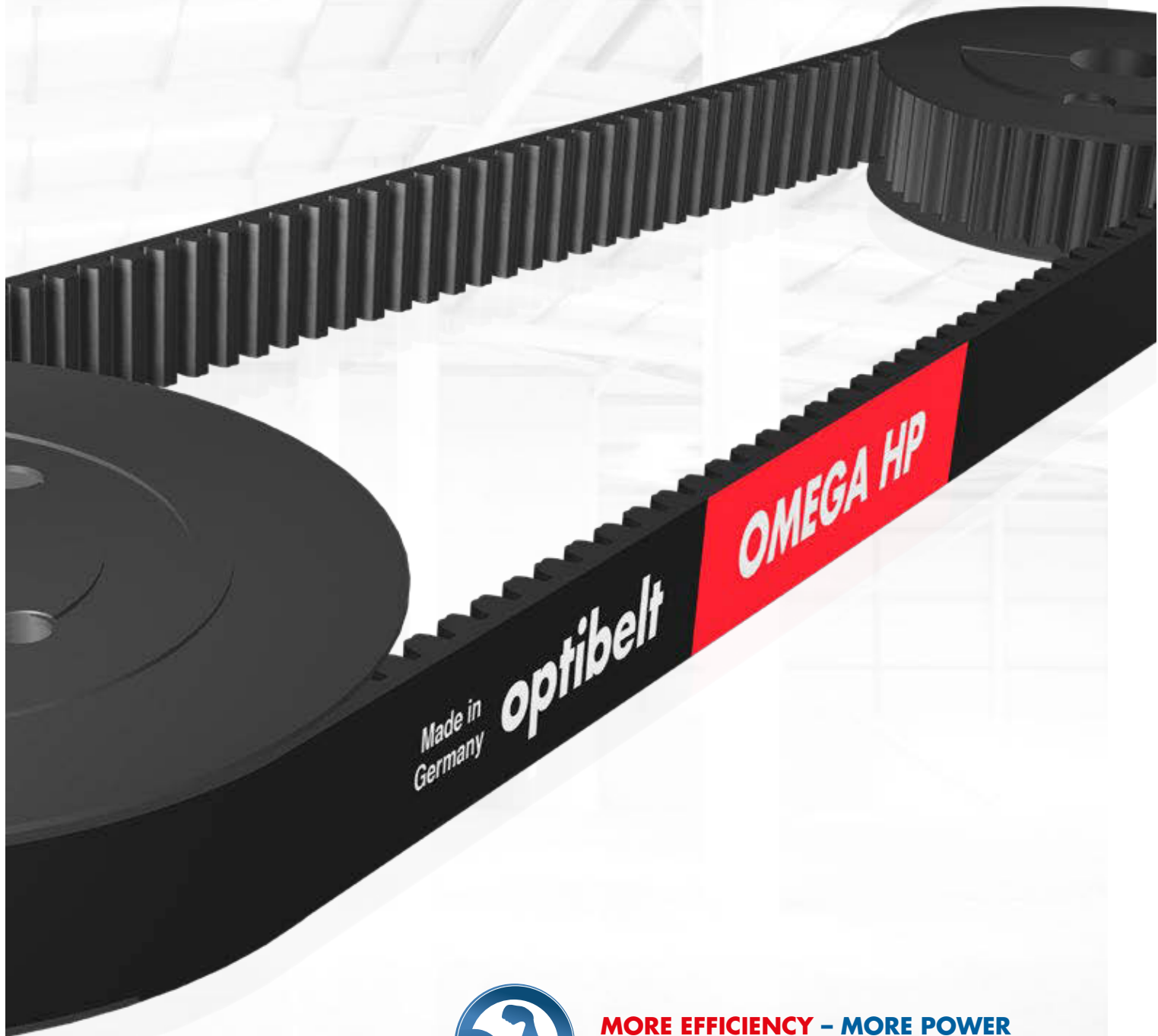


HIGHER EFFICIENCY: PRACTICALLY FRICTION-FREE DRIVE

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

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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
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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



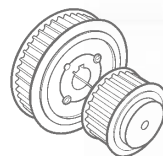
optibelt OMEGA HP runs in the standard HTD and RPP pulleys.

