

# Product Catalogue 2023/2024

Round and V-belts | monolithic conveyor belts | slip-free belts  
Flat belt accessories | coatings | welding equipment



## **Edition 2023/2024**

### **The specifications**

in this catalogue are based on our current knowledge and experience. They do not acquit the processor from testing our products at its own due to the plenty of possible effects during processing application of our products. The legally binding confirmation of certain properties or of the qualification for a certain purpose can not be derived from our specifications. Possible trade mark rights as well as existing laws and regulations are to be followed by recipient of our products at his own responsibility.

### **Terms and conditions**

Our terms and conditions can be found on our homepage under the following link:  
<http://www.behabelt.com>

### **Changes**

for the benefit of technical enhancements respectively adoption to modified standards or provisions are provided.

### **Pictures**

in this catalogue are examples of types and are not binding for the type at the time of delivery.

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## ABOUT US

Beha Innovation GmbH is a German company based in the heart of Europe.

With a global market presence, a subsidiary in the USA and a worldwide sales network, we serve our customers promptly and competently.

True to the motto „smart conveying“, we have been supplying innovative products for drive and conveyor technology since 1974. Our profiles, belts and welding technology are tailored to market requirements.

# A family business

## We are a manufacturer

BEHAbelt always wants to offer its customers high-quality and innovative solutions. One of the keys to success here is the close cooperation between sales and production. The belt profiles and conveyor belts are extruded or calendered at our headquarters in Glottertal/Black Forest.

Thanks to the short communication channels, we are able to react quickly to customer requests.

In addition to the high quality of the products, the factors of delivery time and reactivity are top priority in terms of the demands on customer service.



## People

People have a decisive influence on quality and innovation - these are our employees, our customers and our suppliers. People are therefore the focus for us and are the basis for a sustainable market partnership.

## Quality

High quality raw materials and quality-oriented manufacturing processes result in consistently high quality products. Quality communication and teamwork lead to continued mutual success!

## Innovation

We have deep insight into the applications through our customers and our suppliers. We are always developing innovative products and solutions for our customers based on our experience and know-how.

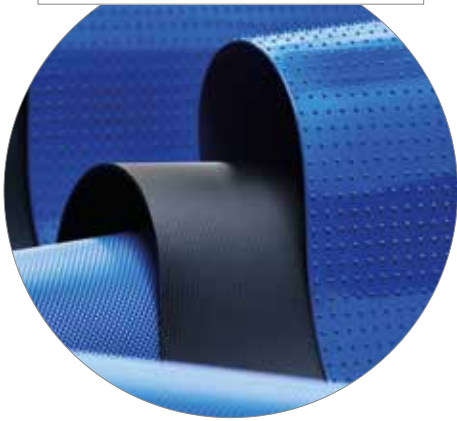


# About us

## The five product groups of BEHAbelt

Since 1974 we have been dealing with weldable components made of PU and TPE for conveying and power-transmission. Our products and services are always based on market experience and requirements. For us, the partnership and regular exchange with customers and interested parties are the basis for regular product innovations. The belt related challenges have grown and trends have changed over the years. In order to better focus on application requirements, we created the following five product groups.

### Conveyor belts



#### Monolithic conveyor belts made of PU and TPE

We are one of the leading manufacturers offering a huge combination of options. Choose your surface structure, material properties, hardness and colors.

### Belt profiles



#### Weldable PU and TPE belts

BEHAbelt offers one of the broadest ranges in the market. This concerns the number of geometries, material properties and shore hardness variations. In addition, we are able to develop and manufacture customized profiles.

### Welding technology



#### Welding technology for PU and TPE

„Each belt is only as good as its splice.“ Our program includes specially developed welding tools for profiles and flat belts.

### Coatings



#### PU coatings for timing belts and V-belts

Coating materials for e.g. high grip, accumulating or easy release. The industry requirements are as varied as our offer.

### Weldable profiles



#### Weldable profiles made of PU

The assembly of conveyor belts with weld-on profiles such as cleats, sidewalls or V-guides allow solutions to a wide range of applications.

## BEHAbelt product labels

Within the product groups of belt profiles, coatings and conveyor belts, we use product labels to identify products with special properties.

### Special features of belt profiles and conveyor belts

#### PU soft

describes a highly flexible, non-slip and wear resistant compound for profiles with a hardness of 65° Shore A. Perfectly suited for applications that require smallest pulley diameters. PUsoft is often used as a silicone alternative.

#### PU plus

is a special material composition for elevated load capacity and reduced elongation with the same product design and unchanged pulley diameters, compared to products made of standard PU compounds.

#### PU safe

identifies metal and X-ray detectable conveyor belts and profiles. The food industry is increasingly using detectable profiles and belts as additional safety measure to prevent contamination of foodstuff with foreign objects.

### Special features of coatings and weldable profiles

#### PU tex

Coatings made of these unique PU compounds are fully weldable with the base material and therefore protected against delamination. Due to the high grip they are perfect alternatives to rubber coatings.

#### PU grip

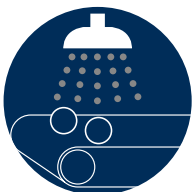
is our softest coating material. At 45° Shore A hardness it ensures best grip and flexibility. Like all PU coatings, it can be perfectly welded to PU V-belts or timing belts.

#### PU flex

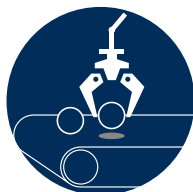
specifies our extremely flexible sidewalls due to the very small wave pitch. Sidewalls are often used with cleats on conveyors for inclined transport to prevent spillage.

## smart conveying

We understand our mission statement as continuous motivation. For us, it means that we always take a critical look at conveying and power-transmission processes. Together with our customers and partners, we want to have constructive conversations to optimize their applications. Doing this, we ensure to develop products and services that will deliver benefits in the target applications.



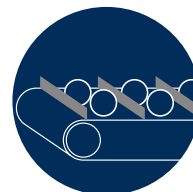
Washing



Picking



Cutting



Portioning



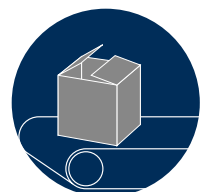
Sorting



Checking



Weighing



Packing

# Contact



## Detailed advice by our technical team

We are very interested in our customers' applications so that we can constantly improve them through existing products, the further development of the product range or our know-how. Our technical team consists of experienced engineers and technicians who can advise them comprehensively and also provide with test profiles and conveyor belts.

Very often we advise technical dealers, machine builders or also belt assemblers, but also end users who want to optimise their intralogistic equipment with belt profiles or conveyor belts. Especially the topics of pre-tensioning, belt design, the choice of the right surface structure or the suitable material hardness ensure a process-safe operation of the equipment.

## LinkedIn & YouTube

We regularly publish news on LinkedIn. On this platform, we mainly focus on product innovations, event information and tips and tricks.

On the BEHAbelt YouTube channel you will find instructions in the form of videos showing our most important welding equipment and how to use it.



## Trade fairs

Participation in trade fairs gives us the opportunity to explain our products individually to customers and evaluate the optimal solution for their specific application. You will find us regularly at the following trade fairs. On request you will receive free trade fair tickets from us.



## Newsletter

The free BEHAbelt-Newsletter is published 1-2 times a year and informs about news and trends in the field of conveyor and power-transmission belts as well as our participation in events.

We look forward to your registration.





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# Innovations



## Elastic monolithic machine tapes

BEHAbelt complements its diverse belt portfolio with the addition of elastic machine tapes made of TPU. Machine tapes have already been established on the market for many years and are often offered in green/black or blue/black versions with antistatic properties. In addition to reinforced belt constructions, elastic versions are also used to adapt to application requirements.

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## Butt splice as a bias angle splice for conveyor belts

While using small pulley diameters it is recommended to use a conveyor belt with a bias angle splice of about  $70^\circ$  ( $20^\circ$ ) to reduce the stress on the belt splice while bending the splice zone around the pulley.

Such a splice allows to split the bending stress equally on smaller different sections of the belt splice while rolling over the small pulley shape. In generally this offers a better lifetime of the belt especially when using the belt at its recommended mini pulley specification.

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### Expansion of the portfolio for belt edges

In order to be able to meet the different requirements of curved belts, the portfolio of belt edges has been expanded. These flexible and abrasion-resistant profiles are used to stabilise or guide curved belts and are usually sewn and/or glued onto the curved belt.

We also offer customised profiles for this product category.

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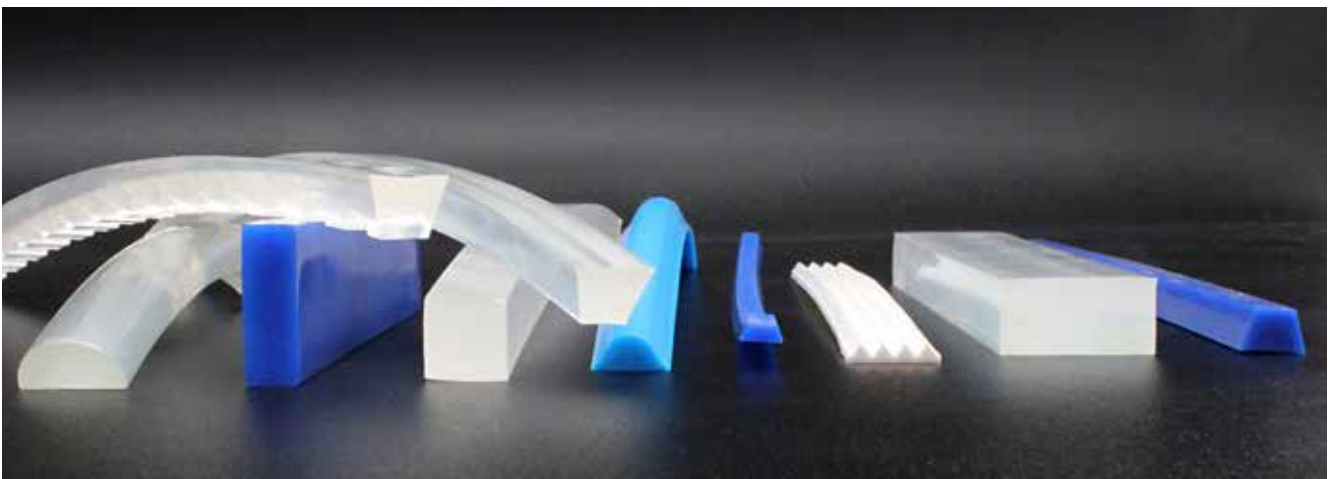


### Half-round guide profile for roller conveyors

This specially developed guide profile with its half-round geometry of 9 x 4.5 mm is perfectly matched to the geometry of the round belt groove of roller conveyors and thus offers an abrasion-resistant, guide-optimised and cost-effective belt guide option for the use of flat belts on roller conveyors (belt on roller).

The raw material used is optimally matched to BEHAbelt flat belt qualities for problem-free welding.

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### V-guides from 5 x 3 mm & extension weld-on profiles

V-guide profiles are often used as guide profiles on the running side, e.g. to support the straight running of long and/or narrow conveyor belts or to absorb lateral forces when products are fed in from the side.

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## CONVEYOR BELT PROFILES MADE OF PU AND TPE

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## General explanation of the product tables

### ② PU85A green rough, reinforced aramid



| Order No.     | ⑦ Diameter |      | ⑧ Cross section | ⑨ approx. weight | ⑩ Standard roll |         | ⑪ Recommended Min. pulley $\varnothing$ |     | ⑫ Fmax/belt (Standard) |      | ⑬ Fmax/belt (Overlap) |       |
|---------------|------------|------|-----------------|------------------|-----------------|---------|---|-----|------------------------|------|-----------------------|-------|
|               | mm         | inch |                 |                  | cm <sup>2</sup> | kg/100m | m                                       | ft  | mm                     | inch | kg                    | lbs   |
| ① JZR85A060RA | 6,0        | 7/32 | 0,283           | 3,4              | 100             | 328     | 60                                      | 2,3 | 10,2                   | 22,4 | 30,6                  | 67,3  |
| FBZR85A063RA  | 6,3        | 1/4  | 0,310           | 3,8              | 100             | 328     | 65                                      | 2,5 | 11,2                   | 24,6 | 33,6                  | 73,9  |
| FBZR85A070RA  | 7,0        | 9/32 | 0,385           | 4,7              | 100             | 328     | 70                                      | 2,8 | 13,8                   | 30,4 | 41,4                  | 91,1  |
| FBZR85A080RA  | 8,0        | 5/16 | 0,500           | 6,0              | 100             | 328     | 80                                      | 3,2 | 18,0                   | 39,6 | 54,0                  | 118,8 |
| FBZR85A095RA  | 9,5        | 3/8  | 0,710           | 8,5              | 100             | 328     | 95                                      | 3,7 | 25,4                   | 55,9 | 76,2                  | 167,6 |

- ④ approx. 88° Shore A
- ⑤ Recommended pretension 1...2 %

⑥ Coeff. of friction  $\mu$ : Steel: approx. 0,45 | PE: approx. 0,35 | HDPE: approx. 0,30

## Legende

- ① BEHAbelt order number (availability, lead time and minimum order quantity upon request)
- ② BEHAbelt Material Type Quality (Product description)
- ③ Colour (Caution, original colour may deviate from the graphic)
- ④ Approx. specified Shore hardness (Attention! BEHAbelt product description doesn't match the Shore hardness of the belt)
- ⑤ Recommended pretension to tighten the belt in the system (in %) (highest value corresponds to max. preload)
- ⑥ Approx. coefficient of friction  $\mu$  on steel, PE and HDPE surfaces (Also see coefficient of friction values page 131)
- ⑦ Profile geometry in mm
- ⑧ Material cross-section of the profile (For further details on the calculation, see page 131)
- ⑨ Approx. weight in kg for 100 m of the corresponding profile geometry
- ⑩ Standard roll = Manufacturing unit (smaller amounts available at an upcharge). (Special roll sizes upon request)
- ⑪ Recommended minimum pulley diameter (in mm) measured in neutral fibre. Smaller pulley diameters are possible; however, they can shorten the service life of the belt.
- ⑫ Max. load of the belt (transport load) for butt welding (in kg/belt) (standard case)
- ⑬ Approx. max. load of the belt (standard case) for overlap welding (in kg/belt) (hot-press method HP01, overlap length of 60 mm)

Table values valid at ambient conditions of 20°C ±10°C.  
(otherwise minimum pulley diameter, pretension and max. load of the belt have to be adjusted)

## Symbols

|  |   |  |                          |  |  |  |   |   |
|--|---|--|--------------------------|--|--|--|---|---|
|  |   |  |                          |  |  |  |   |   |
| Antistatic profile with outstanding mechanical properties. | Profile with exceptional low-temperature flexibility down to -30°C. | Patented material formulation „PLUS“ for lower product elongation. | Very good UV resistance. | FDA/EC conformity for hydrolysis-resistant conveying profiles with rough and finely textured surfaces. | Metal and X-ray detectable profiles for maximum food safety. | Hydrolysis resistance (HY). Suitable for humid environments. | Microbe-resistant materials do not provide a breeding ground for microorganisms | Belt made of 2 components enables combination of hardness and features. |

# Round belts | Shore 65 A, 76 A



## Round belts

Weldable round belts made of PU and TPE are available in various Shore hardness grades and diameters for transport and power-transmission. Many belts are food-approved and have various special properties for particularly demanding applications.

Typical industries are: Food, logistics, printing & paper, packaging, building materials and much more.

## PU60A **soft** blue smooth



| Order No.  | Diameter $\varnothing$ |      | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |      |
|------------|------------------------|------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|------|
|            | mm                     | inch |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs  |
| FBRF030LGS | 3,0                    | 1/8  | 0,071                            | 0,9                       | 200           | 656 | 10                                    | 0,4  | 0,9                  | 2,0  |
| FBRF040LGS | 4,0                    | 5/32 | 0,126                            | 1,6                       | 200           | 656 | 20                                    | 0,8  | 1,5                  | 3,3  |
| FBRF050LGS | 5,0                    | 1/5  | 0,181                            | 2,2                       | 100           | 328 | 30                                    | 1,2  | 2,2                  | 4,9  |
| FBRF060LGS | 6,0                    | 7/32 | 0,283                            | 3,4                       | 100           | 328 | 35                                    | 1,4  | 3,4                  | 7,5  |
| FBRF080LGS | 8,0                    | 5/16 | 0,500                            | 6,0                       | 100           | 328 | 45                                    | 1,8  | 6,0                  | 13,2 |
| FBRF095LGS | 9,5                    | 3/8  | 0,710                            | 8,5                       | 100           | 328 | 60                                    | 2,4  | 8,5                  | 18,7 |
| FBRF100LGS | 10,0                   | 7/16 | 0,785                            | 9,4                       | 50            | 164 | 65                                    | 2,6  | 9,4                  | 20,7 |

approx. 65° Shore A

Recommended pretension 5...10 %

Coeff. of friction  $\mu$ : Steel: approx. 0,90 | PE: approx. 0,55 | HDPE: approx. 0,50

FDA/EC compliant (Limited suitability EC)

## PU70A ultramarine blue smooth



| Order No. | Diameter $\varnothing$ |      | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |      |
|-----------|------------------------|------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|------|
|           | mm                     | inch |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs  |
| FBRH030LG | 3,0                    | 1/8  | 0,071                            | 0,9                       | 200           | 656 | 15                                    | 0,6  | 1,4                  | 3,1  |
| FBRH040LG | 4,0                    | 5/32 | 0,126                            | 1,6                       | 200           | 656 | 25                                    | 1,0  | 2,5                  | 5,5  |
| FBRH048LG | 4,8                    | 3/16 | 0,181                            | 2,2                       | 200           | 656 | 30                                    | 1,2  | 3,5                  | 7,7  |
| FBRH050LG | 5,0                    | 1/5  | 0,181                            | 2,2                       | 100           | 328 | 35                                    | 1,4  | 3,6                  | 7,9  |
| FBRH060LG | 6,0                    | 7/32 | 0,283                            | 3,4                       | 100           | 328 | 45                                    | 1,8  | 5,6                  | 12,3 |
| FBRH080LG | 8,0                    | 5/16 | 0,500                            | 6,0                       | 100           | 328 | 55                                    | 2,2  | 9,9                  | 21,8 |

approx. 76° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,75 | PE: approx. 0,40 | HDPE: approx. 0,35 | FDA/EC/USDA compliant

## PU75A red smooth



| Order No.  | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|------------|------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|            | mm         | inch  |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBRP75A020 | 2,0        | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 10                        | 0,4  | 0,8                  | 1,8   |
| FBRP75A030 | 3,0        | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 20                        | 0,8  | 1,8                  | 4,0   |
| FBRP75A040 | 4,0        | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 30                        | 1,2  | 3,1                  | 6,8   |
| FBRP75A048 | 4,8        | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 35                        | 1,4  | 4,5                  | 9,9   |
| FBRP75A050 | 5,0        | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 40                        | 1,6  | 4,9                  | 10,8  |
| FBRP75A060 | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 50                        | 2,0  | 7,3                  | 16,1  |
| FBRP75A063 | 6,3        | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 55                        | 2,2  | 8,0                  | 17,6  |
| FBRP75A070 | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 60                        | 2,4  | 9,8                  | 21,6  |
| FBRP75A080 | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 65                        | 2,6  | 12,9                 | 28,4  |
| FBRP75A095 | 9,5        | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 75                        | 3,0  | 18,0                 | 39,6  |
| FBRP75A100 | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 80                        | 3,2  | 19,6                 | 43,1  |
| FBRP75A120 | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 90                        | 3,5  | 29,4                 | 64,7  |
| FBRP75A125 | 12,5       | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 100                       | 3,9  | 31,4                 | 69,1  |
| FBRP75A150 | 15,0       | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 120                       | 4,7  | 45,1                 | 99,2  |
| FBRP75A180 | 18,0       | 3/4   | 2,54                             | 31,0                      | 50            | 164 | 150                       | 5,9  | 64,7                 | 142,3 |
| FBRP75A200 | 20,0       | 25/32 | 3,14                             | 40,0                      | 50            | 164 | 170                       | 6,7  | 80,4                 | 176,9 |

approx. 80° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

## PU75A sky blue smooth



| Order No.    | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|--------------|------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|              | mm         | inch  |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBRP75A020HI | 2,0        | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 10                        | 0,4  | 0,8                  | 1,8  |
| FBRP75A030HI | 3,0        | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 20                        | 0,8  | 1,8                  | 4,0  |
| FBRP75A040HI | 4,0        | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 30                        | 1,2  | 3,0                  | 6,6  |
| FBRP75A048HI | 4,8        | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 35                        | 1,4  | 4,4                  | 9,7  |
| FBRP75A050HI | 5,0        | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 40                        | 1,6  | 4,8                  | 10,6 |
| FBRP75A060HI | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 50                        | 2,0  | 6,8                  | 15,0 |
| FBRP75A063HI | 6,3        | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 55                        | 2,2  | 7,4                  | 16,3 |
| FBRP75A070HI | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 60                        | 2,4  | 9,2                  | 20,2 |
| FBRP75A080HI | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 65                        | 2,6  | 12,0                 | 26,4 |
| FBRP75A095HI | 9,5        | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 75                        | 3,0  | 17,0                 | 37,4 |
| FBRP75A100HI | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 80                        | 3,2  | 18,8                 | 41,4 |
| FBRP75A120HI | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 90                        | 3,5  | 27,2                 | 59,8 |
| FBRP75A125HI | 12,5       | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 100                       | 3,9  | 29,6                 | 65,1 |
| FBRP75A150HI | 15,0       | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 120                       | 4,7  | 42,4                 | 93,3 |

approx. 80° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | FDA/EC/USDA compliant

## PU75A **plus** orange matt



| Order No. | Diameter $\varnothing$ |      | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |      |
|-----------|------------------------|------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|------|
|           | mm                     | inch |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs  |
| FBRI0200G | 2,0                    | 5/64 | 0,032                            | 0,5                       | 200           | 656 | 10                                    | 0,4  | 0,9                  | 2,0  |
| FBRI0300G | 3,0                    | 1/8  | 0,071                            | 0,9                       | 200           | 656 | 20                                    | 0,8  | 1,8                  | 4,0  |
| FBRI0400G | 4,0                    | 5/32 | 0,126                            | 1,6                       | 200           | 656 | 30                                    | 1,2  | 3,6                  | 7,9  |
| FBRI0480G | 4,8                    | 3/16 | 0,181                            | 2,2                       | 200           | 656 | 35                                    | 1,4  | 5,2                  | 11,4 |
| FBRI0500G | 5,0                    | 1/5  | 0,197                            | 2,4                       | 100           | 328 | 40                                    | 1,6  | 5,7                  | 12,5 |
| FBRI0600G | 6,0                    | 7/32 | 0,283                            | 3,4                       | 100           | 328 | 50                                    | 2,0  | 8,1                  | 17,8 |
| FBRI0630G | 6,3                    | 1/4  | 0,310                            | 3,8                       | 100           | 328 | 55                                    | 2,2  | 8,9                  | 19,6 |
| FBRI0700G | 7,0                    | 9/32 | 0,385                            | 4,7                       | 100           | 328 | 60                                    | 2,4  | 11,1                 | 24,4 |
| FBRI0800G | 8,0                    | 5/16 | 0,500                            | 6,0                       | 100           | 328 | 65                                    | 2,6  | 14,4                 | 31,7 |
| FBRI0950G | 9,5                    | 3/8  | 0,710                            | 8,5                       | 100           | 328 | 75                                    | 3,0  | 20,4                 | 44,9 |
| FBRI1000G | 10,0                   | 7/16 | 0,785                            | 9,4                       | 50            | 164 | 80                                    | 3,2  | 22,6                 | 49,7 |

approx. 80° Shore A

Recommended pretension 3...6 %

Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

## PU80A transparent smooth



| Order No.    | Diameter $\varnothing$ |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |       |
|--------------|------------------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|-------|
|              | mm                     | inch  |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs   |
| FBRP80A020TR | 2,0                    | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 15                                    | 0,6  | 1,1                  | 2,4   |
| FBRP80A030TR | 3,0                    | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 25                                    | 1,0  | 2,1                  | 4,6   |
| FBRP80A040TR | 4,0                    | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 30                                    | 1,2  | 4,1                  | 9,0   |
| FBRP80A048TR | 4,8                    | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 40                                    | 1,6  | 5,8                  | 12,8  |
| FBRP80A050TR | 5,0                    | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 45                                    | 1,8  | 6,2                  | 13,6  |
| FBRP80A060TR | 6,0                    | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 55                                    | 2,2  | 9,0                  | 19,8  |
| FBRP80A063TR | 6,3                    | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 60                                    | 2,4  | 10,1                 | 22,1  |
| FBRP80A070TR | 7,0                    | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 65                                    | 2,6  | 12,4                 | 27,3  |
| FBRP80A080TR | 8,0                    | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 75                                    | 3,0  | 16,1                 | 35,3  |
| FBRP80A095TR | 9,5                    | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 90                                    | 3,5  | 22,7                 | 49,9  |
| FBRP80A100TR | 10,0                   | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 95                                    | 3,7  | 25,3                 | 55,6  |
| FBRP80A120TR | 12,0                   | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 110                                   | 4,3  | 36,4                 | 80,0  |
| FBRP80A125TR | 12,5                   | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 115                                   | 4,5  | 39,4                 | 86,6  |
| FBRP80A150TR | 15,0                   | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 140                                   | 5,5  | 56,7                 | 124,8 |
| FBRP80A180TR | 18,0                   | 3/4   | 2,54                             | 31,0                      | 50            | 164 | 170                                   | 6,7  | 81,5                 | 179,4 |
| FBRP80A200TR | 20,0                   | 25/32 | 3,14                             | 40,0                      | 50            | 164 | 180                                   | 7,1  | 100,6                | 221,3 |

approx. 84° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant



## PU80A ultramarine blue smooth



| Order No.    | Diameter $\varnothing$ |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |       |
|--------------|------------------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|-------|
|              | mm                     | inch  |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs   |
| FBRP80A020UB | 2,0                    | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 15                                    | 0,6  | 0,9                  | 2,0   |
| FBRP80A030UB | 3,0                    | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 25                                    | 1,0  | 2,2                  | 4,8   |
| FBRP80A040UB | 4,0                    | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 30                                    | 1,2  | 3,9                  | 8,6   |
| FBRP80A048UB | 4,8                    | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 40                                    | 1,6  | 5,5                  | 12,1  |
| FBRP80A050UB | 5,0                    | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 45                                    | 1,8  | 6,1                  | 13,4  |
| FBRP80A060UB | 6,0                    | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 55                                    | 2,2  | 8,7                  | 19,1  |
| FBRP80A063UB | 6,3                    | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 60                                    | 2,4  | 9,6                  | 21,1  |
| FBRP80A070UB | 7,0                    | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 65                                    | 2,6  | 11,8                 | 26,0  |
| FBRP80A080UB | 8,0                    | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 75                                    | 3,0  | 15,3                 | 33,7  |
| FBRP80A095UB | 9,5                    | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 90                                    | 3,6  | 21,6                 | 47,5  |
| FBRP80A100UB | 10,0                   | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 95                                    | 3,8  | 24,0                 | 52,8  |
| FBRP80A120UB | 12,0                   | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 110                                   | 4,4  | 34,4                 | 75,7  |
| FBRP80A125UB | 12,5                   | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 115                                   | 4,6  | 37,5                 | 82,5  |
| FBRP80A150UB | 15,0                   | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 140                                   | 5,5  | 54,1                 | 119,0 |

approx. 84° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU80A ultramarine blue slightly rough



| Order No.    | Diameter $\varnothing$ |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |       |
|--------------|------------------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|-------|
|              | mm                     | inch  |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs   |
| FBRP80A020BA | 2,0                    | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 15                                    | 0,6  | 0,9                  | 2,0   |
| FBRP80A030BA | 3,0                    | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 25                                    | 1,0  | 2,2                  | 4,8   |
| FBRP80A040BA | 4,0                    | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 30                                    | 1,2  | 3,9                  | 8,6   |
| FBRP80A048BA | 4,8                    | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 40                                    | 1,6  | 5,5                  | 12,1  |
| FBRP80A050BA | 5,0                    | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 45                                    | 1,8  | 6,1                  | 13,4  |
| FBRP80A060BA | 6,0                    | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 55                                    | 2,2  | 8,7                  | 19,1  |
| FBRP80A063BA | 6,3                    | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 60                                    | 2,4  | 9,6                  | 21,1  |
| FBRP80A070BA | 7,0                    | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 65                                    | 2,6  | 11,8                 | 26,0  |
| FBRP80A080BA | 8,0                    | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 75                                    | 3,0  | 15,3                 | 33,7  |
| FBRP80A095BA | 9,5                    | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 90                                    | 3,6  | 21,6                 | 47,5  |
| FBRP80A100BA | 10,0                   | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 95                                    | 3,8  | 24,0                 | 52,8  |
| FBRP80A120BA | 12,0                   | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 110                                   | 4,4  | 34,4                 | 75,7  |
| FBRP80A125BA | 12,5                   | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 115                                   | 4,6  | 37,5                 | 82,5  |
| FBRP80A150BA | 15,0                   | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 140                                   | 5,5  | 54,1                 | 119,0 |

approx. 84° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,55 | PE: approx. 0,30 | HDPE: approx. 0,25 | FDA/EC compliant

## PU80A orange smooth



| Order No.   | Diameter $\varnothing$ |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |       |
|-------------|------------------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|-------|
|             | mm                     | inch  |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs   |
| FBRP84A020  | 2,0                    | 5/64  | 0,032                            | 0,5                       | 30            | 100 | 15                                    | 0,6  | 1,1                  | 2,4   |
| FBRP84A032  | 3,2                    | 1/8   | 0,071                            | 0,9                       | 30            | 100 | 25                                    | 1,0  | 2,1                  | 4,7   |
| FBRP84A032A | 3,2                    | 1/8   | 0,071                            | 0,9                       | 152           | 500 | 25                                    | 1,0  | 2,2                  | 4,9   |
| FBRP84A040  | 4,0                    | 5/32  | 0,126                            | 1,6                       | 30            | 100 | 30                                    | 1,2  | 4,1                  | 8,9   |
| FBRP84A048  | 4,8                    | 3/16  | 0,181                            | 2,2                       | 30            | 100 | 40                                    | 1,6  | 5,8                  | 12,7  |
| FBRP84A048A | 4,8                    | 3/16  | 0,181                            | 2,2                       | 152           | 500 | 40                                    | 1,6  | 5,8                  | 12,7  |
| FBRP84A050  | 5,0                    | 1/5   | 0,197                            | 2,4                       | 30            | 100 | 45                                    | 1,8  | 6,2                  | 13,7  |
| FBRP84A060  | 6,0                    | 7/32  | 0,283                            | 3,4                       | 30            | 100 | 55                                    | 2,2  | 9,0                  | 19,8  |
| FBRP84A063  | 6,3                    | 1/4   | 0,310                            | 3,8                       | 30            | 100 | 60                                    | 2,4  | 10,1                 | 22,1  |
| FBRP84A063A | 6,3                    | 1/4   | 0,310                            | 3,8                       | 152           | 500 | 60                                    | 2,4  | 10,1                 | 22,1  |
| FBRP84A070  | 7,0                    | 9/32  | 0,385                            | 4,7                       | 30            | 100 | 65                                    | 2,6  | 12,4                 | 27,3  |
| FBRP84A079  | 7,9                    | 5/16  | 0,500                            | 6,0                       | 30            | 100 | 75                                    | 3,0  | 16,1                 | 35,3  |
| FBRP84A079A | 7,9                    | 5/16  | 0,500                            | 6,0                       | 152           | 500 | 75                                    | 3,0  | 16,1                 | 35,3  |
| FBRP84A095  | 9,5                    | 3/8   | 0,710                            | 8,5                       | 30            | 100 | 90                                    | 3,5  | 22,7                 | 49,9  |
| FBRP84A095A | 9,5                    | 3/8   | 0,710                            | 8,5                       | 152           | 500 | 90                                    | 3,5  | 22,7                 | 49,9  |
| FBRP84A100  | 10,0                   | 7/16  | 0,785                            | 9,4                       | 30            | 100 | 95                                    | 3,7  | 25,3                 | 55,6  |
| FBRP84A120  | 12,0                   | 15/32 | 1,130                            | 13,5                      | 30            | 100 | 110                                   | 4,3  | 36,4                 | 80,0  |
| FBRP84A127  | 12,7                   | 1/2   | 1,230                            | 14,8                      | 30            | 100 | 115                                   | 4,5  | 39,4                 | 86,6  |
| FBRP84A143  | 14,3                   | 9/16  | 1,605                            | 21,0                      | 30            | 100 | 130                                   | 5,1  | 49,4                 | 108,8 |
| FBRP84A159  | 15,9                   | 6/8   | 1,985                            | 22,5                      | 30            | 100 | 150                                   | 5,9  | 64,2                 | 141,2 |
| FBRP84A190  | 19,0                   | 3/4   | 2,83                             | 31,0                      | 30            | 100 | 170                                   | 6,7  | 91,0                 | 200,1 |

approx. 84° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU80A orange smooth, reinforced Polyester



| Order No.  | Diameter $\varnothing$ |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ * |      | Fmax/belt (Standard) |       | Fmax/Belt (Overlap) |       |
|------------|------------------------|-------|----------------------------------|---------------------------|---------------|-----|---|------|----------------------|-------|---------------------|-------|
|            | mm                     | inch  |                                  |                           | m             | ft  | mm                                      | inch | kg                   | lbs   | kg                  | lbs   |
| FBRJ0600GA | 6,0                    | 7/32  | 0,283                            | 3,4                       | 30            | 100 | 55                                      | 2,2  | 9,0                  | 19,8  | 18,9                | 41,6  |
| FBRJ0630GA | 6,3                    | 1/4   | 0,310                            | 3,8                       | 30            | 100 | 60                                      | 2,4  | 10,1                 | 22,1  | 21,2                | 46,5  |
| FBRJ0700GA | 7,0                    | 9/32  | 0,385                            | 4,7                       | 30            | 100 | 65                                      | 2,6  | 12,4                 | 27,3  | 25,4                | 55,9  |
| FBRJ0800GA | 8,0                    | 5/16  | 0,500                            | 6,0                       | 30            | 100 | 80                                      | 3,2  | 16,1                 | 35,3  | 33,8                | 74,3  |
| FBRJ0950GA | 9,5                    | 3/8   | 0,710                            | 8,5                       | 30            | 100 | 90                                      | 3,6  | 22,7                 | 49,9  | 47,7                | 104,9 |
| FBRJ1000GA | 10,0                   | 7/16  | 0,785                            | 9,4                       | 30            | 100 | 100                                     | 4    | 25,3                 | 55,6  | 53,1                | 116,8 |
| FBRJ1200GA | 12,0                   | 15/32 | 1,130                            | 13,5                      | 30            | 100 | 110                                     | 4,4  | 36,4                 | 80,0  | 76,5                | 168,3 |
| FBRJ1250GA | 12,5                   | 1/2   | 1,230                            | 14,8                      | 30            | 100 | 115                                     | 4,6  | 39,4                 | 86,6  | 82,8                | 182,2 |
| FBRJ1430GA | 14,3                   | 9/16  | 1,605                            | 21,0                      | 30            | 100 | 130                                     | 5,2  | 49,4                 | 108,8 | 104,0               | 228,7 |
| FBRJ1900GA | 19,0                   | 3/4   | 2,83                             | 31,0                      | 30            | 100 | 170                                     | 6,8  | 91,0                 | 200,1 | 191,3               | 420,8 |
| FBRJ2000GA | 20,0                   | 25/32 | 3,14                             | 40,0                      | 30            | 100 | 190                                     | 7,6  | 100,6                | 221,3 | 211,5               | 465,3 |

approx. 84° Shore A

Recommended pretension

0,5...2 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

\*For overlap welding, the recommended minimum pulley diameter must be increased by +30%.

## PU80A **safe** capri blue smooth



Metal and X-ray detectable belt

| Order No.  | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|------------|------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|            | mm         | inch  |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBRJ020LGM | 2,0        | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 15                        | 0,6  | 0,6                  | 1,3  |
| FBRJ030LGM | 3,0        | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 25                        | 1,0  | 1,6                  | 3,5  |
| FBRJ032LGM | 3,2        | 1/8   | 0,071                            | 0,9                       | 30            | 100 | 25                        | 1,0  | 1,7                  | 3,7  |
| FBRJ040LGM | 4,0        | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 30                        | 1,2  | 2,9                  | 6,4  |
| FBRJ048LGM | 4,8        | 3/16  | 0,181                            | 2,2                       | 30            | 100 | 40                        | 1,6  | 4,0                  | 8,8  |
| FBRJ050LGM | 5,0        | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 45                        | 1,8  | 5,6                  | 12,3 |
| FBRJ060LGM | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 55                        | 2,2  | 6,4                  | 14,1 |
| FBRJ063LGM | 6,3        | 1/4   | 0,310                            | 3,8                       | 30            | 100 | 60                        | 2,4  | 6,9                  | 15,2 |
| FBRJ070LGM | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 65                        | 2,6  | 9,3                  | 20,5 |
| FBRJ079LGM | 7,9        | 5/16  | 0,500                            | 6,0                       | 30            | 100 | 75                        | 3,0  | 12,0                 | 26,4 |
| FBRJ080LGM | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 75                        | 3,0  | 12,0                 | 26,4 |
| FBRJ095LGM | 9,5        | 3/8   | 0,710                            | 8,5                       | 30            | 100 | 90                        | 3,5  | 17,0                 | 37,4 |
| FBRJ100LGM | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 95                        | 3,7  | 18,9                 | 41,6 |
| FBRJ120LGM | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 110                       | 4,3  | 27,2                 | 59,9 |
| FBRJ125LGM | 12,5       | 1/2   | 1,230                            | 14,8                      | 30            | 100 | 115                       | 4,5  | 29,4                 | 64,7 |
| FBRJ143LGM | 14,3       | 9/16  | 1,605                            | 21,0                      | 30            | 100 | 130                       | 5,1  | 37,0                 | 81,4 |
| FBRJ150LGM | 15,0       | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 140                       | 5,5  | 42,4                 | 93,3 |

approx. 84° Shore A

Recommended pretension 3...6 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU85A green smooth



| Order No.  | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|------------|------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|            | mm         | inch  |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBRP85A020 | 2,0        | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 15                        | 0,6  | 1,2                  | 2,7   |
| FBRP85A030 | 3,0        | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 25                        | 1    | 2,7                  | 5,8   |
| FBRP85A040 | 4,0        | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 35                        | 1,4  | 4,7                  | 10,3  |
| FBRP85A048 | 4,8        | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 45                        | 1,8  | 6,7                  | 14,8  |
| FBRP85A050 | 5,0        | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 50                        | 2    | 7,1                  | 15,7  |
| FBRP85A060 | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 60                        | 2,4  | 10,4                 | 22,9  |
| FBRP85A063 | 6,3        | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 65                        | 2,6  | 11,4                 | 25,1  |
| FBRP85A070 | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 70                        | 2,8  | 14,1                 | 31,0  |
| FBRP85A080 | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 80                        | 3,2  | 18,4                 | 40,4  |
| FBRP85A095 | 9,5        | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 95                        | 3,8  | 25,9                 | 57,0  |
| FBRP85A100 | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 100                       | 4    | 28,6                 | 62,8  |
| FBRP85A120 | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 120                       | 4,8  | 40,8                 | 89,8  |
| FBRP85A125 | 12,5       | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 125                       | 5    | 44,9                 | 98,7  |
| FBRP85A15  | 15,0       | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 150                       | 6    | 64,9                 | 142,7 |
| FBRP85A18  | 18,0       | 3/4   | 2,54                             | 31,0                      | 50            | 164 | 180                       | 7,2  | 92,8                 | 204,2 |
| FBRP85A20  | 20,0       | 25/32 | 3,14                             | 40,0                      | 50            | 164 | 200                       | 7,9  | 115,3                | 253,6 |

approx. 88° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

\*For overlap welding, the recommended minimum pulley diameter must be increased by +30%.

