



**POWER TRANSMISSION
CEMENT**



SPECIALISTS



“Optibelt is a strong ally to have.”

Norbert, 42, foreman

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.

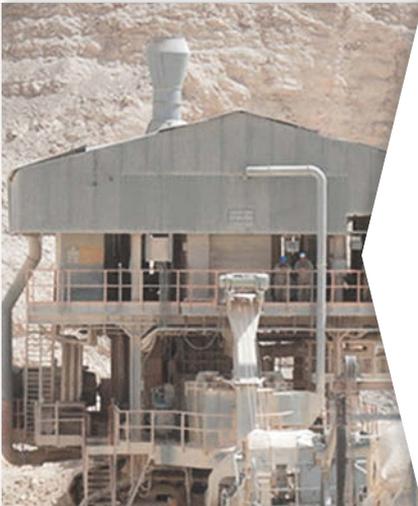
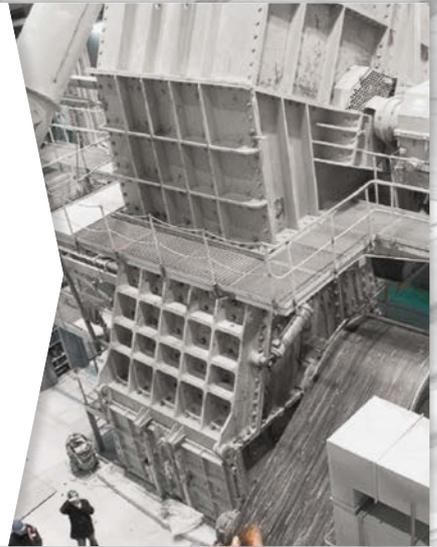
FOR CEMENT

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.

A STRONG PARTNER

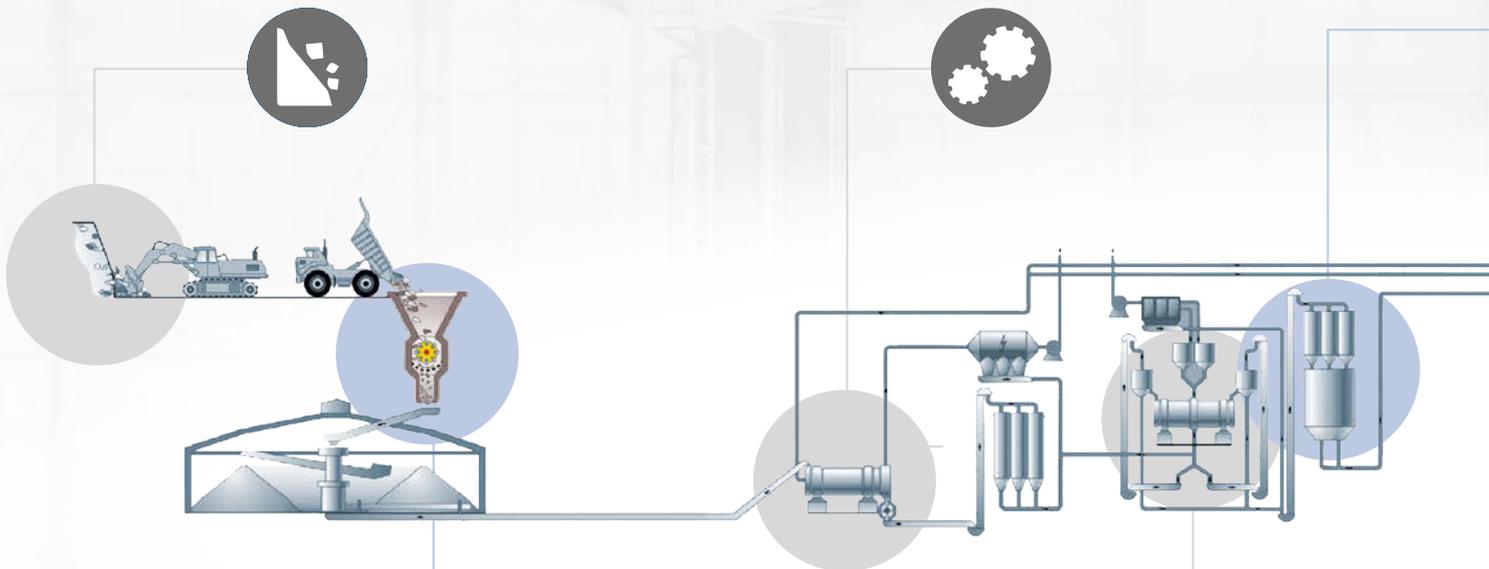
The cement industry demands strength and

1. QUARRIES

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.



2. HAMMER CRUSHER AND MOBILE CRUSHER

The raw material is broken up (limestone and marl crusher) to gravel and transported to the cement factory.



