OPTIBELT CUSTOM PRODUCTS

OPTIBELT offers custom high performance products for all applications: customised products are designed to precisely meet customer’s drive application requirements. OPTIBELT engineers develop tailored drive solutions for superior efficiency and safety.

SOFTWARE TOOLS AND SPECIALIST CONSULTING

OPTIBELT’s free CAP software allows users to quickly and easily calculate their specific drives. For more complex drive systems, CAP Professional gives users the ability to perform detailed variable calculations. CAP’s efficiency calculator will also compare available drives with those already optimised.

OPTIBELT application engineers are always available to provide advice to customer’s operations around the world. They can assist in optimising the drives for entire plant operations.

SERVICE SUPPORT

To make sure that all machines run reliably, OPTIBELT also offers personal support in drive assembly, maintenance and service on site around the world. OPTIBELT’s broad range of tools, measuring devices and service tools allow for easy drive optimisation, maintenance and repair.

PRODUCTS

POWER TRANSMISSION

PULP & PAPER
“Top performance even under pressure.”
Norbert, 42, foreman

IN WORLDWIDE USE
As an effective partner in the print and paper industry, OPTIBELT has the ideal drive solution to meet even the most demanding requirements. This means that every processing step – from cutting and folding through to material transport – runs smoothly and with absolute precision. Additional factors that find approval with customers and users alike include exemplary efficiency and minimised maintenance costs. This is why OPTIBELT’s sustainable premium products can be found in use around the globe.

OPTIBELT SUCCESS STORY
LOWER COSTS THANKS TO optibelt RED POWER
Bio-Pappel is the leading manufacturer and producer of sustainable packaging, newsprint and fine papers in Mexico and Latin America. Previously, the vacuum pumps used in the company’s paper mills had caused ongoing problems due to the standard belts wearing out after eight to ten months. This led Bio-Pappel to switch to optibelt RED POWER maintenance-free, high performance wedge belts, which delivered a service life of at least 24 months. As a result of this switch, the company now makes an annual saving of around 6,000 US dollars.

OPTIBELT SUCCESS STORY
PERFECT SERVICE FROM OPTIBELT
The Canadian company Domtar specialises in the production of pulp and paper and had been plagued by problems with a powerful grinding mill used for grinding waste wood. The belts, made by another manufacturer, were slipping and causing damage to the bearings of the mill on a regular basis. OPTIBELT designed a completely new drive solution for Domtar, using four high performance optibelt BLUE POWER kraftbands, and set up the system with high precision using the optibelt TT OPTICAL frequency tension tester. The mill now runs smoothly with no breakdowns.
In the printing and paper industry there are many different and sophisticated manufacturing and finishing processes, which all impose exacting demands on the machinery. Precision, durability, reliability and optimal power transmission are decisive criteria that the relevant drive systems are expected to meet throughout the entire production chain. OPTIBELT’s high performance belts provide sustainable solutions to these challenges.
optibelt OMEGA HP
HIGH PERFORMANCE TIMING BELTS

DIMENSIONS

| 2M HP  | 74 – 1224 mm |
| 3M HP  | 111 – 1509 mm |
| 5M HP  | 180 – 2525 mm |
| 8M HP  | 288 – 3600 mm |
| 14M HP | 966 – 4578 mm |

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

• glass cord
• high performance timing belt for extremely large loads at high rotational speeds
• shear-resistant fabric with minimised wear and friction
• up to 2 times the power transmission capability of the optibelt OMEGA standard version

optibelt RED POWER 3 S=C Plus
HIGH PERFORMANCE WEDGE BELTS

DIMENSIONS

| SPZ    | 1202 – 3550 mm |
| SPA    | 1207 – 4000 mm |
| SPB    | 1250 – 8000 mm |
| SPC    | 2000 – 10,000 mm |
| 3V / 9N| 47.5 – 140 inches |

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

• maintenance-free polyester cord
• core with transverse fibres
• suitable for back-bend idlers
• up to 50% higher performance than optibelt SK, making it possible to use smaller drives

optibelt SK S=C Plus
HIGH PERFORMANCE WEDGE BELTS

DIMENSIONS

| SPZ    | 487 – 3550 mm |
| SPA    | 732 – 4500 mm |
| SPB    | 1250 – 8000 mm |
| SPC    | 2000 – 12,500 mm |
| 3V / 9N| 25 – 140 inches |

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

• polyester cord
• specially developed with general machine construction in mind
• transmits more power than the classic V-belts with comparable top width

optibelt RB
RIBBED BELTS

DIMENSIONS

| PK     | 630 – 2845 mm |
| PI     | 954 – 6096 mm |

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

• polyester cord
• high belt speeds are possible
• suitable for back-bend idlers
• PK, PI profiles also available with aramid cord
• DPK profile available

optibelt OMEGA HL
HIGH PERFORMANCE TIMING BELTS

DIMENSIONS

| 8M     | 288 – 3600 mm |
| 14M HL | 966 – 4578 mm |

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

• reinforced glass cord
• optimised absorption of shock loading
• highly resistant to dynamic loading
• very low elongation
• up to 15% more power than optibelt OMEGA HP

optibelt DELTA CHAIN Carbon
HIGH PERFORMANCE TIMING BELTS

DIMENSIONS

| 8MDC   | 640 – 1792 mm |

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

• one of the strongest timing belts on the market
• carbon cord
• alternative for chains and gear transmissions
• excellent resistance to oil and chemicals

optibelt DELTA CHAIN Carbon
HIGH PERFORMANCE TIMING BELTS

DIMENSIONS

| 8MDC   | 640 – 1792 mm |

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

• maintenance-free polyester cord
• core with transverse fibres
• suitable for back-bend idlers
• up to 50% higher performance than optibelt SK, making it possible to use smaller drives

optibelt OMEGA double-sided
TIMING BELTS

DIMENSIONS

| 8BM    | 1120 – 3600 mm |

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

• timing belt with optibelt OMEGA profile
• glass cord
• low noise
• efficiency of up to 98% suitable for power transmission with slow and fast running drive systems with no high impact loading

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THE OPTIBELT TEAM FOR DEVELOPMENT, APPLICATIONS AND SERVICE

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