## PU85A green rough



| Order No.   | Diameter $\varnothing$ |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |       |
|-------------|------------------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|-------|
|             | mm                     | inch  |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs   |
| FBRP85A020R | 2,0                    | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 15                                    | 0,6  | 1,2                  | 2,7   |
| FBRP85A030R | 3,0                    | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 25                                    | 1    | 2,7                  | 5,8   |
| FBRP85A040R | 4,0                    | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 35                                    | 1,4  | 4,7                  | 10,3  |
| FBRP85A048R | 4,8                    | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 45                                    | 1,8  | 6,7                  | 14,8  |
| FBRP85A050R | 5,0                    | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 50                                    | 2    | 7,1                  | 15,7  |
| FBRP85A060R | 6,0                    | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 60                                    | 2,4  | 10,4                 | 22,9  |
| FBRP85A063R | 6,3                    | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 65                                    | 2,6  | 11,4                 | 25,1  |
| FBRP85A070R | 7,0                    | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 70                                    | 2,8  | 14,1                 | 31,0  |
| FBRP85A080R | 8,0                    | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 80                                    | 3,2  | 18,4                 | 40,4  |
| FBRP85A095R | 9,5                    | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 95                                    | 3,8  | 25,9                 | 57,0  |
| FBRP85A100R | 10,0                   | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 100                                   | 4    | 28,6                 | 62,8  |
| FBRP85A120R | 12,0                   | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 120                                   | 4,8  | 40,8                 | 89,8  |
| FBRP85A125R | 12,5                   | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 125                                   | 5    | 44,9                 | 98,7  |
| FBRP85A15R  | 15,0                   | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 150                                   | 6    | 64,9                 | 142,7 |
| FBRP85A18R  | 18,0                   | 3/4   | 2,54                             | 31,0                      | 50            | 164 | 180                                   | 7,2  | 92,8                 | 204,2 |
| FBRP85A20R  | 20,0                   | 25/32 | 3,14                             | 40,0                      | 50            | 164 | 200                                   | 7,9  | 115,3                | 253,6 |

approx. 88° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,45 | PE: approx. 0,30 | HDPE: approx. 0,25

## PU85A green smooth, reinforced Aramid



| Order No.    | Diameter $\varnothing$ |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley $\varnothing^*$ |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|--------------|------------------------|-------|----------------------------------|---------------------------|---------------|-----|---|------|----------------------|-------|---------------------|-------|
|              | mm                     | inch  |                                  |                           | m             | ft  | mm                                      | inch | kg                   | lbs   | kg                  | lbs   |
| FBZRP85A050A | 5,0                    | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 50                                      | 2,0  | 7,1                  | 15,7  | -                   | -     |
| FBZRP85A060A | 6,0                    | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 60                                      | 2,3  | 10,4                 | 22,9  | 23,0                | 50,5  |
| FBZRP85A063A | 6,3                    | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 65                                      | 2,5  | 11,4                 | 25,1  | 25,2                | 55,4  |
| FBZRP85A070A | 7,0                    | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 70                                      | 2,8  | 14,1                 | 31,0  | 31,1                | 68,3  |
| FBZRP85A080A | 8,0                    | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 80                                      | 3,2  | 18,4                 | 40,4  | 40,5                | 89,1  |
| FBZRP85A095A | 9,5                    | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 95                                      | 3,7  | 25,9                 | 57,0  | 57,2                | 125,7 |
| FBZRP85A100A | 10,0                   | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 100                                     | 3,9  | 28,6                 | 62,8  | 63,0                | 138,6 |
| FBZRP85A120A | 12,0                   | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 120                                     | 4,7  | 40,8                 | 89,8  | 90,0                | 198,0 |
| FBZRP85A125A | 12,5                   | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 125                                     | 4,9  | 44,9                 | 98,7  | 99,0                | 217,8 |
| FBZRP85A143A | 14,3                   | 9/16  | 1,616                            | 19,3                      | 50            | 164 | 145                                     | 5,7  | 59,0                 | 129,7 | 130,1               | 286,1 |
| FBZRP85A150A | 15,0                   | 19/32 | 1,77                             | 21,5                      | 50            | 164 | 150                                     | 5,9  | 64,9                 | 142,7 | 143,1               | 314,8 |
| FBZRP85A180A | 18,0                   | 3/4   | 2,54                             | 31,0                      | 50            | 164 | 190                                     | 7,5  | 92,8                 | 204,2 | 204,8               | 450,5 |
| FBZRP85A200A | 20,0                   | 25/32 | 3,14                             | 40,0                      | 50            | 164 | 200                                     | 7,9  | 115,3                | 253,6 | 254,3               | 559,4 |

approx. 88° Shore A

Recommended pretension  
0,5...2 %

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

\*For overlap welding, the recommended minimum pulley diameter must be increased by +30%.

## PU85A green rough, reinforced Aramid



| Order No.    | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|--------------|------------|-------|----------------------------------|---------------------------|---------------|-----|----------------------------|------|----------------------|-------|---------------------|-------|
|              | mm         | inch  |                                  |                           | m             | ft  | mm                         | inch | kg                   | lbs   | kg                  | lbs   |
| FBZR85A050RA | 5,0        | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 50                         | 2,0  | 7,1                  | 15,7  | -                   | -     |
| FBZR85A060RA | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 60                         | 2,3  | 10,4                 | 22,9  | 23,0                | 50,5  |
| FBZR85A063RA | 6,3        | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 65                         | 2,5  | 11,4                 | 25,1  | 25,2                | 55,4  |
| FBZR85A070RA | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 70                         | 2,8  | 14,1                 | 31,0  | 31,1                | 68,3  |
| FBZR85A080RA | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 80                         | 3,2  | 18,4                 | 40,4  | 40,5                | 89,1  |
| FBZR85A095RA | 9,5        | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 95                         | 3,7  | 25,9                 | 57,0  | 57,2                | 125,7 |
| FBZR85A100RA | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 100                        | 3,9  | 28,6                 | 62,8  | 63,0                | 138,6 |
| FBZR85A120RA | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 120                        | 4,7  | 40,8                 | 89,8  | 90,0                | 198,0 |
| FBZR85A127RA | 12,5       | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 125                        | 4,9  | 44,9                 | 98,7  | 99,0                | 217,8 |
| FBZR85A143RA | 14,3       | 9/16  | 1,616                            | 19,3                      | 50            | 164 | 145                        | 5,7  | 59,0                 | 129,7 | 130,1               | 286,1 |
| FBZR85A150RA | 15,0       | 19/32 | 1,77                             | 21,5                      | 50            | 164 | 150                        | 5,9  | 64,9                 | 142,7 | 143,1               | 314,8 |
| FBZR85A180RA | 18,0       | 3/4   | 2,54                             | 31,0                      | 50            | 164 | 190                        | 7,5  | 92,8                 | 204,2 | 204,8               | 450,5 |
| FBZR85A200RA | 20,0       | 25/32 | 3,14                             | 40,0                      | 50            | 164 | 200                        | 7,9  | 115,3                | 253,6 | 254,3               | 559,4 |

approx. 88° Shore A

Recommended pretension  
0,5...2 %

Coeff. of friction μ: Steel: approx. 0,45 | PE: approx. 0,30 | HDPE: approx. 0,25

## PU85A ultramarine blue rough



FDA  
EC

| Order No.  | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|------------|------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|            | mm         | inch  |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBRK020LRB | 2,0        | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 15                        | 0,6  | 1,2                  | 2,7   |
| FBRK030LRB | 3,0        | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 25                        | 1    | 2,7                  | 5,8   |
| FBRK040LRB | 4,0        | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 35                        | 1,4  | 4,7                  | 10,3  |
| FBRK048LRB | 4,8        | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 45                        | 1,8  | 6,7                  | 14,8  |
| FBRK050LRB | 5,0        | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 50                        | 2    | 7,1                  | 15,7  |
| FBRK060LRB | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 60                        | 2,4  | 10,4                 | 22,9  |
| FBRK063LRB | 6,3        | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 65                        | 2,6  | 11,4                 | 25,1  |
| FBRK070LRB | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 70                        | 2,8  | 14,1                 | 31,0  |
| FBRK080LRB | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 80                        | 3,2  | 18,4                 | 40,4  |
| FBRK095LRB | 9,5        | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 95                        | 3,8  | 25,9                 | 57,0  |
| FBRK100LRB | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 100                       | 4    | 28,6                 | 62,8  |
| FBRK120LRB | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 120                       | 4,8  | 40,8                 | 89,8  |
| FBRK125LRB | 12,5       | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 125                       | 5    | 44,9                 | 98,7  |
| FBRK150LRB | 15,0       | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 150                       | 6    | 64,9                 | 142,7 |

approx. 88° Shore A

Recommended pretension 4...8 %

Coeff. of friction μ: Steel: approx. 0,45 | PE: approx. 0,30 | HDPE: approx. 0,25 | FDA/EC compliant

\*For overlap welding, the recommended minimum pulley diameter must be increased by +30%.

## PU85A ultramarine blue rough, reinforced Aramid



| Order No.  | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|------------|------------|-------|----------------------------------|---------------------------|---------------|-----|----------------------------|------|----------------------|-------|---------------------|-------|
|            | mm         | inch  |                                  |                           | m             | ft  | mm                         | inch | kg                   | lbs   | kg                  | lbs   |
| FBRK050LRC | 5,0        | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 50                         | 2,0  | 7,1                  | 15,7  | -                   | -     |
| FBRK060LRC | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 60                         | 2,3  | 10,4                 | 22,9  | 23,0                | 50,5  |
| FBRK063LRC | 6,3        | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 65                         | 2,5  | 11,4                 | 25,1  | 25,2                | 55,4  |
| FBRK070LRC | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 70                         | 2,8  | 14,1                 | 31,0  | 31,1                | 68,3  |
| FBRK080LRC | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 80                         | 3,2  | 18,4                 | 40,4  | 40,5                | 89,1  |
| FBRK095LRC | 9,5        | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 95                         | 3,7  | 25,9                 | 57,0  | 57,2                | 125,7 |
| FBRK100LRC | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 100                        | 3,9  | 28,6                 | 62,8  | 63,0                | 138,6 |
| FBRK120LRC | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 120                        | 4,7  | 40,8                 | 89,8  | 90,0                | 198,0 |
| FBRK125LRC | 12,5       | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 125                        | 4,9  | 44,9                 | 98,7  | 99,0                | 217,8 |
| FBRK150LRC | 15,0       | 19/32 | 1,77                             | 21,5                      | 50            | 164 | 150                        | 5,9  | 64,9                 | 142,7 | 143,1               | 314,8 |

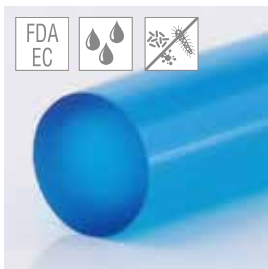
approx. 88° Shore A

Recommended pretension

0,5...2 %

Coeff. of friction  $\mu$ : Steel: approx. 0,45 | PE: approx. 0,30 | HDPE: approx. 0,25 | FDA/EC compliant

## PU85A sapphire blue smooth



| Order No.    | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|--------------|------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|              | mm         | inch  |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBRK020LGAAA | 2,0        | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 15                        | 0,6  | 1,0                  | 2,2   |
| FBRK030LGAAA | 3,0        | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 25                        | 1    | 2,4                  | 5,3   |
| FBRK040LGAAA | 4,0        | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 35                        | 1,4  | 4,2                  | 9,3   |
| FBRK048LGAAA | 4,8        | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 45                        | 1,8  | 6,3                  | 13,8  |
| FBRK050LGAAA | 5,0        | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 50                        | 2    | 6,7                  | 14,7  |
| FBRK060LGAAA | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 60                        | 2,4  | 9,7                  | 21,3  |
| FBRK063LGAAA | 6,3        | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 65                        | 2,6  | 10,7                 | 23,6  |
| FBRK070LGAAA | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 70                        | 2,8  | 13,1                 | 28,9  |
| FBRK080LGAAA | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 80                        | 3,2  | 17,2                 | 37,8  |
| FBRK095LGAAA | 9,5        | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 95                        | 3,8  | 24,4                 | 53,8  |
| FBRK100LGAAA | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 100                       | 4    | 26,9                 | 59,1  |
| FBRK120LGAAA | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 120                       | 4,8  | 38,8                 | 85,3  |
| FBRK125LGAAA | 12,5       | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 125                       | 5    | 42,2                 | 92,9  |
| FBRK150LGAAA | 15,0       | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 150                       | 6    | 60,8                 | 133,8 |

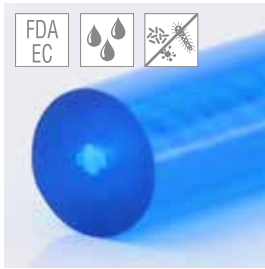
approx. 88° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

\*For overlap welding, the recommended minimum pulley diameter must be increased by +30%.

## PU85A sapphire blue smooth, reinforced Polyester



approx. 88° Shore A

Recommended pretension  
0,5...2 %

| Order No.    | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|--------------|------------|-------|----------------------------------|---------------------------|---------------|-----|----------------------------|------|----------------------|-------|---------------------|-------|
|              | mm         | inch  |                                  |                           | m             | ft  | mm                         | inch | kg                   | lbs   | kg                  | lbs   |
| FBRK060LGAAC | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 60                         | 2,4  | 9,7                  | 21,3  | 21,6                | 47,5  |
| FBRK063LGA   | 6,3        | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 65                         | 2,6  | 10,7                 | 23,6  | 23,9                | 52,5  |
| FBRK070LGA   | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 70                         | 2,8  | 13,1                 | 28,9  | 29,3                | 64,4  |
| FBRK080LGA   | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 80                         | 3,2  | 17,2                 | 37,8  | 38,3                | 84,2  |
| FBRK095LGA   | 9,5        | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 95                         | 3,7  | 24,4                 | 53,8  | 54,5                | 119,8 |
| FBRK100LGA   | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 100                        | 3,9  | 26,9                 | 59,1  | 59,9                | 131,7 |
| FBRK120LGA   | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 120                        | 4,7  | 38,8                 | 85,3  | 86,4                | 190,1 |
| FBRK125LGA   | 12,5       | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 125                        | 4,9  | 42,2                 | 92,9  | 94,1                | 206,9 |
| FBRK150LGA   | 15,0       | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 150                        | 5,9  | 60,8                 | 133,8 | 135,5               | 298,0 |

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU85A plus ultramarine blue rough



approx. 88° Shore A

Recommended pretension 3...6 %

| Order No. | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-----------|------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|           | mm         | inch  |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBRK020LR | 2,0        | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 15                        | 0,6  | 1,3                  | 2,9   |
| FBRK030LR | 3,0        | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 25                        | 1    | 3,0                  | 6,6   |
| FBRK040LR | 4,0        | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 35                        | 1,4  | 5,3                  | 11,6  |
| FBRK048LR | 4,8        | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 45                        | 1,8  | 7,5                  | 16,5  |
| FBRK050LR | 5,0        | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 50                        | 2    | 8,1                  | 17,8  |
| FBRK060LR | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 60                        | 2,4  | 11,7                 | 25,6  |
| FBRK063LR | 6,3        | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 65                        | 2,6  | 12,8                 | 28,1  |
| FBRK070LR | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 70                        | 2,8  | 16,0                 | 35,2  |
| FBRK080LR | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 80                        | 3,2  | 20,7                 | 45,5  |
| FBRK095LR | 9,5        | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 95                        | 3,8  | 29,3                 | 64,5  |
| FBRK100LR | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 100                       | 4    | 32,5                 | 71,6  |
| FBRK120LR | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 120                       | 4,7  | 46,5                 | 102,3 |
| FBRK125LR | 12,5       | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 125                       | 4,9  | 51,2                 | 112,6 |
| FBRK150LR | 15,0       | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 150                       | 5,9  | 74,0                 | 162,8 |

Coeff. of friction  $\mu$ : Steel: approx. 0,45 | PE: approx. 0,30 | HDPE: approx. 0,25

## PU85A ultramarine blue smooth, reinforced glass fibre PU



approx. 88° Shore A

Recommended pretension  
0,5...2 %

| Order No.   | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             | mm         | inch  |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBZRP85A080 | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 85                        | 3,4  | 19,8                 | 43,5  |
| FBZRP85A095 | 9,5        | 3/8   | 0,71                             | 8,5                       | 100           | 328 | 100                       | 4,0  | 28,1                 | 61,9  |
| FBZRP85A100 | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 105                       | 4,2  | 31,0                 | 68,2  |
| FBZRP85A120 | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 125                       | 5,0  | 44,7                 | 98,3  |
| FBZRP85A125 | 12,5       | 1/2   | 1,23                             | 14,8                      | 50            | 164 | 130                       | 5,2  | 48,6                 | 107,0 |
| FBZRP85A143 | 14,3       | 9/16  | 1,605                            | 21,0                      | 50            | 164 | 150                       | 6,0  | 63,4                 | 139,4 |
| FBZRP85A150 | 15,0       | 19/32 | 1,77                             | 21,5                      | 50            | 164 | 155                       | 6,2  | 69,9                 | 153,8 |

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

\*For overlap welding, the recommended minimum pulley diameter must be increased by +30%.

## PU85A ultramarine blue rough, reinforced glass fibre PU



| Order No.    | Diameter $\varnothing$ |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |       |
|--------------|------------------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|-------|
|              | mm                     | inch  |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs   |
| FBZRP85A080R | 8,0                    | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 85                                    | 3,2  | 19,8                 | 43,5  |
| FBZRP85A095R | 9,5                    | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 100                                   | 3,7  | 28,1                 | 61,9  |
| FBZRP85A100R | 10,0                   | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 105                                   | 3,9  | 31,0                 | 68,2  |
| FBZRP85A120R | 12,0                   | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 125                                   | 4,7  | 44,7                 | 98,3  |
| FBZRP85A125R | 12,5                   | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 130                                   | 4,9  | 48,6                 | 107,0 |
| FBZRP85A143R | 14,3                   | 9/16  | 1,605                            | 21,0                      | 50            | 164 | 150                                   | 5,7  | 63,4                 | 139,4 |
| FBZRP85A150R | 15,0                   | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 155                                   | 5,9  | 69,9                 | 153,8 |
| FBZRP85A180R | 18,0                   | 3/4   | 2,54                             | 31,0                      | 50            | 164 | 195                                   | 7,5  | -                    | -     |
| FBZRP85A200R | 20,0                   | 25/32 | 3,14                             | 40,0                      | 50            | 164 | 205                                   | 7,9  | -                    | -     |

approx. 88° Shore A

Recommended pretension

0,5...2 %

Coeff. of friction  $\mu$ : Steel: approx. 0,45 | PE: approx. 0,30 | HDPE: approx. 0,25

## PU85A emerald green smooth, antistatic-dissipative



Belt for electrostatic discharge.

| Order No.    | Diameter $\varnothing$ |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |       |
|--------------|------------------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|-------|
|              | mm                     | inch  |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs   |
| FBRK020GGAAA | 2,0                    | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 15                                    | 0,6  | 1,2                  | 2,7   |
| FBRK030GGAAA | 3,0                    | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 25                                    | 1    | 2,7                  | 5,8   |
| FBRK040GGAAA | 4,0                    | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 35                                    | 1,4  | 4,7                  | 10,3  |
| FBRK048GGAAA | 4,8                    | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 45                                    | 1,8  | 6,7                  | 14,8  |
| FBRK050GGAAA | 5,0                    | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 50                                    | 2    | 7,1                  | 15,7  |
| FBRK060GGAAA | 6,0                    | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 60                                    | 2,4  | 10,4                 | 22,9  |
| FBRK063GGAAA | 6,3                    | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 65                                    | 2,6  | 11,4                 | 25,1  |
| FBRK070GGAAA | 7,0                    | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 70                                    | 2,8  | 14,1                 | 31,0  |
| FBRK080GGAAA | 8,0                    | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 80                                    | 3,2  | 18,4                 | 40,4  |
| FBRK095GGAAA | 9,5                    | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 95                                    | 3,8  | 25,9                 | 57,0  |
| FBRK100GGAAA | 10,0                   | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 100                                   | 4    | 28,6                 | 62,8  |
| FBRK120GGAAA | 12,0                   | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 120                                   | 4,8  | 40,8                 | 89,8  |
| FBRK125GGAAA | 12,5                   | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 125                                   | 5    | 44,9                 | 98,7  |
| FBRK150GGAAA | 15,0                   | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 150                                   | 6    | 64,9                 | 142,7 |

approx. 88° Shore A

Recommended pretension 4...8 %

$R_g = <10^9 \Omega (1 G\Omega)$

Surface resistance to ground according to IEC61340-2-3/EN61340-5-1

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU85A black smooth, antistatic conductive



| Order No.  | Diameter $\varnothing$ |      | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |      |
|------------|------------------------|------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|------|
|            | mm                     | inch |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs  |
| FBRK030SGA | 3,0                    | 1/8  | 0,071                            | 0,9                       | 200           | 656 | 30                                    | 1,2  | 2,3                  | 5,1  |
| FBRK040SGA | 4,0                    | 5/32 | 0,126                            | 1,6                       | 200           | 656 | 40                                    | 1,6  | 4,1                  | 9,2  |
| FBRK050SGA | 5,0                    | 1/5  | 0,197                            | 2,4                       | 100           | 328 | 50                                    | 2,0  | 6,2                  | 13,6 |
| FBRK060SGA | 6,0                    | 7/32 | 0,283                            | 3,4                       | 100           | 328 | 60                                    | 2,4  | 9,1                  | 20,0 |

approx. 88° Shore A

Recommended pretension 3...6 %

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

Belt for electrostatic discharge,  $R_g = 10^6 \Omega (1 M\Omega)$ , Surface resistance to ground according to IEC61340-2-3/EN61340-5-1



## PU90A white smooth



● red upon request

| Order No.  | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|------------|------------|-------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|            | mm         | inch  |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBRP90A020 | 2,0        | 5/64  | 0,032                            | 0,5                        | 200           | 656 | 20                        | 0,8  | 1,9                  | 4,1   |
| FBRP90A030 | 3,0        | 1/8   | 0,071                            | 0,9                        | 200           | 656 | 30                        | 1,2  | 3,4                  | 7,4   |
| FBRP90A040 | 4,0        | 5/32  | 0,126                            | 1,6                        | 200           | 656 | 40                        | 1,6  | 5,9                  | 12,9  |
| FBRP90A048 | 4,8        | 3/16  | 0,181                            | 2,2                        | 200           | 656 | 50                        | 2    | 8,5                  | 18,7  |
| FBRP90A050 | 5,0        | 1/5   | 0,197                            | 2,4                        | 100           | 328 | 55                        | 2,2  | 9,3                  | 20,4  |
| FBRP90A060 | 6,0        | 7/32  | 0,283                            | 3,4                        | 100           | 328 | 70                        | 2,8  | 13,3                 | 29,2  |
| FBRP90A063 | 6,3        | 1/4   | 0,310                            | 3,8                        | 100           | 328 | 75                        | 3    | 14,6                 | 32,2  |
| FBRP90A070 | 7,0        | 9/32  | 0,385                            | 4,7                        | 100           | 328 | 85                        | 3,3  | 18,3                 | 40,2  |
| FBRP90A080 | 8,0        | 5/16  | 0,500                            | 6,0                        | 100           | 328 | 90                        | 3,6  | 23,8                 | 52,3  |
| FBRP90A095 | 9,5        | 3/8   | 0,710                            | 8,5                        | 100           | 328 | 105                       | 4,2  | 33,3                 | 73,2  |
| FBRP90A100 | 10,0       | 7/16  | 0,785                            | 9,4                        | 50            | 164 | 110                       | 4,4  | 37,3                 | 82,0  |
| FBRP90A120 | 12,0       | 15/32 | 1,130                            | 13,5                       | 50            | 164 | 130                       | 5,1  | 53,3                 | 117,2 |
| FBRP90A125 | 12,5       | 1/2   | 1,23                             | 14,8                       | 50            | 164 | 135                       | 5,3  | 58,0                 | 127,6 |
| FBRP90A15  | 15,0       | 19/32 | 1,770                            | 21,5                       | 50            | 164 | 165                       | 6,5  | 83,6                 | 184,0 |
| FBRP90A18  | 18,0       | 3/4   | 2,54                             | 31,0                       | 50            | 164 | 200                       | 7,9  | 119,8                | 263,5 |
| FBRP90A20  | 20,0       | 25/32 | 3,14                             | 40,0                       | 50            | 164 | 220                       | 8,7  | 148,3                | 326,2 |

approx. 92° Shore A

Recommended pretension 3...5 %

**Coeff. of friction  $\mu$**

|       |              |
|-------|--------------|
| Steel | approx. 0,50 |
| PE    | approx. 0,30 |
| HDPE  | approx. 0,25 |

## PU90A white smooth, reinforced Polyester



approx. 92° Shore A

Recommended pretension  
0,5...2 %

**Coeff. of friction  $\mu$**

|       |              |
|-------|--------------|
| Steel | approx. 0,50 |
| PE    | approx. 0,30 |
| HDPE  | approx. 0,25 |

| Order No.    | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100 m | Standard roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|--------------|------------|-------|----------------------------------|----------------------------|---------------|-----|----------------------------|------|----------------------|-------|---------------------|-------|
|              | mm         | inch  |                                  |                            | m             | ft  | mm                         | inch | kg                   | lbs   | kg                  | lbs   |
| FBZRP90A060P | 6,0        | 7/32  | 0,283                            | 3,4                        | 100           | 328 | 70                         | 2,8  | 13,4                 | 29,6  | 22,5                | 49,5  |
| FBZRP90A063P | 6,3        | 1/4   | 0,310                            | 3,8                        | 100           | 328 | 75                         | 3    | 14,8                 | 32,5  | 26,3                | 57,8  |
| FBZRP90A070P | 7,0        | 9/32  | 0,385                            | 4,7                        | 100           | 328 | 85                         | 3,3  | 18,4                 | 40,6  | 37,5                | 82,5  |
| FBZRP90A080P | 8,0        | 5/16  | 0,500                            | 6,0                        | 100           | 328 | 90                         | 3,6  | 24,0                 | 52,8  | 48,8                | 107,3 |
| FBZRP90A095P | 9,5        | 3/8   | 0,710                            | 8,5                        | 100           | 328 | 105                        | 4,2  | 33,6                 | 73,9  | 56,3                | 123,8 |
| FBZRP90A100P | 10,0       | 7/16  | 0,785                            | 9,4                        | 50            | 164 | 110                        | 4,4  | 37,6                 | 82,8  | 60,0                | 132,0 |
| FBZRP90A120P | 12,0       | 15/32 | 1,130                            | 13,5                       | 50            | 164 | 130                        | 5,1  | 53,8                 | 118,3 | 101,3               | 222,8 |
| FBZRP90A125P | 12,5       | 1/2   | 1,230                            | 14,8                       | 50            | 164 | 135                        | 5,3  | 58,6                 | 128,8 | 108,8               | 239,3 |
| FBZRP90A150P | 15,0       | 19/32 | 1,770                            | 21,5                       | 50            | 164 | 165                        | 6,5  | 84,5                 | 185,9 | 172,5               | 379,5 |
| FBZRP90A180P | 18,0       | 3/4   | 2,54                             | 31,0                       | 50            | 164 | 200                        | 7,9  | 121,0                | 266,1 | 225,0               | 495,0 |
| FBZRP90A200P | 20,0       | 25/32 | 3,14                             | 40,0                       | 50            | 164 | 220                        | 8,7  | -                    | -     | -                   | -     |

\*For overlap welding, the recommended minimum pulley diameter must be increased by +30%.

## TPE40D beige smooth



FDA  
EC

- TPE 40D beige smooth with reinforcement on request

| Order No.   | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             | mm         | inch  |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBRK040D020 | 2,0        | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 20                        | 0,8  | 1,9                  | 4,2   |
| FBRK040D030 | 3,0        | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 30                        | 1,2  | 4,1                  | 9,1   |
| FBRK040D040 | 4,0        | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 40                        | 1,6  | 7,6                  | 16,6  |
| FBRK040D048 | 4,8        | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 50                        | 2    | 10,8                 | 23,8  |
| FBRK040D050 | 5,0        | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 55                        | 2,2  | 11,7                 | 25,7  |
| FBRK040D060 | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 70                        | 2,8  | 17,0                 | 37,5  |
| FBRK040D063 | 6,3        | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 75                        | 3    | 18,7                 | 41,2  |
| FBRK040D070 | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 85                        | 3,3  | 23,0                 | 50,7  |
| FBRK040D080 | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 90                        | 3,6  | 30,1                 | 66,2  |
| FBRK040D095 | 9,5        | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 105                       | 4,2  | 42,8                 | 94,2  |
| FBRK040D100 | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 110                       | 4,4  | 47,1                 | 103,7 |
| FBRK040D120 | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 130                       | 5,1  | 67,9                 | 149,5 |
| FBRK040D125 | 12,5       | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 135                       | 5,3  | 74,0                 | 162,7 |
| FBRK040D150 | 15,0       | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 165                       | 6,5  | 106,5                | 234,2 |
| FBRK040D180 | 18,0       | 3/4   | 2,54                             | 31,0                      | 50            | 164 | 200                       | 7,9  | 151,4                | 333,0 |
| FBRK040D200 | 20,0       | 25/32 | 3,14                             | 40,0                      | 50            | 164 | 220                       | 8,7  | 188,2                | 414,0 |

approx. 40° Shore D / 95° Shore A

Recommended pretension 2...4 %

Coeff. of friction  $\mu$ : Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25 | FDA/EC/USDA compliant

## TPE55D beige smooth



FDA  
EC

- Further colours on request

| Order No.   | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|------------|-------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             | mm         | inch  |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBRH55D020B | 2,0        | 5/64  | 0,032                            | 0,5                       | 200           | 656 | 30                        | 1,2  | 2,4                  | 5,3   |
| FBRH55D030B | 3,0        | 1/8   | 0,071                            | 0,9                       | 200           | 656 | 40                        | 1,6  | 5,6                  | 12,3  |
| FBRH55D040B | 4,0        | 5/32  | 0,126                            | 1,6                       | 200           | 656 | 50                        | 2    | 9,9                  | 21,8  |
| FBRH55D048B | 4,8        | 3/16  | 0,181                            | 2,2                       | 200           | 656 | 60                        | 2,4  | 14,4                 | 31,7  |
| FBRH55D050B | 5,0        | 1/5   | 0,197                            | 2,4                       | 100           | 328 | 65                        | 2,6  | 15,7                 | 34,5  |
| FBRH55D060B | 6,0        | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 80                        | 3,2  | 22,4                 | 49,3  |
| FBRH55D063B | 6,3        | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 85                        | 3,3  | 24,8                 | 54,6  |
| FBRH55D070B | 7,0        | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 95                        | 3,7  | 30,4                 | 66,9  |
| FBRH55D080B | 8,0        | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 110                       | 4,3  | 40,0                 | 88,0  |
| FBRH55D095B | 9,5        | 3/8   | 0,710                            | 8,5                       | 100           | 328 | 135                       | 5,3  | 56,0                 | 123,2 |
| FBRH55D100B | 10,0       | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 145                       | 5,7  | 62,9                 | 138,3 |
| FBRH55D120B | 12,0       | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 170                       | 6,7  | 90,6                 | 199,2 |
| FBRH55D125B | 12,5       | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 180                       | 7,1  | 97,6                 | 214,7 |
| FBRH55D150B | 15,0       | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 210                       | 8,3  | 140,8                | 309,8 |
| FBRH55D180B | 18,0       | 3/4   | 2,54                             | 31,0                      | 50            | 164 | 250                       | 9,8  | 203,2                | 447,0 |
| FBRH55D200B | 20,0       | 25/32 | 3,14                             | 40,0                      | 50            | 164 | 300                       | 12   | 251,2                | 552,6 |

approx. 55° Shore D / 100° Shore A

Recommended pretension 2...4 %

Coeff. of friction  $\mu$ : Steel: approx. 0,35 | PE: approx. 0,20 | HDPE: approx. 0,15 | FDA/EC/USDA compliant

## TPE55D beige smooth, reinforced Polyester



FDA EC

55° Shore D · approx. 100° Shore A

Recommended pretension 0,5...2 %

**Coeff. of friction  $\mu$**

|       |              |
|-------|--------------|
| Steel | approx. 0,35 |
| PE    | approx. 0,20 |
| HDPE  | approx. 0,15 |

FDA/EC/USDA compliant

| Order No.    | Diameter $\varnothing$ |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley $\varnothing^*$ |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|--------------|------------------------|-------|----------------------------------|---------------------------|---------------|-----|---|------|----------------------|-------|---------------------|-------|
|              | mm                     | inch  |                                  |                           | m             | ft  | mm                                      | inch | kg                   | lbs   | kg                  | lbs   |
| FBZRH55D060B | 6,0                    | 7/32  | 0,283                            | 3,4                       | 100           | 328 | 80                                      | 3,2  | 22,4                 | 49,3  | 45,0                | 99,0  |
| FBZRH55D063B | 6,3                    | 1/4   | 0,310                            | 3,8                       | 100           | 328 | 85                                      | 3,3  | 24,8                 | 54,6  | 48,8                | 107,3 |
| FBZRH55D070B | 7,0                    | 9/32  | 0,385                            | 4,7                       | 100           | 328 | 95                                      | 3,7  | 30,4                 | 66,9  | 60,0                | 132,0 |
| FBZRH55D080B | 8,0                    | 5/16  | 0,500                            | 6,0                       | 100           | 328 | 110                                     | 4,3  | 40,0                 | 88,0  | 71,3                | 156,8 |
| FBZRH55D095B | 9,5                    | 3/8   | 0,771                            | 8,5                       | 100           | 328 | 135                                     | 5,3  | 56,0                 | 123,2 | 90,0                | 198,0 |
| FBZRH55D100B | 10,0                   | 7/16  | 0,785                            | 9,4                       | 50            | 164 | 145                                     | 5,7  | 62,9                 | 138,3 | 97,5                | 214,5 |
| FBZRH55D120B | 12,0                   | 15/32 | 1,130                            | 13,5                      | 50            | 164 | 170                                     | 6,7  | 90,6                 | 199,2 | 127,5               | 280,5 |
| FBZRH55D125B | 12,5                   | 1/2   | 1,230                            | 14,8                      | 50            | 164 | 180                                     | 7,1  | 97,6                 | 214,7 | 135,0               | 297,0 |
| FBZRH55D150B | 15,0                   | 19/32 | 1,770                            | 21,5                      | 50            | 164 | 210                                     | 8,3  | 140,8                | 309,8 | 206,3               | 453,8 |
| FBZRH55D180B | 18,0                   | 3/4   | 2,54                             | 31,0                      | 50            | 164 | 250                                     | 9,8  | 203,2                | 447,0 | 243,8               | 536,3 |
| FBZRH55D200B | 20,0                   | 25/32 | 3,14                             | 40,0                      | 50            | 164 | 300                                     | 11,8 | -                    | -     | -                   | -     |



### Hollow round belt with brass connector

Hollow round belts generally offer two advantages:

- The flexibility of the belts allows them to be used for small pulley diameters
- In case of belt breakage, the downtime can be bridged immediately with a nipple connection. (However, hollow round belts should always be welded.)

## PU75A red smooth hollow round belt



approx. 80° Shore A

Recommended pretension 4...8 %

| Order No.  | Diameter $\varnothing$ |        | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |      |
|------------|------------------------|--------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|------|
|            | Outer                  | Inside |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs  |
| FBHP75A048 | 4,8                    | 1,8    | 0,147                            | 1,8                       | 200           | 656 | 30                                    | 1,2  | 3,7                  | 8,1  |
| FBHP75A063 | 6,3                    | 2,5    | 0,261                            | 3,2                       | 100           | 328 | 45                                    | 1,8  | 6,7                  | 14,7 |
| FBHP75A080 | 8,0                    | 3,2    | 0,420                            | 5,1                       | 100           | 328 | 55                                    | 2,2  | 10,8                 | 23,8 |
| FBHP75A095 | 9,5                    | 3,8    | 0,600                            | 7,2                       | 100           | 328 | 65                                    | 2,6  | 15,3                 | 33,7 |
| FBHP75A125 | 12,5                   | 5,2    | 1,020                            | 12,4                      | 50            | 164 | 85                                    | 3,4  | 26,1                 | 57,4 |
| FBHP75A150 | 15,0                   | 5,2    | 1,560                            | 19,0                      | 50            | 164 | 100                                   | 4,0  | 39,6                 | 87,1 |

**Coeff. of friction  $\mu$ :** Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

## PU75A sky blue smooth hollow round belt



FDA EC 

approx. 80° Shore A

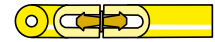
Recommended pretension 4...8 %

| Order No.    | Diameter $\varnothing$ |        | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |      |
|--------------|------------------------|--------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|------|
|              | Outer                  | Inside |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs  |
| FBHP75A048HI | 4,8                    | 1,8    | 0,147                            | 1,8                       | 200           | 656 | 30                                    | 1,2  | 3,6                  | 7,9  |
| FBHP75A063HI | 6,3                    | 2,5    | 0,261                            | 3,2                       | 100           | 328 | 45                                    | 1,8  | 6,2                  | 13,6 |
| FBHP75A080HI | 8,0                    | 3,2    | 0,420                            | 5,1                       | 100           | 328 | 55                                    | 2,2  | 10,0                 | 22,2 |
| FBHP75A095HI | 9,5                    | 3,8    | 0,600                            | 7,2                       | 100           | 328 | 65                                    | 2,6  | 14,4                 | 31,7 |
| FBHP75A125HI | 12,5                   | 5,2    | 1,020                            | 12,4                      | 50            | 164 | 85                                    | 3,4  | 24,4                 | 53,7 |
| FBHP75A150HI | 15,0                   | 5,2    | 1,560                            | 19,0                      | 50            | 164 | 100                                   | 4,0  | 37,4                 | 82,3 |

**Coeff. of friction  $\mu$ :** Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | FDA/EC/USDA compliant

\*For overlap welding, the recommended minimum pulley diameter must be increased by +30%.