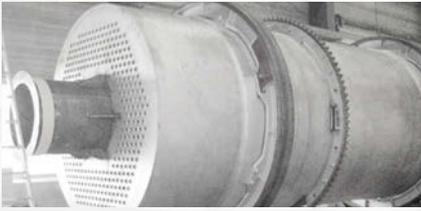
4. ROTARY KILN

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



RSHIP d 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.



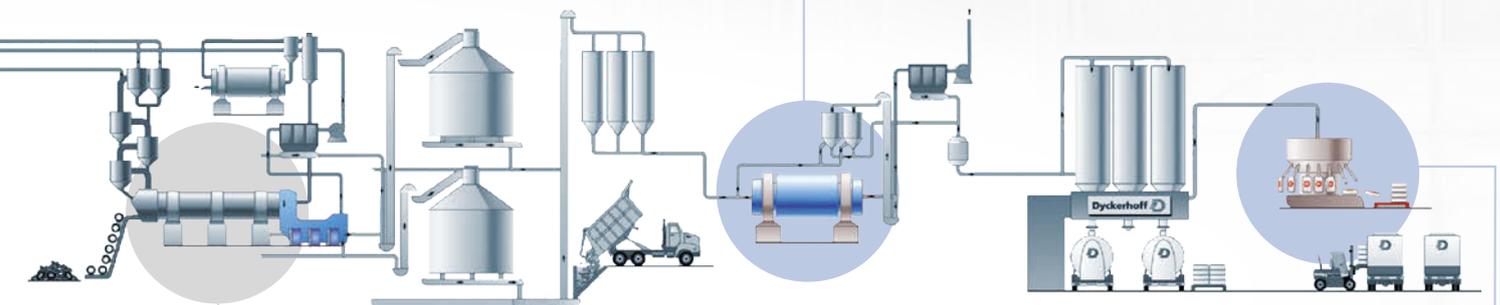
5. COOLER

The bricks are cooled down to 200 °C.



7. BALL MILLS

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



6. HAMMER BRICK CRUSHER

The large bricks are broken up before being transported to a ball mill.



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

maintenance-free



DIMENSIONS

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

The new generation of V-belts and kraftbands **optibelt RED POWER 3** delivers impressive results: Up to 50% greater power transmission capacity and cost savings of up to 35%. These performance improvements are the result of OPTIBELT's superior engineered materials and manufacturing processes.

ADVANTAGES AND CHARACTERISTICS

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



DIMENSIONS

SPB	2000–8000 mm
SPC	3000–10000 mm
3V/9J	50–140 inches
5V/15J	56–315 inches
8V/25J	100–475 inches

V-GROOVED AND KRAFTBAND PULLEYS

all standard pulleys,
special pulleys on request



optibelt BLUE POWER

HIGH PERFORMANCE WEDGE BELTS AND KRAFTBANDS

with aramid cord



DIMENSIONS

SPB	1500–8000 mm
SPC	2000–9000 mm
8V/25N	160–355 inches

Additional sizes available

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 of standard wedge belts
- temperature resistant up to 100 °C (212 °F) and increased resistance to chemicals



DIMENSIONS

SPB	2000–8000 mm
SPC	3000–10000 mm
5V/15J	80–315 inches
8V/25J	100–475 inches

V-GROOVED AND KRAFTBAND PULLEYS

all standard pulleys,
special pulleys on request



optibelt SUPER X-POWER M=S

HIGH PERFORMANCE WEDGE BELTS



V-GROOVED PULLEYS

all standard pulleys,
special pulleys on request



DIMENSIONS

XPZ	587–3550 mm
XPA	707–3550 mm
XPB	1250–3550 mm
XPC	2000–3550 mm
3VX/9NX	25–140 inches
5VX/15NX	50–140 inches

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

optibelt VB S=C Plus

CLASSIC V-BELTS



Also available as kraftband

V-GROOVED PULLEYS

all standard pulleys,
special pulleys on request



DIMENSIONS

5	200–610 mm
Y/6	295–865 mm
8	335–1270 mm
Z/10	312–2522 mm
A/13	437–5030 mm
B/17	610–7140 mm
20	950–6050 mm
C/22	1148–8058 mm
25	1460–9060 mm
D32	2075–11 275 mm
E/40	3080–12 580 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

optibelt SK S=C Plus

HIGH PERFORMANCE WEDGE BELTS



Auch als Kraftband erhältlich

V-GROOVED PULLEYS

all standard pulleys,
special pulleys on request



DIMENSIONS

SPZ	487–3550 mm
SPA	732–4500 mm
SPB	1250–8000 mm
SPC	2000–12 500 mm
3V/9N	25–140 inches
5V/15N	53–355 inches
8V/25N	100–500 inches

Additional sizes available

The **optibelt SK** can transfer power at a rate of almost 97% efficiency. The S=C Plus tolerances ensure minimal installation maintenance.

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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