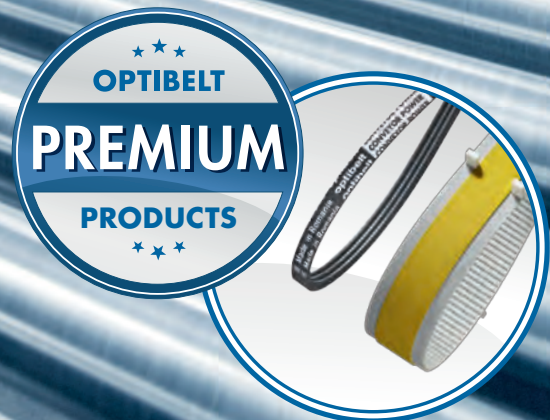




POWER TRANSMISSION TRANSPORT AND LOGISTICS



SPECIALISTS

A man with a beard, wearing a white hard hat and a blue work jacket, is talking on a mobile phone. He is holding a tablet in his left hand. The background is a large, open warehouse with a high ceiling and metal beams.

"We get
things rolling."

Norbert, 42, Warehousing Specialist

IN WORLDWIDE USE

As an effective partner in the transport and logistics industry, Optibelt has the ideal drive solution to meet even the most demanding requirements. Reliability, precision and efficiency are in great demand in this industry.

Here, the maintenance-free, high performance belts and the high performance special ribbed belts from Optibelt have proven their worth in numerous applications and are therefore used worldwide.

FOR LOGISTICS

OPTIBELT SUCCESS STORY

STRONG CONNECTIONS



A European manufacturer of ultra-modern conveying equipment was looking for a reliable original equipment manufacturer for its advanced drive solutions. After comprehensive checks and approval tests, the company decided in favour of Optibelt.

The company was impressed not only by the high performance qualities and wide range of application options of the **optibelt CONVEYOR POWER** range, but also by the comprehensive and customised advice provided by the Optibelt team.

OPTIBELT SUCCESS STORY

HIGH PERFORMANCE QUALITY

High-bay storage and retrieval units allow for getting the most from your material flow. Down times due to wear and tear or maintenance, however, cause unneeded cost pressure. For this reason, an internationally positioned manufacturer of these units is placing its confidence on the high performance quality belts of the **optibelt ALPHA LINEAR** and **optibelt ALPHA V SPECIAL** (with coatings or cleats) lines. The tensile force, precision and longevity of these belts won this manufacturer over, in addition to Optibelt's fast service and custom-fit consultation.



PERFECTLY CO

Achieving a smooth material flow, from goods receipt to goods issue, is a complex task which can only be fulfilled with precisely planned and smoothly functioning conveying technology. Every fault in the distribution, every delay in sorting, and every down-

1. CURVED BELTS

In order to divert the material to be conveyed, various curved systems with different drive elements are used, whereby flexible ribbed belts are employed in most cases.



2. DRIVES

The roller conveyors are driven by geared motors, which transfer their power through timing belts to the individual sections.



3. PASSAGEWAYS

Here, hinged systems are used, which operate using timing belts, round belts or ribbed belts.



11. DISCHARGE ELEMENTS

Driven by timing belts or ribbed belts, the material is transferred to the neighbouring conveyor.