## PU85A yellow smooth hollow round belt



approx. 88° Shore A

Recommended pretension 4...8 %

| Order No.    | Diameter Ø |        | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended<br>Min.-pulley-Ø |      | Fmax/belt<br>(Standard) |       |
|--------------|------------|--------|----------------------------------|---------------------------|---------------|-----|------------------------------|------|-------------------------|-------|
|              | Outer      | Inside |                                  |                           | m             | ft  | mm                           | inch | kg                      | lbs   |
| FBHP85A048GE | 4,8        | 1,8    | 0,147                            | 1,8                       | 200           | 656 | 35                           | 1,4  | 5,3                     | 11,7  |
| FBHP85A063GE | 6,3        | 2,5    | 0,261                            | 3,2                       | 100           | 328 | 55                           | 2,2  | 9,4                     | 20,6  |
| FBHP85A080GE | 8,0        | 3,2    | 0,420                            | 5,1                       | 100           | 328 | 65                           | 2,6  | 15,3                    | 33,7  |
| FBHP85A095GE | 9,5        | 3,8    | 0,600                            | 7,2                       | 100           | 328 | 75                           | 3,0  | 20,4                    | 44,9  |
| FBHP85A125GE | 12,5       | 5,2    | 1,020                            | 12,4                      | 50            | 164 | 100                          | 3,9  | 36,7                    | 80,8  |
| FBHP85A150GE | 15,0       | 5,2    | 1,560                            | 19,0                      | 50            | 164 | 120                          | 4,7  | 57,1                    | 125,7 |

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU85A green rough hollow round belt



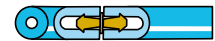
approx. 88° Shore A

Recommended pretension 4...8 %

| Order No.   | Diameter Ø |        | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended<br>Min.-pulley-Ø |      | Fmax/belt<br>(Standard) |       |
|-------------|------------|--------|----------------------------------|---------------------------|---------------|-----|------------------------------|------|-------------------------|-------|
|             | Outer      | Inside |                                  |                           | m             | ft  | mm                           | inch | kg                      | lbs   |
| FBHP85A048R | 4,8        | 1,8    | 0,147                            | 1,8                       | 200           | 656 | 35                           | 1,4  | 5,3                     | 11,7  |
| FBHP85A063R | 6,3        | 2,5    | 0,261                            | 3,2                       | 100           | 328 | 55                           | 2,2  | 9,4                     | 20,6  |
| FBHP85A080R | 8,0        | 3,2    | 0,420                            | 5,1                       | 100           | 328 | 65                           | 2,6  | 15,3                    | 33,7  |
| FBHP85A095R | 9,5        | 3,8    | 0,600                            | 7,2                       | 100           | 328 | 75                           | 3,0  | 20,4                    | 44,9  |
| FBHP85A125R | 12,5       | 5,2    | 1,020                            | 12,4                      | 50            | 164 | 100                          | 3,9  | 36,7                    | 80,8  |
| FBHP85A150R | 15,0       | 5,2    | 1,560                            | 19,0                      | 50            | 164 | 120                          | 4,7  | 57,1                    | 125,7 |

Coeff. of friction  $\mu$ : Steel: approx. 0,45 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU85A sapphire blue smooth hollow round belt



approx. 88° Shore A

Recommended pretension 4...8 %

| Order No. | Diameter Ø |        | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended<br>Min. pulley Ø |      | Fmax/belt<br>(Standard) |       |
|-----------|------------|--------|----------------------------------|---------------------------|---------------|-----|------------------------------|------|-------------------------|-------|
|           | Outer      | Inside |                                  |                           | m             | ft  | mm                           | inch | kg                      | lbs   |
| FBHK048LG | 4,8        | 1,8    | 0,147                            | 1,8                       | 200           | 656 | 35                           | 1,4  | 5,1                     | 11,1  |
| FBHK063LG | 6,3        | 2,5    | 0,261                            | 3,2                       | 100           | 328 | 55                           | 2,2  | 9,0                     | 19,8  |
| FBHK080LG | 8,0        | 3,2    | 0,420                            | 5,1                       | 100           | 328 | 65                           | 2,6  | 14,4                    | 31,8  |
| FBHK095LG | 9,5        | 3,8    | 0,600                            | 7,2                       | 100           | 328 | 75                           | 3,0  | 20,6                    | 45,3  |
| FBHK125LG | 12,5       | 5,2    | 1,020                            | 12,4                      | 50            | 164 | 100                          | 3,9  | 35,0                    | 77,1  |
| FBHK150LG | 15,0       | 5,2    | 1,560                            | 19,0                      | 50            | 164 | 120                          | 4,7  | 53,5                    | 117,8 |

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU90A white smooth hollow round belt



approx. 92° Shore A

Recommended pretension 3...5 %

| Order No.  | Diameter Ø |        | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended<br>Min. pulley Ø |      | Fmax/belt<br>(Standard) |       |
|------------|------------|--------|----------------------------------|---------------------------|---------------|-----|------------------------------|------|-------------------------|-------|
|            | Outer      | Inside |                                  |                           | m             | ft  | mm                           | inch | kg                      | lbs   |
| FBHP90A048 | 4,8        | 1,8    | 0,147                            | 1,8                       | 200           | 656 | 45                           | 1,8  | 8,6                     | 19,0  |
| FBHP90A063 | 6,3        | 2,5    | 0,261                            | 3,2                       | 100           | 328 | 60                           | 2,4  | 12,4                    | 27,2  |
| FBHP90A080 | 8,0        | 3,2    | 0,420                            | 5,1                       | 100           | 328 | 75                           | 3,0  | 19,0                    | 41,8  |
| FBHP90A095 | 9,5        | 3,8    | 0,600                            | 7,2                       | 100           | 328 | 85                           | 3,4  | 28,5                    | 62,7  |
| FBHP90A125 | 12,5       | 5,2    | 1,020                            | 12,4                      | 50            | 164 | 115                          | 4,5  | 47,5                    | 104,5 |
| FBHP90A150 | 15,0       | 5,2    | 1,560                            | 19,0                      | 50            | 164 | 140                          | 5,5  | 72,3                    | 159,0 |

Coeff. of friction  $\mu$ : Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25



## Can Cables

The following round belts are specially designed for the transport of empty or filled cans on short or very long conveying distances.

Our professional welding technology ensures safe and durable joinings.

A special feature is the CRIMP connection for steel tension members (p. 109).

## PU95A red smooth, reinforced Aramid



| Order No. | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100 m | Standard roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |     |
|-----------|------------|-------|----------------------------------|----------------------------|---------------|-----|----------------------------|------|----------------------|-------|---------------------|-----|
|           | mm         | inch  |                                  |                            | m             | ft  | mm                         | inch | kg                   | lbs   | kg                  | lbs |
| FBRN095RM | 9,5        | 3/8   | 0,71                             | 8,5                        | 152           | 500 | 175                        | 6,9  | 35,5                 | 78,1  | 210                 | 462 |
| FBRN100RM | 10,0       | 7/16  | 0,785                            | 9,4                        | 152           | 500 | 185                        | 7,3  | 39,3                 | 86,5  | 210                 | 462 |
| FBRN120RM | 12,0       | 15/32 | 1,13                             | 13,5                       | 152           | 500 | 220                        | 8,7  | 56,6                 | 124,5 | 210                 | 462 |
| FBRN125RM | 12,5       | 1/2   | 1,23                             | 14,8                       | 152           | 500 | 230                        | 9,1  | 61,6                 | 136   | 210                 | 462 |

approx. 95° Shore A

Recommended pretension 0,5...2 %, **Coeff. of friction μ**: Steel: approx. 0,40 | PE: approx. 0,25 | HDPE: approx. 0,20

## PU95A red slightly rough, reinforced Aramid



| Order No.  | Diameter Ø |      | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100 m | Standard roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |      | Fmax/belt (Overlap) |     |
|------------|------------|------|----------------------------------|----------------------------|---------------|-----|----------------------------|------|----------------------|------|---------------------|-----|
|            | mm         | inch |                                  |                            | m             | ft  | mm                         | inch | kg                   | lbs  | kg                  | lbs |
| FBRN095RMA | 9,5        | 3/8  | 0,71                             | 8,5                        | 152           | 500 | 175                        | 6,9  | 35,5                 | 78,1 | 210                 | 462 |

approx. 95° Shore A

Recommended pretension 0,5...2 %, **Coeff. of friction μ**: Steel: approx. 0,40 | PE: approx. 0,25 | HDPE: approx. 0,20

## TPE55D beige smooth, reinforced steel



| Order No.  | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |      | Recommended Min. pulley Ø |      | Fmax/Belt (CRIMP) ★ |       |
|------------|------------|-------|----------------------------------|----------------------------|---------------|------|---------------------------|------|---------------------|-------|
|            | mm         | inch  |                                  |                            | m             | ft   | mm                        | inch | kg                  | lbs   |
| FBRS095BGB | 9,5        | 3/8   | 0,710                            | 8,5                        | 500           | 1640 | 380                       | 15,0 | 225,0               | 495,0 |
| FBRS100BGB | 10,0       | 7/16  | 0,785                            | 9,4                        | 500           | 1640 | 380                       | 15,0 | 225,0               | 495,0 |
| FBRS120BGB | 12,0       | 15/32 | 1,082                            | 13,0                       | 500           | 1640 | 380                       | 15,0 | 225,0               | 495,0 |
| FBRS125BGB | 12,5       | 1/2   | 1,230                            | 14,8                       | 500           | 1640 | 380                       | 15,0 | 225,0               | 495,0 |

Recommended pretension max. 0,5 %

55° Shore D - approx. 100° Shore A

**Coeff. of friction μ**: Steel: approx. 0,35 | PE: approx. 0,20 | HDPE: approx. 0,15 | **FDA/EC/USDA compliant**

\*Overlap +30%; ★ Crimp sleeve connection / connection set and tool on page 109.

## TPE55D sky blue smooth, reinforced Aramid



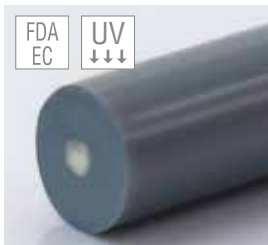
| Order No.  | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |     |
|------------|------------|-------|----------------------------------|---------------------------|---------------|-----|----------------------------|------|----------------------|-------|---------------------|-----|
|            | mm         | inch  |                                  |                           | m             | ft  | mm                         | inch | kg                   | lbs   | kg                  | lbs |
| FBRS095LGA | 9,5        | 3/8   | 0,71                             | 8,5                       | 152           | 500 | 175                        | 6,9  | 56                   | 123,2 | 225                 | 495 |
| FBRS100LGA | 10,0       | 7/16  | 0,785                            | 9,4                       | 152           | 500 | 185                        | 7,3  | 62,9                 | 138,3 | 225                 | 495 |
| FBRS120LGA | 12,0       | 15/32 | 1,13                             | 13,5                      | 152           | 500 | 220                        | 8,7  | 90,6                 | 199,2 | 225                 | 495 |
| FBRS125LGA | 12,5       | 1/2   | 1,23                             | 14,8                      | 152           | 500 | 230                        | 9,1  | 97,6                 | 214,7 | 225                 | 495 |

Recommended pretension 0,5...2 %

55° Shore D - approx. 100° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,35 | PE: approx. 0,20 | HDPE: approx. 0,15 | FDA/EC/USDA compliant

## TPE63D silver smooth, reinforced Polyester



| Order No.  | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |     |
|------------|------------|-------|----------------------------------|---------------------------|---------------|-----|----------------------------|------|----------------------|-------|---------------------|-----|
|            | mm         | inch  |                                  |                           | m             | ft  | mm                         | inch | kg                   | lbs   | kg                  | lbs |
| FBRT095IGA | 9,5        | 3/8   | 0,710                            | 8,5                       | 152           | 500 | 190                        | 7,5  | 59,4                 | 130,6 | 190                 | 418 |
| FBRT100IGA | 10,0       | 7/16  | 0,785                            | 9,4                       | 152           | 500 | 200                        | 7,9  | 67,0                 | 147,4 | 190                 | 418 |
| FBRT120IGA | 12,0       | 15/32 | 1,130                            | 13,5                      | 152           | 500 | 255                        | 10,3 | 96,0                 | 211,2 | 190                 | 418 |
| FBRT125IGA | 12,5       | 1/2   | 1,230                            | 14,8                      | 152           | 500 | 270                        | 10,6 | 102,8                | 226,2 | 190                 | 418 |

Recommended pretension 0,5...2 %

63° Shore D - approx. >100° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,30 | PE: approx. 0,15 | HDPE: approx. 0,10 | FDA/EC/USDA compliant

## TPE63D beige smooth, reinforced Polyester



| Order No.  | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |     |
|------------|------------|-------|----------------------------------|---------------------------|---------------|-----|----------------------------|------|----------------------|-------|---------------------|-----|
|            | mm         | inch  |                                  |                           | m             | ft  | mm                         | inch | kg                   | lbs   | kg                  | lbs |
| FBRT095NGA | 9,5        | 3/8   | 0,710                            | 8,5                       | 152           | 500 | 190                        | 7,5  | 59,4                 | 130,6 | 190                 | 418 |
| FBRT100NGA | 10,0       | 7/16  | 0,785                            | 9,4                       | 152           | 500 | 200                        | 7,9  | 67,0                 | 147,4 | 190                 | 418 |
| FBRT120NGA | 12,0       | 15/32 | 1,130                            | 13,5                      | 152           | 500 | 255                        | 10,3 | 96,0                 | 211,2 | 190                 | 418 |
| FBRT125NGA | 12,5       | 1/2   | 1,230                            | 14,8                      | 152           | 500 | 270                        | 10,6 | 102,8                | 226,2 | 190                 | 418 |

Recommended pretension 0,5...2 %

63° Shore D - approx. >100° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,30 | PE: approx. 0,15 | HDPE: approx. 0,10 | FDA/EC/USDA compliant

## TPE63D beige smooth, reinforced Aramid



| Order No.  | Diameter Ø |       | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |     |
|------------|------------|-------|----------------------------------|---------------------------|---------------|-----|----------------------------|------|----------------------|-------|---------------------|-----|
|            | mm         | inch  |                                  |                           | m             | ft  | mm                         | inch | kg                   | lbs   | kg                  | lbs |
| FBRT095NGC | 9,5        | 3/8   | 0,710                            | 8,5                       | 152           | 500 | 190                        | 7,5  | 59,4                 | 130,6 | 225                 | 495 |
| FBRT100NGC | 10,0       | 7/16  | 0,785                            | 9,4                       | 152           | 500 | 200                        | 7,9  | 67,0                 | 147,4 | 225                 | 495 |
| FBRT120NGC | 12,0       | 15/32 | 1,130                            | 13,5                      | 152           | 500 | 255                        | 10,3 | 96,0                 | 211,2 | 225                 | 495 |
| FBRT125NGC | 12,5       | 1/2   | 1,230                            | 14,8                      | 152           | 500 | 270                        | 10,6 | 102,8                | 226,2 | 225                 | 495 |

Recommended pretension 0,5...2 %

63° Shore D - approx. >100° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,30 | PE: approx. 0,15 | HDPE: approx. 0,10 | FDA/EC/USDA compliant

\*For overlap welding, the recommended minimum pulley diameter must be increased by +30%.



## Twisted round belts / Belts with hook

Twisted round belts are the ideal solution for drive or transport systems in which several belts run on one shaft.

These belts are connected quickly, safely and easily by two hooks. The second hook is simply closed with a pair of pliers.

## PU70A twisted round belts sky blue smooth

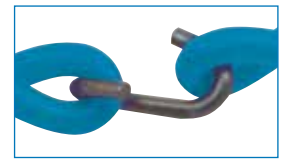


approx. 76° Shore A

Recommended pretension  
8...10 %

| Order No.                  | Diameter $\varnothing$ |      | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |     |
|----------------------------|------------------------|------|---------------------------------------|------|----------------------|-----|
|                            | mm                     | inch | mm                                    | inch | kg                   | lbs |
| FBXH3X250LG<br>FBXH3X710LG | 5,0                    | 1/5  | 40                                    | 1,6  | 2,5                  | 5,5 |

Available standard lengths of 250...710 mm



Coeff. of friction  $\mu$ : Steel: approx. 0,75 | FDA/EC/USDA compliant (Limited suitability EC)

## PU75A plus twisted round belts orange smooth (matt)



approx. 80° Shore A

Recommended pretension 6...8 %

| Order No.                  | Diameter $\varnothing$ |      | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |     |
|----------------------------|------------------------|------|---------------------------------------|------|----------------------|-----|
|                            | mm                     | inch | mm                                    | inch | kg                   | lbs |
| FBXI3X2500G<br>FBXI3X4500G | 5,0                    | 1/5  | 40                                    | 1,6  | 3,8                  | 8,4 |

Available standard lengths of 250...710 mm



Coeff. of friction  $\mu$ : Steel: approx. 0,70



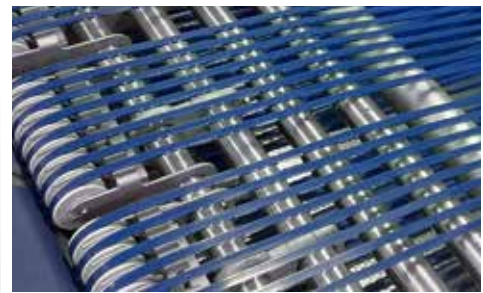
Measure the correct belt length tip to tip (production length Lf), without the hook.

Construction: 2 x  $\varnothing$  3 mm ( $\varnothing$  5 mm)



### Customized belts with hook

On request, we are happy to manufacture twisted round belts in other colours or surface structures.



## V-belts

Weldable V-belts made of PU and TPE are available in various Shore hardnesses and diameters for conveying and power-transmission applications. Many belts are food-approved and have various special properties for particularly demanding applications.

Typical industries are: Food, logistics, printing & paper, packaging, building materials and much more.

### PU75A red smooth

notched version possible



approx. 80° Shore A

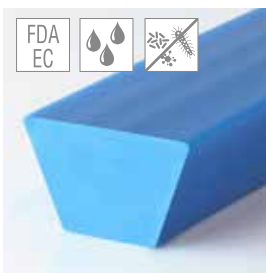
Recommended pretension 4...8 %

| Order No. | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-----------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|           |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBKP75A06 | 6 x 4 (Y)               | 0,19                             | 2,3                        | 100           | 328 | 35                        | 1,4  | 4,9                  | 10,8  |
| FBKP75A08 | 8 x 5 (M)               | 0,32                             | 4,0                        | 100           | 328 | 40                        | 1,6  | 8,2                  | 18,1  |
| FBKP75A10 | 10 x 6 (Z)              | 0,48                             | 6,0                        | 50            | 164 | 50                        | 2,0  | 12,2                 | 26,7  |
| FBKP75A13 | 13 x 8 (A)              | 0,82                             | 10,0                       | 50            | 164 | 75                        | 3,0  | 20,6                 | 45,3  |
| FBKP75A17 | 17 x 11 (B)             | 1,46                             | 18,0                       | 50            | 164 | 100                       | 3,9  | 37,2                 | 81,9  |
| FBKP75A22 | 22 x 14 (C)             | 2,40                             | 29,0                       | 50            | 164 | 145                       | 5,7  | 60,8                 | 133,7 |
| FBKP75A32 | 32 x 20 (D)             | 5,00                             | 62,0                       | 25            | 82  | 210                       | 8,3  | 127,4                | 280,3 |

Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

### PU75A sky blue smooth

notched version possible



approx. 80° Shore A

Recommended pretension 4...8 %

| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|------------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|------|
|            |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBKI6YLGA  | 6 x 4 (Y)               | 0,19                             | 2,3                        | 100           | 328 | 35                        | 1,4  | 4,6                  | 10,1 |
| FBKI8MLGA  | 8 x 5 (M)               | 0,32                             | 4,0                        | 100           | 328 | 40                        | 1,6  | 7,6                  | 15,8 |
| FBKI10ZLGA | 10 x 6 (Z)              | 0,48                             | 6,0                        | 50            | 164 | 50                        | 2,0  | 11,6                 | 25,5 |
| FBKI13ALGA | 13 x 8 (A)              | 0,82                             | 10,0                       | 50            | 164 | 75                        | 3,0  | 19,6                 | 43,1 |
| FBKI17BLGA | 17 x 11 (B)             | 1,46                             | 18,0                       | 50            | 164 | 100                       | 3,9  | 35,0                 | 77,0 |

Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | FDA/EC/USDA compliant



## PU75A light grey, reinforced Polyester

notched version possible 



| Order No.  | Profile dimension | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|------------|-------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|---------------------|-------|
|            | mm                |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   | kg                  | lbs   |
| FBKI13AHGA | 13 x 8 (A)        | 0,82                             | 10,0                      | 50            | 164 | 75                        | 3,0  | 20,6                 | 45,3  | 41,2                | 90,4  |
| FBKI17BHGA | 17 x 11 (B)       | 1,46                             | 18,0                      | 50            | 164 | 100                       | 3,9  | 37,2                 | 81,9  | 83,8                | 184,4 |
| FBKI22CHGA | 22 x 14 (C)       | 2,40                             | 29,0                      | 50            | 164 | 140                       | 5,5  | 60,8                 | 133,7 | 127,5               | 280,5 |

approx. 80° Shore A

Recommended pretension 0,5...2 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

## PU75A orange, reinforced glass fibre PU

notched version possible 



| Order No.    | Profile dimension | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|--------------|-------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|              | mm                |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBZKP75A13GL | 13 x 8 (A)        | 0,82                             | 10,0                      | 50            | 164 | 110                       | 4,4  | 25,3                 | 55,6  |
| FBZKP75A17GL | 17 x 11 (B)       | 1,46                             | 18,0                      | 50            | 164 | 140                       | 5,5  | 45,0                 | 98,9  |
| FBZKP75A22GL | 22 x 14 (C)       | 2,40                             | 29,0                      | 50            | 164 | 180                       | 7,1  | 66,2                 | 145,7 |

approx. 80° Shore A

Recommended pretension 0,5...2 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

## PU80A orange smooth

notched version possible 



| Order No. | Profile dimension | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-----------|-------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|           | mm                |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBJ6YOG   | 6 x 4 (Y)         | 0,19                             | 2,3                       | 30            | 100 | 40                        | 1,6  | 6,2                  | 13,7  |
| FBJ8MOG   | 8 x 5 (M)         | 0,32                             | 4,0                       | 30            | 100 | 45                        | 1,8  | 10,3                 | 22,6  |
| FBJ10ZOG  | 10 x 6 (Z)        | 0,48                             | 6,0                       | 30            | 100 | 55                        | 2,2  | 15,4                 | 33,9  |
| FBJ13AOG  | 13 x 8 (A)        | 0,82                             | 10,0                      | 30            | 100 | 85                        | 3,3  | 26,3                 | 57,9  |
| FBJ17BOG  | 17 x 11 (B)       | 1,46                             | 18,0                      | 30            | 100 | 110                       | 4,3  | 46,9                 | 103,1 |
| FBJ22COG  | 22 x 14 (C)       | 2,40                             | 29,0                      | 30            | 100 | 150                       | 5,9  | 77,0                 | 169,5 |
| FBJ32DOG  | 32 x 20 (D)       | 5,00                             | 62,0                      | 30            | 100 | 220                       | 8,7  | 160,5                | 353,1 |

approx. 84° Shore A

Recommended pretension 4...8 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

FDA/EC/USDA compliant

## PU80A orange smooth, reinforced Polyester

notched version possible 



| Order No.    | Profile dimension | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|--------------|-------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|---------------------|-------|
|              | mm                |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   | kg                  | lbs   |
| FBJ8MOGA     | 8 x 5 (M)         | 0,32                             | 4,0                       | 30            | 100 | 50                        | 2,0  | 10,3                 | 22,6  | 21,6                | 47,5  |
| FBJ10ZOGA    | 10 x 6 (Z)        | 0,48                             | 6,0                       | 30            | 100 | 60                        | 2,4  | 15,4                 | 33,9  | 32,4                | 71,3  |
| FBJ13AOGA    | 13 x 8 (A)        | 0,82                             | 10,0                      | 30            | 100 | 85                        | 3,3  | 25,9                 | 57,0  | 54,5                | 119,8 |
| FBJ13AOGA001 | 13 x 8 (A)        | 0,82                             | 10,0                      | 50            | 164 | 85                        | 3,3  | 25,9                 | 57,0  | 54,5                | 119,8 |
| FBJ17BOGA    | 17 x 11 (B)       | 1,46                             | 18,0                      | 30            | 100 | 110                       | 4,3  | 46,9                 | 103,1 | 98,6                | 216,8 |
| FBJ17BOGC    | 17 x 11 (B)       | 1,46                             | 18,0                      | 100           | 328 | 110                       | 4,3  | 46,9                 | 103,1 | 98,6                | 216,8 |
| FBJ22COGA    | 22 x 14 (C)       | 2,40                             | 29,0                      | 30            | 100 | 150                       | 5,9  | 77,0                 | 169,5 | 150,0               | 330,0 |
| FBJ32DOGA    | 32 x 20 (D)       | 5,0                              | 62,0                      | 30            | 100 | 220                       | 8,7  | 154                  | 338,8 | n/a                 | n/a   |

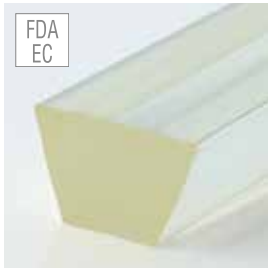
approx. 84° Shore A

Recommended pretension 0,5...2 %

**Coeff. of friction  $\mu$** : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU80A transparent smooth

notched version possible



FDA  
EC

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended<br>Min. pulley Ø |      | Fmax/belt<br>(Standard) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|------------------------------|------|-------------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                           | inch | kg                      | lbs   |
| FBKP80A06TR | 6 x 4 (Y)               | 0,19                             | 2,3                       | 100           | 328 | 40                           | 1,6  | 6,2                     | 13,7  |
| FBKP80A08TR | 8 x 5 (M)               | 0,32                             | 4,0                       | 100           | 328 | 45                           | 1,8  | 10,3                    | 22,6  |
| FBKP80A10TR | 10 x 6 (Z)              | 0,48                             | 6,0                       | 50            | 164 | 55                           | 2,2  | 15,4                    | 33,9  |
| FBKP80A13TR | 13 x 8 (A)              | 0,82                             | 10,0                      | 50            | 164 | 85                           | 3,3  | 26,3                    | 57,9  |
| FBKP80A17TR | 17 x 11 (B)             | 1,46                             | 18,0                      | 50            | 164 | 110                          | 4,3  | 46,9                    | 103,1 |
| FBKP80A22TR | 22 x 14 (C)             | 2,40                             | 29,0                      | 50            | 164 | 150                          | 5,9  | 77,0                    | 169,5 |
| FBKP80A32TR | 32 x 20 (D)             | 5,00                             | 62,0                      | 25            | 82  | 220                          | 8,7  | 160,5                   | 353,1 |

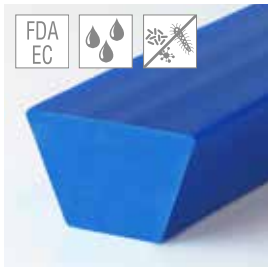
approx. 84° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU80A ultramarine blue smooth

notched version possible



FDA  
EC



| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended<br>Min. pulley Ø |      | Fmax/belt<br>(Standard) |      |
|------------|-------------------------|----------------------------------|---------------------------|---------------|-----|------------------------------|------|-------------------------|------|
|            |                         |                                  |                           | m             | ft  | mm                           | inch | kg                      | lbs  |
| FBKJ06YZLG | 6 x 4 (Y)               | 0,19                             | 2,3                       | 100           | 328 | 40                           | 1,6  | 6,2                     | 13,7 |
| FBKJ08MLG  | 8 x 5 (M)               | 0,32                             | 4,0                       | 100           | 328 | 45                           | 1,8  | 10,3                    | 22,6 |
| FBKJ10ZLG  | 10 x 6 (Z)              | 0,48                             | 6,0                       | 50            | 164 | 55                           | 2,2  | 15,4                    | 33,9 |

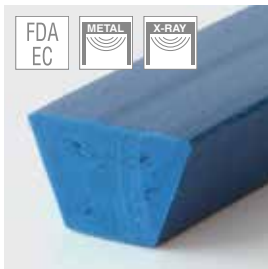
approx. 84° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU80A safe capri blue smooth

notched version possible



FDA  
EC



| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended<br>Min. pulley Ø |      | Fmax/belt<br>(Standard) |       |
|------------|-------------------------|----------------------------------|---------------------------|---------------|-----|------------------------------|------|-------------------------|-------|
|            |                         |                                  |                           | m             | ft  | mm                           | inch | kg                      | lbs   |
| FBKJ6YLGM  | 6 x 4 (Y)               | 0,19                             | 2,3                       | 100           | 328 | 40                           | 1,6  | 4,6                     | 10,2  |
| FBKJ8MLGM  | 8 x 5 (M)               | 0,32                             | 4,0                       | 100           | 328 | 45                           | 1,8  | 7,7                     | 16,9  |
| FBKJ10ZLGM | 10 x 6 (Z)              | 0,48                             | 6,0                       | 50            | 164 | 55                           | 2,2  | 11,5                    | 25,3  |
| FBKJ13ALGM | 13 x 8 (A)              | 0,82                             | 10,0                      | 50            | 164 | 85                           | 3,3  | 19,7                    | 43,3  |
| FBKJ17BLGM | 17 x 11 (B)             | 1,46                             | 18,0                      | 50            | 164 | 110                          | 4,3  | 35,0                    | 77,1  |
| FBKJ22CLGM | 22 x 14 (C)             | 2,40                             | 29,0                      | 50            | 164 | 150                          | 6,0  | 57,6                    | 126,7 |

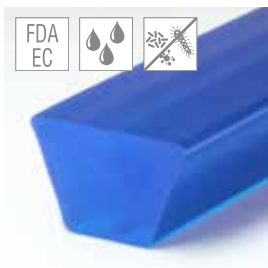
approx. 84° Shore A

Recommended pretension 3...6 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU85A sapphire blue smooth

notched version possible



FDA  
EC



| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended<br>Min. pulley Ø |      | Fmax/belt<br>(Standard) |       |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|------------------------------|------|-------------------------|-------|
|              |                         |                                  |                           | m             | ft  | mm                           | inch | kg                      | lbs   |
| FBKK06MLGAAA | 6 x 4 (Y)               | 0,19                             | 2,3                       | 100           | 328 | 45                           | 1,8  | 6,5                     | 14,2  |
| FBKK08MLGAAA | 8 x 5 (M)               | 0,32                             | 4,0                       | 100           | 328 | 50                           | 2,0  | 10,9                    | 24,0  |
| FBKK10ZLGAAA | 10 x 6 (Z)              | 0,48                             | 6,0                       | 50            | 164 | 65                           | 2,6  | 16,6                    | 36,4  |
| FBKK13ALGAAA | 13 x 8 (A)              | 0,82                             | 10,0                      | 50            | 164 | 95                           | 3,8  | 28,1                    | 61,8  |
| FBKK17BLGAAA | 17 x 11 (B)             | 1,46                             | 18,0                      | 50            | 164 | 120                          | 4,7  | 50,1                    | 110,2 |
| FBKK22CLGAAA | 22 x 14 (C)             | 2,40                             | 29,0                      | 50            | 164 | 165                          | 6,5  | 82,4                    | 181,3 |

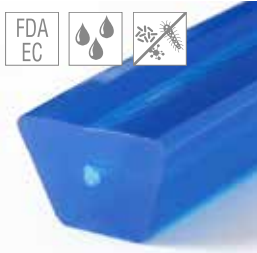
approx. 88° Shore A

Recommended pretension 4...8 %

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU85A sapphire blue smooth, reinforced Polyester

notched version possible 



approx. 88° Shore A

Recommended pretension 0,5...2 %

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|---------------------|-------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   | kg                  | lbs   |
| FBZKP85A13PS | 13 x 8 (A)              | 0,82                             | 10,0                      | 50            | 164 | 95                        | 3,8  | 28,1                 | 61,8  | 60,1                | 132,2 |
| FBZKP85A17PS | 17 x 11 (B)             | 1,46                             | 18,0                      | 50            | 164 | 120                       | 4,7  | 50,1                 | 110,2 | 105,3               | 231,7 |
| FBZKP85A22PS | 22 x 14 (C)             | 2,40                             | 29,0                      | 50            | 164 | 165                       | 6,5  | 82,4                 | 181,3 | 175,1               | 385,2 |

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU85A green smooth

notched version possible 



approx. 88° Shore A

Recommended pretension 4...8 %

| Order No. | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-----------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|           |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBKP85A06 | 6 x 4 (Y)               | 0,19                             | 2,3                       | 100           | 328 | 45                        | 1,8  | 6,9                  | 15,3  |
| FBKP85A08 | 8 x 5 (M)               | 0,32                             | 4,0                       | 100           | 328 | 50                        | 2,0  | 11,6                 | 25,6  |
| FBKP85A10 | 10 x 6 (Z)              | 0,48                             | 6,0                       | 50            | 164 | 65                        | 2,6  | 17,5                 | 38,6  |
| FBKP85A13 | 13 x 8 (A)              | 0,82                             | 10,0                      | 50            | 164 | 95                        | 3,8  | 30,0                 | 66,0  |
| FBKP85A17 | 17 x 11 (B)             | 1,46                             | 18,0                      | 50            | 164 | 120                       | 4,7  | 53,0                 | 116,7 |
| FBKP85A22 | 22 x 14 (C)             | 2,40                             | 29,0                      | 50            | 164 | 165                       | 6,5  | 87,7                 | 193,0 |
| FBKP85A32 | 32 x 20 (D)             | 5,00                             | 62,0                      | 25            | 82  | 250                       | 9,8  | 195,8                | 430,8 |

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU85A green, reinforced Aramid

notched version possible 



approx. 88° Shore A

Recommended pretension 0,5...2 %

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|---------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   | kg                  | lbs   |
| FBZKP85A08A | 8 x 5 (M)               | 0,32                             | 4,0                       | 100           | 328 | 60                        | 2,4  | 11,6                 | 25,6  | 25,7                | 56,4  |
| FBZKP85A10A | 10 x 6 (Z)              | 0,48                             | 6,0                       | 50            | 164 | 70                        | 2,8  | 17,5                 | 38,6  | 37,5                | 82,5  |
| FBZKP85A13A | 13 x 8 (A)              | 0,82                             | 10,0                      | 50            | 164 | 100                       | 3,9  | 30,0                 | 66,0  | 63,8                | 140,3 |
| FBZKP85A17A | 17 x 11 (B)             | 1,46                             | 18,0                      | 50            | 164 | 140                       | 5,5  | 53,0                 | 116,7 | 112,5               | 247,5 |
| FBZKP85A22A | 22 x 14 (C)             | 2,40                             | 29,0                      | 50            | 164 | 180                       | 7,1  | 87,7                 | 193,0 | 187,5               | 412,5 |
| FBK32DGGA   | 32 x 20 (D)             | 5,00                             | 62,0                      | 40            | 131 | 275                       | 10,8 | 193,8                | 430,8 | n/a                 | n/a   |

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU85A plus blue matt

notched version possible 



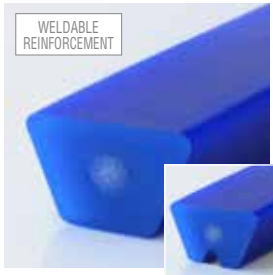
approx. 88° Shore A

Recommended pretension 3...6 %

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBKP85A06BP | 6 x 4 (Y)               | 0,19                             | 2,3                       | 100           | 328 | 45                        | 1,8  | 7,9                  | 17,4  |
| FBKP85A08BP | 8 x 5 (M)               | 0,32                             | 4,0                       | 100           | 328 | 50                        | 2,0  | 13,2                 | 29,0  |
| FBKP85A10BP | 10 x 6 (Z)              | 0,48                             | 6,0                       | 50            | 164 | 65                        | 2,6  | 19,9                 | 43,8  |
| FBKP85A13BP | 13 x 8 (A)              | 0,82                             | 10,0                      | 50            | 164 | 95                        | 3,8  | 33,8                 | 74,4  |
| FBKP85A17BP | 17 x 11 (B)             | 1,46                             | 18,0                      | 50            | 164 | 120                       | 4,7  | 60,3                 | 132,8 |
| FBKP85A22BP | 22 x 14 (C)             | 2,40                             | 29,0                      | 50            | 164 | 165                       | 6,5  | 99,3                 | 218,4 |
| FBKP85A32BP | 32 x 20 (D)             | 5,00                             | 62,0                      | 25            | 82  | 250                       | 9,8  | 206,8                | 455,0 |

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU85A ultramarine blue, reinforced glass fibre PU



| Order No.        | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|------------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|                  |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBZKP85A13       | 13 x 8 (A)              | 0,82                             | 10,0                      | 50            | 164 | 125                       | 4,9  | 32,8                 | 72,2  |
| FBZKP85A17 (Nut) | 17 x 11 (B)             | 1,46                             | 18,0                      | 50            | 164 | 180                       | 7,1  | 55,4                 | 122,0 |
| FBZKP85A22 (Nut) | 22 x 14 (C)             | 2,40                             | 29,0                      | 50            | 164 | 220                       | 8,7  | 92,4                 | 203,3 |

approx. 88° Shore A

Recommended pretension

0,5...2 %

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU90A white smooth

notched version possible 



| Order No.          | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|--------------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|                    |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBKP90A08          | 8 x 5 (M)               | 0,32                             | 4,0                       | 100           | 328 | 60                        | 2,4  | 15,4                 | 33,8  |
| FBKP90A10          | 10 x 6 (Z)              | 0,48                             | 6,0                       | 50            | 164 | 80                        | 3,2  | 23,0                 | 50,7  |
| FBKP90A13          | 13 x 8 (A)              | 0,82                             | 10,0                      | 50            | 164 | 105                       | 4,2  | 38,4                 | 84,5  |
| FBKP90A17          | 17 x 11 (B)             | 1,46                             | 18,0                      | 50            | 164 | 140                       | 5,5  | 69,1                 | 152,1 |
| FBKP90A22          | 22 x 14 (C)             | 2,40                             | 29,0                      | 50            | 164 | 200                       | 7,9  | 115,2                | 253,4 |
| FBKP90A32 (nature) | 32 x 20 (D)             | 5,00                             | 62,0                      | 25            | 82  | 320                       | 12,6 | 240,0                | 528,0 |

approx. 92° Shore A

Recommended pretension 3...5 %

Coeff. of friction  $\mu$ : Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

## PU90A white, reinforced Polyester



| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|---------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   | kg                  | lbs   |
| FBZKP90A08P | 8 x 5 (M)               | 0,32                             | 4,0                       | 100           | 328 | 65                        | 2,6  | 15,4                 | 33,8  | 30,0                | 66,0  |
| FBZKP90A10P | 10 x 6 (Z)              | 0,48                             | 6,0                       | 50            | 164 | 85                        | 3,3  | 23,0                 | 50,7  | 45,0                | 99,0  |
| FBZKP90A13P | 13 x 8 (A)              | 0,82                             | 10,0                      | 50            | 164 | 110                       | 4,3  | 38,4                 | 84,5  | 67,5                | 148,5 |
| FBZKP90A17P | 17 x 11 (B)             | 1,46                             | 18,0                      | 50            | 164 | 150                       | 5,9  | 69,1                 | 152,1 | 120,0               | 264,0 |
| FBZKP90A22P | 22 x 14 (C)             | 2,40                             | 29,0                      | 50            | 164 | 210                       | 8,3  | 115,2                | 253,4 | 202,5               | 445,5 |

approx. 92° Shore A

Recommended pretension

0,5...2 %

Coeff. of friction  $\mu$ : Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

## PU90A white, reinforced Polyester, with notched bottom



| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBZKP90A13PV | 13 x 8 (A)              | 0,82                             | 10,0                      | 50            | 164 | 85                        | 3,3  | 32,6                 | 71,8  |
| FBZKP90A17PV | 17 x 11 (B)             | 1,46                             | 18,0                      | 50            | 164 | 110                       | 4,3  | 58,8                 | 129,3 |
| FBZKP90A22PV | 22 x 14 (C)             | 2,40                             | 29,0                      | 50            | 164 | 150                       | 5,9  | 97,9                 | 215,4 |