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



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DRIVE FOR THE FUTURE

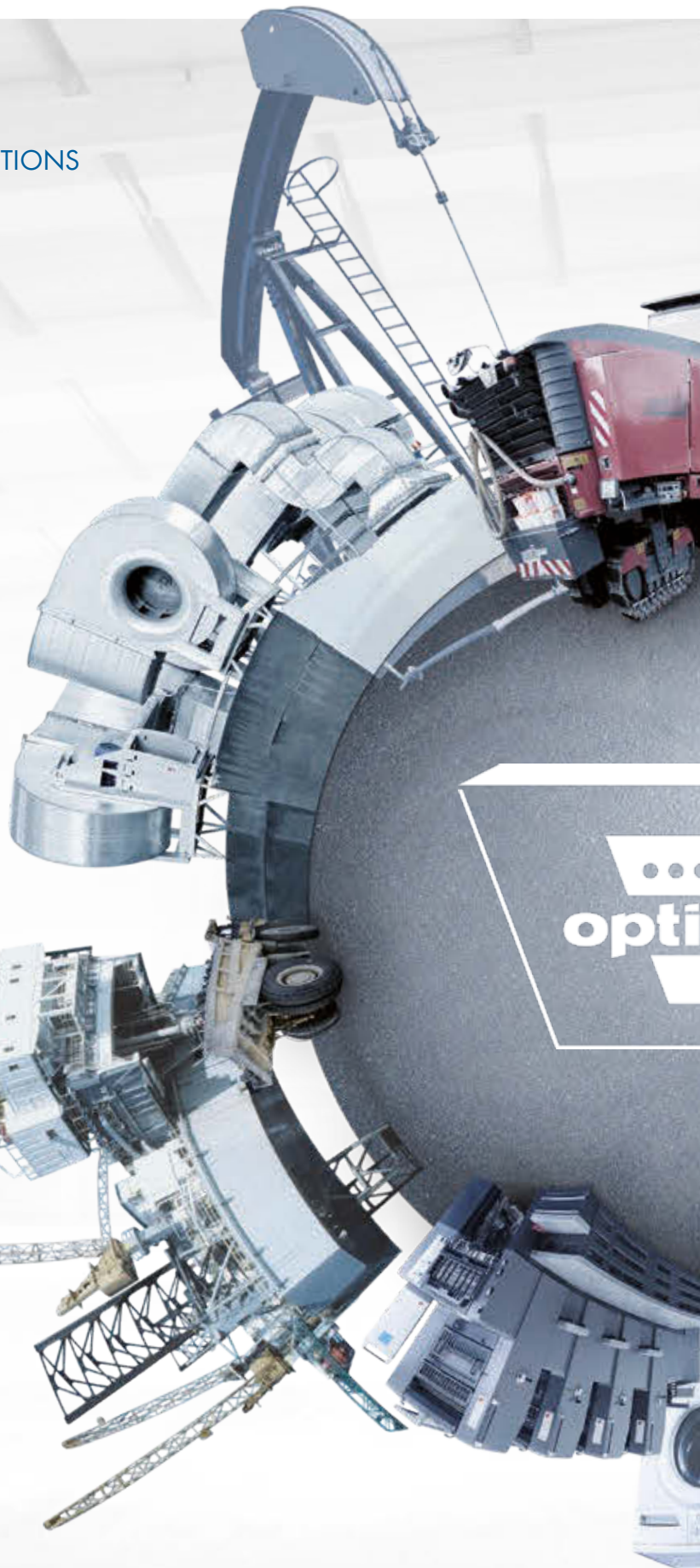
OPTIBELT'S INDUSTRY-SPECIFIC SOLUTIONS

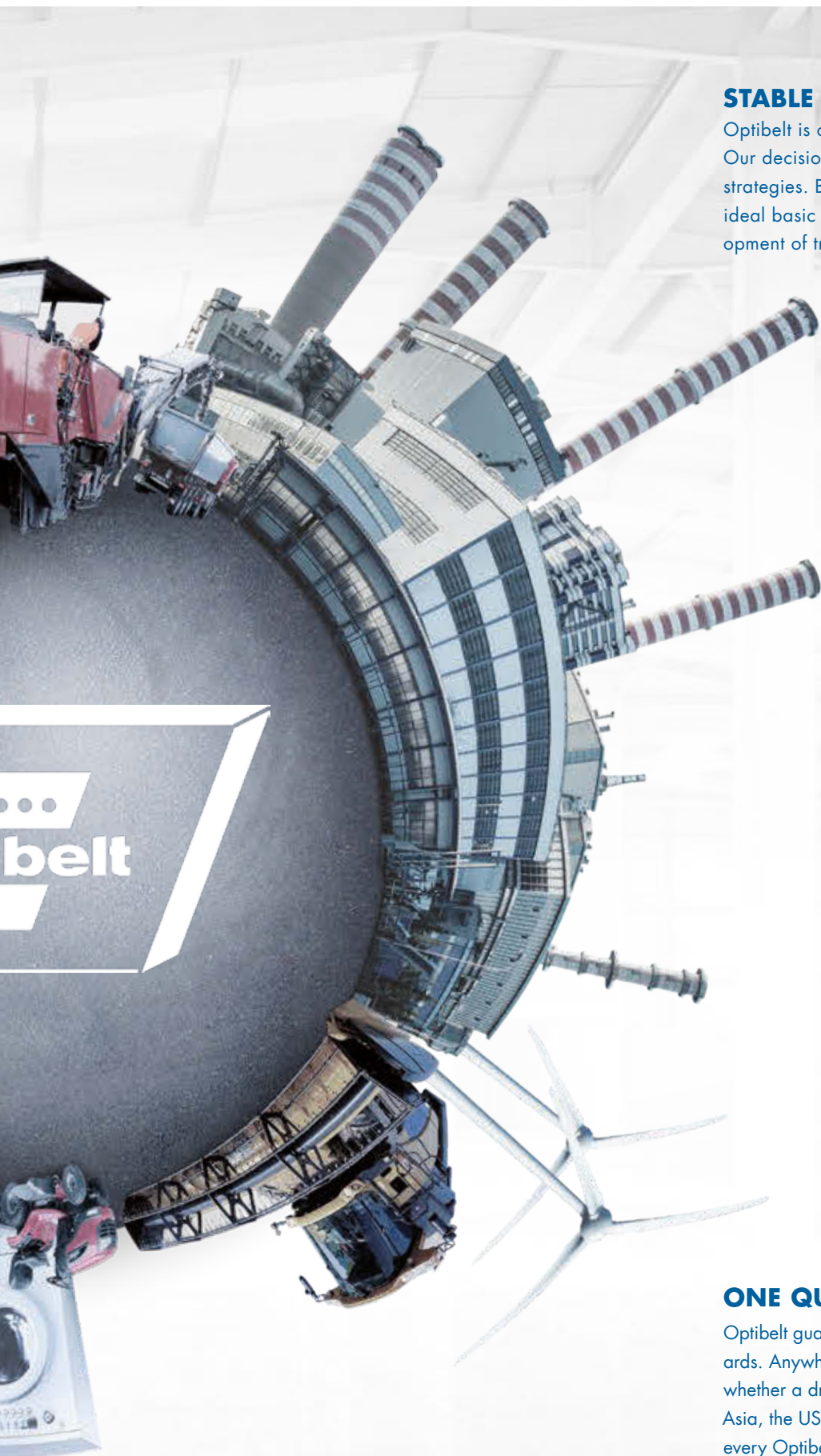
145 BRILLIANT YEARS

The range of products and services offered by Optibelt has expanded dramatically throughout the company's history, which spans 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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