



POWER TRANSMISSION
ROAD CONSTRUCTION



SPECIALISTS



“So it holds
together well.”

Norbert, 42, foreman

USED WORLDWIDE

As a strong partner in the road construction industry, Optibelt not only understands the demands and requirements with regard to drive solutions, but sets new standards in the field.

Our drive belts run absolutely reliably during any type of weather with a maximum level of power transmission.

It is not without reason that the high performance belts by Optibelt are used worldwide.

FOR ASPHALT

OPTIBELT SUCCESS STORY

OPTIMAL PERFORMANCE UNDER EXTREME CONDITIONS

The industrial group Atlas Copco had been experiencing continued problems, at its Indian subsidiary, with its range of plate compactors. The belts used there could not cope with the harsh demands of road construction, and excessive wear resulted in costly machinery downtime. Since switching over to **optibelt SUPER E-POWER** high performance V-belts, the plate compactors work more precisely and efficiently.

The significantly longer service life of the **optibelt SUPER E-POWER** has also brought about a sustainable reduction in costs.



OPTIBELT SUCCESS STORY

RELIABLE USE ON HIGHWAYS IN THE USA

For 15 years, the group Astec Industries has been producing, among other things, patented road milling machines for road construction whose special requirements have caused failure of V-belts again and again. After performing calculations and field tests under the most extreme of conditions, Optibelt application engineers suggested using special Optibelt kraftbands with aramid cord.

Changing over to **optibelt BLUE POWER** high performance belts guarantees that road milling machines will work at a smooth rhythm.