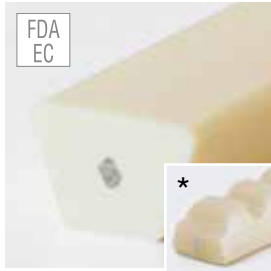
approx. 92° Shore A

Recommended pretension 0,5...2 %

Coeff. of friction  $\mu$ : Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

## PU95A beige, reinforced Polyester

notched version possible 



approx. 95° Shore A

Recommended pretension  
0,5...2 %

| Order No.     | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100 m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|---------------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|-------|---------------------|-------|
|               |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs   | kg                  | lbs   |
| FBKM13ABGA    | 13 x 8 (A)              | 0,82                             | 10,0                       | 50            | 164 | 130                       | 5,0  | 40,0                 | 88,0  | 67,5                | 148,5 |
| *FBZKP95A13PV | 13 x 8 (A)              | 0,82                             | 10,0                       | 50            | 164 | 100                       | 3,9  | 34,0                 | 74,8  | n/a                 | n/a   |
| FBKM17BBGA    | 17 x 11 (B)             | 1,46                             | 18,0                       | 50            | 164 | 175                       | 6,8  | 72,0                 | 158,4 | 120,0               | 264,0 |
| *FBZKP95A17PV | 17 x 11 (B)             | 1,46                             | 18,0                       | 50            | 164 | 130                       | 5,0  | 61,2                 | 134,6 | n/a                 | n/a   |
| FBKM22CBGA    | 22 x 14 (C)             | 2,40                             | 29,0                       | 50            | 164 | 250                       | 9,7  | 120,0                | 264,0 | 202,0               | 444,4 |
| *FBZKP95A22PV | 22 x 14 (C)             | 2,40                             | 29,0                       | 50            | 164 | 190                       | 7,4  | 102,0                | 224,4 | n/a                 | n/a   |

Coeff. of friction  $\mu$ : Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20 | \*gezahnt

## TPE40D beige smooth

notched version possible 



40° Shore D - approx. 95° Shore A

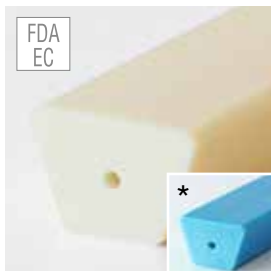
Recommended pretension 2...4 %

| Order No. | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-----------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|           |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBKR08MBG | 8 x 5 (M)               | 0,32                             | 4,0                        | 100           | 328 | 60                        | 2,4  | 19,3                 | 42,4  |
| FBKR10ZBG | 10 x 6 (Z)              | 0,48                             | 6,0                        | 50            | 164 | 80                        | 3,2  | 28,9                 | 63,6  |
| FBKR13ABG | 13 x 8 (A)              | 0,82                             | 10,0                       | 50            | 164 | 105                       | 4,2  | 49,4                 | 108,6 |
| FBKR17BBG | 17 x 11 (B)             | 1,46                             | 18,0                       | 50            | 164 | 140                       | 5,5  | 87,7                 | 193,0 |
| FBKR22CBG | 22 x 14 (C)             | 2,40                             | 29,0                       | 50            | 164 | 200                       | 7,9  | 144,5                | 317,9 |

Coeff. of friction  $\mu$ : Steel: approx. 0,50 | PE: approx. 0,25 | HDPE: approx. 0,20 | FDA/EC/USDA compliant

## TPE55D beige / blue smooth

notched version possible 



55° Shore D - approx. 100° Shore A

Recommended pretension 2...4 %

| Order No.          | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|--------------------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|                    |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBKH55D08B (beige) | 8 x 5 (M)               | 0,32                             | 4,0                        | 100           | 328 | 80                        | 3,2  | 25,6                 | 56,3  |
| FBKH55D10B (beige) | 10 x 6 (Z)              | 0,48                             | 6,0                        | 50            | 164 | 105                       | 4,2  | 38,4                 | 84,5  |
| FBKH55D13B (beige) | 13 x 8 (A)              | 0,82                             | 10,0                       | 50            | 164 | 130                       | 5,1  | 64,0                 | 140,8 |
| *FBKH55D17 (blue)  | 17 x 11 (B)             | 1,46                             | 18,0                       | 50            | 164 | 175                       | 7    | 116,8                | 257,0 |
| FBKH55D22B (beige) | 22 x 14 (C)             | 2,40                             | 29,0                       | 50            | 164 | 250                       | 9,8  | 192,0                | 422,4 |

Coeff. of friction  $\mu$ : Steel: approx. 0,35 | PE: approx. 0,20 | HDPE: approx. 0,15

FDA/EC/USDA compliant

## TPE55D beige, reinforced Polyester

notched version possible 



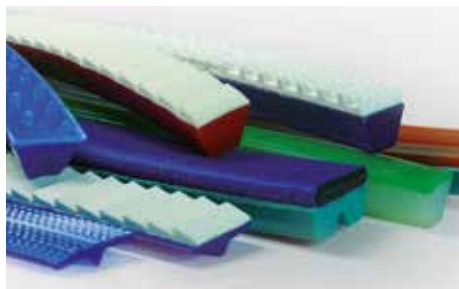
55° Shore D - approx. 100° Shore A

Recommended pretension 0,5...2 %

| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100 m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |     |
|------------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|-------|---------------------|-----|
|            |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs   | kg                  | lbs |
| FBKH55D10P | 10 x 6 (Z)              | 0,48                             | 6,0                        | 50            | 164 | 110                       | 4,4  | 48                   | 105,6 | 70                  | 154 |
| FBKH55D13P | 13 x 8 (A)              | 0,82                             | 10,0                       | 50            | 164 | 135                       | 5,3  | 80                   | 176   | 110                 | 242 |
| FBKH55D17P | 17 x 11 (B)             | 1,46                             | 18,0                       | 50            | 164 | 190                       | 7,2  | 146                  | 321,2 | 180                 | 396 |
| FBKH55D22P | 22 x 14 (C)             | 2,40                             | 29,0                       | 50            | 164 | 260                       | 10,2 | 240                  | 528   | 300                 | 660 |

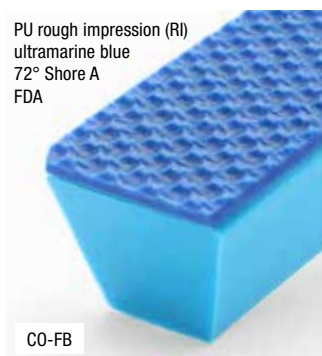
Coeff. of friction  $\mu$ : Steel: approx. 0,35 | PE: approx. 0,20 | HDPE: approx. 0,15 | FDA/EC/USDA compliant

# Coatings and embossings for profiles

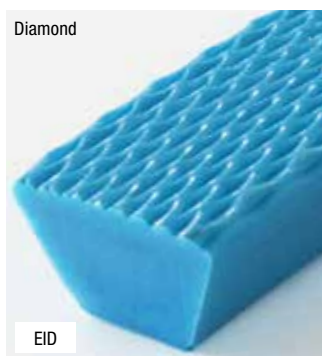


## Coatings and embossings

The application of coatings to V-belts enables specific material properties, e.g. better grip, accumulation or better release on a durable base belt. The „PUtex“ coating is THE alternative to Linatex (rubber). A direct variant for optimising the conveying process is embossing the profile surfaces.



## Embossings





## Twin-V-belts

Twin-V-belts are an optimal solution for stable conveying or spreading applications of product strands in the food industry. Our portfolio includes various design options, Shore hardness grades and reinforced products.

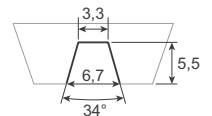
### PU75A red smooth



approx. 80° Shore A

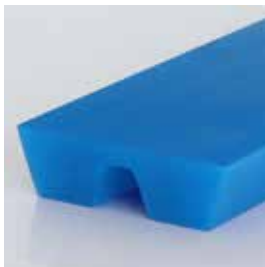
Recommended pretension 3...6 %

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBSP75A21X8 | 21 x 8                  | 1,2                              | 14,0                      | 30            | 100 | 60                        | 2,3  | 23,0                 | 50,6 |



Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

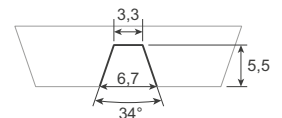
### PU75A sky blue smooth



approx. 80° Shore A

Recommended pretension 3...6 %

| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|            |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBSJ30X8LG | 30 x 8                  | 1,9                              | 22,4                      | 50            | 164 | 60                        | 2,3  | 45,5                 | 100,1 |



Twin A






Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

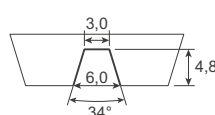
### PU80A orange / ultramarine blue smooth



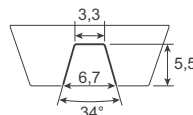
approx. 84° Shore A

Recommended pretension 3...6 %

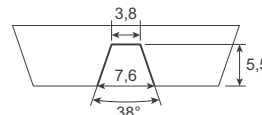
| Order No.    | Color   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|--------------|---|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|              |   |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBSJ23X68LGB |  | 24 x 6,8                | 1,2                              | 14,4                      | 30            | 100 | 60                        | 2,4  | 28,8                 | 63,4  |
| FBSJ24X680GB |  | 24 x 6,8                | 1,2                              | 14,4                      | 30            | 100 | 60                        | 2,4  | 28,8                 | 63,4  |
| FBSP80A21X8  |  | 21 x 8                  | 1,2                              | 14,0                      | 30            | 100 | 80                        | 3,1  | 28,8                 | 63,4  |
| FBSJ30X80G   |  | 30 x 8                  | 1,9                              | 22,4                      | 30            | 100 | 80                        | 3,1  | 45,6                 | 100,3 |
| FBSJ30X80GC  |  | 30 x 8                  | 1,9                              | 22,4                      | 30            | 100 | 80                        | 3,1  | 45,6                 | 100,3 |



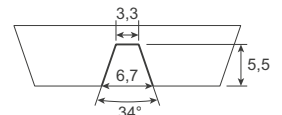
FBSJ23X68LGB  
FBSJ24X680GB  
(Twin Z / 3L)



FBSP80A21X8



FBSJ30X80G



FBSJ30X80GC  
(Twin A)

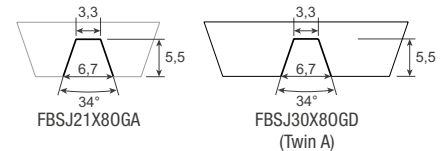
Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU80A orange smooth, reinforced Polyester



FDA  
EC

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|----------------------------|------|----------------------|-------|---------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                         | inch | kg                   | lbs   | kg                  | lbs   |
| FBSJ21X80GA | 21 x 8                  | 1,2                              | 14,4                      | 30            | 100 | 80                         | 3,1  | 28,8                 | 63,4  | 58,4                | 128,5 |
| FBSJ30X80GD | 30 x 8                  | 1,9                              | 22,4                      | 30            | 100 | 80                         | 3,1  | 45,6                 | 100,3 | 90,6                | 199,3 |

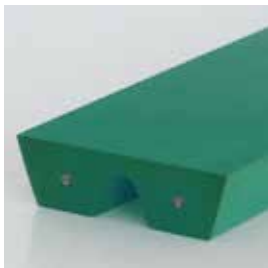


approx. 84° Shore A

Recommended pretension 0,5...2 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

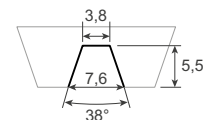
## PU85A mint green smooth, reinforced Polyester



approx. 88° Shore A

Recommended pretension 0,5...2 %

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø* |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|----------------------------|------|----------------------|-------|---------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                         | inch | kg                   | lbs   | kg                  | lbs   |
| FBSK30X8GGA | 30 x 8                  | 1,9                              | 22,4                      | 30            | 100 | 100                        | 3,9  | 69,8                 | 153,5 | 102,6               | 225,7 |



Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

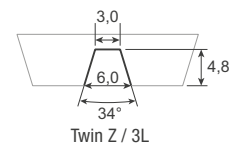
## PU95A (24 x 6,8 mm) beige 3L



approx. 95° Shore A

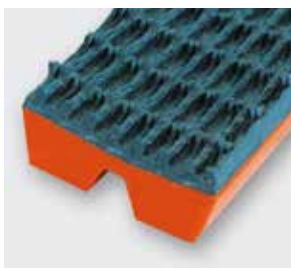
Recommended pretension 3...5 %

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBSJ24X68BGB | 24 x 6,8                | 1,26                             | 15                        | 30            | 100 | 100                       | 3,9  | 62,1                 | 136,6 |



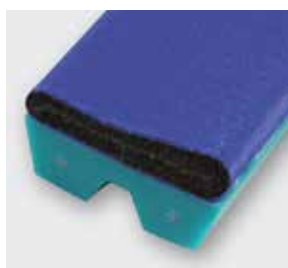
Coeff. of friction  $\mu$ : Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20 | FDA/EC compliant

### PVC Supergrip coating



PU75A Twin-V-belt (24x6,8 mm) with PVC Supergrip coating (CO-SG).

### Neoprene coating / unscrambler belt



PU85A Twin-V-belt (30x8 mm) with reinforcement Polyester and neoprene coating (CO-CR). Especially for PET bottle transport / guide.

### Special designs Twin-V-belt



Further versions can be found on page 50.





### Rigide top V-belts for the building material and tile industry

Have a high wear resistance against heavy and abrasive building materials. Available in various Shore hardness grades for variable conveying distances. These BEHAbelt belts are made of 100% PU or TPE and are therefore easy and quick to weld.

## 2C, PU75A / PU80A white/transparent

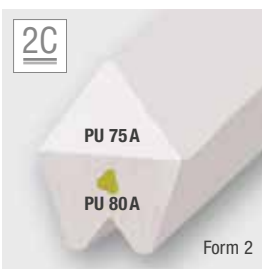


| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs   |
| FBSP85A17K2 | 17 x 19                 | 2,0                              | 24,4                      | 30            | 100 | 160                                   | 6,4  | 48,0                 | 105,6 |
| FBSP85A22K2 | 22 x 25                 | 3,5                              | 42,3                      | 30            | 100 | 200                                   | 8,0  | 84,0                 | 184,8 |

approx. 80/84° Shore A

Recommended pretension: 3...6 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

## 2C, PU75A / PU80A white/transparent, reinforced Aramid



| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |       |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|-------|
|              |                         |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs   |
| FBZSP85A17K2 | 17 x 19                 | 2,0                              | 24,4                      | 30            | 100 | 170                                   | 6,8  | 48,0                 | 105,6 |
| FBZSP85A22K2 | 22 x 25                 | 3,5                              | 42,3                      | 30            | 100 | 210                                   | 8,4  | 84,0                 | 184,8 |

approx. 80/84° Shore A

Recommended pretension: 0,5...2 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU80A transparent



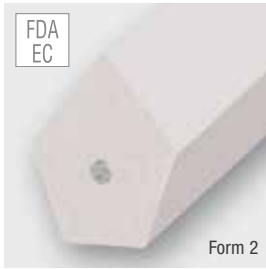
| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      | Fmax/belt (Standard) |       |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------------------|------|----------------------|-------|
|              |                         |                                  |                           | m             | ft  | mm                                    | inch | kg                   | lbs   |
| FBBJ22X25TG0 | 22 x 25                 | 3,65                             | 43,8                      | 30            | 100 | 210                                   | 8,4  | 87,6                 | 192,7 |

approx. 84° Shore A

Recommended pretension: 3...6 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

**FDA/EC compliant**

## PU80A transparent, reinforced Polyester



FDA  
EC

Form 2

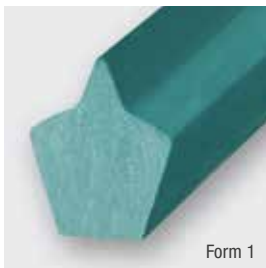
approx. 84° Shore A

| Order No.    | Profile dimension | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|--------------|-------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|              | mm                |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBBJ22X25TGA | 22 x 25           | 3,65                             | 43,8                      | 30            | 100 | 210                       | 8,4  | 87,6                 | 192,7 |

Recommended pretension: 0,5...2 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

FDA/EC compliant

## PU85A green



Form 1

approx. 88° Shore A

| Order No.   | Profile dimension | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|-------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             | mm                |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBSP85A170N | 17 x 19           | 1,95                             | 23,6                      | 30            | 100 | 180                       | 7,2  | 53,8                 | 118,4 |
| FBSP85A220N | 22 x 25           | 3,26                             | 39,1                      | 30            | 100 | 220                       | 8,8  | 90,0                 | 198,0 |

Recommended pretension: 3...6 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU85A green



Form 2

approx. 88° Shore A

| Order No.   | Profile dimension | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|-------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             | mm                |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBAK17X19GG | 17 x 19           | 2,13                             | 25,6                      | 30            | 100 | 190                       | 7,6  | 59,0                 | 129,8 |
| FBAK22X25GG | 22 x 25           | 3,65                             | 43,8                      | 30            | 100 | 240                       | 9,6  | 100,7                | 221,6 |

Recommended pretension: 3...6 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU85A green, reinforced Polyester



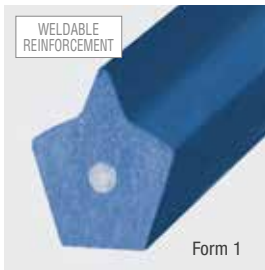
Form 2

approx. 88° Shore A

| Order No.    | Profile dimension | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|--------------|-------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|              | mm                |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBBK17X19GGA | 17 x 19           | 2,13                             | 25,6                      | 30            | 100 | 190                       | 7,6  | 59,0                 | 129,8 |
| FBBK22X25GGA | 22 x 25           | 3,65                             | 43,8                      | 30            | 100 | 240                       | 9,6  | 100,7                | 221,6 |

Recommended pretension: 0,5...2 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU85A blue, reinforced glass fibre PU



| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBZSP85A170N | 17 x 19                 | 1,95                             | 23,63                     | 30            | 100 | 240                       | 9,6  | 78,0                 | 171,6 |
| FBZSP85A220N | 22 x 25                 | 3,26                             | 39,1                      | 30            | 100 | 280                       | 11,2 | 130,4                | 286,9 |

approx. 88° Shore A

Recommended pretension: 0,5...2 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU85A blue, reinforced glass fibre PU

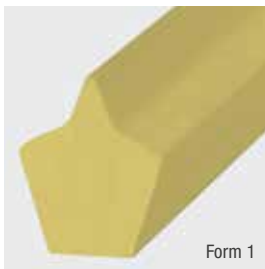


| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBBK17X19LGA | 17 x 19                 | 2,13                             | 25,6                      | 30            | 100 | 260                       | 10,4 | 85,2                 | 187,4 |
| FBBK22X25LGA | 22 x 25                 | 3,65                             | 43,8                      | 30            | 100 | 300                       | 12   | 146,0                | 321,2 |

approx. 88° Shore A

Recommended pretension: 0,5 - 2 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU95A beige

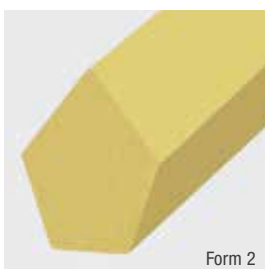


| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBAM17X19BG | 17 x 19                 | 1,95                             | 23,6                      | 30            | 100 | 200                       | 8    | 97,5                 | 214,5 |
| FBAM22X25BG | 22 x 25                 | 3,26                             | 39,1                      | 30            | 100 | 250                       | 10   | 163,0                | 358,6 |

approx. 95° Shore A

Recommended pretension: 3...5 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20

## PU95A beige



| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBBM17X19BG | 17 x 19                 | 2,13                             | 25,6                      | 30            | 100 | 210                       | 8,4  | 106,5                | 234,3 |
| FBBM22X25BG | 22 x 25                 | 3,65                             | 43,8                      | 30            | 100 | 260                       | 10,4 | 182,5                | 401,5 |

approx. 95° Shore A

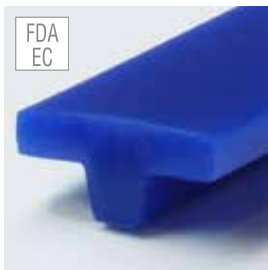
Recommended pretension: 3...5 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20



## T-Profiles

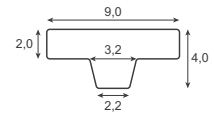
T-profiles are ideal solutions for conveying of light goods and foodstuffs, whereas usually several T-profile belts are running side by side. The integrated V-guide on the running side prevents the profiles from running sideways and thus guarantees precise straight running. The BEHAbelt portfolio includes T-profiles in various geometries, PU-shore hardnesses and colour combinations.

### T-Profile PU70A ultramarine blue smooth (9 x 4 mm)



FDA  
EC

| Order No. | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |     |
|-----------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-----|
|           |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs |
| FBTH9X4GL | 9 x 4                   | 0,23                             | 2,8                       | 70            | 230 | 25                        | 1,0  | 4,5                  | 9,9 |

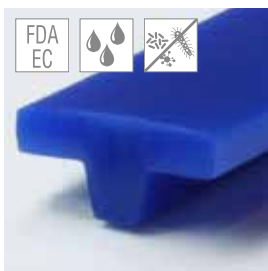


Recommended pretension: 4...8 %

approx. 76° Shore A

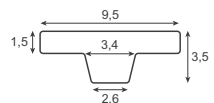
Coeff. of friction  $\mu$ : Steel: approx. 0,75 | PE: approx. 0,50 | HDPE: approx. 0,45 | FDA/EC/USDA compliant

### T-Profile PU65A ultramarine blue smooth (9,5 x 3,5 mm)



FDA  
EC

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |     |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-----|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs |
| FBTG95X35LA | 9,5 x 3,5               | 0,20                             | 2,4                       | 70            | 230 | 20                        | 0,8  | 2,9                  | 6,4 |

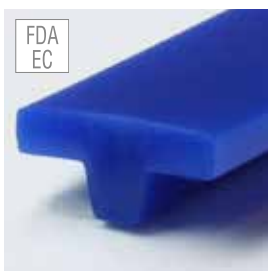


Recommended pretension: 4...8 %

approx. 72° Shore A

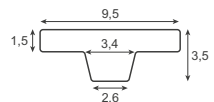
Coeff. of friction  $\mu$ : Steel: approx. 0,75 | PE: approx. 0,50 | HDPE: approx. 0,45 | FDA/EC/USDA compliant

### T-Profile PU80A ultramarine blue smooth (9,5 x 3,5 mm)



FDA  
EC

| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|            |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBTJ95X35L | 9,5 x 3,5               | 0,20                             | 2,4                       | 30            | 100 | 30                        | 1,2  | 5,2                  | 11,4 |

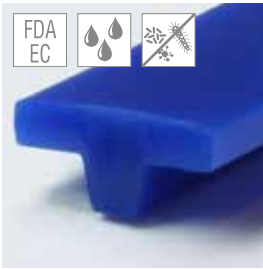


Recommended pretension: 4...8 %

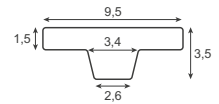
approx. 84° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## T-Profile PU85A ultramarine blue smooth (9,5 x 3,5 mm)



| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|            |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBTK95X35L | 9,5 x 3,5               | 0,20                             | 2,4                       | 30            | 100 | 50                        | 2,0  | 6,0                  | 13,2 |

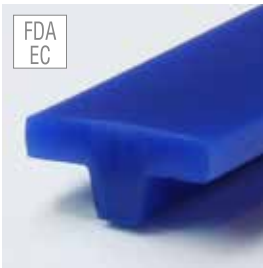


Recommended pretension: 3...6 %

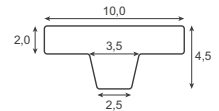
approx. 88° Shore A

**Coeff. of friction  $\mu$ :** Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

## T-Profile PU80A ultramarine blue smooth (10 x 4,5 mm)



| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBTI2X45X10L | 10 x 4,5                | 0,27                             | 3,3                       | 30            | 100 | 40                        | 1,6  | 8,1                  | 17,8 |



Recommended pretension: 4...8 %

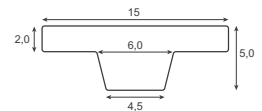
approx. 84° Shore A

**Coeff. of friction  $\mu$ :** Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

## T-Profile PU60A blue smooth (15 x 5 mm)



| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |     |
|------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-----|
|            |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs |
| FBTF15X5LG | 15 x 5                  | 0,44                             | 5,3                       | 50            | 164 | 25                        | 1,0  | 4,5                  | 9,9 |



Recommended pretension: 4...8 %

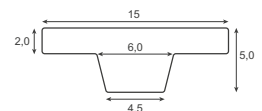
approx. 65° Shore A

**Coeff. of friction  $\mu$ :** Steel: approx. 0,90 | PE: approx. 0,65 | HDPE: approx. 0,60 | **FDA/EC compliant (Limited suitability EC)**

## T-Profile PU65A ultramarine blue smooth (15 x 5 mm)



| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|            |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBTG15X5LG | 15 x 5                  | 0,44                             | 5,3                       | 50            | 164 | 30                        | 1,2  | 8,1                  | 17,8 |

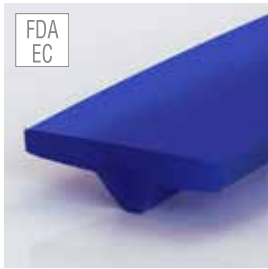


Recommended pretension: 4...8 %

approx. 72° Shore A

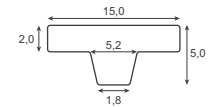
**Coeff. of friction  $\mu$ :** Steel: approx. 0,75 | PE: approx. 0,50 | HDPE: approx. 0,45 | **FDA/EC compliant**

## T-Profile PU80A ultramarine blue smooth (15 x 5 mm)



FDA  
EC

| Order No. | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|-----------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|           |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBTJ15X5L | 15 x 5                  | 0,40                             | 4,8                       | 50            | 164 | 40                        | 1,6  | 9,6                  | 21,1 |

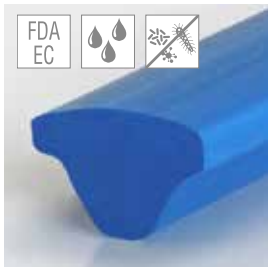


Recommended pretension: 4...8 %

approx. 84° Shore A

**Coeff. of friction  $\mu$ :** Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

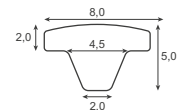
## T-Profile PU75A sky blue smooth (8 x 5 mm)



FDA  
EC



| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBSP75A8X5HI | 8 x 5                   | 0,25                             | 3,1                       | 40            | 131 | 30                        | 1,2  | 6,0                  | 13,2 |



Recommended pretension: 4...8 %

approx. 80° Shore A

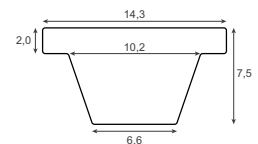
**Coeff. of friction  $\mu$ :** Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC/USDA compliant**

## 3L T-Top PU80A orange smooth (14,3 x 7,5 mm)



FDA  
EC

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBTJ142X750 | 14,3 x 7,5              | 0,72                             | 8,7                       | 30            | 100 | 80                        | 3,1  | 17,3                 | 38,1 |



Recommended pretension: 3...6 %

approx. 84° Shore A

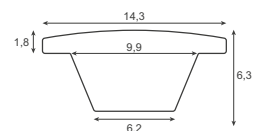
**Coeff. of friction  $\mu$ :** Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

## Crown Top PU80A orange smooth (14,3 x 6,3 mm)



FDA  
EC

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBTJ143X630G | 14,3 x 6,3              | 0,58                             | 7,0                       | 30            | 100 | 80                        | 3,1  | 13,9                 | 30,6 |



Recommended pretension: 3...6 %

approx. 84° Shore A

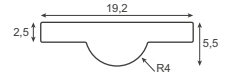
**Coeff. of friction  $\mu$ :** Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

### T-Profile PU80A half-round orange smooth (19,2 x 5,5 mm)



FDA  
EC

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBTJ192X550G | 19,2 x 5,5              | 0,65                             | 7,8                       | 30            | 100 | 40                        | 1,6  | 15,6                 | 34,3 |



Recommended pretension: 3...6 %

approx. 84° Shore A

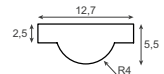
**Coeff. of friction  $\mu$ :** Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

### T-Profile PU80A half-round orange smooth (12,7 x 5,5 mm)



FDA  
EC

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBTJ127X550G | 12,7 x 5,5              | 0,44                             | 5,6                       | 30            | 100 | 40                        | 1,6  | 11,2                 | 24,6 |



Recommended pretension: 3...6 %

approx. 84° Shore A

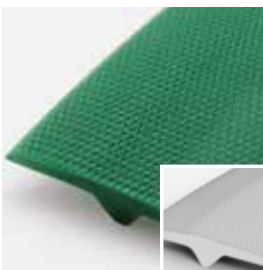
**Coeff. of friction  $\mu$ :** Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**



### T-Profiles for packaging industry

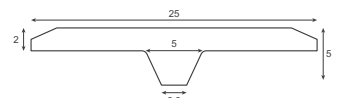
T-profiles are ideal for transporting various light goods and foodstuffs, with several T-profile belts usually running next to each other. The integrated guide wedge on the running side prevents the profiles from running sideways and thus guarantees precise straight running. The BEHAbelt portfolio includes T-profiles in various geometries, PU shore hardnesses and colour combinations.

### T-Profile PU85A (25 x 5 mm) green or white embossed (EFI) / smooth



● ○ also available: smooth

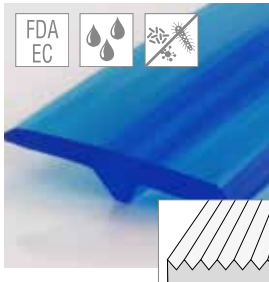
| Order No.                         | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|-----------------------------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|                                   |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBTK25X5GW01<br>(green, embossed) | 25 x 5                  | 0,58                             | 7,0                       | 50            | 164 | 50                        | 2,0  | 16,0                 | 35,2 |
| FBSP85A25X5<br>(green, smooth)    | 25 x 5                  | 0,58                             | 7,0                       | 50            | 164 | 50                        | 2,0  | 16,0                 | 35,2 |
| FBTK25X5WW01<br>(white, embossed) | 25 x 5                  | 0,58                             | 7,0                       | 50            | 164 | 50                        | 2,0  | 16,0                 | 35,2 |
| FBSP85A25X5A<br>(white, smooth)   | 25 x 5                  | 0,58                             | 7,0                       | 50            | 164 | 50                        | 2,0  | 16,0                 | 35,2 |



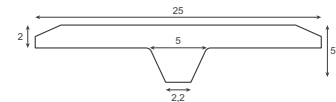
approx. 88° Shore A

Recommended pretension: 3...6 %, **Coeff. of friction  $\mu$ :** Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## T-Profile PU85A sapphire blue smooth / ribbed (LGD)\* (25 x 5 mm)



| Order No.               | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|-------------------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|                         |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBSP85A25X5B            | 25 x 5                  | 0,59                             | 7,3                       | 50            | 164 | 50                        | 2,0  | 15,2                 | 33,4 |
| FBTK25X5LGA<br>(ribbed) | 25 x 5                  | 0,59                             | 7,3                       | 50            | 164 | 50                        | 2,0  | 15,2                 | 33,4 |



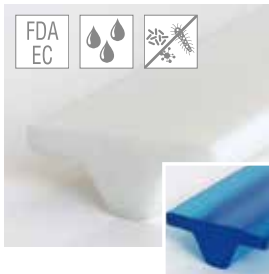
\*Longitudinal grooves (LGD)

Recommended pretension: 3...6 %

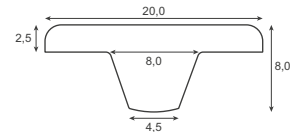
approx. 88° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## T-Profile PU85A white or sapphire blue (20 x 8 mm)



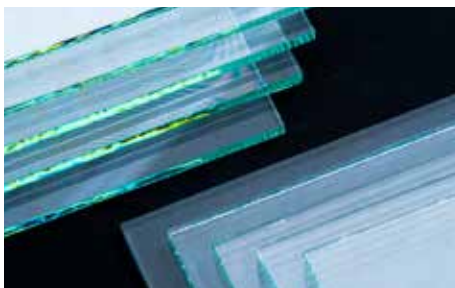
| Order No.                      | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|--------------------------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|                                |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBSP85A20X8W<br>(white)        | 20x8                    | 0,83                             | 10,0                      | 30            | 100 | 100                       | 4,0  | 21,4                 | 47,1 |
| FBSP85A20X8<br>(sapphire blue) | 20x8                    | 0,83                             | 10,0                      | 30            | 100 | 100                       | 4,0  | 21,4                 | 47,1 |



Recommended pretension: 3...6 %

approx. 88° Shore A

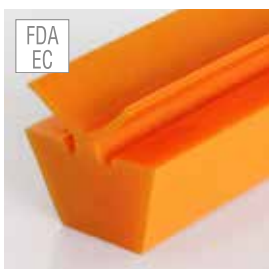
Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant



### Glass industry

The special „Wing Top“ profile is ideal for the gentle transport of flat glass or similar sheet products.

## Wing Top PU80A orange smooth



| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBSI17X100G | 17 x 11 x 16,5          | 1,56                             | 18,7                      | 30            | 100 | 125                       | 4,9  | 35,1                 | 77,2 |

Recommended pretension: 3...6 %

approx. 84° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

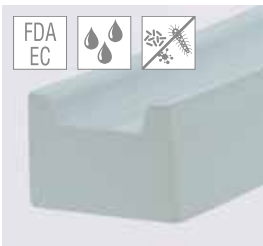




### Profiles for French fries / potato strips

Profiles to support the automatic elimination of defects in potato strips (French fries). Made of special hydrolysis resistant PU that ensures longer life and less bacterial growth in wet environment. The dirt-repellent material reduces discoloration and improves the visual appearance of the profiles.  
High-quality PU ensures strong welding seams.

### U-Profile PU85A milky smooth



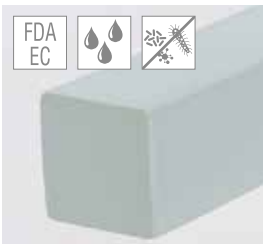
approx. 88° Shore A

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll   |    | Recommended Min. pulley Ø |     | Fmax/belt (Standard) |      |
|--------------|-------------------------|----------------------------------|----------------------------|-----------------|----|---------------------------|-----|----------------------|------|
|              |                         |                                  |                            | ft              | mm | inch                      | kg  | lbs                  |      |
| FBSP85A180S1 | 18 x 11,8               | 1,70                             | 20,0                       | 1 x 30'5" / pc. |    | 120                       | 4,7 | 43,9                 | 96,6 |
| FBSP85A180S6 | 18 x 11,8               | 1,70                             | 20,0                       | 6 x 30'5" / pc. |    | 120                       | 4,7 | 43,9                 | 96,6 |

Recommended pretension: 3...6 %

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

### Square Profile PU85A milky smooth



approx. 88° Shore A

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100 m | Standard Roll   |    | Recommended Min. pulley Ø |     | Fmax/belt (Standard) |      |
|--------------|-------------------------|----------------------------------|----------------------------|-----------------|----|---------------------------|-----|----------------------|------|
|              |                         |                                  |                            | ft              | mm | inch                      | kg  | lbs                  |      |
| FBSP85A118S1 | 11,8 x 11,8             | 1,39                             | 16,7                       | 1 x 30'5" / pc. |    | 120                       | 4,7 | 35,9                 | 79,0 |
| FBSP85A118S6 | 11,8 x 11,8             | 1,39                             | 16,7                       | 6 x 30'5" / pc. |    | 120                       | 4,7 | 35,9                 | 79,0 |

Recommended pretension: 3...6 %

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant



### Profile for Corn and similar goods

Special profile for peeling machines. The central recess in the profile ensures that the conveyed products are precisely positioned and transferred to the next processing step.

### Corn belt PU80A orange smooth without\* / with serrations



approx. 84° Shore A

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBSJ8X330G* | 33 x 8                  | 1,9                              | 22,8                       | 30            | 100 | 50                        | 2,0  | 45,6                 | 100,3 |
| FBSJ8X330GA | 33 x 8                  | 1,9                              | 22,8                       | 30            | 100 | 50                        | 2,0  | 45,6                 | 100,3 |

Recommended pretension: 3...6 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant



## Spreading applications

In spreading applications, these profiles allow product strands to be pulled apart, e.g. in the confectionery industry. The dedicated selection of material and Shore hardness can improve the release properties of sticky products.

