



**MATERIAL HANDLING
PACKAGING**



SPECIALISTS

“Perfectly packaged
from start to finish.”

Paul, 46, Head of Engineering Design

PU approved
to EU compliance
10/2011 and FDA

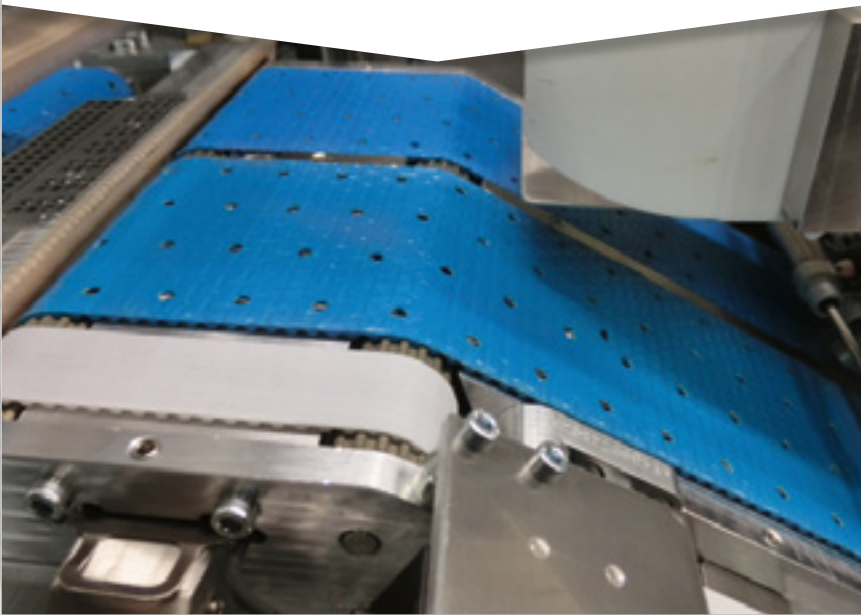
IN WORLDWIDE USE

The packaging industry is extremely diverse and uses various different materials such as paper, cardboard, glass, plastic, metal and wood. The equipment used for packaging goods safely, quickly and efficiently for transport is correspondingly complex. As an experienced business partner in the packaging industry, Optibelt applies its innovative drive systems to provide ideal solutions which maximise efficiency and minimise maintenance costs. This is why Optibelt's premium products can be found in use around the globe.

FOR PACKAGING

OPTIBELT SUCCESS STORY

PERFECT PRECISION



As a leading European manufacturer of packaging machinery, Optima nonwovens GmbH based in Schwäbisch Hall in Germany supplies packaging machines for sanitary paper articles to the Far Eastern market. To ensure that the packaging film is fed through these machines with great precision, the company uses vacuum timing belts made by Optibelt. The significant feature here is the impressed top-surface structure, which was specially developed for this application with the help of Optibelt. The depth of the impressions produces a circular suction effect on the belt top surface, allowing the film to be transported quickly and efficiently.

OPTIBELT SUCCESS STORY

MADE IN GERMANY

In its search for high-quality products, a German manufacturer of palletiser machines chose Optibelt as its original equipment manufacturer, for "Made in Germany" quality. The company was impressed not only by the high quality of the products from the **optibelt ALPHA V** and **optibelt ALPHA FLEX** ranges, but also by Optibelt's customer-specific advice and ability to find ideal solutions.



SAFELY PACKAGING

Your goods are important to us.