TEAMPLAYER

In road construction, one V-belt affects the

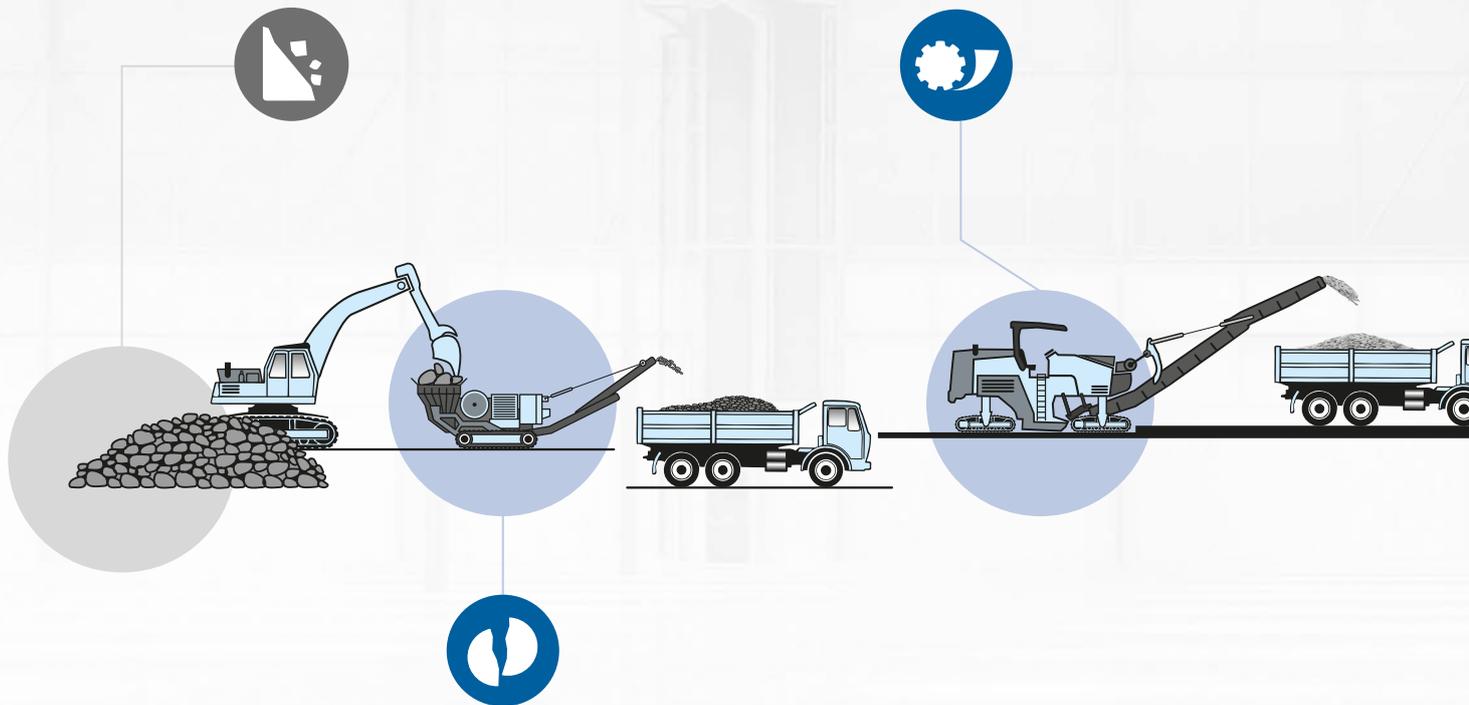


1. THE SUBSTRUCTURE

For instance, this is attained from stone quarries and fed into the crusher to make it usable.

3. COLD MILLING

The asphalt milling machine removes the substructure (asphalt cover layer) and loads the lorry with granulated asphalt.



2. MOBILE CRUSHER

Save on resources with mobile processing.

The crushing and processing of both natural stone from quarries and removed asphalt rubble (cover and base layer) can be carried out.



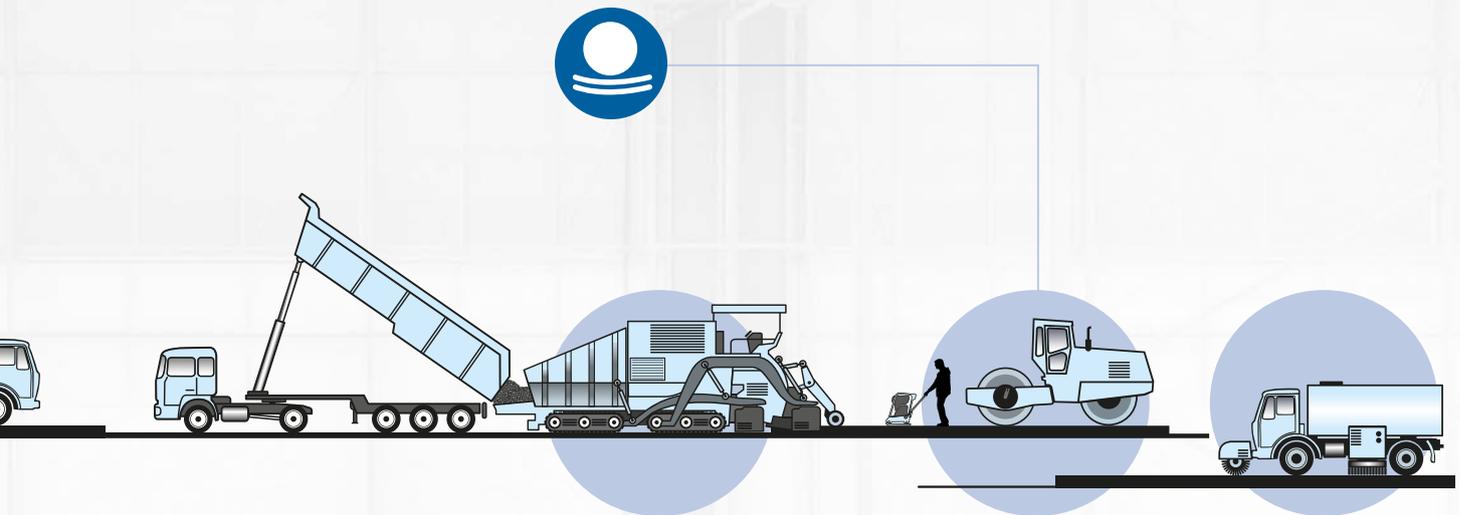
other.