## PU80A orange 3-ribbed



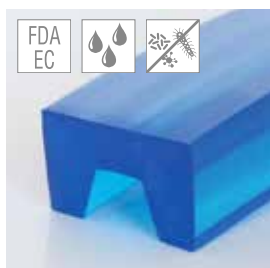
| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBSI17B0GR3 | 17 x 11 (B)             | 1,46                             | 18,0                      | 30            | 100 | 110                       | 4,3  | 43,8                 | 96,4  |
| FBSI22C0GR3 | 22 x 14 (C)             | 2,40                             | 29,0                      | 30            | 100 | 150                       | 5,9  | 72,0                 | 158,4 |

Recommended pretension: 4...8 %

approx. 84° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU85A (15 x 10 mm) sapphire blue

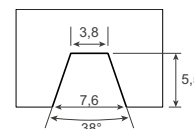


| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBSK15X10LG | 15 x 10                 | 1,2                              | 14                        | 30            | 100 | 100                       | 3,9  | 41,0                 | 90,2 |

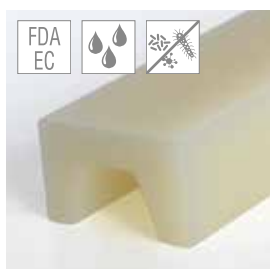
Recommended pretension 4...8 %

approx. 88° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30



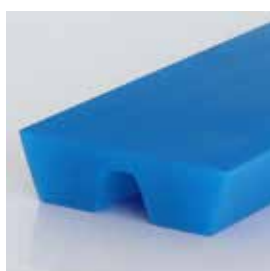
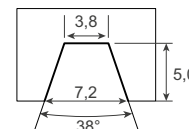
## PU95A (12 x 8 mm) beige



| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|------|
|            |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBSM12X8BG | 12 x 8                  | 0,67                             | 7,9                       | 50            | 164 | 120                       | 4,7  | 32,7                 | 71,9 |

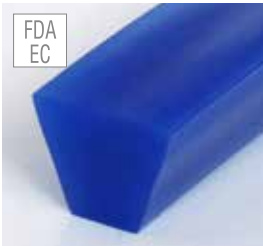
Recommended pretension 3...5 %, Coeff. of friction  $\mu$ : Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20

approx. 95° Shore A



Please also note other Twin V-belts on page 37.

## PU80A V-belt ultramarine blue (10 x 8 mm)



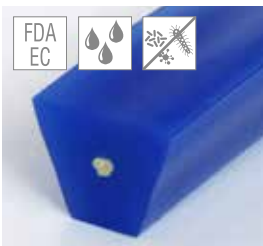
approx. 84° Shore A

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|-------------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|------|
|             |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBKJ10X8BGA | 10 x 8                  | 0,58                             | 6,9                        | 100           | 328 | 80                        | 3,1  | 18,6                 | 40,9 |

Recommended pretension: 3...6 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

## PU85A V-belt ultramarine blue (10 x 8 mm), reinforced Aramid



approx. 88° Shore A

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|-------------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|------|
|             |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBKK10X8LGA | 10 x 8                  | 0,58                             | 6,9                        | 50            | 164 | 85                        | 3,3  | 19,9                 | 43,8 |

Recommended pretension: 0,5...2 %

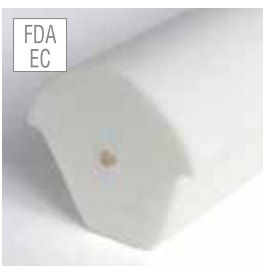
Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant



### Sorting of fruit and vegetables

This is just one example for the use of special profiles from the BEHAbelt product portfolio. Thanks to many years of experience and our own tool shop we can realize customer and application specific profiles within very short time.

## PU80A Pear Profile (28 x 29 mm) white reinforced Polyester



approx. 84° Shore A

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |     |
|-------------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|-----|
|             |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs |
| FBSJ28X29WG | 28 x 29                 | 5,1                              | 61                         | 30            | 100 | 350                       | 13,8 | 163,6                | 360 |

Recommended pretension: 0,5...2 %

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

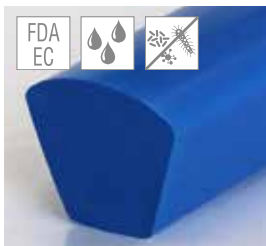


## Slicer

For slicer applications and the downstream feeding lines BEHAbelt has different product options in its product range. Depending on the conveyed goods, extruded round belts, V-belts or T-profiles with special material properties and surface structures can be used.

V-belts with a curved surface are proven to be particularly suitable for Transport of sliced cheese proven.

## PU75A ultramarine blue smooth with vaulted top



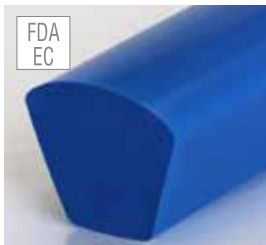
approx. 80° Shore A

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|--------------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|------|
|              |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBSP75A0865U | 8 x 6,5 (M)             | 0,39                             | 4,6                        | 50            | 164 | 40                        | 1,6  | 10,0                 | 22,0 |

Recommended pretension: 4...8 %

**Coeff. of friction  $\mu$ :** Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC/USDA compliant**

## PU80A ultramarine blue smooth with vaulted top



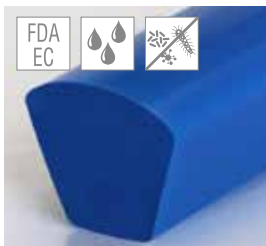
approx. 84° Shore A

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|--------------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|------|
|              |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBSP80A0865U | 8 x 6,5 (M)             | 0,39                             | 4,6                        | 50            | 164 | 50                        | 2,0  | 11,0                 | 24,2 |

Recommended pretension: 4...8 %

**Coeff. of friction  $\mu$ :** Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

## PU85A ultramarine blue smooth with vaulted top



approx. 88° Shore A

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|--------------|-------------------------|----------------------------------|----------------------------|---------------|-----|---------------------------|------|----------------------|------|
|              |                         |                                  |                            | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBSP85A0865U | 8 x 6,5 (M)             | 0,39                             | 4,6                        | 50            | 164 | 55                        | 2,2  | 13,2                 | 29,0 |

Recommended pretension: 4...8 %

**Coeff. of friction  $\mu$ :** Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC/USDA compliant**



## Building materials

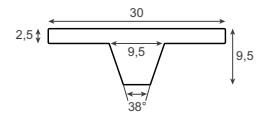
For the transport of heavy and abrasive building materials our V-belts guarantee longevity and high wear resistance. In addition to the good temperature resistance, these belts, like all BEHAbelt products, can be quickly and easily welded and are available with or without tension members.

In addition we offer many coatings (see page 36) for different applications.

## T-Profile PU95A beige smooth (30 x 9,5 mm)



| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|            |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBTM30X95B | 30 x 9,5                | 1,23                             | 14,8                      | 30            | 100 | 110                       | 4,3  | 45,6                 | 100,3 |



Recommended pretension: 3...5 %

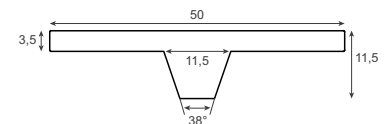
approx. 95° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20 | FDA/EC compliant

## T-Profile PU95A beige smooth (50 x 11,5 mm)



| Order No.  | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|            |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBTM50X11B | 50 x 11,5               | 2,43                             | 29,2                      | 30            | 100 | 130                       | 5,1  | 90,1                 | 198,2 |



Recommended pretension: 3...5 %

approx. 95° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20 | FDA/EC/USDA compliant

## TPE55D V-belt additional height (22 x 16 mm) beige



| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBSR22X16BG | 22 x 16                 | 3,12                             | 37                        | 50            | 164 | 280                       | 11,0 | 299,5                | 659,9 |

Recommended pretension: 2...4 %

55° Shore D • approx. 100° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,35 | PE: approx. 0,20 | HDPE: approx. 0,15 | FDA/EC/USDA compliant



## Intralogistics – Roller conveyors

These special profiles have optimised material properties for reliable use in roller conveyors, whether as tangential drive, roller-to-roller drive or crossed drive. Please also look at our round belt range page 12 and following.

## PU75A plus Poly V-belt, orange



approx. 80° Shore A

| Order No. | Description | Profile dimension | Cross section   | approx. weight | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|-----------|-------------|-------------------|-----------------|----------------|---------------|-----|---------------------------|------|----------------------|------|
|           |             | mm                | cm <sup>2</sup> | kg/100 m       | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBPVIPJ20 | PJ2         | 4,8 x 4           | 0,16            | 1,96           | 200           | 656 | 30                        | 1,2  | 7,2                  | 15,8 |
| FBPVIPJ30 | PJ3         | 7 x 4             | 0,24            | 2,93           | 200           | 656 | 30                        | 1,2  | 10,5                 | 23,1 |
| FBPVIPJ40 | PJ4         | 9,3 x 4           | 0,32            | 3,92           | 200           | 656 | 30                        | 1,2  | 14,4                 | 31,7 |

Recommended pretension: 3...6 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

## PU85A plus Poly V-belt, ultramarine blue

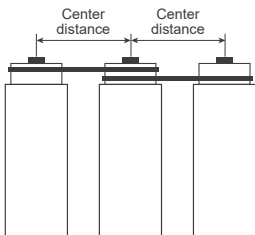


approx. 88° Shore A

| Order No.  | Description | Profile dimension | Cross section   | approx. weight | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |      |
|------------|-------------|-------------------|-----------------|----------------|---------------|-----|---------------------------|------|----------------------|------|
|            |             | mm                | cm <sup>2</sup> | kg/100 m       | m             | ft  | mm                        | inch | kg                   | lbs  |
| FBPVKJPJ2L | PJ2         | 4,8 x 4           | 0,16            | 1,96           | 200           | 656 | 40                        | 1,6  | 10,3                 | 22,7 |
| FBPVKJPJ3L | PJ3         | 7 x 4             | 0,24            | 2,93           | 200           | 656 | 40                        | 1,6  | 15,0                 | 33,1 |
| FBPVKJPJ4L | PJ4         | 9,3 x 4           | 0,32            | 3,92           | 200           | 656 | 40                        | 1,2  | 20,6                 | 45,4 |

Recommended pretension: 3...6 %, **Coeff. of friction  $\mu$** : Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

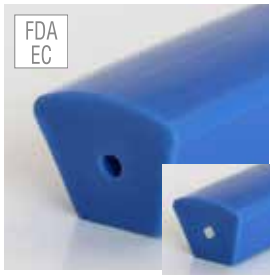
## PU to rubber Poly V-belt conversion



| Centre distance for pulley Ø 43 mm | Production length BEHAbelt* | PJ2                          | PJ3            | PJ4            |
|------------------------------------|-----------------------------|------------------------------|----------------|----------------|
|                                    |                             | nominal length specification |                |                |
| 53 - 56                            | 234                         | Ref. 2PJ246-43               | Ref. 3PJ246-43 | Ref. 4PJ246-43 |
| 60 - 63                            | 243                         | Ref. 2PJ256-43               | Ref. 3PJ256-43 | Ref. 4PJ256-43 |
| 64 - 65                            | 252                         | Ref. 2PJ265-43               | Ref. 3PJ265-43 | Ref. 4PJ265-43 |
| 66 - 67                            | 257                         | Ref. 2PJ270-43               | Ref. 3PJ270-43 | Ref. 4PJ270-43 |
| 71 - 72                            | 268                         | Ref. 2PJ282-43               | Ref. 3PJ282-43 | Ref. 4PJ282-43 |
| 73 - 75                            | 272                         | Ref. 2PJ286-43               | Ref. 3PJ286-43 | Ref. 4PJ286-43 |
| 76 - 77                            | 276                         | Ref. 2PJ290-43               | Ref. 3PJ290-43 | Ref. 4PJ290-43 |
| 78 - 79                            | 274                         | Ref. 2PJ288-43               | Ref. 3PJ288-43 | Ref. 4PJ288-43 |
| 80 - 84                            | 287                         | Ref. 2PJ302-43               | Ref. 3PJ302-43 | Ref. 4PJ302-43 |
| 87 - 91                            | 298                         | Ref. 2PJ314-43               | Ref. 3PJ314-43 | Ref. 4PJ314-43 |
| 92 - 95                            | 300                         | Ref. 2PJ316-43               | Ref. 3PJ316-43 | Ref. 4PJ316-43 |
| 97 - 101                           | 319                         | Ref. 2PJ336-43               | Ref. 3PJ336-43 | Ref. 4PJ336-43 |
| 103 - 107                          | 329                         | Ref. 2PJ346-43               | Ref. 3PJ346-43 | Ref. 4PJ346-43 |
| 115 - 118                          | 353                         | Ref. 2PJ372-43               | Ref. 3PJ372-43 | Ref. 4PJ372-43 |
| 119 - 121                          | 357                         | Ref. 2PJ376-43               | Ref. 3PJ376-43 | Ref. 4PJ376-43 |
| 123 - 128                          | 369                         | Ref. 2PJ388-43               | Ref. 3PJ388-43 | Ref. 4PJ388-43 |

\* general pretension of 5% to the nominal length specification

## TPE55D *bluepower* smooth, with/without reinforced Polyester



| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard Roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|---------------------|-------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   | kg                  | lbs   |
| FBKBLP17113W | 16,35 x 11,3            | 1,49                             | 18,0                      | 50            | 164 | 175                       | 7,0  | 119,2                | 262,2 | n/a                 | n/a   |
| FBKBLP1711W2 | 16,35 x 11,3            | 1,49                             | 18,0                      | 100           | 328 | 175                       | 7,0  | 119,2                | 262,2 | n/a                 | n/a   |
| FBKBLP1711W3 | 16,35 x 11,3            | 1,49                             | 18,0                      | 100           | 328 | 180                       | 7,1  | 119,2                | 262,2 | 150,0               | 330,0 |

Recommended pretension: 2...4 % (without reinforcement), 0,5...2% (with reinforcement)

55° Shore D · approx. 100° Shore A

**Coeff. of friction  $\mu$ :** Steel: approx. 0,35 | PE: approx. 0,20 | HDPE: approx. 0,15 | **FDA/EC/USDA compliant**

## TPE55D beige smooth with chamfer, with/without reinforced Polyester



| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       | Fmax/belt (Overlap) |       |
|--------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|---------------------|-------|
|              |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   | kg                  | lbs   |
| FBKH55D17115 | 17 x 11,4               | 1,45                             | 18,0                      | 100           | 328 | 175                       | 7,0  | 116,0                | 255,2 | n/a                 | n/a   |
| FBKS17115BGA | 17 x 11,4               | 1,45                             | 18,0                      | 100           | 328 | 180                       | 7,1  | 116,0                | 255,2 | 150,0               | 330,0 |

Recommended pretension: 2...4 % (without reinforcement), 0,5...2 % (with reinforcement)

55° Shore D · approx. 100° Shore A

**Coeff. of friction  $\mu$ :** Steel: approx. 0,35 | PE: approx. 0,20 | HDPE: approx. 0,15 | **FDA/EC/USDA compliant**

## PU80A Double V-belt black (17 x 13,5 mm)



| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBSJ17X13SG | 17 x 13,5               | 1,92                             | 2,3                       | 50            | 164 | 150                       | 5,9  | 61,6                 | 135,5 |

approx. 84° Shore A

Recommended pretension: 3...6 %, **Coeff. of friction  $\mu$ :** Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU85A Double V-belt black (17 x 13,5 mm)

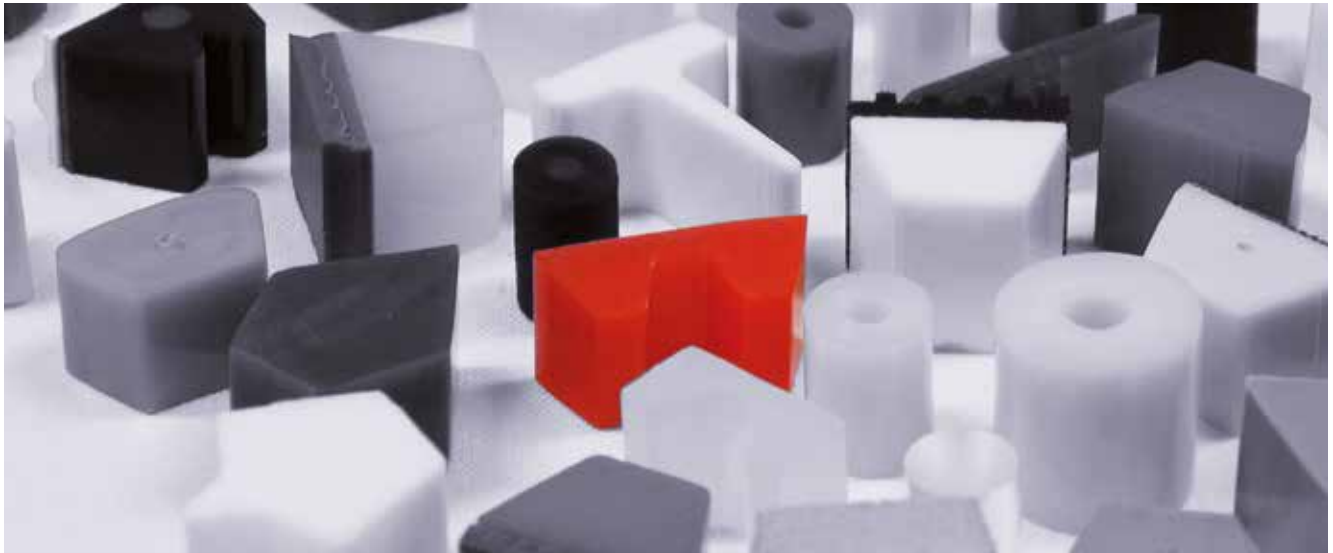


| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. weight<br>kg/100m | Standard roll |     | Recommended Min. pulley Ø |      | Fmax/belt (Standard) |       |
|-------------|-------------------------|----------------------------------|---------------------------|---------------|-----|---------------------------|------|----------------------|-------|
|             |                         |                                  |                           | m             | ft  | mm                        | inch | kg                   | lbs   |
| FBSK17X13SG | 17 x 13,5               | 1,92                             | 2,3                       | 50            | 164 | 160                       | 6,3  | 69,7                 | 153,3 |

approx. 88° Shore A

Recommended pretension: 3...6 %, **Coeff. of friction  $\mu$ :** Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

# Didn't find your belt?



**no minimum order quantities**

**according to your specifications**

**in only 4-8 weeks**

## **BEHAbelt offers you the exclusive and fast delivery of your desired profile or conveyor belt!**

If a standard profile does not meet the requirements of your application, BEHAbelt offers you the unique opportunity to develop a customer-specific product. According to your specifications and your design!

### **Tell us about your application!**

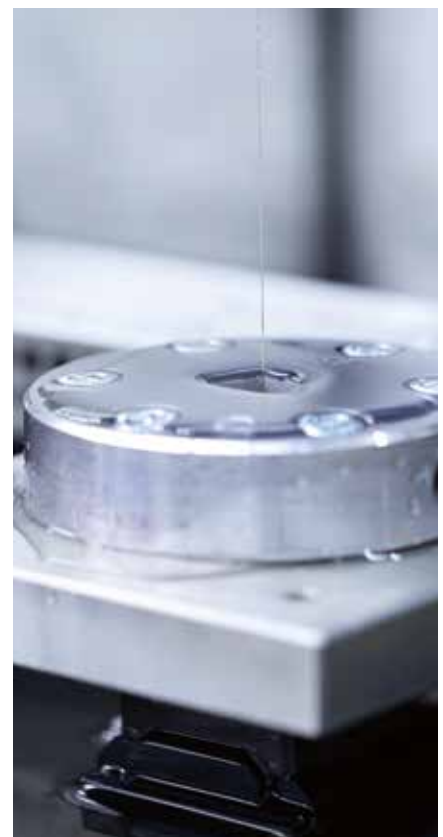
Thanks to our modern in-house tool shop, we are able to produce special profiles for you in the shortest possible time. On page 136 you will find the technical inquiry template; it helps to gather the most important information to fulfil your request.

### **FAST DELIVERY (4-8 WEEKS)**

- Many years of experience, in-house manufacturing of tooling, individual consulting
- Development of customised profiles and conveyor belts
- Designed specifically for your application
- According to your design

### **ECONOMIC ADVANTAGES**

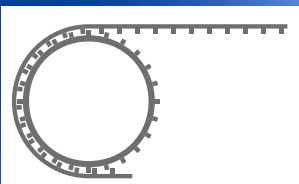
- Exclusivity / securing the After Sales Market
- Material combination
- Optimization of your application through the perfect profile
- Improved service life and functionality
- Appropriate welding technology



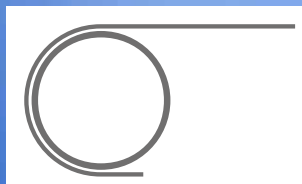


# CONVEYOR

# BELTS



Slip-free (p. 61)



Friction driven (p. 62)

## ELASTIC MONOLITHIC CONVEYOR BELTS

|  |    |
|--|----|
| Applications, Industries, Product features ..... | 56 |
| Overview belt structures.....                    | 59 |
| Table structure key .....                        | 60 |
| Slip-free conveyor belts .....                   | 61 |
| Conveyor belts up to 750 mm.....                 | 62 |
| Conveyor belts for intralogistics.....           | 67 |
| Machine tapes.....                               | 68 |
| Elastic conveyor belts up to 360 mm .....        | 69 |
| Elastic conveyor belts up to 140 mm .....        | 69 |
| Welding electrodes.....                          | 94 |

## Elastic monolithic conveyor belts

BEHAbelt offers innovative and quality solutions. There is already a huge variety of belting categories and design variations available on the market. However, the increasing automation of industrial production processes and machines requires ongoing evolution. Only if all components and their features keep pace, real improvements in terms of efficiency, capacity and safety can be achieved.

This is where the new elastic monolithic conveyor belts by BEHAbelt deliver an important contribution. These products enable longer life and minimize risks like cover and ply delamination or edge fraying versus conventional coated conveyor belts with fabric carcasses.

BEHAbelt offers both friction and positive driven conveyor belts for your applications.



### Advantages

#### PRODUCT DESIGN

- No risk of contamination based on exposed belt fabrics or due to mechanical damage to belt edges
- Part of a preventive hygienic machinery design concerning food safety
- Excellent cleanability and microbial resistance
- Homogeneously added product feature options: Metal detectable, X-ray detectable, UV-C resistant, antistatic discharging

#### HANDLING

- Easy installation of elastic belt versions due to elasticity
- Softer belts allow even a hand mounted possibility with fixed center to center machinery designs without any take up
- Butt-end weldings can be made with a user-friendly tool, which ensures no loss of surface structure, homogeneity and elasticity in the joining
- Accessories such as corrugated sidewalls, cleats, V-guides and other profiles can be welded on excellently.

### Industries and applications

Elastic monolithic conveyor belts are especially beneficial for the various applications to convey unwrapped foodstuff. Furthermore, this design and the special features are opening up interesting opportunities way beyond that, for example in:

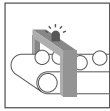
#### INDUSTRIES

- Food (Fish, Meat, Poultry, Fruit & Vegetable, Confectionery and Bakery)
- Packaging (Food and Non-Food)
- Pharmacy
- Logistics and Material Handling

#### APPLICATIONS

- General conveying, Separation and Acceleration
- Weighing, Sorting, Portioning
- Feeding, Cutting, Detecting (metal detectors) and many more

## Metal & X-Ray detectable PU80 SAFE



**Product contamination with foreign objects, e.g. synthetic particles, is a high risk in food processing.**

Metal or X-ray detectors can be used to detect contamination of the food by foreign particles.

Both the elastic monolithic belts and the non-reinforced belt profiles are suitable for trouble-free transport through the inspection area of metal and X-ray detectors. Thanks to the homogeneous design, the measurement results of the detectors are neither distorted nor influenced.

For upstream process sections, the PU80Asafe product series offers the possibility to detect and remove inadvertently inserted strip pieces downstream with a detector. This product series thus makes a preventive contribution to product safety.

## 2 Components design

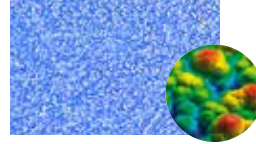


**Various transport tasks can be optimised by 2-component conveyor belts can be optimised.**

Depending on the material to be conveyed or the type of conveyor (e.g. accumulation, inclined conveyor), a wide variety of belt types are required. The 2C process allows both structures to be combined and 2 different degrees of hardness to be combined in one belt.

For example, when designing a belt for an inclined conveyor, the transport side can have more grip, but the running side can have good gliding properties.

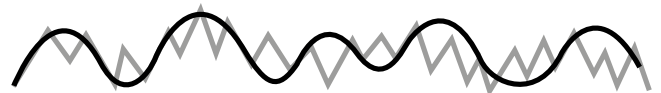
## MICROclean Surface finish



**BEHAbelt uses a unique structure finish for the special requirements of the food industry.**

The special structure of the MICROclean surface allows better and faster cleaning of the belt surface due to the special surface design, which can only be recognised with a magnifying glass. In addition, the transported products are easier to remove, especially when transferring the product to the next transport section.

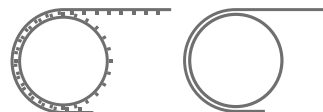
The graphic illustrates the principle of MICROclean:



— Belt surface smooth gloss (SG)

— Belt surface MICROclean smooth matt (SM)

## Slip-free / Friction driven

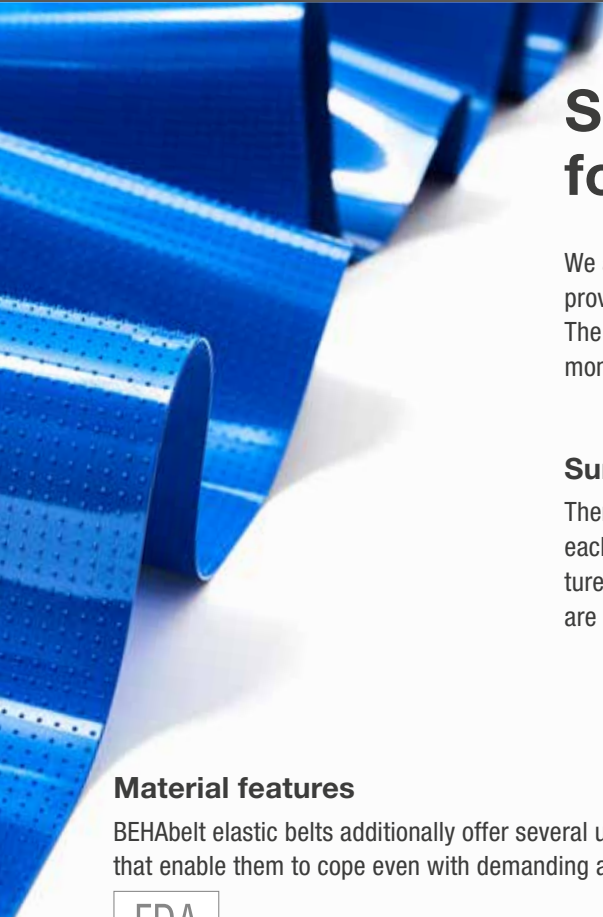


**Slip-free AT5 elastic conveyor belts**

The positive-driven AT5 conveyor belts from BEHAbelt enable slip-free traction, even with the smallest pulley diameters of only Ø 18 mm. Slip-free because the running side of the elastic belt is designed with a modified AT5 and this fits perfectly on an AT5 pulley due to the pretension of 1.5%.

**Friction driven elastic conveyor belts and machine tapes**

These conveyor belts are installed in the system with a pretension of 0.5-5%. The precise pretension ensures optimum power transmission and thus optimises the bearing load and ultimately your energy costs. The belts are guided e.g. via crowned pulleys or welded-on V-guides.



## Suitable belt designs for your applications


We aim to understand the challenges and applications of our customers and to provide support through our enhanced product portfolio and know-how. The variety of options to combine surface structures, material features and colors of monolithic conveyor belts, offered by BEHAbelt, are unmatched in the market.


### Surface structures


There are currently twelve different structures available, which can be combined with each other in almost any way on the transport and running side. Five of these structures (nub top, diamond, smooth matt as well as longitudinal and transversal grooves) are also available with the unique „MICROclean“ surface finish.

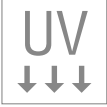
### Material features


BEHAbelt elastic belts additionally offer several useful features that enable them to cope even with demanding applications.


- 

FDA/EC conformity for direct contact with food. (see also p. 124)
- 


Metal and X-ray detectable conveyor belts for maximum food safety. These products are part of the PU SAFE range.
- 

Hydrolysis resistant conveyor belts for optimal performance in warm, wet and humid environment
- 

Specially protected against UV-C waves.
- 

Friction driven conveyor belts for roller conveyors.
- 

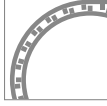
BEHAbelt is offering a broad spectrum of possible and even individual color options.

- 

Antistatic conveyor belts to ensure electrical discharge in sensitive applications.
- 

Microbe-resistant materials do not provide a breeding ground for microorganisms.
- 

Unique surface finish that offers optimal release properties and best cleanability due to its rounded structure.
- 

The 2-component production allows the combination of different material hardnesses, properties and colours.
- 

Slip-free conveyor belts for positive drives.

### Hardness

BEHAbelt distinguish between two hardness ranges.

|             |                       |
|-------------|-----------------------|
| <b>SOFT</b> | PU65A, PU75A, PU80A   |
| <b>HARD</b> | PU95A, TPE55D, TPE63D |

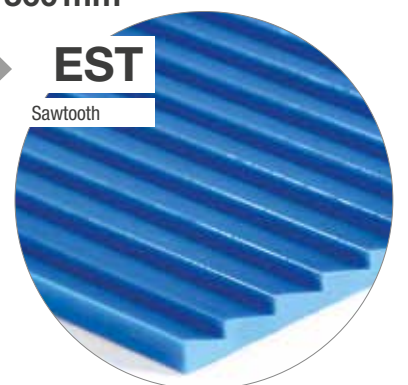
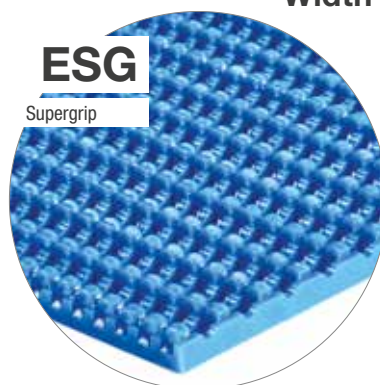
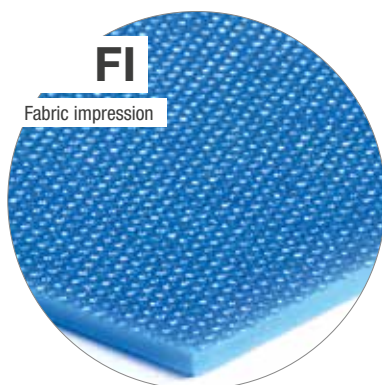
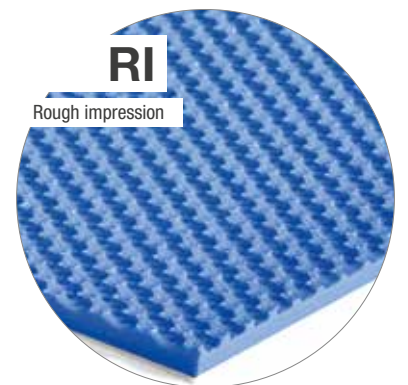
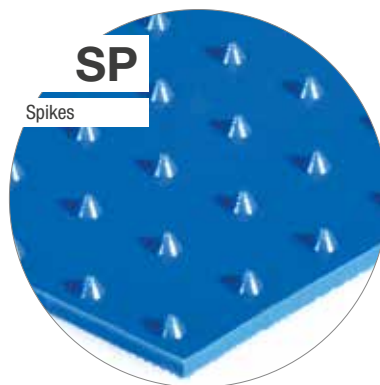
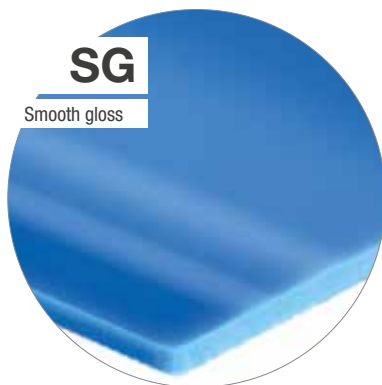
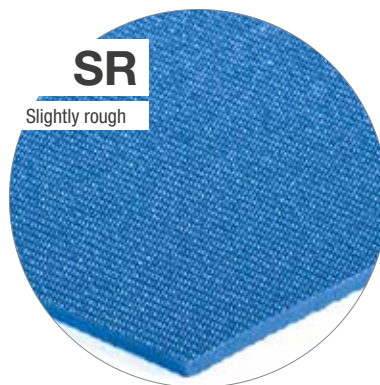
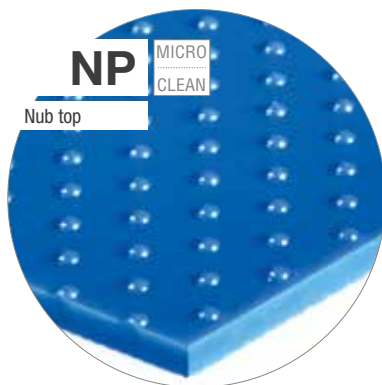
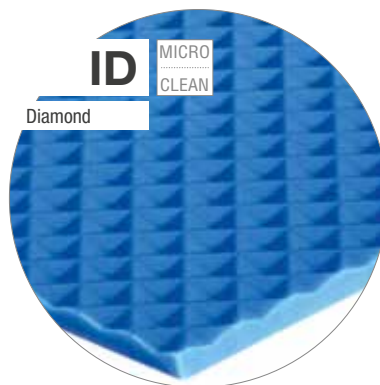
### Thickness

Conveyor belts are available in different thicknesses from 0,9 - 4 mm.

|        |       |        |       |
|--------|-------|--------|-------|
| 0,9 mm | _____ | 2 mm   | _____ |
| 1 mm   | _____ | 2,5 mm | _____ |
| 1,2 mm | _____ | 3 mm   | _____ |
| 1,6 mm | _____ | 4 mm   | _____ |

## OVERVIEW BELT STRUCTURES

The belt structures shown here can be combined almost arbitrarily. In addition, you have the option of individual colouring and dedicated product properties, such as UV-C resistance or antistatic conductivity.




Width up to 360 mm



# Table structure key

## General explanation of the product tables









| Bottom side  | Color | Additional features | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley $\varnothing$ |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|--|-------|---------------------|---------|----------------|-------------------|-------|---------------------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|  |       |                     |         |                | mm                | inch  | mm                                    | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| <br>Diamant (ID) | UB    | MICRO CLEAN         | PU80A   | 84 A           | 1,0               | 0,039 | 10                                    | 0,40 | 0,24       | 1,32     | 0,20        | 1,12     | 50            | 164 | 1-5%                   | FBFJ750X10LK |

## Legende

- ① Structure of **bottom side**; shown as image and text
- ② Symbol for product characteristic of the bottom side (see table below for explanation of symbols)
- ③ Structure of **top side**; shown as image and text
- ④ Colour (Caution, original colour may deviate from the graphic; standard colours: ultramarine blue, sky blue, white and black)
- ⑤ Symbol for product characteristic of the **top side** (see table below for explanation of symbols)
- ⑥ BEHAbelt product description
- ⑦ Hardness in Shore A/D
- ⑧ Profile thickness in mm/inch
- ⑨ Recommended minimum pulley diameter (mm). Note: Smaller pulley diameters shorten the service life of the belt.
- ⑩ k1% static – Modulus of elasticity per mm of belt width when the belt is pulled up (max. bearing load)
- ⑪ k1% relaxed – Modulus of elasticity per mm of belt width after running-in of the belt (max. transport weight)
- ⑫ Standard roll (standard delivery)
- ⑬ Recommended pretension\* of the belt in the system (in %). Note: A higher pretension increases the axle and bearing loads.

\*Calculation formulas and technical know-how starting on page 132

## Symbols

|   |   |   |   |   |  |   |   |
|---|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |  |
| Antistatic discharge conveyor belts with excellent mechanical properties            | Protection against UV-C waves generated by respective disinfection device           | Belts with FDA/EC conformity for direct contact with food.                          | Metal and X-ray detectable conveyor belts for maximum of food safety.               | Hydrolysis resistant conveyor belts for use in warm, humid and wet environments.    | Microbe-resistant conveyor belts do not provide a breeding ground for microorganisms | Belts made of 2 components enable combination of hardness and features.               | Unique surface finish for improved release of sticky goods and excellent cleanability |

## Colour codes

|                            |                      |                    |                 |                       |                 |
|----------------------------|----------------------|--------------------|-----------------|-----------------------|-----------------|
| <b>UB</b> ultramarine blue | <b>CB</b> capri blue | <b>HI</b> sky blue | <b>SW</b> black | <b>TR</b> transparent | <b>WE</b> white |
|----------------------------|----------------------|--------------------|-----------------|-----------------------|-----------------|





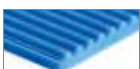



## AT5 – slip-free conveyor belts

The positive-driven AT5 conveyor belts enable slip-free traction, even with the smallest pulley diameters of only Ø 18 mm. This means that even conveyor sections with the smallest transfers can now be utilized with a slip-free belt solution.

Thanks to the careful selection of raw materials for direct food contact, the belt solutions offer very good microbial, hydrolysis and chemical resistance.

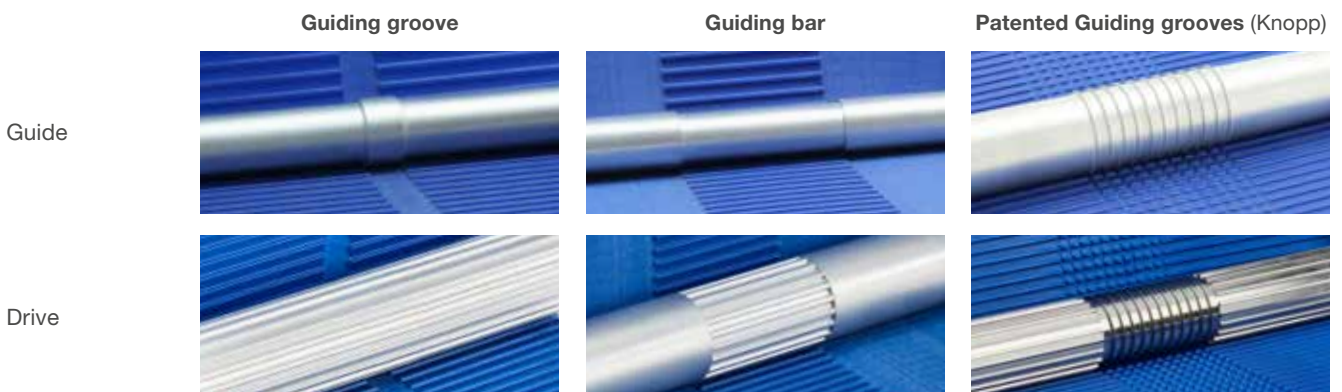


### BOTTOM SIDE: AT5 // 700 mm

| Top side   | Colour | Features    | Quality        | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø* |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|--|--------|-------------|----------------|----------------|-------------------|-------|----------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|  |        |             |                |                | mm                | inch  | mm                         | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| <br>Slightly rough (SR) | UB     |             | PU65A<br>PU80A | 72 A<br>84 A   | 3,0               | 0,118 | 18                         | 0,7  | 0,35       | 1,98     | 0,30        | 1,68     | 50            | 164 | 1,5% ±0,5%             | FBFJG750X3LE |
| <br>Smooth matt (SM)   | UB     | MICRO CLEAN | PU65A<br>PU80A | 72 A<br>84 A   | 3,0               | 0,118 | 18                         | 0,7  | 0,35       | 1,98     | 0,30        | 1,68     | 50            | 164 | 1,5% ±0,5%             | FBFJG750X3L  |
| <br>Transversal (TGA) | UB     | MICRO CLEAN | PU65A<br>PU80A | 72 A<br>84 A   | 3,8               | 0,149 | 28                         | 1,1  | 0,38       | 2,11     | 0,32        | 1,79     | 50            | 164 | 1,5% ±0,5%             | FBFJG750X38A |
| <br>Nub top (NP)      | UB     | MICRO CLEAN | PU65A<br>PU80A | 72 A<br>84 A   | 3,2               | 0,125 | 25                         | 1,0  | 0,38       | 2,11     | 0,32        | 1,79     | 50            | 164 | 1,5% ±0,5%             | FBFJG750X3LC |
| <br>Diamond (ID)      | UB     | MICRO CLEAN | PU65A<br>PU80A | 72 A<br>84 A   | 3,0               | 0,118 | 18                         | 0,7  | 0,33       | 1,84     | 0,28        | 1,57     | 50            | 164 | 1,5% ±0,5%             | FBFJG750X3LD |
| <br>Spikes (SP)       | UB     |             | PU65A<br>PU80A | 72 A<br>84 A   | 3,0               | 0,118 | 25                         | 1,0  | 0,35       | 1,98     | 0,30        | 1,68     | 50            | 164 | 1,5% ±0,5%             | FBFJG750X3LB |

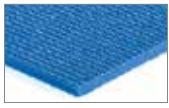
### Illustration of drive and guide concepts

The interaction of AT5 (also T5) drive with optimum belt guidance ensures tracking stability and slip-free drive.



