



POWER TRANSMISSION

optibelt **OMEGA High Load**



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PERFECT FOR THE HIGHEST DEMANDS

OPERATIONAL RELIABILITY: LONGER SERVICE LIFE WITH SHOCK-LOADED DRIVES

Dynamic tests with **optibelt OMEGA High Load** timing belts show an up to 30% increase in performance compared with **optibelt OMEGA High Power**.



LONGER SERVICE LIFE

The special cord construction provides good resistance even when exposed to medium and high shock loading.

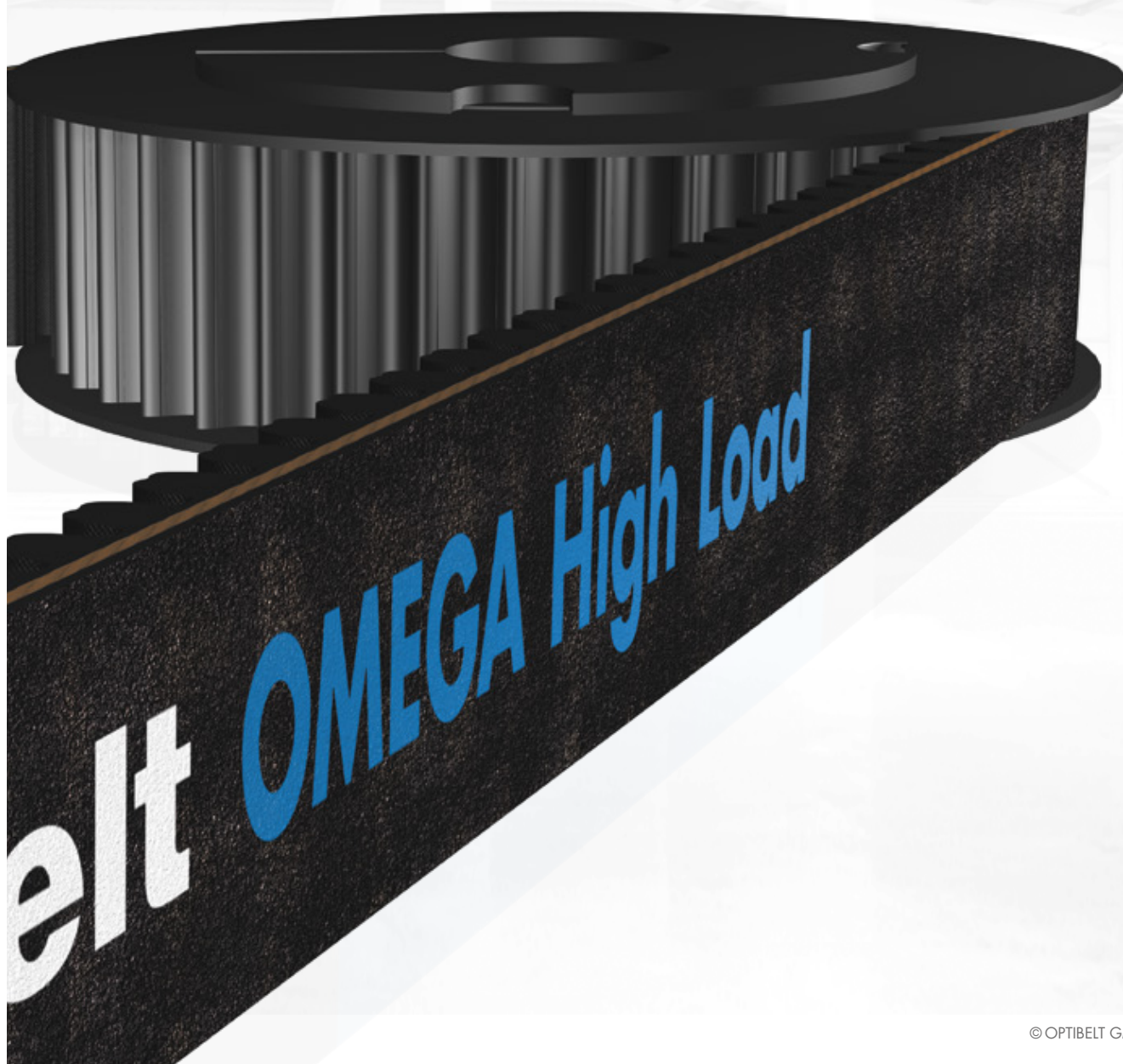
QUIET RUNNING: LESS NOISE THANKS TO FURTHER DEVELOPMENT

The optimised tooth shape and the indent in the tooth head of the **optibelt OMEGA High Load** 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



