

POWER TRANSMISSION CEMENT



SPECIALISTS FOR CEMENT

"OPTIBELT is a strong ally to have."

Norbert, 42, foreman

OPTIBELT SUCCESS STORY CEMENTA AB - SWEDEN

In the small Swedish town of Slite, 90 km off the coast of the Baltic Sea, resides one of the largest rock crushing operations in Europe. This is where Cementa, a Heidelberg Cement subsidiary, is located.

The crushing system uses 68 OPTIBELT S=C Plus 8V sections in lengths of 5230 to 13,280 mm. They ensure that Cementa can crush 2,000 tons of stones per hour.



OPTIBELT SUCCESS STORY YAMAMA CEMENT -SAUDI ARABIA

Yamama Cement's crusher uses two sets of 20 8V 4250 belts. The standard belts used had a maximum life of only 6 months, before maintenance was needed, which shut down operations.

The switch to the high performance and maintenance-free **optibelt RED POWER** saved the company over \$ 5,114 USD annually.

IN GLOBAL USE

As a strong partner for the cement industry, OPTIBELT has the proper solution for every application. Customer drive solutions are engineered to meet the drive's specifications and to improve performance in the conditions required. The reliability of OPTIBELT's maintenance-free high performance belts has become the new world standard.

A STRONG PARTNERSHIP The cement industry demands strength and endurance.

Cement production is a complex and challenging process, that requires enormous amounts of energy and extremely strong machinery. Stone crushing creates large amounts of sand, dust and dirt that strains machinery and drives. High performance power transmission belts capable of withstanding these conditions are essential to reducing maintenance costs.



The raw materials (limestone, clay, sand and iron ore) are extracted from the quarry. **3. RAW MILLS** All raw materials are milled together, dried and worked into raw powder.



5. COOLER The bricks are cooled down to 200 °C.





2. HAMMER CRUSHER AND MOBILE CRUSHER The raw material is broken up (limestone and marl crusher) to gravel and transported to the cement factory.



4. ROTARY KILN The raw powder is fired into bricks (at approximately 1450°C).



6. HAMMER BRICK CRUSHER The large bricks are broken up before being transported to a ball mill.



7. BALL MILLS The granules are ground together with gypsum or anhydrate to create the final product: cement.





8. CEMENT PACKAGING

The finished cement is prepared for shipping with the help of automatic packing and palletising machines.



optibelt RED POWER 3 S=C Plus

HIGH PERFORMANCE WEDGE BELTS AND KRAFTBANDS



SPZ	1202-3550 mm
SPA	1207-4000 mm
SPB	1250-8000 mm
SPC	2000-10000 mm
3V/9N	47.5–140 inches
5V/15N	53–315 inches
8V/25N	100–475 inches

Additional sizes available

SPB 2000-8000 mm SPC 3000-10000 mm

DIMENSIONS



V-GROOVED AND **KRAFTBAND PULLEYS** all standard pulleys, special pulleys on request



ADVANTAGES AND CHARACTERISTICS
• up to 50% improved performance
 maintenance-free, keeps the belt
tensioned throughout its lifespan
 also available as profile B

ing processes.

The new generation of optibelt RED

delivers impressive results: Up to 50%

greater power transmission capacity

These performance improvements are

engineered materials and manufactur-

POWER 3 V-belts and kraftbands

and cost savings of up to 35%.

the result of OPTIBELT's superior

aintenance

free

optibelt SUPER X-POWER M=S

HIGH PERFORMANCE WEDGE BELTS



optibelt VB S=C Plus

CLASSIC V-BELTS



V-GROOVED PULLEYS

special pulleys on request

all standard pulleys,

	VIENS
5	200
Y/6	295
8	335
Z/10	312
A/13	437
B/17	610
20	950
C/22	1148
25	146
D32	207
E/40	308

optibelt SK S=C Plus

HIGH PERFORMANCE WEDGE BELTS



	ווש	MEINS
	SPZ	487
	SPA	732
	SPB	125
	SPC	200
3V	/9N	25-
5V/	15N	53-
8V/	25N	100

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Additional sizes available
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optibelt BLUE POWER

HIGH PERFORMANCE WEDGE BELTS AND KRAFTBANDS with aramid cord



optibelt BLUE POWER's high tensile strength aramid cord and durable dual layered fabric wrap are ideal for industrial power applications. They are available individually, in sets, or as kraftbands.

ADVANTAGES AND CHARACTERISTICS

- the highest strength capacity offered for heavy industry use
- offers twice the power capacity
- temperature resistant up to 100°C (212 °F) and increased resistance





V-GROOVED PULLEYS all standard pulleys, special pulleys on request

of standard wedge belts



- XPZ 587-3550 mm XPA 707-3550 mm XPB 1250-3550 mm XPC 2000-3550 mm

ADVANTAGES AND CHARACTERISTICS

- high performance, low-stretch cords reduce maintenance costs
- performs up to 15% better than standard cogged wedge belts
- excellent resistance to oil and heat
- M=S Matched Sets
- low maintenance



DIMENSIONS

)-610 mm -865 mm 5-1270 mm -2522 mm -5030 mm -7140 mm 0-6050 mm 18-8058 mm 60-9060 mm 75–11 275 mm 80-12580 mm

Additional sizes available

Classic **optibelt VB** feature S=C Plus length tolerances that are superior to industry accepted matched sets. They are an ideal solution for use on standard mechanical operations.

ADVANTAGES AND CHARACTERISTICS

- excellent operational reliability
- optimal running characteristics
- friction-resistant cover fabric
- available in a complete range of section sizes and lengths

-3550 mm -4500 mm 0-8000 mm 00-12500 mm - 140 inches -355 inches -500 inches



ADVANTAGES AND CHARACTERISTICS

- manufactured to DIN/ISO/BS standards
- higher efficiency rate compared to other standard wedge belts

THE OPTIBELT TEAM FOR DEVELOPMENT, APPLICATIONS AND SERVICE



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.



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.

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