\* recommended pulley design: AT5 (optionally also T5 possible)

# Elastic conveyor belts up to 750 mm



## TOP SIDE: SLIGHTLY ROUGH (SR)

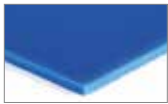
| Bottom side            | Color | Additional features | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley ∅ |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |              |
|------------------------|-------|---------------------|---------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|--------------|
|                        |       |                     |         |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |              |
| Diamond (ID)           | UB    | MICRO CLEAN UV      | PU75A   | 80 A           | 1,6               | 0,062 | 13                        | 0,52 | 0,36       | 2,0      | 0,30        | 1,67     | 50            | 164 | 1-5%                   | FBFJ750X16LI |              |
|                        |       | MICRO CLEAN         | PU80A   | 84 A           | 1,0               | 0,039 | 10                        | 0,40 | 0,24       | 1,32     | 0,20        | 1,12     | 50            | 164 | 1-5%                   | FBFJ750X10LK |              |
|                        |       | MICRO CLEAN UV      |         |                | 1,2               | 0,047 | 12                        | 0,47 | 0,29       | 1,65     | 0,25        | 1,40     | 50            | 164 | 1-5%                   | FBFJ750X12LJ |              |
| Fabric impression (FI) | UB    |                     | PU80A   | 84 A           | 1,0               | 0,039 | 10                        | 0,40 | 0,29       | 1,65     | 0,25        | 1,40     | 50            | 164 | 1-5%                   | FBFJ750X10L  |              |
|                        |       |                     |         |                | 1,2               | 0,047 | 10                        | 0,40 | 0,35       | 1,98     | 0,30        | 1,68     | 50            | 164 | 1-5%                   | FBFJ750X12L  |              |
|                        |       |                     |         |                | 1,6               | 0,062 | 15                        | 0,60 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164 | 1-5%                   | FBFJ750X16L  |              |
|                        |       |                     |         |                | 2,0               | 0,078 | 20                        | 0,80 | 0,59       | 3,29     | 0,50        | 2,80     | 50            | 164 | 1-5%                   | FBFJ750X20L  |              |
|                        | UB    | ⚡                   |         | PU80A          | 84 A              | 0,9   | 0,035                     | 8    | 0,31       | 0,33     | 1,83        | 0,28     | 1,56          | 50  | 164                    | 1-5%         | FBFJ750X09LA |
|                        |       |                     |         |                |                   | 1,2   | 0,047                     | 10   | 0,40       | 0,35     | 1,98        | 0,30     | 1,68          | 50  | 164                    | 1-5%         | FBFJ750X12LA |
|                        |       |                     |         |                |                   | 1,6   | 0,062                     | 15   | 0,60       | 0,47     | 2,64        | 0,40     | 2,24          | 50  | 164                    | 1-5%         | FBFJ750X16LA |
















## TOP SIDE: SPIKES (SP)

| Bottom side            | Color | Additional features | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley ∅ |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |              |
|------------------------|-------|---------------------|---------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|--------------|
|                        |       |                     |         |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |              |
| Diamond (ID)           | UB    | UV MICRO CLEAN      | PU80    | 84 A           | 2,0               | 0,078 | 20                        | 0,80 | 0,53       | 2,96     | 0,45        | 2,52     | 50            | 164 | 1-5%                   | FBFJ750X20LI |              |
| Fabric impression (FI) | UB    |                     | PU80A   | 84 A           | 1,2               | 0,047 | 10                        | 0,40 | 0,29       | 1,65     | 0,25        | 1,40     | 50            | 164 | 1-5%                   | FBFJ750X12LG |              |
|                        |       |                     |         |                | 2,0               | 0,078 | 25                        | 1,00 | 0,53       | 2,96     | 0,45        | 2,52     | 50            | 164 | 1-5%                   | FBFJ750X2LG  |              |
|                        | UB    |                     |         | PU95A          | 95 A              | 2,0   | 0,078                     | 40   | 1,57       | 0,90     | 5,04        | 0,77     | 4,28          | 50  | 164                    | 0,5-3%       | FBFM750X2LA  |
|                        |       |                     |         |                |                   | 2,5   | 0,098                     | 45   | 1,80       | 1,15     | 6,44        | 0,98     | 5,47          | 50  | 164                    | 0,5-3%       | FBFM750X25LD |
|                        |       |                     |         |                |                   | 3,0   | 0,118                     | 55   | 2,20       | 1,40     | 7,84        | 1,19     | 6,66          | 50  | 164                    | 0,5-3%       | FBFM750X3LA  |

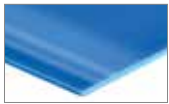




## TOP SIDE: SMOOTH MATT (SM)

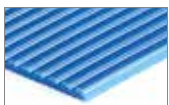
| Bottom side   | Color | Additional features   | Quality        | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|---|-------|---|----------------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|   |       |   |                |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| <br>Diamond (ID)             | UB    |    | PU65A<br>PU75A | 72 A<br>80 A   | 1,8               | 0,070 | 12                        | 0,50 | 0,30       | 1,65     | 0,24        | 1,33     | 50            | 164 | 1-5%                   | FBFGI750X18L |
|   |       |   |                |                | 1,8               | 0,070 | 15                        | 0,60 | 0,35       | 1,93     | 0,29        | 1,64     | 50            | 164 | 1-5%                   | FBFGJ750X18L |
| <br>Fabric impression (FI)   | UB    |    | PU75A          | 80 A           | 1,0               | 0,039 | 10                        | 0,40 | 0,24       | 1,32     | 0,20        | 1,12     | 50            | 164 | 1-5%                   | FBFI750X10LA |
|   |       |   |                |                | 1,6               | 0,062 | 15                        | 0,60 | 0,38       | 2,11     | 0,32        | 1,79     | 50            | 164 | 1-5%                   | FBFI750X16LA |
|   |       |   |                |                | 2,0               | 0,078 | 20                        | 0,80 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164 | 1-5%                   | FBFI750X20LA |
|   |       |   |                |                | 3,0               | 0,118 | 30                        | 1,20 | 0,71       | 3,95     | 0,60        | 3,36     | 50            | 164 | 1-5%                   | FBFI750X30LA |
| <br>Fabric impression (FI) | WE    |  | PU75A          | 80 A           | 1,0               | 0,039 | 10                        | 0,40 | 0,24       | 1,32     | 0,20        | 1,12     | 50            | 164 | 1-5%                   | FBFI750X10WA |
|   |       |   |                |                | 2,0               | 0,078 | 20                        | 0,80 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164 | 1-5%                   | FBFI750X20WA |
| <br>Fabric impression (FI) | UB    |   | PU80A          | 84 A           | 1,0               | 0,039 | 10                        | 0,40 | 0,29       | 1,65     | 0,25        | 1,40     | 50            | 164 | 1-5%                   | FBFJ750X1LD  |
|   |       |   |                |                | 1,6               | 0,062 | 15                        | 0,60 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164 | 1-5%                   | FBFJ750X16LD |
|   |       |   |                |                | 2,0               | 0,078 | 20                        | 0,80 | 0,59       | 3,29     | 0,50        | 2,80     | 50            | 164 | 1-5%                   | FBFJ750X20LD |
| <br>Fabric impression (FI) | CB    |  | PU80A<br>SAFE  | 84 A           | 1,0               | 0,039 | 10                        | 0,40 | 0,34       | 1,89     | 0,29        | 1,61     | 50            | 164 | 1-5%                   | FBFJ750X1LA  |
|   |       |   |                |                | 1,6               | 0,062 | 15                        | 0,60 | 0,54       | 3,03     | 0,46        | 2,58     | 50            | 164 | 1-5%                   | FBFJ750X16LE |
|   |       |   |                |                | 2,0               | 0,078 | 20                        | 0,80 | 0,68       | 3,79     | 0,58        | 3,22     | 50            | 164 | 1-5%                   | FBFJ750X20LE |
|   |       |   |                |                | 3,0               | 0,118 | 30                        | 1,20 | 1,01       | 5,68     | 0,86        | 4,83     | 50            | 164 | 1-5%                   | FBFJ750X30LE |
| <br>Fabric impression (FI) | UB    |  | PU95A          | 95 A           | 1,0               | 0,039 | 18                        | 0,71 | 0,50       | 2,80     | 0,43        | 2,38     | 50            | 164 | 0,5-3%                 | FBFL750X10LA |
|   |       |   |                |                | 1,6               | 0,062 | 25                        | 1,00 | 0,80       | 4,48     | 0,68        | 3,81     | 50            | 164 | 0,5-3%                 | FBFL750X16LA |
|   |       |   |                |                | 2,0               | 0,078 | 35                        | 1,40 | 1,00       | 5,60     | 0,85        | 4,76     | 50            | 164 | 0,5-3%                 | FBFL750X20LA |
|   |       |   |                |                | 3,0               | 0,118 | 50                        | 2,00 | 1,50       | 8,40     | 1,28        | 7,14     | 50            | 164 | 0,5-3%                 | FBFL750X30LA |
|   |       |   |                |                | 4,0               | 0,157 | 75                        | 3,00 | 2,00       | 11,20    | 1,70        | 9,52     | 30            | 100 | 0,5-3%                 | FBFL750X40LA |
| <br>Fabric impression (FI) | WE    |  | PU95A          | 95 A           | 1,6               | 0,062 | 25                        | 1,00 | 0,80       | 4,48     | 0,68        | 3,81     | 50            | 164 | 0,5-3%                 | FBFL750X16WA |
|   |       |   |                |                | 2,0               | 0,078 | 35                        | 1,40 | 1,00       | 5,60     | 0,85        | 4,76     | 50            | 164 | 0,5-3%                 | FBFL750X20WA |
|   |       |   |                |                | 3,0               | 0,118 | 50                        | 2,00 | 1,50       | 8,40     | 1,28        | 7,14     | 50            | 164 | 0,5-3%                 | FBFL750X30WA |

# Elastic conveyor belts up to 750 mm



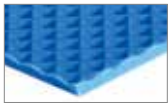
## TOP SIDE: SMOOTH GLOSS (SG)

| Bottom side            | Color | Additional features | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|------------------------|-------|---------------------|---------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|                        |       |                     |         |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| Fabric impression (FI) | UB    |                     | PU65A   | 72 A           | 2,0               | 0,078 | 12                        | 0,50 | 0,24       | 1,32     | 0,20        | 1,12     | 50            | 164 | 1-5%                   | FBFG750X20LA |
|                        |       |                     |         |                | 1,6               | 0,062 | 15                        | 0,60 | 0,38       | 2,11     | 0,32        | 1,79     | 50            | 164 | 1-5%                   | FBFI750X16LD |
|                        |       |                     | PU75A   | 80 A           | 2,0               | 0,078 | 20                        | 0,80 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164 | 1-5%                   | FBFI750X20LB |
|                        |       |                     |         |                | 3,0               | 0,118 | 30                        | 1,18 | 0,71       | 3,95     | 0,60        | 3,36     | 50            | 164 | 1-5%                   | FBFI750X30LG |
| Smooth gloss (SG)      | UB    |                     | PU95A   | 95 A           | 2,0               | 0,078 | 35                        | 1,40 | 1,00       | 5,60     | 0,85        | 4,76     | 50            | 164 | 0,5-3%                 | FBFL750X20LC |
|                        |       |                     |         |                | 3,0               | 0,118 | 50                        | 2,00 | 1,50       | 8,40     | 1,28        | 7,14     | 50            | 164 | 0,5-3%                 | FBFL750X30LC |
| Smooth gloss (SG)      | HI    |                     | PU95A   | 95 A           | 2,0               | 0,078 | 35                        | 1,40 | 1,00       | 5,60     | 0,85        | 4,76     | 50            | 164 | 0,5-3%                 | FBFL750X20LG |
|                        |       |                     |         |                | 3,0               | 0,118 | 50                        | 2,00 | 1,50       | 8,40     | 1,28        | 7,14     | 50            | 164 | 0,5-3%                 | FBFL750X30LG |
| Diamond (ID)           | UB    |                     | PU80A   | 84 A           | 1,8               | 0,070 | 18                        | 0,71 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164 | 1-5%                   | FBFJ750X18LK |
|                        |       |                     |         |                | 2,0               | 0,078 | 20                        | 0,80 | 0,53       | 2,96     | 0,45        | 2,52     | 50            | 164 | 1-5%                   | FBFJ750X2LA  |
| Diamond (ID)           | HI    |                     | PU95A   | 95 A           | 2,0               | 0,078 | 35                        | 1,40 | 0,90       | 5,04     | 0,77        | 4,28     | 50            | 164 | 0,5-3%                 | FBFM750X2LC  |
|                        |       |                     |         |                | 3,0               | 0,118 | 50                        | 2,00 | 1,40       | 7,84     | 1,19        | 6,66     | 50            | 164 | 0,5-3%                 | FBFM750X3LC  |
| Diamond (ID)           | HI    |                     | PU95A   | 95 A           | 2,0               | 0,078 | 35                        | 1,40 | 0,90       | 5,04     | 0,77        | 4,28     | 50            | 164 | 0,5-3%                 | FBFM750X2LD  |
|                        |       |                     |         |                | 3,0               | 0,118 | 50                        | 2,00 | 1,40       | 7,84     | 1,19        | 6,66     | 50            | 164 | 0,5-3%                 | FBFM750X3LD  |
| Slightly rough (SR)    | TR    |                     | PU80A   | 84 A           | 1,6               | 0,062 | 15                        | 0,60 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164 | 1-5%                   | FBFJ750X16T  |



## TOP SIDE: LONGITUDINAL GROOVES (LGB)

| Bottom side            | Color | Additional features | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|------------------------|-------|---------------------|---------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|                        |       |                     |         |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| Fabric impression (FI) | UB    |                     | PU80A   | 84 A           | 1,6               | 0,062 | 15                        | 0,60 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164 | 1-5%                   | FBFJ750X16LK |



## TOP SIDE: INVERTED DIAMOND (ID)

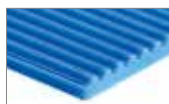
| Bottom side            | Color | Additional features | Quality        | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|------------------------|-------|---------------------|----------------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|                        |       |                     |                |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| Inverted Diamond (ID)  | UB    |                     | PU65A          | 72 A           | 2,2               | 0,086 | 15                        | 0,60 | 0,24       | 1,32     | 0,20        | 1,12     | 50            | 164 | 1-5%                   | FBFGG750X22L |
|                        |       |                     | PU80A          | 84 A           | 2,2               | 0,086 | 22                        | 0,87 | 0,53       | 2,96     | 0,45        | 2,52     | 50            | 164 | 1-5%                   | FBFJ750X22L0 |
|                        |       |                     | PU65A<br>PU80A | 72 A<br>84 A   | 2,2               | 0,086 | 18                        | 0,71 | 0,36       | 1,99     | 0,30        | 1,70     | 50            | 164 | 1-5%                   | FBFJG750X22L |
| Slightly rough (SR)    | UB    |                     | PU80A          | 84 A           | 1,0               | 0,039 | 10                        | 0,40 | 0,24       | 1,32     | 0,20        | 1,12     | 50            | 164 | 1-5%                   | FBFJ750X10LK |
|                        |       |                     |                |                | 1,2               | 0,047 | 12                        | 0,47 | 0,29       | 1,65     | 0,25        | 1,40     | 50            | 164 | 1-5%                   | FBFJ750X12LJ |
|                        |       |                     |                |                | 1,8               | 0,070 | 18                        | 0,71 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164 | 1-5%                   | FBFJ750X18LJ |
| Fabric impression (FI) | CB    |                     | PU80A          | 84 A           | 1,6               | 0,062 | 15                        | 0,60 | 0,54       | 3,03     | 0,46        | 2,58     | 50            | 164 | 1-5%                   | FBFJ750X16LC |
|                        |       |                     |                |                | 1,6               | 0,062 | 15                        | 0,60 | 0,41       | 2,31     | 0,35        | 1,96     | 50            | 164 | 1-5%                   | FBFJ750X16LL |
|                        | UB    |                     | PU80A          | 84 A           | 2,0               | 0,078 | 20                        | 0,80 | 0,53       | 2,96     | 0,45        | 2,52     | 50            | 164 | 1-5%                   | FBFJ750X2LB  |
|                        |       |                     |                |                | 1,6               | 0,062 | 25                        | 1,00 | 0,70       | 3,92     | 0,60        | 3,33     | 50            | 164 | 0,5-3%                 | FBFM750X16LH |
|                        |       |                     |                |                | 2,0               | 0,078 | 35                        | 1,38 | 0,90       | 5,04     | 0,77        | 4,28     | 50            | 164 | 0,5-3%                 | FBFM750X2LH  |
|                        |       |                     |                |                | 2,5               | 0,098 | 40                        | 1,58 | 1,15       | 6,44     | 0,98        | 5,47     | 50            | 164 | 0,5-3%                 | FBFM750X25LH |
| 3,0                    | 0,118 | 50                  | 1,97           | 1,40           | 7,84              | 1,19  | 6,66                      | 50   | 164        | 0,5-3%   | FBFM750X3LH |          |               |     |                        |              |







## TOP SIDE: NUB TOP (NP)

| Bottom side            | Color | Additional features | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|------------------------|-------|---------------------|---------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|                        |       |                     |         |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| Fabric impression (FI) | UB    |                     | PU65A   | 72 A           | 2,0               | 0,078 | 15                        | 0,60 | 0,21       | 1,19     | 0,18        | 1,01     | 50            | 164 | 1-5%                   | FBFG750X2LB  |
|                        |       |                     | PU80A   | 84 A           | 1,6               | 0,062 | 15                        | 0,60 | 0,41       | 2,31     | 0,35        | 1,96     | 50            | 164 | 1-5%                   | FBFJ750X16LF |
|                        |       |                     |         |                | 2,0               | 0,078 | 20                        | 0,80 | 0,53       | 2,96     | 0,45        | 2,52     | 50            | 164 | 1-5%                   | FBFJ750X20LF |

# Elastic conveyor belts up to 750 mm





## TOP SIDE: TRANSVERSAL GROOVES (TGA)

| Bottom side   | Color | Additional features   | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|---|-------|---|---------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|   |       |   |         |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| <br>Diamond (ID)           | UB    |  | PU80    | 84 A           | 2,8               | 0,110 | 25                        | 1,00 | 0,62       | 3,49     | 0,53        | 2,97     | 50            | 164 | 1-5%                   | FBFJ750X28LP |
| <br>Fabric impression (FI) | UB    |  | PU80A   | 84 A           | 2,5               | 0,098 | 20                        | 0,80 | 0,53       | 2,96     | 0,45        | 2,52     | 50            | 164 | 1-5%                   | FBFJ750X25LL |
|   |       |   | PU95A   | 95 A           | 2,5               | 0,098 | 40                        | 1,57 | 0,90       | 5,04     | 0,77        | 4,28     | 50            | 164 | 0,5-3%                 | FBFM750X25LB |
|   |       |   |         |                | 3,5               | 0,137 | 55                        | 2,17 | 1,40       | 7,84     | 1,19        | 6,66     | 50            | 164 | 0,5-3%                 | FBFM750X35LI |



## TOP SIDE: ROUGH IMPRESSION (RI)

| Bottom side   | Color | Additional features   | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|---|-------|---|---------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|   |       |   |         |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| <br>Diamond (ID) | UB    |  | PU75    | 80 A           | 2,0               | 0,078 | 20                        | 0,80 | 0,35       | 1,98     | 0,30        | 1,68     | 50            | 164 | 1-5%                   | FBFI750X20LC |
|   |       |   |         |                | 3,0               | 0,118 | 30                        | 1,20 | 0,59       | 3,29     | 0,50        | 2,80     | 50            | 164 | 1-5%                   | FBFI750X30LC |



## Conveyor belts for intralogistics


Elastic conveyor belts reduce the costs of system design, as tensioning device can often be avoided. Depending on the goods to be conveyed or the type of conveyor (e.g. accumulation mode, inclined conveyor), a wide variety of belt features are required. With BEHAbelt's new 2C process, two different degrees of hardness can be combined in one belt, for example to provide the transport side with more grip for inclined conveyors.

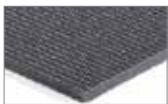


FDA  
EC



### TOP SIDE: SMOOTH MATT (SM)


| Bottom side   | Color | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley $\varnothing$ |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|---|-------|---------|----------------|-------------------|-------|---------------------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|   |       |         |                | mm                | inch  | mm                                    | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| <br>Fabric impression (FI) | SW    | PU75A   | 80 A           | 1,6               | 0,062 | 15                                    | 0,60 | 0,38       | 2,11     | 0,32        | 1,79     | 50            | 164 | 1-5%                   | FBFI750X16SB |

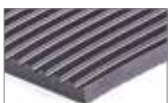


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EC



### TOP SIDE: SLIGHTLY ROUGH (SR)


| Bottom side   | Color | Quality        | Hardness Shore | Profile thickness |              | Recommended Min. pulley $\varnothing$ |       | k1% static |          | k1% relaxed |          | Standard roll |      | Recommended pretension | Order No.    |
|---|-------|----------------|----------------|-------------------|--------------|---------------------------------------|-------|------------|----------|-------------|----------|---------------|------|------------------------|--------------|
|   |       |                |                | mm                | inch         | mm                                    | inch  | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft   |                        |              |
| <br>Fabric impression (FI) | SW    | PU80A          | 84 A           | 1,2               | 0,047        | 10                                    | 0,40  | 0,35       | 1,93     | 0,30        | 1,68     | 50            | 164  | 1-5%                   | FBFJ750X12SB |
|   |       |                |                | 1,6               | 0,062        | 15                                    | 0,60  | 0,46       | 2,58     | 0,40        | 2,24     | 50            | 164  | 1-5%                   | FBFJ750X16SB |
|   | SW    | PU80A<br>PU65A | 84 A<br>72 A   | 2,0               | 0,078        | 18                                    | 0,71  | 0,45       | 2,50     | 0,40        | 2,24     | 50            | 164  | 1-5%                   | FBFJG750X2S  |
|   |       |                |                | PU55D<br>PU65A    | 55 D<br>72 A | 1,9                                   | 0,074 | 25         | 1,0      | 0,75        | 4,15     | 0,60          | 3,33 | 50                     | 164          |



FDA  
EC



### TOP SIDE: LONGITUDINAL GROOVES (LGB)


| Bottom side   | Color | Quality        | Hardness Shore | Profile thickness |       | Recommended Min. pulley $\varnothing$ |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|---|-------|----------------|----------------|-------------------|-------|---------------------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|   |       |                |                | mm                | inch  | mm                                    | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| <br>Fabric impression (FI) | SW    | PU80A<br>PU65A | 84 A<br>72 A   | 2,2               | 0,086 | 18                                    | 0,71 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164 | 1-5%                   | FBFGJ750X22S |



FDA  
EC



### TOP SIDE: ROUGH IMPRESSION (RI)

| Bottom side   | Color | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley $\varnothing$ |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|---|-------|---------|----------------|-------------------|-------|---------------------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|   |       |         |                | mm                | inch  | mm                                    | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| <br>Diamond (ID) | SW    | PU80A   | 84 A           | 2,0               | 0,078 | 20                                    | 0,80 | 0,44       | 2,47     | 0,38        | 2,10     | 50            | 164 | 1-5%                   | FBFJ750X20SJ |

# Machine tapes up to 750 mm



## Machine tapes

BEHAbelt complements its versatile belt portfolio with the addition of elastic machine tapes made of TPU. Machine tapes have already been established on the market for many years and are often offered in green/black or blue/black versions with antistatic properties.

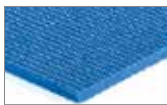
In addition to reinforced belt constructions, elastic versions are also used to adapt to the application requirements.

### INDUSTRIES / APPLICATIONS

- Packaging and weighing technology
- Intralogistics (mainly distribution belts)
- Enveloping and franking systems
- Printing, paper industry
- Textile industry
- Blue types are suitable for direct contact with food
- Alternative for vertical shaft drives

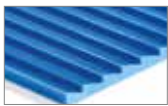
### ADVANTAGES / FEATURES

- Consistent longitudinal flexibility (due to homogeneous belt connection without gluing, design as transverse splice possible)
- Reduced energy consumption due to high longitudinal flexibility and thus also gentle motor and shaft loads
- Excellent bending properties and thus ideally suited for small pulley diameters
- High abrasion resistance and generally good chemical resistance
- Continuous antistatic belt designs offer dissipation properties for antistatic charges on the upper and lower side of the belt.





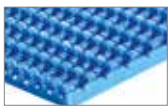
### TOP SIDE: SLIGHTLY ROUGH (SR)

| Bottom side            | Color          | Additional features | Quality        | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø |      | k1% static |          | k1% relaxed |          | Standard roll |              | Recommended pretension | Order No.    |
|------------------------|----------------|---------------------|----------------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|--------------|------------------------|--------------|
|                        |                |                     |                |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft           |                        |              |
| Fabric impression (FI) | UB             |                     | PU80A          | 84 A           | 1,0               | 0,039 | 10                        | 0,40 | 0,29       | 1,65     | 0,25        | 1,40     | 50            | 164          | 1-5%                   | FBFJ750X10L  |
|                        |                |                     |                |                | 1,2               | 0,047 | 10                        | 0,40 | 0,35       | 1,98     | 0,30        | 1,68     | 50            | 164          | 1-5%                   | FBFJ750X12L  |
|                        |                |                     |                |                | 1,6               | 0,062 | 15                        | 0,60 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164          | 1-5%                   | FBFJ750X16L  |
|                        |                |                     |                |                | 2,0               | 0,078 | 20                        | 0,80 | 0,59       | 3,29     | 0,50        | 2,80     | 50            | 164          | 1-5%                   | FBFJ750X20L  |
| Fabric impression (FI) | SW             | 2C                  | PU80A<br>PU65A | 84 A<br>72 A   | 1,8               | 0,070 | 15                        | 0,60 | 0,40       | 2,24     | 0,35        | 1,94     | 50            | 164          | 1-5%                   | FBFJG750X18L |
|                        |                |                     |                |                | 0,9               | 0,035 | 8                         | 0,31 | 0,33       | 1,83     | 0,28        | 1,56     | 50            | 164          | 1-5%                   | FBFJ750X09LA |
|                        |                | ⚡                   | PU80A          | 84 A           | 1,2               | 0,047 | 10                        | 0,40 | 0,35       | 1,98     | 0,30        | 1,68     | 50            | 164          | 1-5%                   | FBFJ750X12LA |
|                        |                |                     |                |                | 1,6               | 0,062 | 15                        | 0,60 | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164          | 1-5%                   | FBFJ750X16LA |
|                        |                | ⚡                   | PU55D          | 55 D           | 1,1               | 0,039 | 15                        | 0,60 | 0,65       | 3,60     | 0,50        | 2,78     | 50            | 164          | 0,5-3%                 | FBFN750X11L  |
|                        |                |                     |                |                | 1,5               | 0,059 | 25                        | 1,0  | 0,80       | 4,40     | 0,65        | 3,60     | 50            | 164          | 0,5-3%                 | FBFN750X15L  |
|                        |                | 2C                  | PU55D<br>PU65A | 55 D<br>72 A   | 1,9               | 0,074 | 25                        | 1,0  | 0,75       | 4,15     | 0,60        | 3,33     | 50            | 164          | 0,5-3%                 | FBFNG750X19L |
|                        |                |                     |                |                | ⚡                 | PU80A | 84 A                      | 1,2  | 0,047      | 10       | 0,40        | 0,35     | 1,93          | 0,30         | 1,68                   | 50           |
|                        |                | 1,6                 | 0,062          | 15             |                   |       |                           | 0,60 | 0,46       | 2,58     | 0,40        | 2,24     | 50            | 164          | 1-5%                   | FBFJ750X16SB |
|                        |                | ⚡                   | PU80A<br>PU65A | 84 A<br>72 A   | 2,0               | 0,078 | 15                        | 0,60 | 0,45       | 2,50     | 0,40        | 2,24     | 50            | 164          | 1-5%                   | FBFJG750X2S  |
| ⚡                      | PU55D          |                     |                |                | 55 D              | 1,1   | 0,039                     | 15   | 0,60       | 0,65     | 3,60        | 0,50     | 2,78          | 50           | 164                    | 0,5-3%       |
|                        |                | 1,5                 | 0,059          | 25             |                   | 1,0   | 0,80                      | 4,40 | 0,65       | 3,60     | 50          | 164      | 0,5-3%        | FBFN750X15S  |                        |              |
| ⚡                      | PU55D<br>PU65A | 55 D<br>72 A        | 1,9            | 0,074          | 25                | 1,0   | 0,75                      | 4,15 | 0,60       | 3,33     | 50          | 164      | 0,5-3%        | FBFNG750X19S |                        |              |





**TOP SIDE: SAWTOOTH (EST) // 360 mm**

| Bottom side  | Color | Additional features   | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø |      | k1% static |          | k1% relaxed |          | Standard roll |    | Recommended pretension | Order No.    |
|--|-------|---|---------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|----|------------------------|--------------|
|  |       |   |         |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft |                        |              |
| <br>Slightly rough (SR) | UB    |  | PU75A   | 80 A           | 3,0               | 0,118 | 30                        | 1,00 | 0,24       | 1,32     | 0,20        | 1,12     | 25            | 82 | 1-5%                   | FBFI360X30LB |
|  |       |   |         |                | 4,0               | 0,157 | 40                        | 1,40 | 0,47       | 2,64     | 0,40        | 2,24     | 25            | 82 | 1-5%                   | FBFI360X40LB |










**TOP SIDE: SUPERGRIP (ESG) // 360 mm**

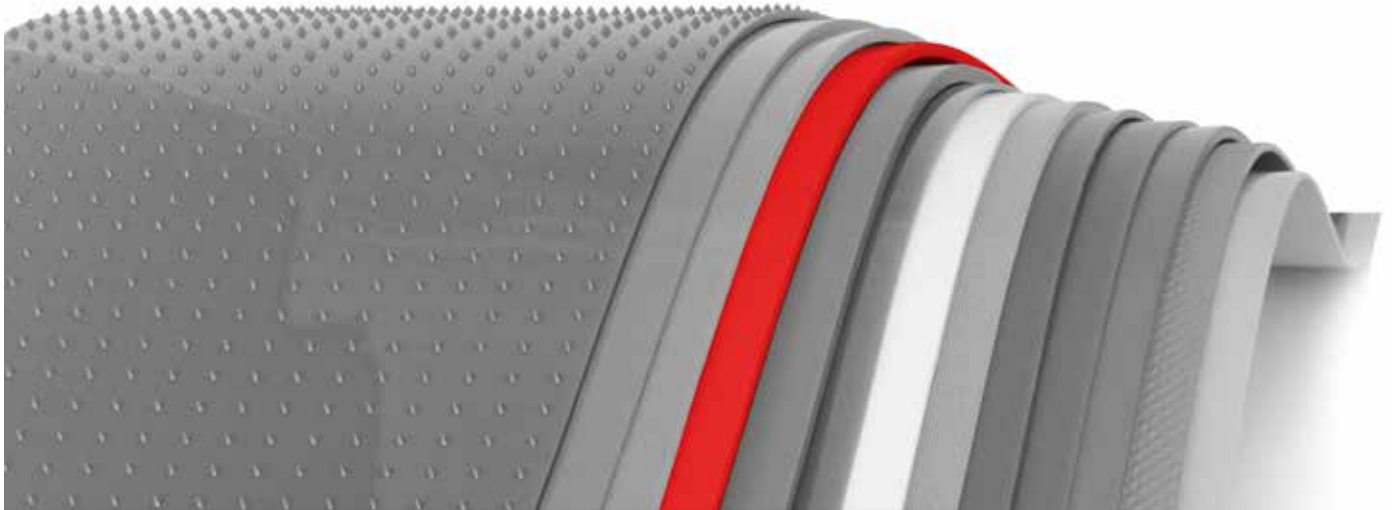
| Bottom side  | Color | Additional features   | Quality | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø |      | k1% static |          | k1% relaxed |          | Standard roll |    | Recommended pretension | Order No.    |
|--|-------|---|---------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|----|------------------------|--------------|
|  |       |   |         |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft |                        |              |
| <br>Slightly rough (SR) | UB    |  | PU75A   | 80 A           | 4,0               | 0,157 | 40                        | 1,40 | 0,47       | 2,64     | 0,40        | 2,24     | 25            | 82 | 1-5%                   | FBFI360X40LA |



**TOP SIDE: SMOOTH GLOSS (SG) // 140 mm**

| Bottom side  | Color | Additional features   | Quality    | Hardness Shore | Profile thickness |       | Recommended Min. pulley Ø |      | k1% static |          | k1% relaxed |          | Standard roll |     | Recommended pretension | Order No.    |
|--|-------|---|------------|----------------|-------------------|-------|---------------------------|------|------------|----------|-------------|----------|---------------|-----|------------------------|--------------|
|  |       |   |            |                | mm                | inch  | mm                        | inch | N/mm       | lbs/inch | N/mm        | lbs/inch | m             | ft  |                        |              |
| <br>Smooth gloss (SG) | HI    |  | PU75A      | 80 A           | 1,0               | 0,039 | 10                        | 0,4  | 0,24       | 1,32     | 0,20        | 1,12     | 50            | 164 | 1-5%                   | FBFI150X1LG  |
|  |       |   |            |                | 1,6               | 0,062 | 15                        | 0,6  | 0,38       | 2,11     | 0,32        | 1,79     | 50            | 164 | 1-5%                   | FBFI150X16LG |
|  |       |   |            |                | 2,0               | 0,078 | 20                        | 0,8  | 0,47       | 2,64     | 0,40        | 2,24     | 50            | 164 | 1-5%                   | FBFI150X2LG  |
|  |       |   |            |                | 3,0               | 0,118 | 25                        | 1,0  | 0,71       | 3,95     | 0,60        | 3,36     | 50            | 164 | 1-5%                   | FBFI150X3LG  |
|  |       |   |            |                | 4,0               | 0,157 | 35                        | 1,4  | 0,94       | 5,27     | 0,80        | 4,48     | 50            | 164 | 1-5%                   | FBFI150X4LG  |
| <br>Smooth gloss (SG) | UB    |  | PU80A SAFE | 84 A           | 2,0               | 0,078 | 20                        | 0,8  | 0,68       | 3,79     | 0,58        | 3,22     | 50            | 164 | 1-5%                   | FBFJ150X2LGM |
|  |       |   |            |                | 3,0               | 0,118 | 30                        | 1,2  | 1,01       | 5,68     | 0,86        | 4,83     | 50            | 164 | 1-5%                   | FBFJ150X3LGM |
| <br>Smooth gloss (SG) | OR    |  | PU80A      | 84 A           | 1,6               | 0,062 | 15                        | 0,6  | 0,47       | 2,64     | 0,40        | 2,24     | 30            | 100 | 1-5%                   | FBFJ150X160G |
|  |       |   |            |                | 2,4               | 0,094 | 25                        | 1,0  | 0,71       | 3,95     | 0,60        | 3,36     | 30            | 100 | 1-5%                   | FBFJ150X240G |
|  |       |   |            |                | 3,2               | 0,125 | 30                        | 1,2  | 0,94       | 5,27     | 0,80        | 4,48     | 30            | 100 | 1-5%                   | FBFJ150X320G |
| <br>Smooth gloss (SG) | GR    |   | PU85A      | 88 A           | 1,0               | 0,039 | 15                        | 0,6  | 0,35       | 1,98     | 0,30        | 1,68     | 50            | 164 | 1-5%                   | FBFK150X1GG  |
|  |       |   |            |                | 1,6               | 0,062 | 20                        | 0,8  | 0,56       | 3,16     | 0,48        | 2,69     | 50            | 164 | 1-5%                   | FBFK150X16GG |
|  |       |   |            |                | 2,0               | 0,078 | 30                        | 1,2  | 0,71       | 3,95     | 0,60        | 3,36     | 50            | 164 | 1-5%                   | FBFK150X2GG  |
|  |       |   |            |                | 3,0               | 0,118 | 35                        | 1,4  | 1,06       | 5,93     | 0,90        | 5,04     | 50            | 164 | 1-5%                   | FBFK150X3GG  |
|  |       |   |            |                | 4,0               | 0,157 | 45                        | 1,8  | 1,41       | 7,91     | 1,20        | 6,72     | 50            | 164 | 1-5%                   | FBFK150X4GG  |

# Didn't find your belt?



**no minimum order quantities**

**according to your specifications**

**in only 4-8 weeks**

## **BEHAbelt offers you the exclusive and fast realisation of your desired conveyor belt!**

If a standard belt does not meet the requirements of your application, BEHAbelt offers you the unique opportunity to develop a customer-specific product. According to your specifications and your design!

### **Tell us your application!**

We will be happy to evaluate the possibilities for optimising your application with regards to conveyor belt design. In particular, the 2-component production enables a multitude of combinations of structures, hardnesses, belt properties and colours.