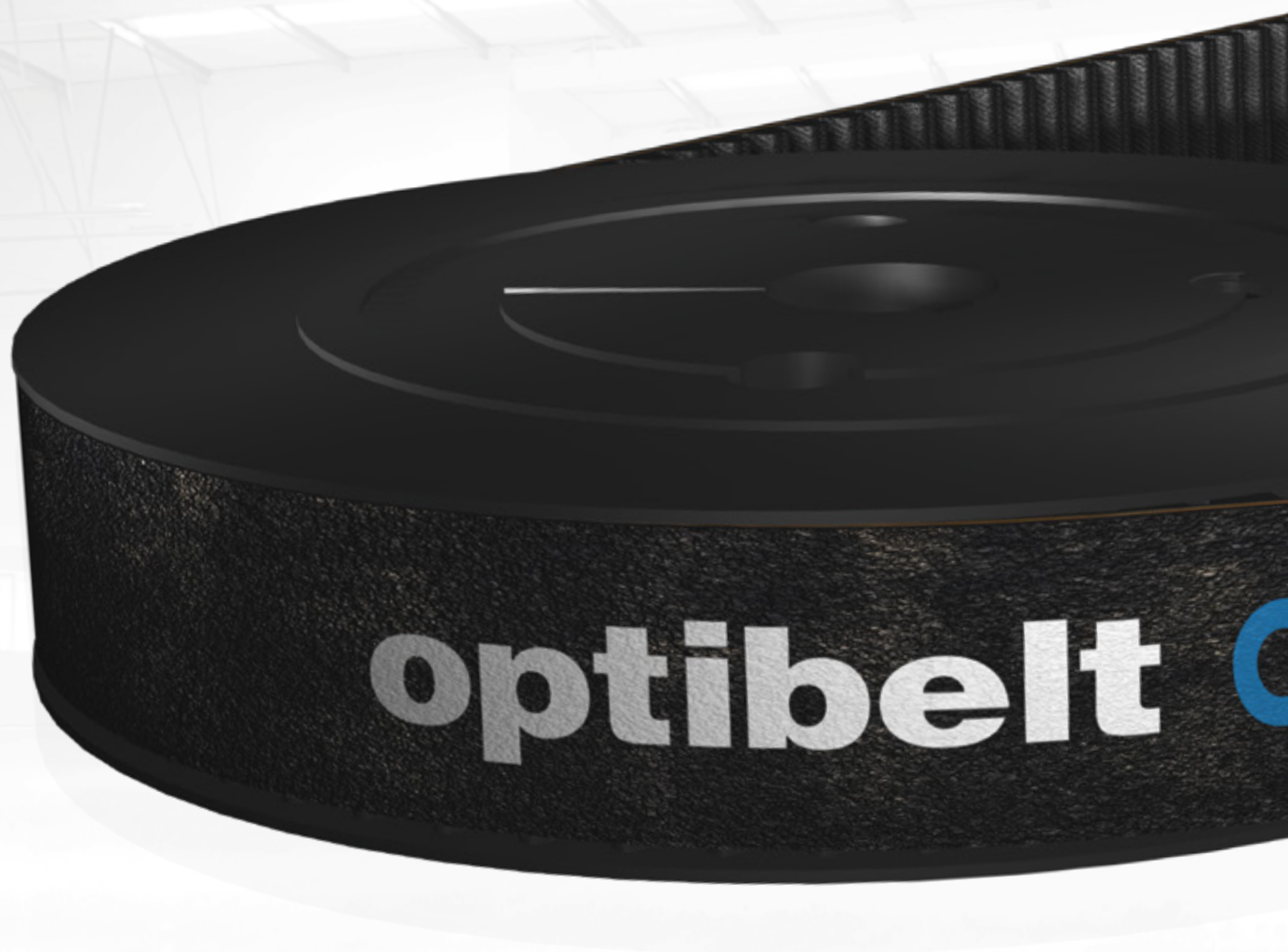
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PERFECT FOR SHOCK LOADING



