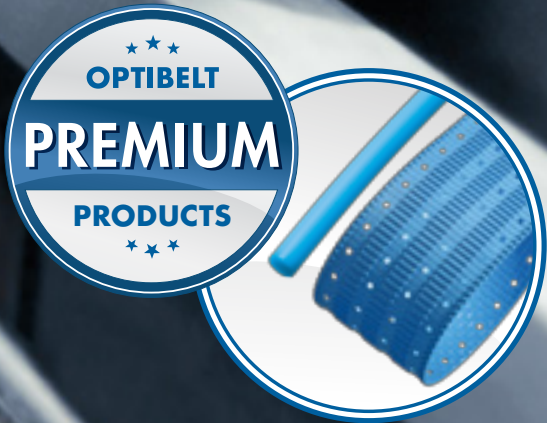




**MATERIAL HANDLING**  
**FOOD & BEVERAGE**



# SPECIALISTS FOR THE FOOD INDUSTRY

“Always a clean solution.”

Paul, 46, head of engineering design



## IN WORLDWIDE USE

As an experienced partner in the food and beverage industry, OPTIBELT has the ideal drive solution to meet even the most demanding requirements. This means that every processing step – from packaging and sorting through to transport – runs smoothly and with absolute precision. Additional factors that find approval with customers and users alike include exemplary efficiency and minimised maintenance costs. This is why OPTIBELT’s sustainable premium products can be found in use around the globe.

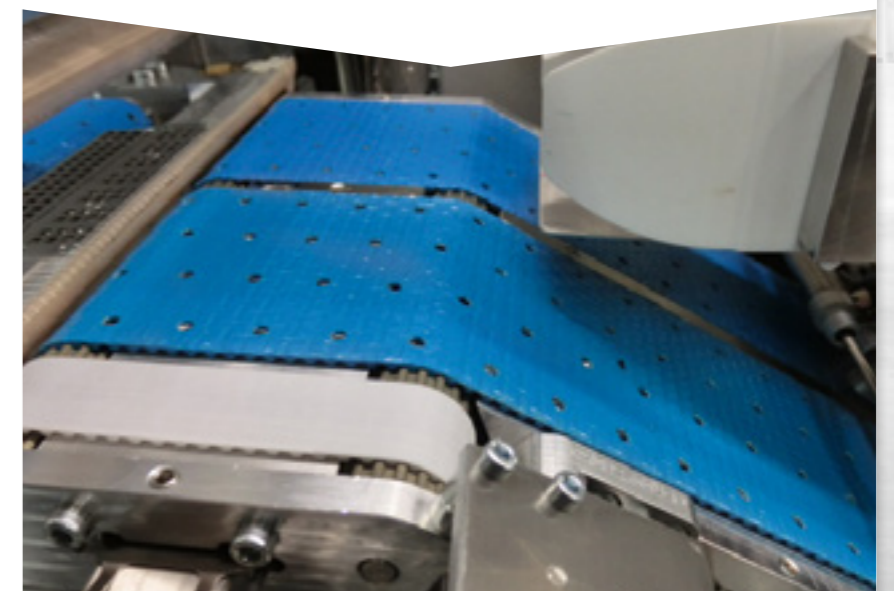
## OPTIBELT SUCCESS STORY A CLEAN SOLUTION



MIHO, based in northern Hesse in Germany, is a leading manufacturer of empty bottle inspection systems for the beverage industry. The company had been experiencing problems with the open-pore coating of the transport belts in the camera-controlled inspection systems. The coating was absorbing too much moisture, resulting in defective goods and bacteriological contamination. So, in cooperation with OPTIBELT, a new sandwich coating was developed using a neoprene foam combined with a dimpled PVC membrane. This system has shown itself to be optimally effective in practice.

## OPTIBELT SUCCESS STORY PERFECT PRECISION

Optima GmbH, based in Schwäbisch Hall in Germany, is the first European manufacturer to offer packaging machines for paper and hygiene products on 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 this structure produces a circular suction effect on the belt top surface, allowing the film to be transported quickly and efficiently.



# NO COMPROMISE

Speedy, accurate and reliable transport.

The mechanical handling of foodstuffs places not only high demands with respect to automation technology, but also has to meet stringent hygiene standards. OPTIBELT offers a special range of timing belts and round section belts for this highly sensitive sector. These belts meet the legal requirements and recommendations and are suitable for use in direct contact with food. Further outstanding features of OPTIBELT's drive solutions include excellent durability and reliability.



## 1. INSPECTION SYSTEMS

Bottles are checked for cleanliness, fractures etc.



## 3. BEVERAGE FILLING MACHINES

Flawless performance and hygiene are key.



## 5. CUTTING AND PACKAGING MACHINES (CHEESE & SALAMI)

High quality standards with regard to cleanliness and efficiency.



## 7. TUBULAR BAGS

The process necessitates speed and precision.



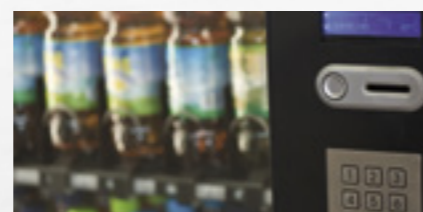
## 2. BOTTLE SORTING

The right packaging and the product are brought together.