Road construction of the 21st century is more demanding than ever and the equipment must be able to face any type of situation despite this growing set of requirements. In this connection, a trouble-free production flow and a minimised level of maintenance effort is extremely important. This is where Optibelt solutions come into play due to the fact our professional drive belts are not only suitable for the harshest of conditions but are also true heavyweights.



5. ROLLER / VIBRATING COMPACTOR

The roller compactors and vibratory plate compactors compact the asphalt layer to ensure the appropriate level of load capacity and durability.



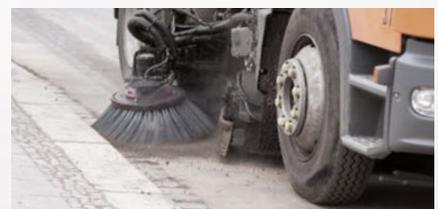
4. ROAD PAVER

The asphalt road paver is loaded with an asphalt mixture and applies it as a cover.



6. CHASSIS MOUNTED SWEEPER

The chassis mounted sweeper ensures an optimally clean result during both the construction phase as well as after completion.



optibelt RED POWER 3

HIGH PERFORMANCE WEDGE BELTS AND KRAFTBANDS

maintenance-free



V-GROOVED AND KRAFTBAND PULLEYS

all standard pulleys,
special pulleys on request



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

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

- up to 50% higher performance
- maintenance-free, optimal tension during entire life span
- smooth interplay:
belts – edge – V-grooved pulleys
- suitable for idler pulleys
- V-belts in reliable S=C Plus quality

optibelt BLUE POWER

HIGH PERFORMANCE WEDGE BELTS AND KRAFTBANDS

with aramid cord



V-GROOVED AND KRAFTBAND PULLEYS

all standard pulleys,
special pulleys on request



DIMENSIONS

SPB	1500–8000 mm
SPC	2000–9000 mm
5V/15J	80–315 inches
8V/25N	160–355 inches

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

- compact construction with a favourable cost in comparison to drives with conventional wedge belts possible
- approx. 100% more performance with respect to Optibelt standard wedge belts
- temperature resistance up to 100°C, highly resistant to the effects of chemicals
- suitable for idler pulleys

optibelt SUPER E-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

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

- minimised loss of pretensioning force
- M=S Matched Sets, can be installed without measuring
- temperature resistant from –40°C to +120°C

optibelt SUPER X-POWER

HIGH PERFORMANCE WEDGE BELTS AND KRAFTBANDS



V-GROOVED AND KRAFTBAND 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

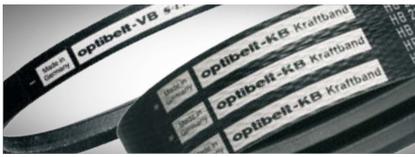
Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

- highest level of performance, extremely low stretch
- optimised running characteristics
- excellent resistance against oil and heat
- low level of maintenance
- V-belts in the tried and tested M=S quality

optibelt VB

CLASSIC V-BELTS AND KRAFTBANDS



V-GROOVED AND KRAFTBAND PULLEYS

all standard pulleys,
special pulleys on request



DIMENSIONS

A/13	437–5030 mm
B/17	610–7140 mm
C/22	1148–8058 mm
D/32	2075–11 275 mm
E/40	3080–12 580 mm

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

- excellent level of operational reliability
- optimal running characteristics
- abrasion resistant cover fabric
- special drives are feasible, such as V-flat drives
- variety of special constructions
- V-belts in reliable S=C Plus quality

optibelt SK

HIGH PERFORMANCE WEDGE BELTS AND KRAFTBANDS



V-GROOVED AND KRAFTBAND 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

Other profiles + dimensions on request

ADVANTAGES AND CHARACTERISTICS

- wrapped wedge belts with abrasion resistant cover fabric
- up to 97% efficiency
- variety of special constructions
- high level of power transmission
- V-belts in reliable S=C Plus quality

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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