TEMPERATURE RESISTANCE

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

ELECTRICAL CONDUCTIVITY: SAFE WITH NO IGNITION HAZARDS

The electrical conductivity of the **optibelt OMEGA High Load** timing belt enables electrostatic charges to be safely discharged. 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 High Load

OPTIMUM POWER TRANSMISSION

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

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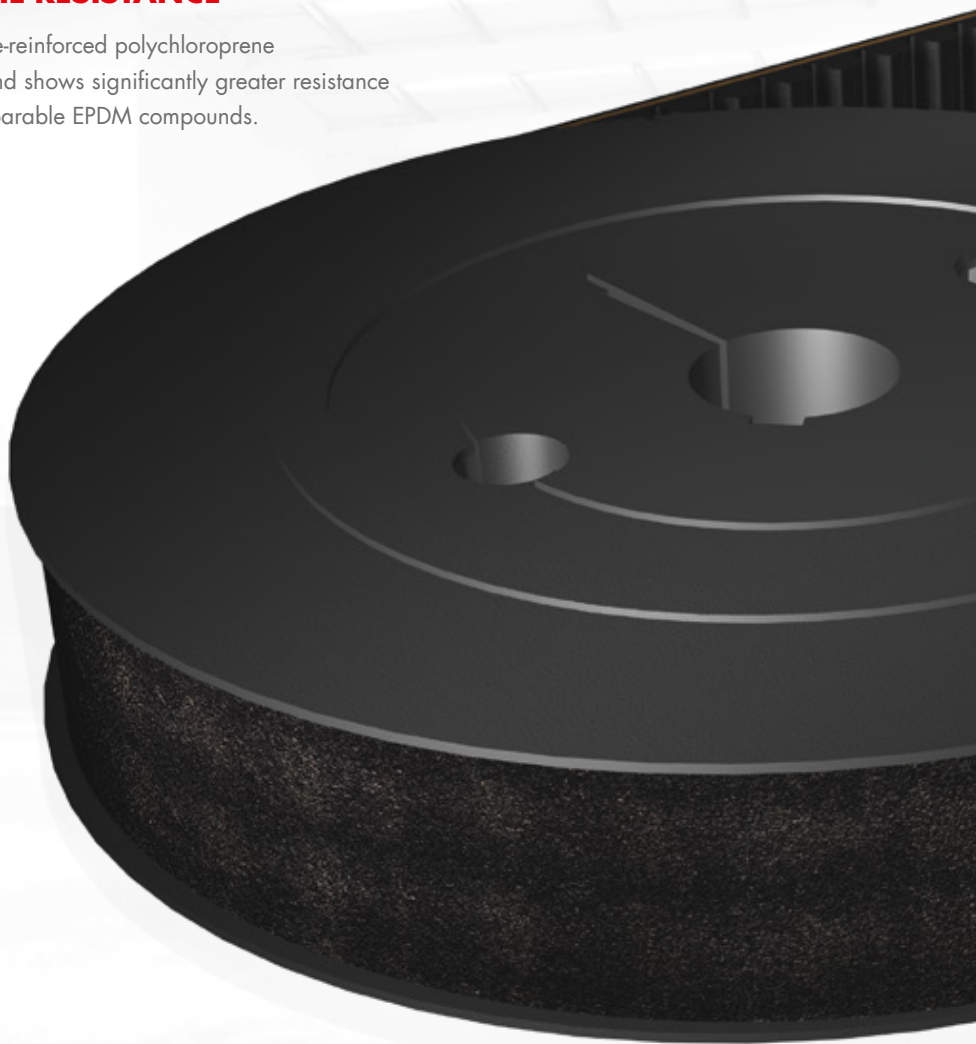
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HIGHER LOAD CAPACITY, STRONG MORE COMPACT



LIMITED OIL RESISTANCE

The aramid fibre-reinforced polychloroprene rubber compound shows significantly greater resistance to oil than comparable EPDM compounds.