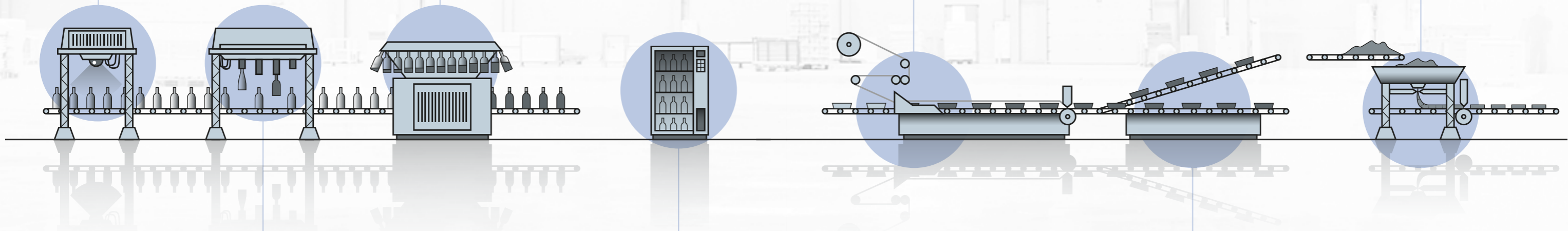
## 4. BEVERAGE VENDING MACHINES

Sophisticated technology with minimum space requirement.



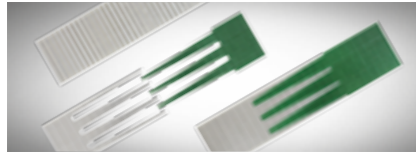
## 6. TRANSPORT OF FOODSTUFFS (WITH ROUND SECTION BELTS)

Everything must work reliably, without stoppages and with perfect timing.



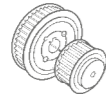
## optibelt ALPHA V

### TIMING BELTS



#### TIMING BELT PULLEYS

all standard pulleys,  
special pulleys on request



#### DIMENSIONS

Available with profiles: XL; L; H; XH; T5; T10; T20; AT5; AT10; AT20; 5M; 8M; 14M; T5K6; T10K6; T10K13; AT5K6; AT10K6; AT10K13; F2; F2.5; F3; FL3

Minimum lengths of 400 to 1200 mm, depending on width and pitch

#### ADVANTAGES AND CHARACTERISTICS

- lengths can be manufactured according to gradations in pitch
- can be supplied cost-effectively and at short notice
- ideal for transport drives
- PU also available with FDA approval for food contact
- direct welding on of cams and cleats

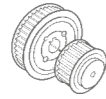
## optibelt ALPHA V SPECIAL

### TIMING BELTS



#### TIMING BELT PULLEYS

all standard pulleys,  
special pulleys on request



#### DIMENSIONS

All belt profiles in the **optibelt ALPHA V** product group are also available as **optibelt ALPHA V SPECIAL** versions.

Minimum lengths of 400 to 1200 mm, depending on width and pitch

#### ADVANTAGES AND CHARACTERISTICS

- with coatings
- with mechanical processing
- with cleats

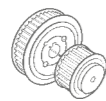
## optibelt ALPHA TORQUE

### TIMING BELTS AND SPECIAL BELTS



#### TIMING BELT PULLEYS

all standard pulleys,  
special pulleys on request



#### DIMENSIONS

T2.5; T5; T10/AT5; AT10/DT5;  
DT10 120–2250 mm  
MXL; XL; L 2.4–67 inches

Special belts on request

#### ADVANTAGES AND CHARACTERISTICS

- endless casting
- extremely resistant to oil and abrasion
- tension cords made of steel, highly flexible steel, stainless steel, aramid or polyester are available

## optibelt RR/RR Plus

### PLASTIC ROUND SECTION BELTS



#### DIMENSIONS

OPTIBELT round section 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 plant is required
- quick rectification of breakdowns
- short breakdown times
- easy to store (supplied in rolls)

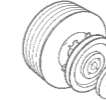
## optibelt VB S=C Plus

### CLASSIC V-BELTS



#### V-GROOVED 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

- polyester cord
- greater flexibility in bending than wedge belts
- particularly suitable for use in industrial applications
- V-belts in reliable S=C Plus quality
- not suitable for direct contact with or transport of foodstuffs

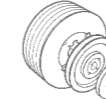
## optibelt SK S=C Plus

### HIGH PERFORMANCE WEDGE BELTS



#### 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

Other profiles + dimensions on request

#### ADVANTAGES AND CHARACTERISTICS

- polyester cord
- specially developed with general machine construction in mind
- transmits more power than the classic V-belts with comparable top width
- not suitable for direct contact with or transport of foodstuffs

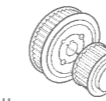
## optibelt OMEGA HP

### HIGH PERFORMANCE TIMING BELTS



#### TIMING BELT PULLEYS

optibelt OMEGA timing belts run in 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

Other profiles + dimensions on request

#### ADVANTAGES AND CHARACTERISTICS

- high performance timing belt for extremely large loads at high rotational speeds
- shear-resistant fabric with minimised wear and friction
- up to 2 times the power transmission capability of the **optibelt OMEGA** standard version
- not suitable for direct contact with or transport of foodstuffs

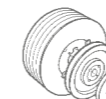
## optibelt OPTIMAT PKR

### OPEN-ENDED V-BELTS



#### V-GROOVED PULLEYS

all standard pulleys,  
special pulleys on request



#### MODELS

Z/10; A/13; B/17; C/22; 25\*; D/32\*

\*Special versions are only available in fabrication lengths of 50 m ± 10%.

The 25 and D/32 profiles are only available with a 5 mm top surface.

#### ADVANTAGES AND CHARACTERISTICS

- quick and easy installation
- manufactured to any length
- stock of spare parts is reduced
- classic V-groove power transmission
- can be used with DIN/ISO V-belt pulleys
- 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.



## 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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