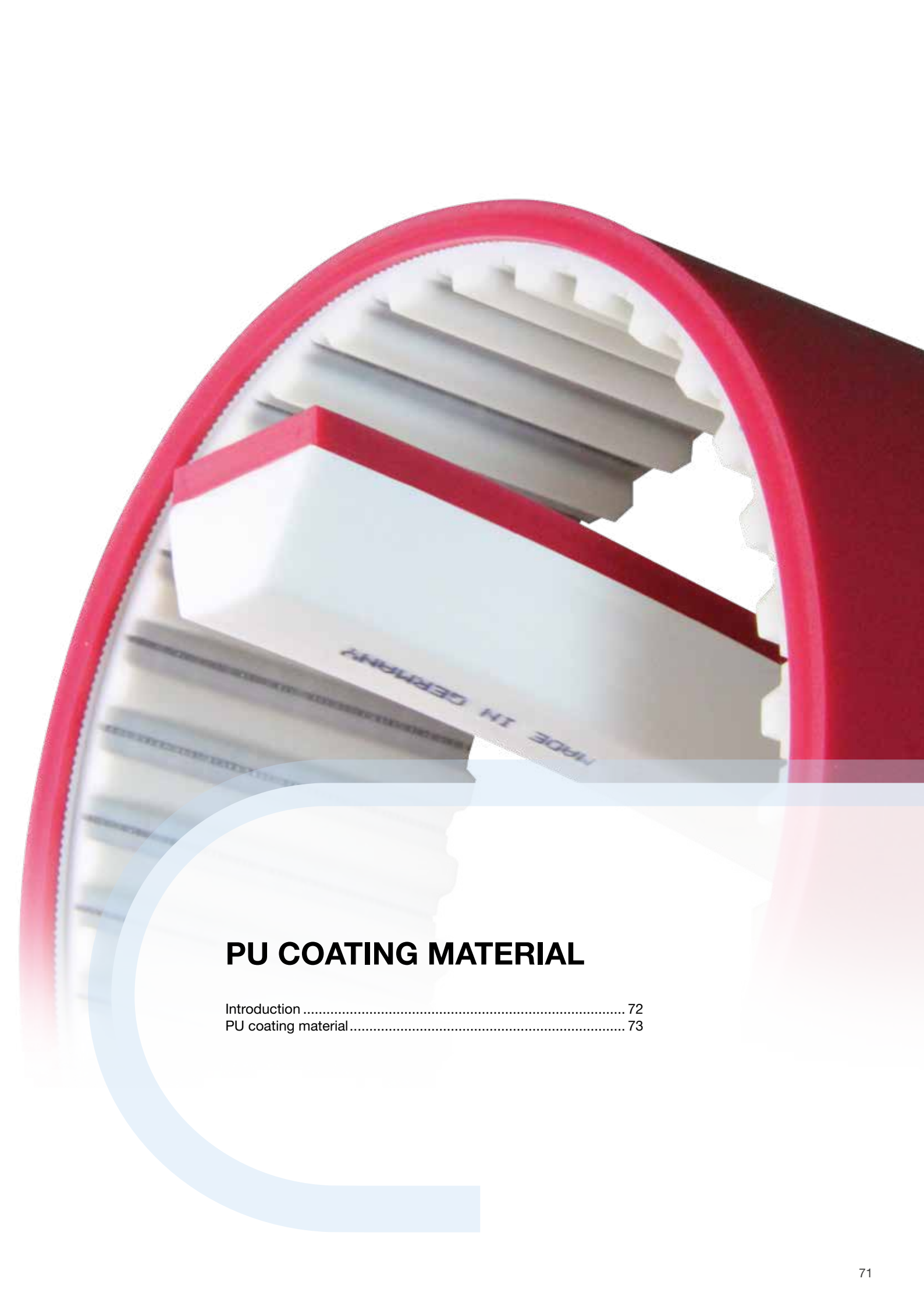
#### **FAST REALISATION (4-8 WEEKS)**

- Many years of experience, in-house manufacturing of tooling, individual consulting
- Development of customer-specific conveyor belts
- Specially adapted to your application
- Especially according to your design

#### **ECONOMIC ADVANTAGES**

- Exclusivity / securing the After Sales Market
- Material combination
- Optimisation of your application through the perfect belt
- Improved service life and functionality
- Appropriate welding technology





## **PU COATING MATERIAL**

|                           |    |
|---------------------------|----|
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| PU coating material ..... | 73 |

## PU coating material

Our product group of PU coating materials is based on the careful selection of high-quality raw materials, which have been successfully tested and used in the field for a long time. We supply coating material in rolls from 140 - 750 mm with a coating thickness of 1 - 4 mm and an available hardness range from Shore 45A to 95A for your individual application.

The extensive portfolio offers you a multitude of application optimizations and processing advantages compared to conventional coating materials such as rubber or PVC. PU coatings are the optimal combination to create high-quality and robust products, especially in connections with PU base belts; a product from a single casting.

### Optimization of your application

Below you will find an overview of optimization potentials that can be achieved through coatings. We would be pleased to advise you comprehensively.

- High abrasion resistance
- Improved flexural fatigue strength
- Optimum shock absorption
- Better adhesion of the coating on the base belt (coating detachment)
- Very good grip
- Optimisation of dust operation
- Variety of surface structures for optimum contact conditions and release requirements
- Excellent chemical resistance

### Selectable special features

Food industry, logistics industry etc.; the requirements could not be more varied. Within our manufacturing process we can easily realize special properties for the coatings.



Antistatic design



Resistant to hydrolysis and cleaning



FDA/EC conformity for food industry

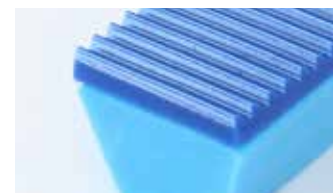


Metal and X-ray detectable

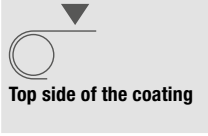














### Fabrication benefits

- Uniform stable melting phase
- Very good weldability with all PU types
- Direct processing on the PU base belt without adhesive
- Homogeneous connection with the PU base belt
- Weldable coating joint
- Good further mechanical processing possible








**PU COATING MATERIAL // 140 mm**

| <br>Top side of the coating | Color   | Features   | Quality | Hardness | Profile thickness |       | Weight per m <sup>2</sup> | max. belt width |      | Impact on min. pulley $\varnothing$ |      | Standard roll |              | Order No.    |
|--|---|--|---------|----------|-------------------|-------|---------------------------|-----------------|------|-------------------------------------|------|---------------|--------------|--------------|
|  |   |  |         | Shore    | mm                | inch  | approx. kg                | mm              | inch | mm                                  | inch | m             | ft           |              |
| <br>Smooth gloss (SG)       | TR  |  PU Grip  | PU40A   | 45 A     | 2,0               | 0,078 | 2,4                       | 140             | 5,5  | +10                                 | +0,4 | 50            | 164          | FBFD140X2TG  |
|  |   |  |         |          | 3,0               | 0,118 | 3,6                       | 140             | 5,5  | +15                                 | +0,6 | 50            | 164          | FBFD140X3TG  |
|  |   |  |         |          | 4,0               | 0,157 | 4,8                       | 140             | 5,5  | +20                                 | +0,8 | 50            | 164          | FBFD140X4TG  |
|  | TR  |  PU Grip  | PU60A   | 65 A     | 1,6               | 0,062 | 1,9                       | 140             | 5,5  | +10                                 | +0,4 | 50            | 164          | FBFF150X16TG |
|  |   |  |         |          | 2,0               | 0,078 | 2,4                       | 140             | 5,5  | +15                                 | +0,6 | 50            | 164          | FBFF150X2TG  |
|  |   |  |         |          | 3,0               | 0,118 | 3,6                       | 140             | 5,5  | +20                                 | +0,8 | 50            | 164          | FBFF150X3TG  |
|  |   |  |         |          | 4,0               | 0,157 | 4,8                       | 140             | 5,5  | +25                                 | +1,0 | 50            | 164          | FBFF150X4TG  |
|  | TR  |  PU65A   | PU65A   | 72 A     | 1,0               | 0,039 | 1,2                       | 140             | 5,5  | +10                                 | +0,4 | 50            | 164          | FBFG150X1TG  |
|  |   |  |         |          | 1,6               | 0,062 | 1,9                       | 140             | 5,5  | +12                                 | +0,5 | 50            | 164          | FBFG150X16TG |
|  |   |  |         |          | 2,0               | 0,078 | 2,4                       | 140             | 5,5  | +15                                 | +0,7 | 50            | 164          | FBFG150X2TG  |
|  |   |  |         |          | 3,0               | 0,118 | 3,6                       | 140             | 5,5  | +25                                 | +1,0 | 50            | 164          | FBFG150X3TG  |
|  |   |  |         |          | 4,0               | 0,157 | 4,8                       | 140             | 5,5  | +35                                 | +1,4 | 50            | 164          | FBFG150X4TG  |
| TR   |  PU75A | PU75A  | 80 A    | 1,0      | 0,039             | 1,2   | 140                       | 5,5             | +10  | +0,5                                | 50   | 164           | FBFI150X1TG  |              |
|  |   |  |         | 1,6      | 0,062             | 1,9   | 140                       | 5,5             | +15  | +0,6                                | 50   | 164           | FBFI150X16TG |              |
|  |   |  |         | 2,0      | 0,078             | 2,4   | 140                       | 5,5             | +20  | +0,8                                | 50   | 164           | FBFI150X2TG  |              |
|  |   |  |         | 3,0      | 0,118             | 3,6   | 140                       | 5,5             | +30  | +1,2                                | 50   | 164           | FBFI150X3TG  |              |
|  |   |  |         | 4,0      | 0,157             | 4,8   | 140                       | 5,5             | +40  | +1,6                                | 50   | 164           | FBFI150X4TG  |              |
| TR   |  PU85A | PU85A  | 88 A    | 1,0      | 0,039             | 1,2   | 140                       | 5,5             | +15  | +0,6                                | 50   | 164           | FBFK150X1TG  |              |
|  |   |  |         | 1,6      | 0,062             | 1,9   | 140                       | 5,5             | +20  | +0,8                                | 50   | 164           | FBFK150X16TG |              |
|  |   |  |         | 2,0      | 0,078             | 2,4   | 140                       | 5,5             | +25  | +1,0                                | 50   | 164           | FBFK150X2TG  |              |
|  |   |  |         | 3,0      | 0,118             | 3,6   | 140                       | 5,5             | +35  | +1,4                                | 50   | 164           | FBFK150X3TG  |              |
|  |   |  |         | 4,0      | 0,157             | 4,8   | 140                       | 5,5             | +45  | +1,8                                | 50   | 164           | FBFK150X4TG  |              |
| <br>PUtex / smooth (S)    | RO  |  PU tex | PU60A   | 65 A     | 1,6               | 0,062 | 1,9                       | 140             | 5,5  | +10                                 | +0,4 | 50            | 164          | FBFF150X16BM |
|  |   |  |         |          | 2,0               | 0,078 | 2,4                       | 140             | 5,5  | +15                                 | +0,6 | 50            | 164          | FBFF150X2BM  |
|  |   |  |         |          | 3,0               | 0,118 | 3,6                       | 140             | 5,5  | +20                                 | +0,8 | 50            | 164          | FBFF150X3BM  |
|  |   |  |         |          | 4,0               | 0,157 | 4,8                       | 140             | 5,5  | +25                                 | +1,0 | 50            | 164          | FBFF150X4BM  |
| <br>Longitudinal (LGA)    | TR  |  PU65A  | PU65A   | 72 A     | 2,6               | 0,102 | 2,5                       | 140             | 5,5  | +22                                 | +0,9 | 50            | 164          | FBFG150X26TW |
|  |   |  |         |          | 3,0               | 0,118 | 3,0                       | 140             | 5,5  | +25                                 | +1,0 | 50            | 164          | FBFG150X3TW  |
| <br>Longitudinal (LGC)    | WE  |  PU80A  | PU80A   | 84 A     | 3,0               | 0,118 | 2,4                       | 140             | 5,5  | +30                                 | +1,2 | 50            | 164          | FBFJ140X3WG  |








\* Limited suitability EC

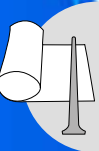
# PU coating material up to 360 mm and 750 mm

## PU COATING MATERIAL // 360 mm

| <br>Top side of the coating | Color | Features  | Quality | Hardness<br>Shore | Profile thickness |       | Weight per m <sup>2</sup><br>approx. kg | max. belt width |      | Impact on min. pulley $\varnothing$ |      | Standard roll |    | Order No.    |
|--|-------|---|---------|-------------------|-------------------|-------|---|-----------------|------|-------------------------------------|------|---------------|----|--------------|
|  |       |   |         |                   | mm                | inch  |   | mm              | inch | mm                                  | inch | m             | ft |              |
| <br>Supergrip (ESG)         | UB    |  | PU75A   | 80 A              | 4,0               | 0,157 | 3,6                                     | 360             | 14,0 | +40                                 | +1,6 | 25            | 82 | FBFI360X40LA |
| <br>Sawtooth (EST)          | UB    |  | PU75A   | 80 A              | 3,0               | 0,118 | 2,4                                     | 360             | 14,0 | +30                                 | +1,2 | 25            | 82 | FBFI360X30LB |
|  |       |   |         |                   | 4,0               | 0,157 | 3,6                                     | 360             | 14,0 | +40                                 | +1,6 | 25            | 82 | FBFI360X40LB |

## PU COATING MATERIAL // 750 mm

| <br>Top side of the coating | Color | Features  | Quality       | Hardness<br>Shore | Profile thickness |       | Weight per m <sup>2</sup><br>approx. kg | max. belt width |      | Impact on min. pulley $\varnothing$ |      | Standard roll |     | Order No.    |
|--|-------|---|---------------|-------------------|-------------------|-------|---|-----------------|------|-------------------------------------|------|---------------|-----|--------------|
|  |       |   |               |                   | mm                | inch  |   | mm              | inch | mm                                  | inch | m             | ft  |              |
| <br>Nub top (NP)          | UB    |  | PU65A         | 72 A              | 2,0               | 0,078 | 2,4                                     | 750             | 29,5 | +15                                 | +0,6 | 50            | 164 | FBFG750X2LB  |
| <br>Rough impression (RI) | UB    |  | PU65A         | 72 A              | 2,0               | 0,078 | 2,4                                     | 750             | 29,5 | +15                                 | +0,6 | 50            | 164 | FBFG750X20LB |
|  |       |   |               |                   | 3,0               | 0,118 | 3,6                                     | 750             | 29,5 | +25                                 | +1,0 | 50            | 164 | FBFG750X30LA |
| <br>Smooth gloss (SG)     | UB    |  | PU75A         | 80 A              | 4,0               | 0,157 | 4,8                                     | 750             | 29,5 | +40                                 | +1,6 | 50            | 164 | FBFI750X40LC |
| <br>Spikes (SP)           | UB    |  | PU80A         | 84 A              | 1,2               | 0,047 | 1,5                                     | 750             | 29,5 | +10                                 | +0,4 | 50            | 164 | FBFJ750X12LG |
| <br>Transversal (TGA)     | UB    |  | PU80A         | 84 A              | 2,5               | 0,098 | 2,4                                     | 750             | 29,5 | +20                                 | +0,8 | 50            | 164 | FBFJ750X25LL |
| <br>Longitudinal (LGB)    | UB    |  | PU80A         | 84 A              | 1,6               | 0,062 | 1,9                                     | 750             | 29,5 | +15                                 | +0,6 | 50            | 164 | FBFJ750X16LK |
| <br>Slightly rough (SR)   | UB    |  | PU80A         | 84 A              | 1,2               | 0,047 | 1,4                                     | 750             | 29,5 | +10                                 | +0,4 | 50            | 164 | FBFJ750X12L  |
| <br>Diamond (ID)          | UB    |  | PU80A         | 84 A              | 1,6               | 0,062 | 1,9                                     | 750             | 29,5 | +15                                 | +0,6 | 50            | 164 | FBFJ750X16LL |
| <br>Smooth matt (SM)      | CB    |  | PU80A<br>SAFE | 84 A              | 1,6               | 0,062 | 2,2                                     | 750             | 29,5 | +15                                 | +0,6 | 50            | 164 | FBFJ750X16LE |
|  | UB    |  | PU95A         | 95 A              | 1,6               | 0,062 | 1,9                                     | 750             | 29,5 | +25                                 | +1,0 | 50            | 164 | FBFL750X16LA |



## WELDABLE ACCESSORIES FOR CONVEYOR BELTS

|                                   |    |
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| Sidewalls .....                   | 84 |
| PU sheet material .....           | 86 |

## Weldable accessories for conveyor belts

There is a wide field of applications for synthetic conveyor belts. Depending on the industry, the products to be conveyed and the given machinery design, conveyor belts not only have to be fabricated to specific dimensions (length and width), often they are also equipped with cleats, sidewalls or tracking elements. BEHAbelt offers a wide range of flat belt accessories, homogeneously extruded from PU in different Shore hardness grades.

Our flat belt accessories consist of the same raw materials as the conveyor belts to ensure the best possible weldability and a long service life in the application.

Of course, the BEHAbelt flat belt accessories are also available with FDA/EC/USDA compliance on request and can further be offered with special features such as detectable, UV-C resistance or hydrolysis resistance.



### Notched V-guides or guide profiles

- Frequently used as guiding profile on the running side to support the tracking of e.g. long and/or narrow conveyor belts, also to absorb transversal forces during lateral product feeding.
- Can be applied on the conveying side instead of corrugated sidewalls.
- Many versions available.



### Belt edges

- For the stabilisation and guidance of curved belts. Belt edges are usually applied by sewing or glued.
- Many versions available.
- Customer-specific special profiles possible.



### Cleats / PU sheet material

- For carrying single or bulk goods on inclined conveyors.
- 3 versions available
  - flat foot
  - narrow foot
  - Sheet material (up to 8mm thick) without foot



### Corrugated sidewalls

- Usually in combination with cleats on inclined or declined conveyor belts to prevent products from dropping sideways.
- 2 versions available
  - with foot
  - PUflex flat stock material without foot



## V-guides / Guiding profiles

- All profiles are made from PU and can be supplied in various colours upon request.
- Approved for use in food contact applications according to FDA/EC (PU70A).
- **Excellent adhesion with PU belts** by means of hot air or high frequency welding.

### PU60A transparent V-guide smooth

BEST SUITABLE FOR BELT QUALITY **PU80A**



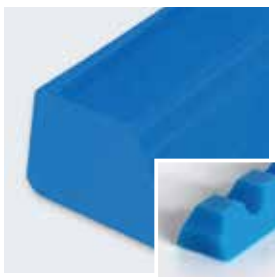
| Order No. |             | Profile dimension | Standard Roll |     | Recommended Min. pulley $\varnothing$ |           |      |         |
|-----------|-------------|-------------------|---------------|-----|---------------------------------------|-----------|------|---------|
| unnotched | notched     |                   | mm            | m   | ft                                    | unnotched |      | notched |
|           |             |                   |               |     | mm                                    | inch      | mm   | inch    |
| FBKF6YTG  | FBKF6YTG D  | 6 x 4 (Y)         | 150           | 492 | 25,0                                  | 1,0       | 20,0 | 0,8     |
| FBKF8MTG  | FBKF8MTG D  | 8 x 5 (M)         | 150           | 492 | 30,0                                  | 1,2       | 25,0 | 1,0     |
| FBKF10ZTG | FBKF10ZTG D | 10 x 6 (Z)        | 150           | 492 | 40,0                                  | 1,6       | 30,0 | 1,2     |
| FBKF13ATG | FBKF13ATG D | 13 x 8 (A)        | 150           | 492 | 60,0                                  | 2,4       | 45,0 | 1,8     |
| FBKF17BTG | FBKF17BTG D | 17 x 11 (B)       | 100           | 328 | 80,0                                  | 3,2       | 60,0 | 2,4     |
| FBKF22CTG | FBKF22CTG D | 22 x 14 (C)       | 50            | 164 | 110,0                                 | 4,4       | 85,0 | 3,3     |

approx. 65° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,85 | PE: approx. 0,50 | HDPE: approx. 0,45

### PU60A sky blue V-guide smooth

BEST SUITABLE FOR BELT QUALITY **PU80A**



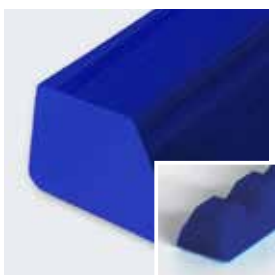
| Order No. |             | Profile dimension | Standard Roll |     | Recommended Min. pulley $\varnothing$ |           |      |         |
|-----------|-------------|-------------------|---------------|-----|---------------------------------------|-----------|------|---------|
| unnotched | notched     |                   | mm            | m   | ft                                    | unnotched |      | notched |
|           |             |                   |               |     | mm                                    | inch      | mm   | inch    |
| FBKF6YLG  | FBKF6YLG D  | 6 x 4 (Y)         | 150           | 492 | 25,0                                  | 1,0       | 20,0 | 0,8     |
| FBKF8MLG  | FBKF8MLG D  | 8 x 5 (M)         | 150           | 492 | 30,0                                  | 1,2       | 25,0 | 1,0     |
| FBKF10ZLG | FBKF10ZLG D | 10 x 6 (Z)        | 150           | 492 | 40,0                                  | 1,6       | 30,0 | 1,2     |
| FBKF13ALG | FBKF13ALG D | 13 x 8 (A)        | 150           | 492 | 60,0                                  | 2,4       | 45,0 | 1,8     |
| FBKF17BLG | FBKF17BLG D | 17 x 11 (B)       | 100           | 328 | 80,0                                  | 3,2       | 60,0 | 2,4     |
| FBKF22CLG | FBKF22CLG D | 22 x 14 (C)       | 50            | 164 | 110,0                                 | 4,4       | 85,0 | 3,3     |

approx. 65° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,85 | PE: approx. 0,50 | HDPE: approx. 0,45

### PU60A ultramarine blue V-guide smooth

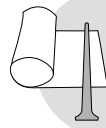
BEST SUITABLE FOR BELT QUALITY **PU80A**



| Order No.  |            | Profile dimension | Standard Roll |     | Recommended Min. pulley $\varnothing$ |           |      |         |
|------------|------------|-------------------|---------------|-----|---------------------------------------|-----------|------|---------|
| unnotched  | notched    |                   | mm            | m   | ft                                    | unnotched |      | notched |
|            |            |                   |               |     | mm                                    | inch      | mm   | inch    |
| FBKF6YLGE  | FBKF6YLGF  | 6 x 4 (Y)         | 150           | 492 | 25,0                                  | 1,0       | 20,0 | 0,8     |
| FBKF8MLGE  | FBKF8MLGF  | 8 x 5 (M)         | 150           | 492 | 30,0                                  | 1,2       | 25,0 | 1,0     |
| FBKF10ZLGE | FBKF10ZLGF | 10 x 6 (Z)        | 150           | 492 | 40,0                                  | 1,6       | 30,0 | 1,2     |
| FBKF13ALGE | FBKF13ALGF | 13 x 8 (A)        | 150           | 492 | 60,0                                  | 2,4       | 45,0 | 1,8     |
| FBKF17BLGE | FBKF17BLGF | 17 x 11 (B)       | 100           | 328 | 80,0                                  | 3,2       | 60,0 | 2,4     |
| FBKF22CLGE | FBKF22CLGF | 22 x 14 (C)       | 50            | 164 | 110,0                                 | 4,4       | 85,0 | 3,3     |

approx. 65° Shore A

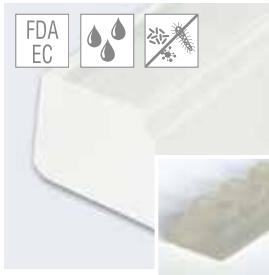
Coeff. of friction  $\mu$ : Steel: approx. 0,85 | PE: approx. 0,50 | HDPE: approx. 0,45



## PU65A transparent V-guide smooth

BEST SUITABLE FOR BELT QUALITY

PU75A/PU95A



| Order No. |            | Profile dimension<br>mm | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      |         |      |
|-----------|------------|-------------------------|---------------|-----|---------------------------------------|------|---------|------|
| unnotched | notched    |                         | m             | ft  | unnotched                             |      | notched |      |
|           |            |                         |               |     | mm                                    | inch | mm      | inch |
| FBKG5X3TG | –          | 5 x 3                   | 150           | 492 | 20                                    | 0,8  | –       | –    |
| FBKG6YTG  | FBKG6YTGA  | 6 x 4 (Y)               | 150           | 492 | 30                                    | 1,2  | 25      | 1,0  |
| FBKG8MTG  | FBKG8MTGA  | 8 x 5 (M)               | 150           | 492 | 35                                    | 1,4  | 28      | 1,1  |
| FBKG10ZTG | FBKG10ZTGA | 10 x 6 (Z)              | 150           | 492 | 40                                    | 1,6  | 30      | 1,2  |
| FBKG13ATG | FBKG13ATGA | 13 x 8 (A)              | 150           | 492 | 65                                    | 2,6  | 40      | 1,6  |
| FBKG17BTG | FBKG17BTGA | 17 x 11 (B)             | 100           | 328 | 85                                    | 3,4  | 55      | 2,2  |
| FBKG22CTG | FBKG22CTGA | 22 x 14 (C)             | 50            | 164 | 120                                   | 4,0  | 90      | 3,5  |

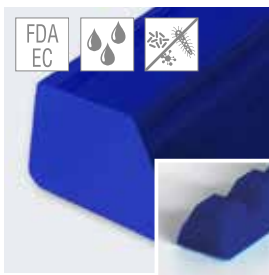
approx. 72° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,80 | PE: approx. 0,45 | HDPE: approx. 0,40 | FDA/EC/USDA compliant

## PU65A ultramarine blue V-guide smooth

BEST SUITABLE FOR BELT QUALITY

PU75A/PU95A



| Order No. |            | Profile dimension<br>mm | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      |         |      |
|-----------|------------|-------------------------|---------------|-----|---------------------------------------|------|---------|------|
| unnotched | notched    |                         | m             | ft  | unnotched                             |      | notched |      |
|           |            |                         |               |     | mm                                    | inch | mm      | inch |
| FBKG5X3LG | –          | 5 x 3                   | 150           | 492 | 20                                    | 0,8  | –       | –    |
| FBKG6YLG  | FBKG6YLGA  | 6 x 4 (Y)               | 150           | 492 | 30                                    | 1,2  | 25      | 1,0  |
| FBKG8MLG  | FBKG8MLGA  | 8 x 5 (M)               | 150           | 492 | 35                                    | 1,4  | 28      | 1,1  |
| FBKG10ZLG | FBKG10ZLGA | 10 x 6 (Z)              | 150           | 492 | 40                                    | 1,6  | 30      | 1,2  |
| FBKG13ALG | FBKG13ALGA | 13 x 8 (A)              | 150           | 492 | 65                                    | 2,6  | 40      | 1,6  |
| FBKG17BLG | FBKG17BLGA | 17 x 11 (B)             | 100           | 328 | 85                                    | 3,4  | 55      | 2,2  |
| FBKG22CLG | FBKG22CLGA | 22 x 14 (C)             | 50            | 164 | 120                                   | 4,0  | 90      | 3,5  |

approx. 72° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,80 | PE: approx. 0,45 | HDPE: approx. 0,40 | FDA/EC/USDA compliant

## PU70A transparent V-guide smooth

BEST SUITABLE FOR BELT QUALITY

PU80A



| Order No. |            | Profile dimension<br>mm | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      |         |      |
|-----------|------------|-------------------------|---------------|-----|---------------------------------------|------|---------|------|
| unnotched | notched    |                         | m             | ft  | unnotched                             |      | notched |      |
|           |            |                         |               |     | mm                                    | inch | mm      | inch |
| FBKH5X3TG | –          | 5 x 3                   | 150           | 492 | 25,0                                  | 1,0  | –       | –    |
| FBKH6YTG  | FBKH6YTGD  | 6 x 4 (Y)               | 150           | 492 | 30,0                                  | 1,2  | 25,0    | 1,0  |
| FBKH8MTG  | FBKH8MTGD  | 8 x 5 (M)               | 150           | 492 | 35,0                                  | 1,4  | 30,0    | 1,2  |
| FBKH10ZTG | FBKH10ZTGD | 10 x 6 (Z)              | 150           | 492 | 45,0                                  | 1,8  | 35,0    | 1,4  |
| FBKH13ATG | FBKH13ATGD | 13 x 8 (A)              | 150           | 492 | 70,0                                  | 2,8  | 55,0    | 2,1  |
| FBKH17BTG | FBKH17BTGD | 17 x 11 (B)             | 100           | 328 | 90,0                                  | 3,6  | 70,0    | 2,8  |
| FBKH22CTG | FBKH22CTGD | 22 x 14 (C)             | 50            | 164 | 130,0                                 | 5,2  | 100,0   | 3,9  |

approx. 76° Shore A

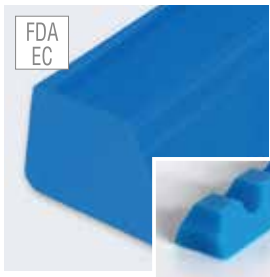
Coeff. of friction  $\mu$ : Steel: approx. 0,75 | PE: approx. 0,40 | HDPE: approx. 0,35

FDA/EC/USDA compliant (Limited suitability EC)



## PU70A sky blue V-guide smooth

BEST SUITABLE FOR BELT QUALITY **PU80A**



| Order No. |            | Profile dimension<br>mm | Standard Roll |     | Recommended Min. pulley $\emptyset$ |      |         |      |
|-----------|------------|-------------------------|---------------|-----|-------------------------------------|------|---------|------|
| unnotched | notched    |                         | m             | ft  | unnotched                           |      | notched |      |
|           |            |                         |               |     | mm                                  | inch | mm      | inch |
| FBKH6YLG  | FBKH6YLGA  | 6 x 4 (Y)               | 150           | 492 | 30,0                                | 1,2  | 25,0    | 1,0  |
| FBKH8MLG  | FBKH8MLGA  | 8 x 5 (M)               | 150           | 492 | 35,0                                | 1,4  | 30,0    | 1,2  |
| FBKH10ZLG | FBKH10ZLGA | 10 x 6 (Z)              | 150           | 492 | 45,0                                | 1,8  | 35,0    | 1,4  |
| FBKH13ALG | FBKH13ALGA | 13 x 8 (A)              | 150           | 492 | 70,0                                | 2,8  | 55,0    | 2,1  |
| FBKH17BLG | FBKH17BLGA | 17 x 11 (B)             | 100           | 328 | 90,0                                | 3,6  | 70,0    | 2,8  |
| FBKH22CLG | FBKH22CLGA | 22 x 14 (C)             | 50            | 164 | 130,0                               | 5,2  | 100,0   | 3,9  |

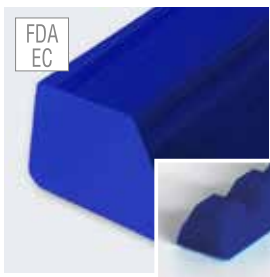
Coeff. of friction  $\mu$ : Steel: approx. 0,75 | PE: approx. 0,40 | HDPE: approx. 0,35

approx. 76° Shore A

FDA/EC/USDA compliant (limited suitability EC)

## PU70A ultramarine blue V-guide smooth

BEST SUITABLE FOR BELT QUALITY **PU80A**



| Order No.  |            | Profile dimension<br>mm | Standard Roll |     | Recommended Min. pulley $\emptyset$ |      |         |      |
|------------|------------|-------------------------|---------------|-----|-------------------------------------|------|---------|------|
| unnotched  | notched    |                         | m             | ft  | unnotched                           |      | notched |      |
|            |            |                         |               |     | mm                                  | inch | mm      | inch |
| FBKH5X3LGB | –          | 5 x 3                   | 250           | 820 | 25,0                                | 1,0  | –       | –    |
| FBKH6YLGB  | FBKH6YLGC  | 6 x 4 (Y)               | 150           | 492 | 30,0                                | 1,2  | 25,0    | 1,0  |
| FBKH8MLGB  | FBKH8MLGC  | 8 x 5 (M)               | 150           | 492 | 35,0                                | 1,4  | 30,0    | 1,2  |
| FBKH10ZLGB | FBKH10ZLGC | 10 x 6 (Z)              | 150           | 492 | 45,0                                | 1,8  | 35,0    | 1,4  |
| FBKH13ALGB | FBKH13ALGC | 13 x 8 (A)              | 150           | 492 | 70,0                                | 2,8  | 55,0    | 2,1  |
| FBKH17BLGB | FBKH17BLGC | 17 x 11 (B)             | 100           | 328 | 90,0                                | 3,6  | 70,0    | 2,8  |
| FBKH22CLGB | FBKH22CLGC | 22 x 14 (C)             | 50            | 164 | 130,0                               | 5,2  | 100,0   | 3,9  |

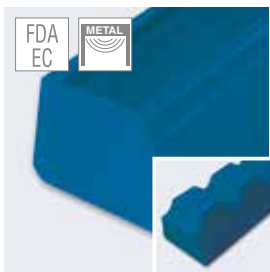
Coeff. of friction  $\mu$ : Steel: approx. 0,75 | PE: approx. 0,40 | HDPE: approx. 0,35

approx. 76° Shore A

FDA/EC/USDA compliant (Limited suitability EC)

## PU70A safe capri blue V-guide smooth

BEST SUITABLE FOR BELT QUALITY **PU80A**

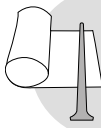


| Order No.  |            | Profile dimension<br>mm | Standard Roll |     | Recommended Min. pulley $\emptyset$ |      |         |      |
|------------|------------|-------------------------|---------------|-----|-------------------------------------|------|---------|------|
| unnotched  | notched    |                         | m             | ft  | unnotched                           |      | notched |      |
|            |            |                         |               |     | mm                                  | inch | mm      | inch |
| FBKF6YLGA  | FBKF6YLG   | 6 x 4 (Y)               | 150           | 492 | 30,0                                | 1,2  | 25,0    | 1,0  |
| FBKF8MLGA  | FBKF8MLGB  | 8 x 5 (M)               | 150           | 492 | 35,0                                | 1,4  | 30,0    | 1,2  |
| FBKF10ZLGA | FBKF10ZLGB | 10 x 6 (Z)              | 150           | 492 | 45,0                                | 1,8  | 35,0    | 1,4  |
| FBKF13ALGA | FBKF13ALGB | 13 x 8 (A)              | 150           | 492 | 70,0                                | 2,8  | 55,0    | 2,1  |
| FBKF17BLGA | FBKF17BLGB | 17 x 11 (B)             | 100           | 328 | 90,0                                | 3,6  | 70,0    | 2,8  |
| FBKF22CLGA | FBKF22CLGB | 22 x 14 (C)             | 50            | 164 | 130,0                               | 5,2  | 100,0   | 3,9  |

Coeff. of friction  $\mu$ : Steel: approx. 0,75 | PE: approx. 0,40 | HDPE: approx. 0,35 |

approx. 76° Shore A

FDA/EC/USDA compliant (Limited suitability EC)



## PU70A transparent special V-guide smooth 8x3,2 mm



| Order No.  | Profile dimension | Standard Roll |     | Recommended Min. pulley $\varnothing$ |     |
|------------|-------------------|---------------|-----|---------------------------------------|-----|
|            |                   | mm            | m   | ft                                    | mm  |
| FBKH8X32TG | 8 x 3,2           | 150           | 492 | 25,0                                  | 1,0 |

BEST SUITABLE FOR BELT QUALITY **PU80A**

Coeff. of friction  $\mu$ : Steel: approx. 0,75 | PE: approx. 0,40 | HDPE: approx. 0,35

FDA/EC/USDA compliant (Limited suitability EC)

approx. 76° Shore A

## PU80A transparent special V-guide smooth 13x6,5 mm / 10x5 mm



| Order No.   | Profile dimension | Standard Roll |     | Recommended Min. pulley $\varnothing$ |     |
|-------------|-------------------|---------------|-----|---------------------------------------|-----|
|             |                   | mm            | m   | ft                                    | mm  |
| FBKJ13X65TG | 13 x 6,5          | 200           | 656 | 60,0                                  | 2,4 |
| FBKJ10X5TG  | 10 x 5,0          | 150           | 492 | 45,0                                  | 1,8 |

BEST SUITABLE FOR BELT QUALITY **PU80A**

Coeff. of friction  $\mu$ : Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | FDA/EC/USDA compliant

approx. 84° Shore A

## PU65A transparent special V-guide smooth 9x4,5 mm



| Order No.  | Profile dimension | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      |
|------------|-------------------|---------------|-----|---------------------------------------|------|
|            |                   | mm            | m   | ft                                    | mm   |
| FBSG9X45TG | 9 x 4,5           | 150           | 492 | 30                                    | 1,18 |

BEST SUITABLE FOR BELT QUALITY **PU75A/PU95A**

Special guiding profile for round belt grooves of roller conveyors

Coeff. of friction  $\mu$ : Steel: approx. 0,80 | PE: approx. 0,45 | HDPE: approx. 0,40 | FDA/EC/USDA compliant

approx. 72° Shore A



## PU60A transparent 19 x 8 mm

BEST SUITABLE FOR BELT QUALITY **PU80A**



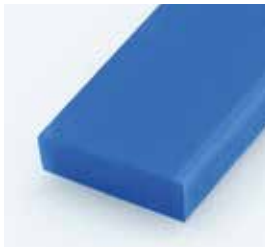
| Order No.  | Profile dimension<br>mm | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      |
|------------|-------------------------|---------------|-----|---------------------------------------|------|
|            |                         | m             | ft  | mm                                    | inch |
| FBSF19X8TB | 19 x 8                  | 100           | 328 | 60                                    | 2,4  |

approx. 65° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,85 | PE: approx. 0,50 | HDPE: approx. 0,45

## PU75A sky blue, PU85A ultramarine blue, 22 x 8 mm

BEST SUITABLE FOR BELT QUALITY **PU75A/PU95A**



| Order No.  | Color            | Profile dimension<br>mm | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      |
|------------|------------------|-------------------------|---------------|-----|---------------------------------------|------|
|            |                  |                         | m             | ft  | mm                                    | inch |
| FBFI22X8LG | sky blue         | 22 x 8                  | 50            | 164 | 80                                    | 3,1  |
| FBFK22X8LG | ultramarine blue | 22 x 8                  | 50            | 164 | 95                                    | 3,7  |

PU75A, approx. 80° Shore A

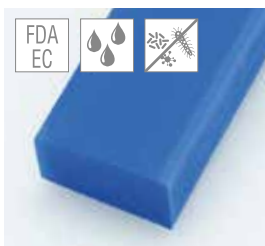
Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

PU85A, approx. 88° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

## PU80A ultramarine blue 16 x 8 mm

BEST SUITABLE FOR BELT QUALITY **PU80A**



| Order No.  | Profile dimension<br>mm | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      |
|------------|-------------------------|---------------|-----|---------------------------------------|------|
|            |                         | m             | ft  | mm                                    | inch |
| FBFJ16X8LG | 16 x 8                  | 50            | 164 | 80                                    | 3,15 |

approx. 84° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,85 | PE: approx. 0,50 | HDPE: approx. 0,45

## PU75A ultramarine blue guiding profile smooth 8 x 8 mm

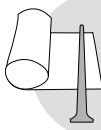
BEST SUITABLE FOR BELT QUALITY **PU75A/PU95A**



| Order No. | Profile dimension<br>mm | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      |
|-----------|-------------------------|---------------|-----|---------------------------------------|------|
|           |                         | m             | ft  | mm                                    | inch |
| FBFI8X8LG | 8 x 8                   | 50            | 164 | 75                                    | 2,95 |

approx. 80° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | FDA/EC/USDA compliant



## PU70A transparent half round smooth

BEST SUITABLE FOR BELT QUALITY

PU80A



FDA  
EC

| Order No.  | Profile dimension | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      |
|------------|-------------------|---------------|-----|---------------------------------------|------|
|            | mm                | m             | ft  | mm                                    | inch |
| FBIH8X4TG  | 8 x 4             | 40            | 132 | 30                                    | 1,2  |
| FBIH10X5TG | 10 x 5            | 30            | 100 | 35                                    | 1,4  |
| FBIH12X6TG | 12 x 6            | 40            | 132 | 45                                    | 1,8  |
| FBIH15X7TG | 15 x 7            | 30            | 100 | 60                                    | 2,4  |
| FBIH18X9TG | 18 x 9            | 40            | 132 | 80                                    | 3,2  |

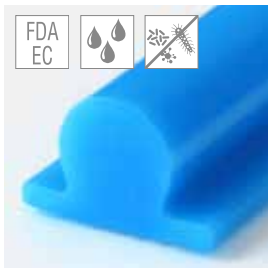
approx. 76° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | FDA/EC/USDA compliant

## PU75A sky blue guiding profile round smooth $\varnothing$ 5x9 mm

BEST SUITABLE FOR BELT QUALITY

PU75A/PU95A



FDA  
EC

| Order No.   | Profile dimension         | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      |
|-------------|---------------------------|---------------|-----|---------------------------------------|------|
|             | mm                        | m             | ft  | mm                                    | inch |
| FBTI5X5X9HI | $\varnothing$ 5 x 5,5 x 9 | 90            | 295 | 40,0                                  | 1,6  |

approx. 80° Shore A

Also ideal as a weld-on profile for clamping the aprons in the fastening rail

Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | FDA/EC/USDA compliant

## PU75A transparent special flat-guide smooth 10x2 mm

BEST SUITABLE FOR BELT QUALITY

PU75A/PU95A

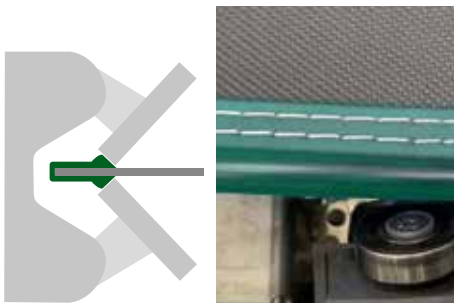


FDA  
EC

| Order No.  | Profile dimension | Cross section   | Standard Roll |     | Recommended Min. pulley $\varnothing$ |      |
|------------|-------------------|-----------------|---------------|-----|---------------------------------------|------|
|            | mm                | cm <sup>2</sup> | m             | ft  | mm                                    | inch |
| FBFI10X2TG | 10 x 2            | 0,2             | 200           | 656 | 15                                    | 0,59 |

approx. 80° Shore A

Coeff. of friction  $\mu$ : Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | FDA/EC/USDA compliant

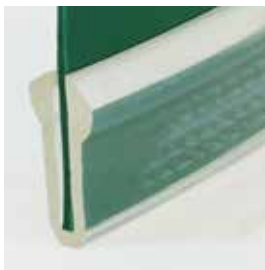


### Belt edges / belt curve guiding profiles

So-called edge profiles are used to stabilise and guide curved belts. The profiles are usually sewn or glued onto the curved belt. By means of the profile bead, the curved belt can be supported during operation.