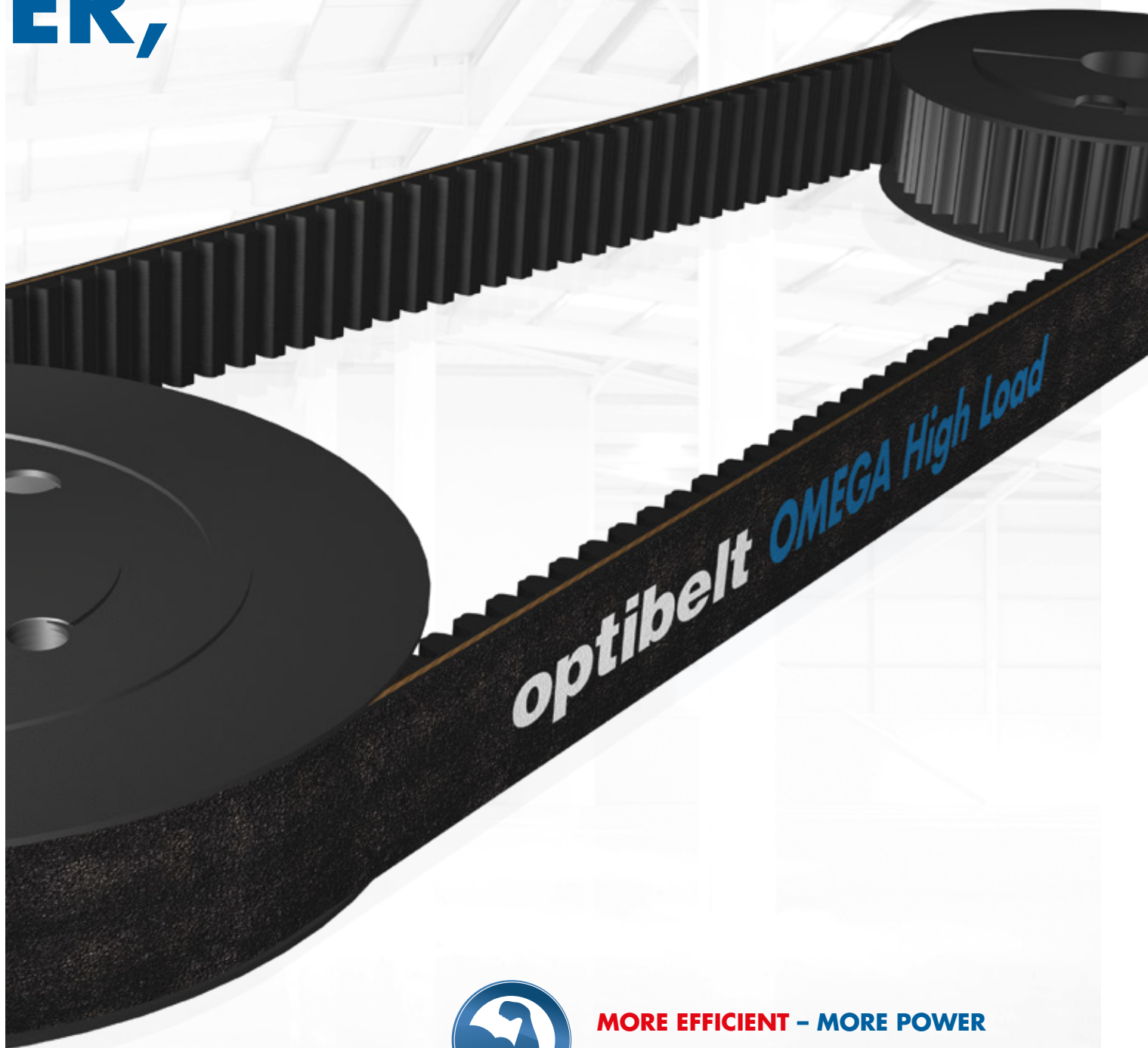
HIGHER EFFICIENCY: PRACTICALLY FRICTION-FREE DRIVE

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

OIL RESISTANCE: NO DAMAGING EFFECTS

optibelt OMEGA High Load timing belts have limited oil resistance which prevents the damaging effects of mineral oils and greases on the belts, provided that these substances are not present in large quantities and are not permanently in contact with the belts.