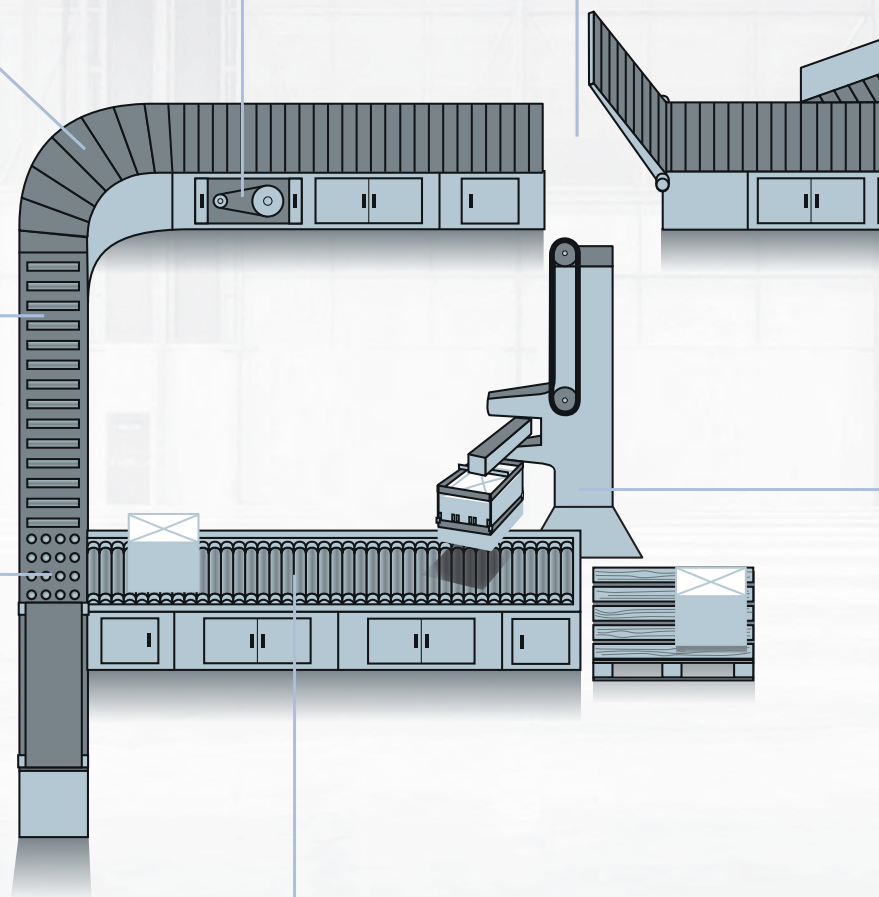


10. TRANSFER ELEMENTS

With the aid of transfer elements, packages are transferred from the flow direction to the next roller conveyor and also integrated in the existing flow.

9. ROLLER CONVEYORS

Timing belts, round belts, V-belts, flat belts and ribbed belts are used here to drive the rollers.



UNVEYED

At the right place at the right time.

time results in high costs which can be avoided by the use of high-quality engineering components. This is where Optibelt's innovative drive solutions come into play. With their help, demanding challenges like this can be managed sustainably.

4. FEED ELEMENTS

When connecting two roller conveyors, feed elements are integrated. Here, round belts or ribbed belts are used for driving the individual rollers.



5. CURVED CONVEYORS WITH VERTICAL SHAFT

To transfer the conveyed material, curved conveyors with vertical shaft are used, for example, and the rollers are connected to this with a round belt.



6. HIGH-BAY STORAGE AND RETRIEVAL UNITS

Even in the tightest of spaces, high performance storage and retrieval units ensure efficient handling of goods.



8. PALLETISER

Extremely precise and quick – modern palletising systems allow sustainable and reliable optimisation of intralogistics.



7. LIFTING DEVICES

Height differences are overcome with the aid of lifting devices which operate using timing belts or flat belts.

optibelt CONVEYOR POWER RB

STANDARD RIBBED BELTS



RIBBED BELT PULLEYS

Standard range,
special pulleys on request.



DIMENSIONS

Available in profiles
PH; PJ; PK

Lengths on request

ADVANTAGES AND CHARACTERISTICS

- Combines the high flexibility of flat belts with the high performance of V-belts
- Small pulley diameters
- High belt speeds possible
- Good frictional power transmission and excellent performance
- Insensitive to torque impulses and short-term overloading
- Temperature resistant from -40°C to +80°C *

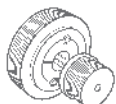
optibelt CONVEYOR POWER ERB

ELASTIC RIBBED BELTS



RIBBED BELT PULLEYS

standard range,
special pulleys on request



DIMENSIONS

246, 256, 263, 265, 272, 276, 282,
286, 292, 296, 302, 306, 316, 326,
336, 346, 356, 366, 376, 386, 402,
426, 436, 446, 456, 476, 536, 660,
676, 736