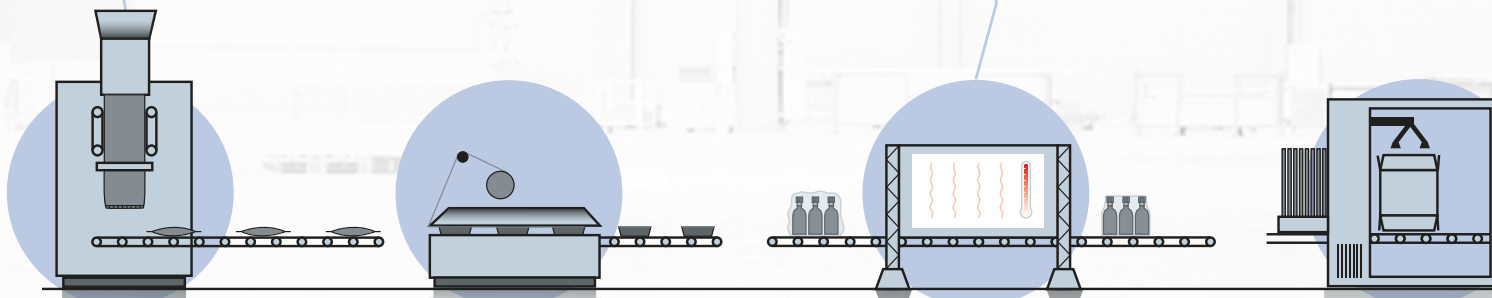
1. TUBULAR BAGS

The process necessitates speed and precision.



3. SHRINK PACKAGING UNIT

The film clings tightly to the goods, protecting and stabilising them.



2. SEALING MACHINE

Ensures safe, hygienic transport



4. CASE ERECTOR

Fully automated box forming and sealing



GED

The packaging industry plays a key role as an important link between production and the end consumer. The level of ingenuity applied in this industry is correspondingly high, since the packaging not only needs to adapt to changing customer requirements – for handling, for example. It also has to meet the stringent legal requirements regarding hygiene regulations, ecological sustainability and resource conservation. Transport speed and storage efficiency are also important aspects in the packaging industry, both of which are mastered in exemplary fashion thanks to the use of ultra-modern technology.



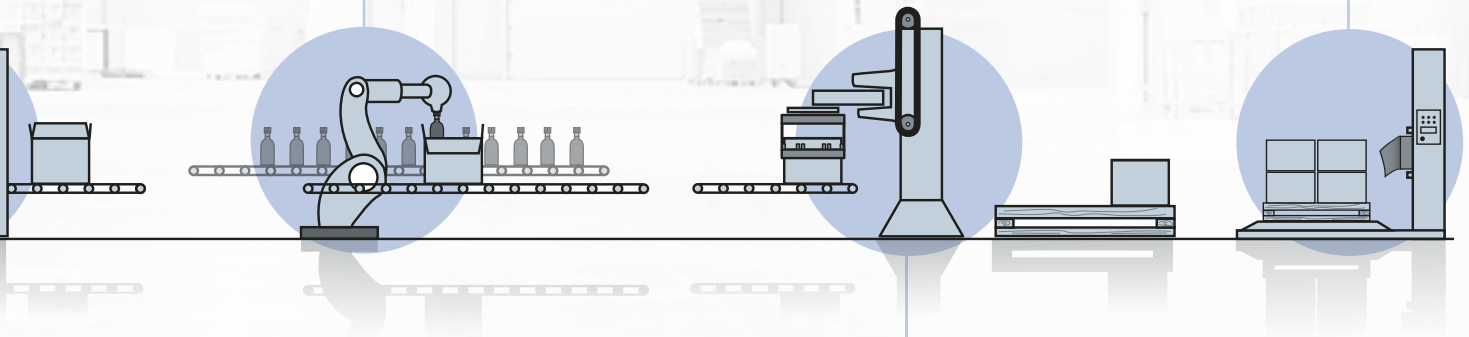
5. INDUSTRIAL ROBOT

Tailored automation for better productivity



7. PALLET WRAPPING MACHINE

Simple and cost-effective securing of goods with stretch film



6. PALLETISER

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



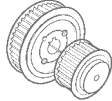
optibelt ALPHA SPECIAL

TIMING BELTS WITH COATINGS



TIMING BELT PULLEYS

all standard pulleys,
special pulleys on request



PRODUCT SPECIFICATIONS

optibelt ALPHA SPECIAL belts have a coating on the top surface. The wide range of coating options combined with the features of the timing belt allow innovative solutions to be developed for conveyor applications.