ER,



MORE EFFICIENT – MORE POWER

Up to 98 % efficiency

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PERFECT FOR SHOCK LOADED DRIVES

TOP SURFACE

The flexible polychloroprene rubber compound with a high proportion of aramid fibre reinforces the belt top and protects against external influences.

FABRIC

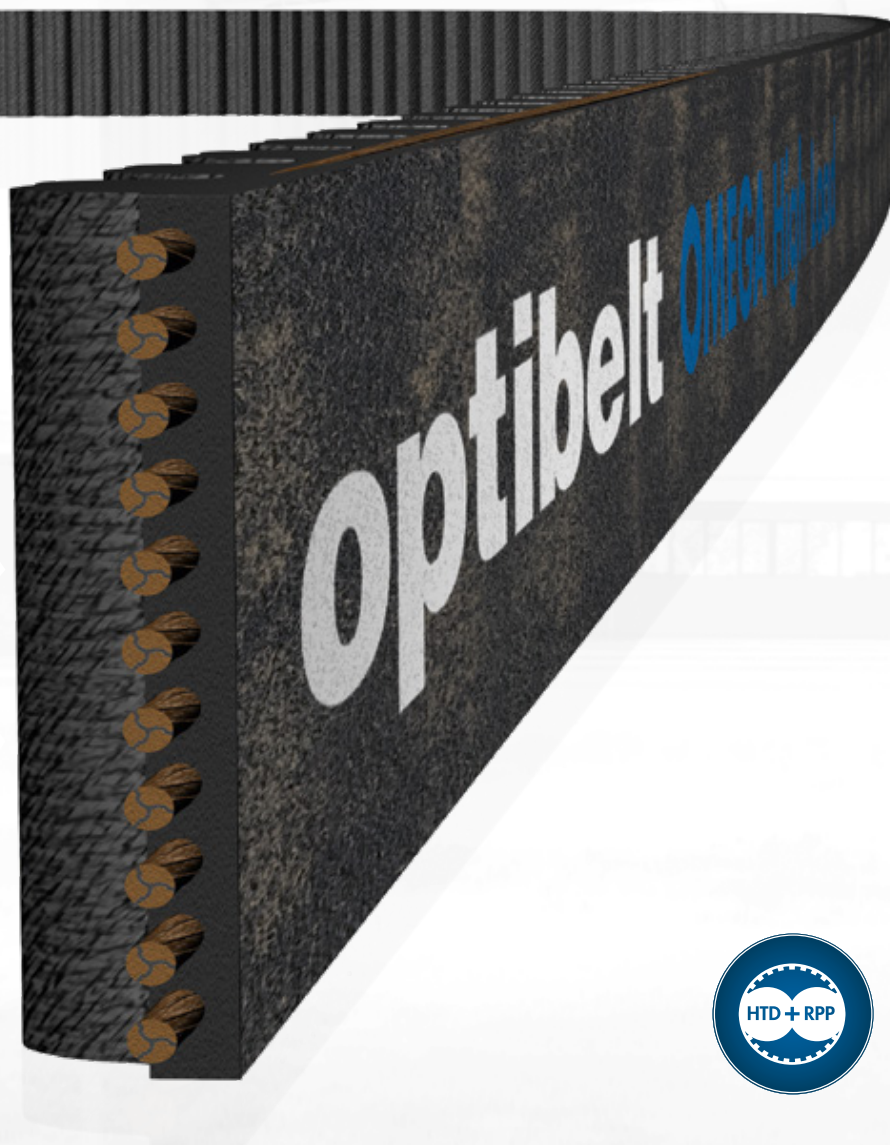
The fabric protects against early wear and reduces the noise level.

TEETH

The novel rubber compound guarantees high shear strength and improves performance.