These and other lengths
in the EPH; EPJ profiles

Other lengths on request

ADVANTAGES AND CHARACTERISTICS

- Installation with fixed shaft distance
- Good damping performance and shock load resistance due to high elasticity of belt
- Maintenance-free, and no retensioning required
- Easy assembly in service areas
- Allows individual design of tension and elongation characteristics
- Temperature resistant from -40°C to +80°C *

optibelt CONVEYOR POWER VB S=C Plus

SPECIAL V-BELTS



V-GROOVED PULLEYS

all standard pulleys,
special pulleys on request



DIMENSIONS

B / 17 610–7140 mm
23–280 inches

More profiles and dimensions
on request

ADVANTAGES AND CHARACTERISTICS

- The components used are adjusted to the Optibelt PN rated outputs
- Values are considerably higher than those of DIN 2218
- For existing drives, particularly for critical ones, even higher operating reliability is achieved
- Overloads are avoided

* Constructional measures are to be taken on the application side.

optibelt RR/RR Plus/HRR

PLASTIC ROUND BELTS



PULLEYS: SEE BROCHURE
optibelt RR/RR Plus/HRR

DIMENSIONS

Optibelt round belts are available with various degrees of hardness and different surface structures and can be manufactured with diameters ranging from 2 to 20 mm.

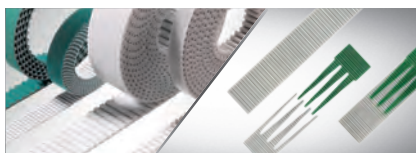
Minimum lengths, welded:
200 to 400 mm, depending
on the diameter

ADVANTAGES AND CHARACTERISTICS

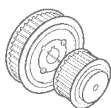
- Welding takes place on site. This also applies to the **optibelt RR Plus** version.
- No disassembly of the drive/shafts
- Quick rectification of breakdowns
- Short downtimes
- Immediate availability
- Even faster installation thanks to the **optibelt HRR** connector system

optibelt ALPHA LINEAR/ALPHA V

TIMING BELTS



TIMING BELT PULLEYS
all standard pulleys,
special pulleys on request



DIMENSIONS

T5; T10; T20; AT5; AT10; AT20; XL; L;
H; XH; T5K6; T10K6; T10K13; AT5K6;
AT10K6; AT10K13; F2; F2.5; F3; F4.5;
5M; 8M; 14M

Welded, from 400 mm depending on
profile and width

LINEAR 8ML; 14ML; 14MLP; ATL5;
ATL10; ATL20; FL3

ADVANTAGES AND CHARACTERISTICS

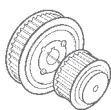
- Lengths can be manufactured according to gradations in pitch
- Ideal for transport drives
- PU also available with FDA approval for food contact
- Direct welding on of cleats and V-guides possible
- High tensile strength with low elongation
- High-precision positioning

optibelt ALPHA SPECIAL

TIMING BELTS WITH COATINGS, WITH CLEATS AND WITH MECHANICAL PROCESSING



TIMING BELT PULLEYS
all standard pulleys,
special pulleys on request



PRECONDITIONS

An individual feasibility check may be
required depending on the profile and
belt length.

ADVANTAGES AND CHARACTERISTICS

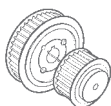
With customer-specific modifications,
the belts can be perfectly matched to the
properties of the conveyed goods.
A combination of coating, mechanical
processing and cleats is usually possible,
but must be checked for feasibility.

optibelt ALPHA FLEX

TIMING BELTS – MANUFACTURED AS OPEN ENDED BELTS



TIMING BELT PULLEYS
all standard pulleys,
special pulleys on request



DIMENSIONS

T5; T10; T20;
AT5; AT10; AT20;
5M; 8M; 14M;
H

Lengths from 1100 to 22000 mm,
depending on profile

ADVANTAGES AND CHARACTERISTICS

- Length range can be manufactured according to gradations in pitch
- Option of polyamide fabric on the tooth side for belts at least 1500 mm long
- Available with S or Z cord twist
- Also available as double sided profiles

THE OPTIBELT TEAM FOR DEVELOPMENT, APPLICATIONS AND SERVICE



SOFTWARE TOOLS AND SPECIALIST CONSULTING

Optibelt's free CAP software allows users to calculate their specific drives quickly and easily. 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 customers' 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 measuring devices and service tools allow 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 customers' drive application requirements. Optibelt engineers develop tailored drive solutions for superior efficiency and safety.

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