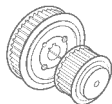
optibelt ALPHA SPECIAL

TIMING BELTS WITH CLEATS



TIMING BELT PULLEYS

all standard pulleys,
special pulleys on request



PRODUCT SPECIFICATIONS

Cleats can be screwed or welded onto **optibelt ALPHA LINEAR**, **optibelt ALPHA V** and **optibelt ALPHA FLEX** belts to adapt them perfectly to the goods being conveyed.

Optibelt offers a standard range of more than 350 cleats for this purpose. These can be individually adapted, as required, at a later date.

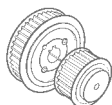
optibelt ALPHA SPECIAL

TIMING BELTS WITH MECHANICAL PROCESSING



TIMING BELT PULLEYS

all standard pulleys,
special pulleys on request



PRODUCT SPECIFICATIONS

Subsequent geometrical and dimensional adaptations can be made to standard timing belts, coated belts, and timing belts with cleats in order to expand the range of possible applications. Mechanical adjustments allow the belt to be perfectly tailored to the product.

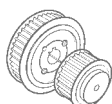
optibelt ALPHA FLEX

TIMING BELTS – MANUFACTURED AS OPEN ENDED BELT



TIMING BELT PULLEYS

all standard pulleys,
special pulleys on request



DIMENSIONS

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

Lengths from 1 100 to 22 000 mm,
depending on profile

ADVANTAGES AND CHARACTERISTICS

- The 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

optibelt OMEGA SPECIAL

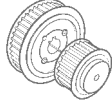
TIMING BELTS WITH COATING



TIMING BELT PULLEYS

optibelt OMEGA

timing belts run on standard HTD and RPP pulleys



DIMENSIONS

3M	111–1863 mm
5M	120–2525 mm
8M	288–4400 mm
14M	966–4578 mm

More profiles and dimensions on request

ADVANTAGES AND CHARACTERISTICS

- Glass cord
- Low noise
- Up to 98% efficiency
- Suitable for power transmission with slow and fast running drive systems with no high impact loading

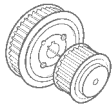
optibelt ALPHA TORQUE SPECIAL/ZR SPECIAL

COATED AND MECHANICALLY PROCESSED TIMING BELTS



TIMING BELT PULLEYS

all standard pulleys, special pulleys on request



PRODUCT SPECIFICATIONS

In combination with mechanical processing, the advantages of the coated belt allow even better adjustment to the conveyed goods.

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 OMEGA HP

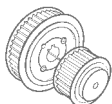
HIGH PERFORMANCE TIMING BELTS



TIMING BELT PULLEYS

optibelt OMEGA

timing belts run on standard HTD and RPP pulleys



DIMENSIONS

2M HP	74–1224 mm
3M HP	111–1569 mm
5M HP	180–2525 mm
8M HP	288–3600 mm
14M HP	966–4578 mm

More profiles and dimensions on request

ADVANTAGES AND CHARACTERISTICS

- Suitable for low and high speed drives with high dynamic loading
- Shear-resistant fabric with minimised wear and friction
- Up to twice the power transmission capability of the **optibelt OMEGA** Standard version
- Not suitable for direct contact with or transport of foodstuffs

COMPREHENSIVE SERVICE WITH THE OPTIBELT TEAM



CLEAT SELECTOR

Optibelt provides quick and clearly structured access to its comprehensive range of cleats via the cleat selector on the company's website. This tool can be used to search for or adapt the right transport solution according to the type of application, with a standard range of more than 300 different cleat models to choose from. The search results show all of the available cleat versions with detailed illustrations and the relevant technical data. Each match can then be downloaded with all of the associated information in the form of PDF or CAD files.



DATA SHEET SELECTOR

The data sheet selector provides a detailed overview of the Optibelt range of PU timing belts for "POWER TRANSMISSION" and "MATERIAL HANDLING". This online tool, available on the Optibelt website, can be used to download PDF files giving technical details of the required timing belts. The search can be narrowed down according to product, profile group and profile in order to find the ideal drive solution more directly. The corresponding data sheet provides precise information on dimensions, construction, nominal transmittable power, tensile force and length tolerances.



PRODUCT FINDER

An overview of our products and their combination with tension cords and fabrics. Selectable by dimensions, industry sector and belt section.

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