TENSION CORD

Reinforced fibreglass tension cord with enhanced breaking strength and high resistance to shock loads



IDEAL FOR MACHINE DRIVES

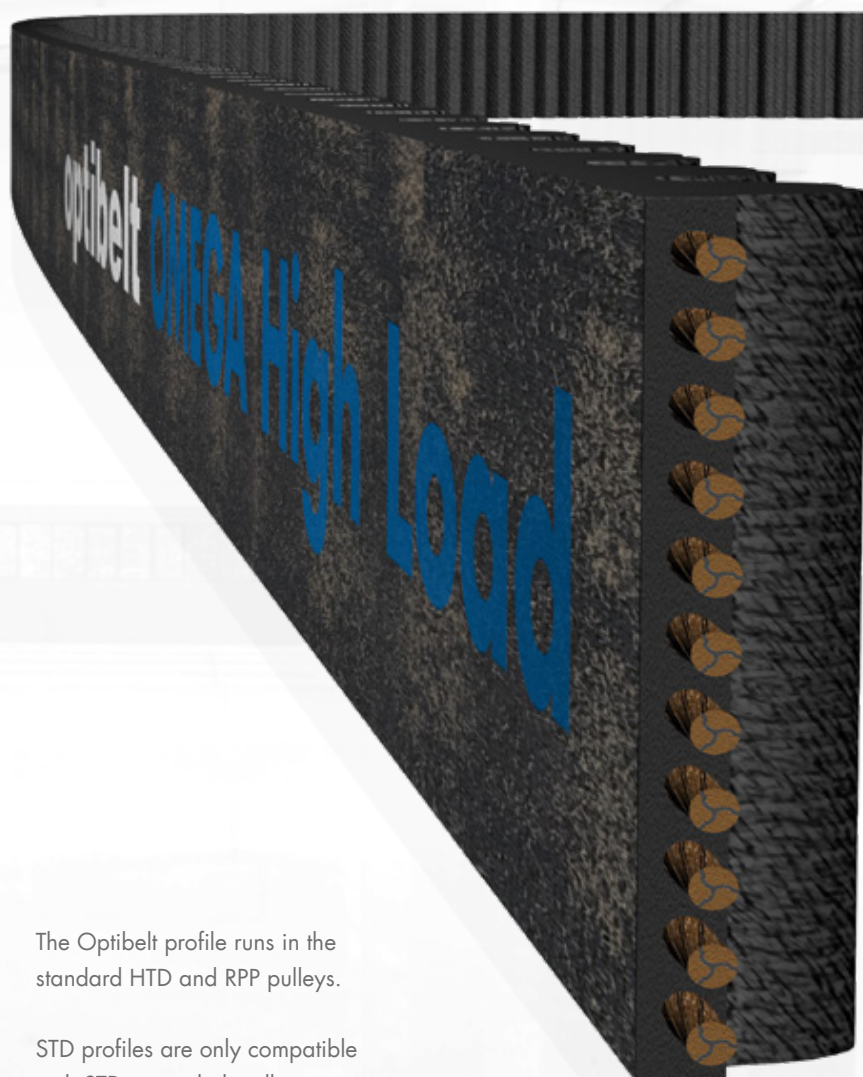
- Textile machines
- Machine tools
- Compressors
- Printing machines
- Wood processing machines
- Paper machines

PROFILES

8M	288–3600 mm
14M	966–4578 mm

S8M	288–3600 mm
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Other size available on request



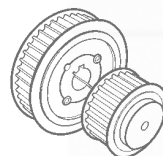
The Optibelt profile runs in the standard HTD and RPP pulleys.

STD profiles are only compatible with STD timing belt pulleys.

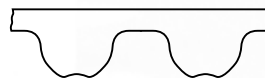
TIMING BELT PULLEYS

Standard HTD pulleys available from stock; special pulleys and STD timing belt pulleys on request.

See product list for profiles and versions.



PROFILE REPRESENTATION



Optibelt profile



STD profile

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DRIVE FOR THE FUTURE

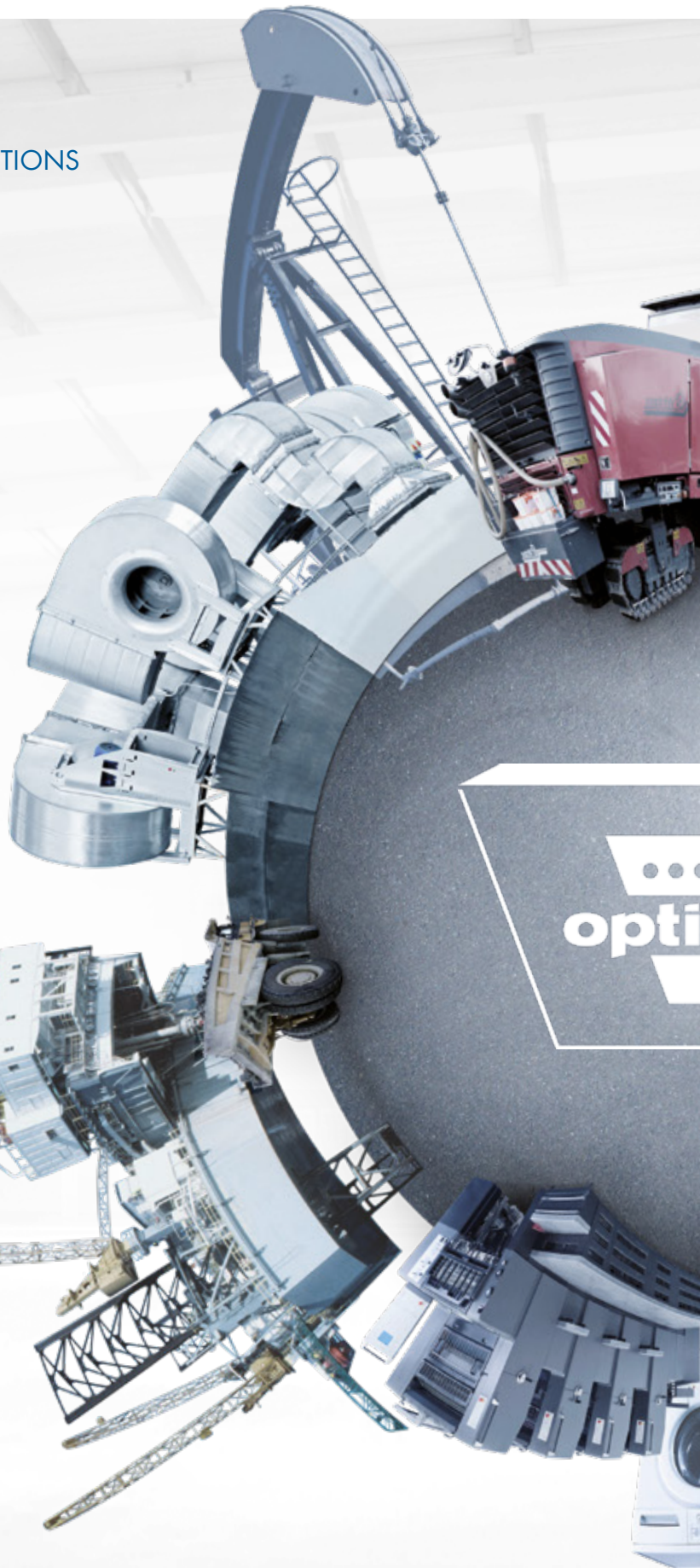
OPTIBELT'S INDUSTRY-SPECIFIC SOLUTIONS

150 BRILLIANT YEARS

With almost 150 years of development experience in a vast range of industries, Optibelt products can be used in every type of application. Our four main divisions (Power Transmission, Automotive Technology, Material Handling and Elastomer Solutions) are each able to tailor a solution for your needs and your industry.

A SOLUTION FOR EVERY PROBLEM

All industries, all applications – Optibelt is one of the leading manufacturers of high-performance drive solutions. You can find our products in industries as diverse as pharmaceutical and medical, mining, oil and gas, lawn and garden, agriculture, food production, and laundry machinery. Optibelt has the right solution for your industry and your application.



VISION

Our long-term strategic vision results in the development of industry-leading solutions for current machine applications and for future generations of machines.

ONE QUALITY

Optibelt guarantees the highest quality. Regardless of manufacturing location, the products manufactured at our eight manufacturing facilities all have the same consistently high, industry-leading quality standard. The Optibelt standard.

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