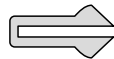
**Advantages:** High tear resistance, high flexibility, low abrasion, individual colouring

### PU80A Belt edge 13x26 mm, transparent

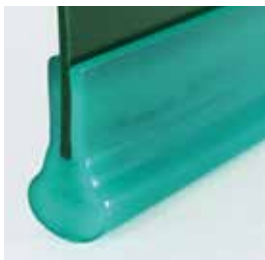


approx. 80° Shore A

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |       | Recommended Min.-pulley $\varnothing$ |      |
|--------------|-------------------------|----------------------------------|----------------------------|---------------|-------|---------------------------------------|------|
|              |                         |                                  |                            | m             | ft    | mm                                    | inch |
| FBSP80A13X26 | 13 x 26                 | 1,49                             | 17,9                       | 30,0          | 100,0 | +100                                  | +4,0 |

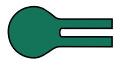


### PU65A, 75A, 85A Belt edge 14x28 mm, emerald green

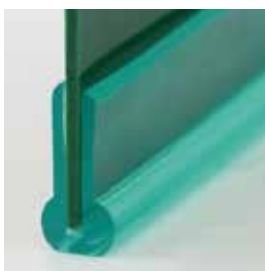


approx. 72°, 80°, 88° Shore A

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |       | Recommended Min.-pulley $\varnothing$ |      |
|--------------|-------------------------|----------------------------------|----------------------------|---------------|-------|---------------------------------------|------|
|              |                         |                                  |                            | m             | ft    | mm                                    | inch |
| FBGK65A14X28 | 14 x 28                 | 1,9                              | 22,8                       | 30,0          | 100,0 | +80                                   | +3,2 |
| FBSP75A14X28 | 14 x 28                 | 1,9                              | 22,8                       | 30,0          | 100,0 | +100                                  | +4,0 |
| FBSP85A14X28 | 14 x 28                 | 1,9                              | 22,8                       | 30,0          | 100,0 | +140                                  | +5,5 |

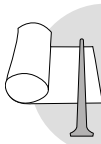


### PU80A Belt edge 8,8x18 mm, emerald green

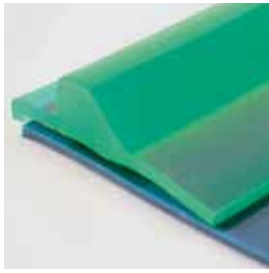


approx. 84° Shore A

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |       | Recommended Min.-pulley $\varnothing$ |      |
|--------------|-------------------------|----------------------------------|----------------------------|---------------|-------|---------------------------------------|------|
|              |                         |                                  |                            | m             | ft    | mm                                    | inch |
| FBSP80A88X18 | 8,8 x 18                | 0,62                             | 7,4                        | 30,0          | 100,0 | +65                                   | +2,6 |



## PU80A Belt edge 3,5 x 37 mm, emerald green

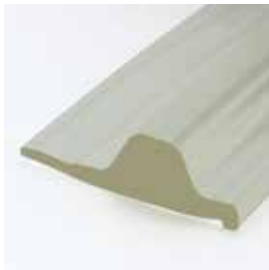


approx. 84° Shore A

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |       | Recommended Min.-pulley Ø |      |
|--------------|-------------------------|----------------------------------|----------------------------|---------------|-------|---------------------------|------|
|              |                         |                                  |                            | m             | ft    | mm                        | inch |
| FBSP80A35X37 | 3,5 x 37                | 1,2                              | 14,3                       | 30,0          | 100,0 | +60                       | +2,4 |

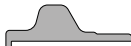


## PU65A Belt edge 10 x 35 mm, transparent



approx. 72° Shore A

| Order No.    | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |       | Recommended Min.-pulley Ø |      |
|--------------|-------------------------|----------------------------------|----------------------------|---------------|-------|---------------------------|------|
|              |                         |                                  |                            | m             | ft    | mm                        | inch |
| FBSP65A10X35 | 10 x 35                 | 1,6                              | 19,8                       | 30,0          | 100,0 | +60                       | +2,4 |



## PU75A Belt edge 17 x 33 mm, emerald green

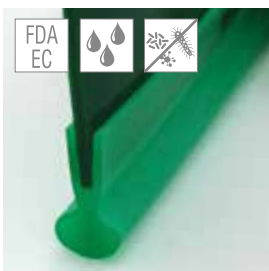


approx. 80° Shore A

| Order No.   | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |       | Recommended Min.-pulley Ø |       |
|-------------|-------------------------|----------------------------------|----------------------------|---------------|-------|---------------------------|-------|
|             |                         |                                  |                            | m             | ft    | mm                        | inch  |
| FBSP17X33GG | 17 x 33                 | 2,54                             | 30,4                       | 30,0          | 100,0 | +120                      | +4,75 |



## PU65A Belt edge 10,5 x 22 mm, translucent green



approx. 72° Shore A

| Order No.     | Profile dimension<br>mm | Cross section<br>cm <sup>2</sup> | approx. Weight<br>kg/100 m | Standard Roll |       | Recommended Min.-pulley Ø |      |
|---------------|-------------------------|----------------------------------|----------------------------|---------------|-------|---------------------------|------|
|               |                         |                                  |                            | m             | ft    | mm                        | inch |
| FBSP10,5X22TG | 10,5 x 22               | 1,12                             | 13,4                       | 30,0          | 100,0 | +70                       | +2,8 |



**Type: flat foot** very good weldability on PU belts



## PU80A white



| Order No.   | Height (mm) H | Height (inch) H | Foot width (mm) B | Foot width (inch) B | Weight (g/m) | Min. pulley Ø |      | Standard Roll |    |
|-------------|---------------|-----------------|-------------------|---------------------|--------------|---------------|------|---------------|----|
|             |               |                 |                   |                     |              | mm            | inch | m             | ft |
| FBCJ025WUSX | 25,00         | 1,00            | 12,50             | 0,50                | 154,00       | 60            | 2,4  | 20            | 65 |
| FBCJ038WUSX | 38,00         | 1,50            | 12,50             | 0,50                | 228,00       | 60            | 2,4  | 20            | 65 |
| FBCJ050WUSX | 50,00         | 2,00            | 12,50             | 0,50                | 302,00       | 60            | 2,4  | 20            | 65 |
| FBCJ070WUSX | 70,00         | 2,75            | 12,50             | 0,50                | 455,00       | 60            | 2,4  | 20            | 65 |

approx. 84° Shore A

## PU80A green



| Order No.   | Height (mm) H | Height (inch) H | Foot width (mm) B | Foot width (inch) B | Weight (g/m) | Min. pulley Ø |      | Standard Roll |    |
|-------------|---------------|-----------------|-------------------|---------------------|--------------|---------------|------|---------------|----|
|             |               |                 |                   |                     |              | mm            | inch | m             | ft |
| FBCJ025GUSX | 25,00         | 1,00            | 12,50             | 0,50                | 154,00       | 60            | 2,4  | 20            | 65 |
| FBCJ038GUSX | 38,00         | 1,50            | 12,50             | 0,50                | 228,00       | 60            | 2,4  | 20            | 65 |
| FBCJ050GUSX | 50,00         | 2,00            | 12,50             | 0,50                | 302,00       | 60            | 2,4  | 20            | 65 |
| FBCJ070GUSX | 70,00         | 2,75            | 12,50             | 0,50                | 455,00       | 60            | 2,4  | 20            | 65 |

approx. 84° Shore A

## PU80A ultramarine blue



| Order No.    | Height (mm) H | Height (inch) H | Foot width (mm) B | Foot width (inch) B | Weight (g/m) | Min. pulley Ø |      | Standard Roll |    |
|--------------|---------------|-----------------|-------------------|---------------------|--------------|---------------|------|---------------|----|
|              |               |                 |                   |                     |              | mm            | inch | m             | ft |
| FBCJ025LUSAX | 25,00         | 1,00            | 12,50             | 0,50                | 154,00       | 60            | 2,4  | 20            | 65 |
| FBCJ038LUSAX | 38,00         | 1,50            | 12,50             | 0,50                | 228,00       | 60            | 2,4  | 20            | 65 |
| FBCJ050LUSAX | 50,00         | 2,00            | 12,50             | 0,50                | 302,00       | 60            | 2,4  | 20            | 65 |
| FBCJ070LUSAX | 70,00         | 2,75            | 12,50             | 0,50                | 455,00       | 60            | 2,4  | 20            | 65 |

approx. 84° Shore A

## PU80A sky blue



| Order No.   | Height (mm) H | Height (inch) H | Foot width (mm) B | Foot width (inch) B | Weight (g/m) | Min. pulley Ø |      | Standard Roll |    |
|-------------|---------------|-----------------|-------------------|---------------------|--------------|---------------|------|---------------|----|
|             |               |                 |                   |                     |              | mm            | inch | m             | ft |
| FBCJ025LUSX | 25,00         | 1,00            | 12,50             | 0,50                | 154,00       | 60            | 2,4  | 20            | 65 |
| FBCJ038LUSX | 38,00         | 1,50            | 12,50             | 0,50                | 228,00       | 60            | 2,4  | 20            | 65 |
| FBCJ050LUSX | 50,00         | 2,00            | 12,50             | 0,50                | 302,00       | 60            | 2,4  | 20            | 65 |
| FBCJ070LUSX | 70,00         | 2,75            | 12,50             | 0,50                | 455,00       | 60            | 2,4  | 20            | 65 |

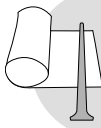
approx. 84° Shore A

## PU80A safe capri blue



| Order No.    | Height (mm) H | Height (inch) H | Foot width (mm) B | Foot width (inch) B | Weight (g/m) | Min. pulley Ø |      | Standard Roll |    |
|--------------|---------------|-----------------|-------------------|---------------------|--------------|---------------|------|---------------|----|
|              |               |                 |                   |                     |              | mm            | inch | m             | ft |
| FBCJ025LCUSX | 25,00         | 1,00            | 12,50             | 0,50                | 154,00       | 60            | 2,4  | 20            | 65 |
| FBCJ038LCUSX | 38,00         | 1,50            | 12,50             | 0,50                | 228,00       | 60            | 2,4  | 20            | 65 |
| FBCJ050LCUSX | 50,00         | 2,00            | 12,50             | 0,50                | 302,00       | 60            | 2,4  | 20            | 65 |
| FBCJ070LCUSX | 70,00         | 2,75            | 12,50             | 0,50                | 455,00       | 60            | 2,4  | 20            | 65 |

approx. 84° Shore A



**Type: feathered foot** weldable on PU



## PU90A white



| Order No. | Height |          | Foot width<br>(mm) B | Weight<br>(g/m) | Min. pulley $\varnothing$ |      | Standard Roll |    |
|-----------|--------|----------|----------------------|-----------------|---------------------------|------|---------------|----|
|           | (mm) H | (inch) H |                      |                 | mm                        | inch | m             | ft |
| FBCJ020WX | 20,00  | 0,79     | 10,0                 | 75,00           | 60                        | 2,4  | 20            | 65 |
| FBCJ030WX | 30,00  | 1,18     | 10,0                 | 109,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ040WX | 40,00  | 1,57     | 10,0                 | 129,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ050WX | 50,00  | 2,00     | 10,0                 | 235,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ060WX | 60,00  | 2,40     | 10,0                 | 280,00          | 60                        | 2,4  | 20            | 65 |

approx. 92° Shore A

## PU90A green



| Order No. | Height |          | Foot width<br>(mm) B | Weight<br>(g/m) | Min. pulley $\varnothing$ |      | Standard Roll |    |
|-----------|--------|----------|----------------------|-----------------|---------------------------|------|---------------|----|
|           | (mm) H | (inch) H |                      |                 | mm                        | inch | m             | ft |
| FBCJ020GX | 20,00  | 0,79     | 10,0                 | 75,00           | 60                        | 2,4  | 20            | 65 |
| FBCJ030GX | 30,00  | 1,18     | 10,0                 | 109,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ040GX | 40,00  | 1,57     | 10,0                 | 129,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ050GX | 50,00  | 2,00     | 10,0                 | 235,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ060GX | 60,00  | 2,40     | 10,0                 | 280,00          | 60                        | 2,4  | 20            | 65 |

approx. 92° Shore A

## PU90A ultramarine blue



| Order No.  | Height |          | Foot width<br>(mm) B | Weight<br>(g/m) | Min. pulley $\varnothing$ |      | Standard Roll |    |
|------------|--------|----------|----------------------|-----------------|---------------------------|------|---------------|----|
|            | (mm) H | (inch) H |                      |                 | mm                        | inch | m             | ft |
| FBCJ020LAX | 20,00  | 0,79     | 10,0                 | 75,00           | 60                        | 2,4  | 20            | 65 |
| FBCJ030LAX | 30,00  | 1,18     | 10,0                 | 109,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ040LAX | 40,00  | 1,57     | 10,0                 | 129,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ050LAX | 50,00  | 2,00     | 10,0                 | 235,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ060LAX | 60,00  | 2,40     | 10,0                 | 280,00          | 60                        | 2,4  | 20            | 65 |

approx. 92° Shore A

## PU90A sky blue



| Order No. | Height |          | Foot width<br>(mm) B | Weight<br>(g/m) | Min. pulley $\varnothing$ |      | Standard Roll |    |
|-----------|--------|----------|----------------------|-----------------|---------------------------|------|---------------|----|
|           | (mm) H | (inch) H |                      |                 | mm                        | inch | m             | ft |
| FBCJ020LX | 20,00  | 0,79     | 10,0                 | 75,00           | 60                        | 2,4  | 20            | 65 |
| FBCJ030LX | 30,00  | 1,18     | 10,0                 | 109,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ040LX | 40,00  | 1,57     | 10,0                 | 129,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ050LX | 50,00  | 2,00     | 10,0                 | 235,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ060LX | 60,00  | 2,40     | 10,0                 | 280,00          | 60                        | 2,4  | 20            | 65 |

approx. 92° Shore A

## PU90A safe capri blue



| Order No.  | Height |          | Foot width<br>(mm) B | Weight<br>(g/m) | Min. pulley $\varnothing$ |      | Standard Roll |    |
|------------|--------|----------|----------------------|-----------------|---------------------------|------|---------------|----|
|            | (mm) H | (inch) H |                      |                 | mm                        | inch | m             | ft |
| FBCJ020LCX | 20,00  | 0,79     | 10,0                 | 75,00           | 60                        | 2,4  | 20            | 65 |
| FBCJ030LCX | 30,00  | 1,18     | 10,0                 | 109,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ040LCX | 40,00  | 1,57     | 10,0                 | 129,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ050LCX | 50,00  | 2,00     | 10,0                 | 235,00          | 60                        | 2,4  | 20            | 65 |
| FBCJ060LCX | 60,00  | 2,40     | 10,0                 | 280,00          | 60                        | 2,4  | 20            | 65 |

approx. 92° Shore A





## PUflex flat belt material for sidewalls

Flat belt strips for direct welding onto the conveyor belt

- Material extremely flexible with good abrasion and cut resistance
- Very good and easy weldability
- Food approval FDA/EC compliant
- For the individual implementation of your corrugated edge refinement

## PU80A Flat belt 140 mm for sidewalls



**very good and easy weldability**

approx. 84° Shore A

| Order No.    | Color*           | Profile thickness* |      | Belt width |      | Standard Roll |     |
|--------------|------------------|--------------------|------|------------|------|---------------|-----|
|              |                  | mm                 | inch | mm         | inch | m             | ft  |
| FBFJ140X2WG  | white            | 2,0                | 5/64 | 140        | 5,5  | 125           | 410 |
| FBFJ140X2LB  | blue green       | 2,0                | 5/64 | 140        | 5,5  | 125           | 410 |
| FBFJ140X2GG  | green            | 2,0                | 5/64 | 140        | 5,5  | 125           | 410 |
| FBFJ140X2LG  | sky blue         | 2,0                | 5/64 | 140        | 5,5  | 125           | 410 |
| FBFJ140X2LA  | ultramarine blue | 2,0                | 5/64 | 140        | 5,5  | 125           | 410 |
| FBFJ140X25GG | green            | 2,5                | 3/32 | 140        | 5,5  | 101           | 331 |
| FBFJ140X25LA | ultramarine blue | 2,5                | 3/32 | 140        | 5,5  | 101           | 331 |

\*Further colours and belt thicknesses on request

**Coeff. of friction  $\mu$ :** Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC/USDA compliant**

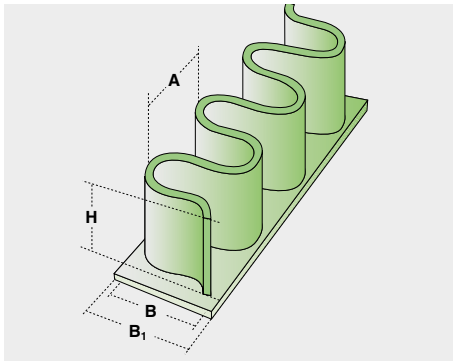


## Marking strips PU75A, 5x0,3 mm



| Order No.  | Color            | Width mm | Thickness mm | Weight kg/100m | Standard Roll |
|------------|------------------|----------|--------------|----------------|---------------|
| FBFI5X03W  | white            | 5,0      | 0,3          | 0,18           | 100 m         |
| FBFI5X03S  | black            | 5,0      | 0,3          | 0,18           | 100 m         |
| FBFI5X03LB | sky blue         | 5,0      | 0,3          | 0,18           | 100 m         |
| FBFI5X03LA | ultramarine blue | 5,0      | 0,3          | 0,18           | 100 m         |
| FBFI5X03R  | pink             | 5,0      | 0,3          | 0,18           | 100 m         |



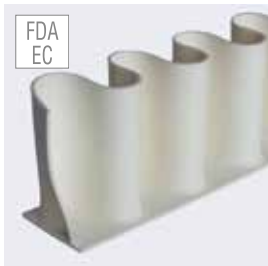


## PUflex sidewalls with foot

Sidewalls with foot for welding onto the conveyor belt

- Extremely flexible material with good abrasion and cut resistance
- Very good and easy weldability
- Approved for use in food contact applications in compliance with FDA/EC
- The version with foot allows for particularly small pulley diameters on account of the high degree of undulation of the wave profile

## PU80A white

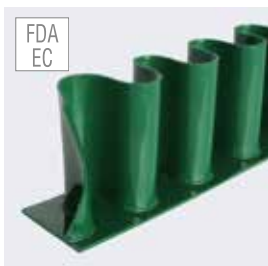


approx. 84° Shore A

FDA/EC/USDA compliant

| Order No.  | Height H |      | Wave width B | Base width B1 | Pitch off waves A | Approx. weight | Standard Roll | Pulley diameter (∅) |             |             |
|------------|----------|------|--------------|---------------|-------------------|----------------|---------------|---------------------|-------------|-------------|
|            | mm       | inch |              |               |                   |                |               | Minimum             | Recommended | Counterflex |
| FBV FH020W | 20,00    | 0,79 | 23,00        | 32,00         | 25,40             | 174            | 100           | 35                  | 70          | 70          |
| FBV FH030W | 30,00    | 1,18 | 23,00        | 32,00         | 25,40             | 220            | 100           | 55                  | 80          | 110         |
| FBV FH040W | 40,00    | 1,57 | 23,00        | 32,00         | 25,40             | 265            | 100           | 75                  | 90          | 150         |
| FBV FH050W | 50,00    | 1,97 | 23,00        | 32,00         | 25,40             | 310            | 100           | 80                  | 100         | 160         |
| FBV FH060W | 60,00    | 2,36 | 45,00        | 55,00         | 50,80             | 445            | 100           | 90                  | 110         | 180         |
| FBV FH080W | 80,00    | 3,15 | 45,00        | 55,00         | 50,80             | 544            | 50            | 125                 | 130         | 250         |
| FBV FH100W | 100,00   | 3,94 | 45,00        | 55,00         | 50,80             | 642            | 50            | 155                 | 160         | 310         |
| FBV FH120W | 120,00   | 4,72 | 45,00        | 55,00         | 50,80             | 741            | 50            | 170                 | 185         | 340         |

## PU80A green

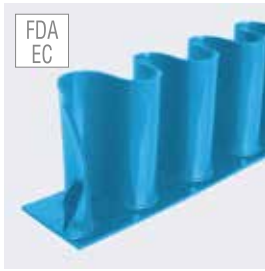


approx. 84° Shore A

FDA/EC/USDA compliant

| Order No.  | Height H |      | Wave width B | Base width B1 | Pitch off waves A | Approx. weight | Standard Roll | Pulley diameter (∅) |             |             |
|------------|----------|------|--------------|---------------|-------------------|----------------|---------------|---------------------|-------------|-------------|
|            | mm       | inch |              |               |                   |                |               | Minimum             | Recommended | Counterflex |
| FBV FH020G | 20,00    | 0,79 | 23,00        | 32,00         | 25,40             | 174            | 100           | 35                  | 70          | 70          |
| FBV FH030G | 30,00    | 1,18 | 23,00        | 32,00         | 25,40             | 220            | 100           | 55                  | 80          | 110         |
| FBV FH040G | 40,00    | 1,57 | 23,00        | 32,00         | 25,40             | 265            | 100           | 75                  | 90          | 150         |
| FBV FH050G | 50,00    | 1,97 | 23,00        | 32,00         | 25,40             | 310            | 100           | 80                  | 100         | 160         |
| FBV FH060G | 60,00    | 2,36 | 45,00        | 55,00         | 50,80             | 445            | 100           | 90                  | 110         | 180         |
| FBV FH080G | 80,00    | 3,15 | 45,00        | 55,00         | 50,80             | 544            | 50            | 125                 | 130         | 250         |
| FBV FH100G | 100,00   | 3,94 | 45,00        | 55,00         | 50,80             | 642            | 50            | 155                 | 160         | 310         |
| FBV FH120G | 120,00   | 4,72 | 45,00        | 55,00         | 50,80             | 741            | 50            | 170                 | 185         | 340         |

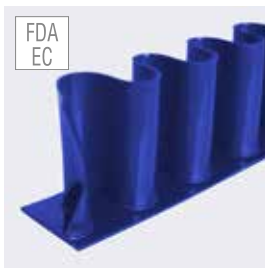
## PU80A sky blue



approx. 84° Shore A  
FDA/EC/USDA compliant

| Order No. | Height H | Height H | Wave width B | Base width B1 | Pitch off waves A | Approx. weight | Standard Roll | Pulley diameter (∅) |             |             |
|-----------|----------|----------|--------------|---------------|-------------------|----------------|---------------|---------------------|-------------|-------------|
|           | mm       | inch     |              |               |                   |                |               | Minimum             | Recommended | Counterflex |
| FBVFH020L | 20,00    | 0,79     | 23,00        | 32,00         | 25,40             | 174            | 100           | 35                  | 70          | 70          |
| FBVFH030L | 30,00    | 1,18     | 23,00        | 32,00         | 25,40             | 220            | 100           | 55                  | 80          | 110         |
| FBVFH040L | 40,00    | 1,57     | 23,00        | 32,00         | 25,40             | 265            | 100           | 75                  | 90          | 150         |
| FBVFH050L | 50,00    | 1,97     | 23,00        | 32,00         | 25,40             | 310            | 100           | 80                  | 100         | 160         |
| FBVFH060L | 60,00    | 2,36     | 45,00        | 55,00         | 50,80             | 445            | 100           | 90                  | 110         | 180         |
| FBVFH080L | 80,00    | 3,15     | 45,00        | 55,00         | 50,80             | 544            | 50            | 125                 | 130         | 250         |
| FBVFH100L | 100,00   | 3,94     | 45,00        | 55,00         | 50,80             | 642            | 50            | 155                 | 160         | 310         |
| FBVFH120L | 120,00   | 4,72     | 45,00        | 55,00         | 50,80             | 741            | 50            | 170                 | 185         | 340         |

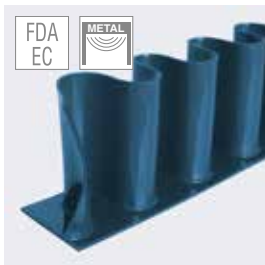
## PU80A ultramarine blue



approx. 84° Shore A  
FDA/EC/USDA compliant

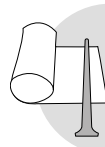
| Order No.  | Height H | Height H | Wave width B | Base width B1 | Pitch off waves A | Approx. weight | Standard Roll | Pulley diameter (∅) |             |             |
|------------|----------|----------|--------------|---------------|-------------------|----------------|---------------|---------------------|-------------|-------------|
|            | mm       | inch     |              |               |                   |                |               | Minimum             | Recommended | Counterflex |
| FBVFH020LB | 20,00    | 0,79     | 23,00        | 32,00         | 25,40             | 174            | 100           | 35                  | 70          | 70          |
| FBVFH030LB | 30,00    | 1,18     | 23,00        | 32,00         | 25,40             | 220            | 100           | 55                  | 80          | 110         |
| FBVFH040LB | 40,00    | 1,57     | 23,00        | 32,00         | 25,40             | 265            | 100           | 75                  | 90          | 150         |
| FBVFH050LB | 50,00    | 1,97     | 23,00        | 32,00         | 25,40             | 310            | 100           | 80                  | 100         | 160         |
| FBVFH060LB | 60,00    | 2,36     | 45,00        | 55,00         | 50,80             | 445            | 100           | 90                  | 110         | 180         |
| FBVFH080LB | 80,00    | 3,15     | 45,00        | 55,00         | 50,80             | 544            | 50            | 125                 | 130         | 250         |
| FBVFH100LB | 100,00   | 3,94     | 45,00        | 55,00         | 50,80             | 642            | 50            | 155                 | 160         | 310         |
| FBVFH120LB | 120,00   | 4,72     | 45,00        | 55,00         | 50,80             | 741            | 50            | 170                 | 185         | 340         |

## PU80A safe capri blue

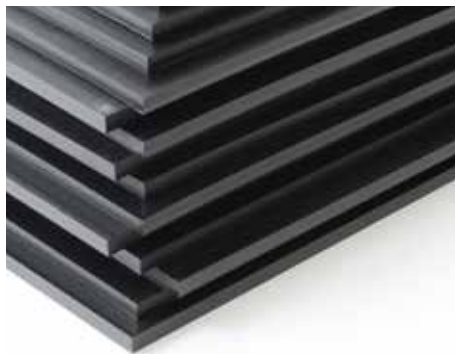


approx. 84° Shore A  
FDA/EC/USDA compliant

| Order No.  | Height H | Height H | Wave width B | Base width B1 | Pitch off waves A | Approx. weight | Standard Roll | Pulley diameter (∅) |             |             |
|------------|----------|----------|--------------|---------------|-------------------|----------------|---------------|---------------------|-------------|-------------|
|            | mm       | inch     |              |               |                   |                |               | Minimum             | Recommended | Counterflex |
| FBVFH020LA | 20,00    | 0,79     | 23,00        | 32,00         | 25,40             | 174            | 100           | 35                  | 70          | 70          |
| FBVFH030LA | 30,00    | 1,18     | 23,00        | 32,00         | 25,40             | 220            | 100           | 55                  | 80          | 110         |
| FBVFH040LA | 40,00    | 1,57     | 23,00        | 32,00         | 25,40             | 265            | 100           | 75                  | 90          | 150         |
| FBVFH050LA | 50,00    | 1,97     | 23,00        | 32,00         | 25,40             | 310            | 100           | 80                  | 100         | 160         |
| FBVFH060LA | 60,00    | 2,36     | 45,00        | 55,00         | 50,80             | 445            | 100           | 90                  | 110         | 180         |
| FBVFH080LA | 80,00    | 3,15     | 45,00        | 55,00         | 50,80             | 544            | 50            | 125                 | 130         | 250         |
| FBVFH100LA | 100,00   | 3,94     | 45,00        | 55,00         | 50,80             | 642            | 50            | 155                 | 160         | 310         |
| FBVFH120LA | 120,00   | 4,72     | 45,00        | 55,00         | 50,80             | 741            | 50            | 170                 | 185         | 340         |



# PU sheet material up to 8 mm thickness

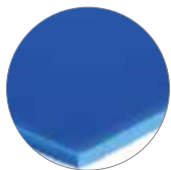


## PU sheet material

BEHAbelt offers PU panels from 4-8 mm in 2 categories:

- Blue FDA-compliant versions with smooth surfaces in Shore 84A and 95A
- Industrial quality with smooth/fine structured surface in Shore 84A

Typical areas of application are: Welded-on profile (cleats), scraper, skirts, impact (damping) protection or seals.





### TOP SIDE: SMOOTH MATT (SM), WIDTH 750 mm



| Bottom side   | Color | Features                   | Quality | Hardness<br>Shore | Profile thickness |      | Weight*<br>per pc.<br>approx. kg | Sheet length |     | Min. pulley Ø |            | Order No.  |
|---|-------|----------------------------|---------|-------------------|-------------------|------|----------------------------------|--------------|-----|---------------|------------|------------|
|   |       |                            |         |                   | mm                | inch |                                  | m            | ft  | horizontal    | vertical   |            |
| <br>smooth matt (SM) | UB    | FDA EC                     | PU80A   | 84 A              | 4,0               | 0,16 | 4,3                              | 1,2          | 4,0 | 40            | 55         | FBPJ12754L |
|   |       |                            |         |                   | 5,0               | 0,20 | 5,4                              | 1,2          | 4,0 | 70            | FBPJ12755L |            |
|   |       |                            |         |                   | 6,0               | 0,24 | 6,5                              | 1,2          | 4,0 | 80            | FBPJ12756L |            |
|   |       |                            |         |                   | 8,0               | 0,31 | 8,6                              | 1,2          | 4,0 | 100           | FBPJ12758L |            |
|   | UB    | FDA EC, Water, Oil, Grease | PU95A   | 95 A              | 4,0               | 0,16 | 4,3                              | 1,2          | 4,0 | 70            | 80         | FBPM12754L |
|   |       |                            |         |                   | 5,0               | 0,20 | 5,4                              | 1,2          | 4,0 | 90            | 105        | FBPM12755L |
|   |       |                            |         |                   | 6,0               | 0,24 | 6,5                              | 1,2          | 4,0 | 105           | 120        | FBPM12756L |
|   |       |                            |         |                   | 8,0               | 0,31 | 8,6                              | 1,2          | 4,0 | 140           | 150        | FBPM12758L |



### TOP SIDE: SMOOTH MATT (SM), WIDTH 750 mm

| Bottom side   | Color | Features | Quality | Hardness<br>Shore | Profile thickness |      | Weight*<br>per pc.<br>approx. kg | Sheet length |     | Min. pulley Ø |            | Order No.  |
|---|-------|----------|---------|-------------------|-------------------|------|----------------------------------|--------------|-----|---------------|------------|------------|
|   |       |          |         |                   | mm                | inch |                                  | m            | ft  | horizontal    | vertical   |            |
| <br>fabric impression (FI) | SW    |          | PU80A   | 84 A              | 4,0               | 0,16 | 4,3                              | 1,2          | 4,0 | 40            | 55         | FBPJ12754S |
|   |       |          |         |                   | 5,0               | 0,20 | 5,4                              | 1,2          | 4,0 | 70            | FBPJ12755S |            |
|   |       |          |         |                   | 6,0               | 0,24 | 6,5                              | 1,2          | 4,0 | 80            | FBPJ12756S |            |
|   |       |          |         |                   | 8,0               | 0,31 | 8,6                              | 1,2          | 4,0 | 100           | FBPJ12758S |            |
| <br>smooth matt (SM)       | WE    | FDA EC   | PU80A   | 84 A              | 5,0               | 0,20 | 5,4                              | 1,2          | 4,0 | 50            | 70         | FBPJ12755W |
|   |       |          |         |                   | 8,0               | 0,31 | 8,6                              | 1,2          | 4,0 | 80            | 100        | FBPJ12758W |

## Application examples



Buffer protection in the pellet depot

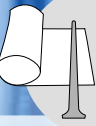


Cleats on conveyor belt



Work skirt e.g. in wood industry

\* Sheet width 750 mm; Other panel lengths are also available on request



## **FABRICATION/ ENDLESS BELTS**

|   |    |
|---|----|
| Fabrication.....                                  | 92 |
| Connection methods for profiles.....              | 93 |
| Connection methods for monolithic flat belts..... | 94 |
| Fitting connectors for hollow round belts.....    | 95 |
| Twisted round belts PU with hook connection.....  | 95 |

## Fabrication

Our customers not only require belts by roll but also endless joined belts. This is why BEHAbelt offers "Express fabrication service". Note: information on how to calculate a belt length for tailoring please refer to page 130.



### Versatile

V- and Round and custom belt profiles in a variety of lengths and diameters and different shore hardnesses.

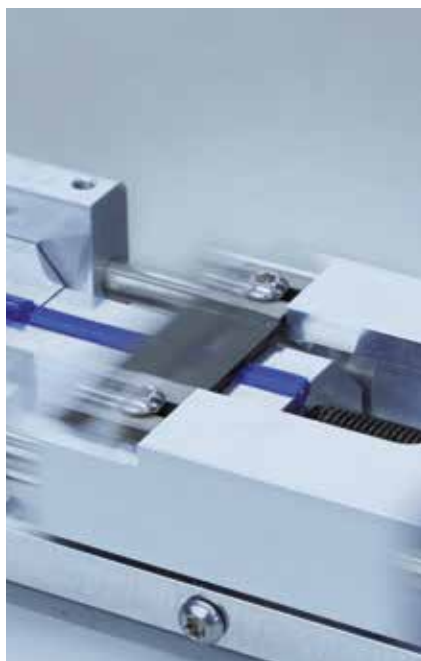
**Welding of all belt geometries and coated belts!**

### Flexibel

When we designed the machines of our tailoring shop our goal was to being able to fabricate both, small and big quantities, at attractive cost and to ensure delivery of orders within a couple of days only - therefore we optimized machine set-up times and lead times.

### Automated

An automated welding process ensures consistent quality.



## Services of Fabrication

We manufacture belt profiles and belts. The following list provides you with an overview of the currently available fabrications that BEHAbelt carries out itself. All other fabrications are covered by our partners.

### Belt profiles

- Butt welding
- Butt welding with coating
- Butt welding with reinforcement
- Overlap welding with reinforcement
- Coating of belt profiles
- Twisted round belts
- Hollow round belts with quick connector
- Belt punching
- Belt notching
- Belt print and labeling

### Flat belts

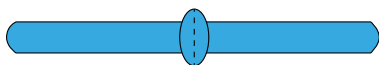
- Cut to width
- Butt welding (90° and 70°)
- Weld-on of belt profiles
- Machining of flat belts
- Belt print and labeling



## Connection methods for profiles

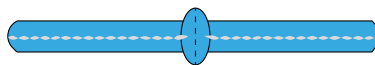
Regardless of whether you are using unreinforced belts or reinforced belts, we distinguish the following connection methods: butt and overlap welding.

Two connection methods can be used on profiles with reinforcement. Butt welding to reduce elongation without changing the belt strength. Overlap welding to reduce elongation and increase the belt strength.



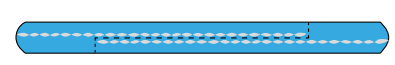
**Butt welding  
without reinforcement**

(Standard)



**Butt welding  
with reinforcement**

Butt welding to reduce elongation without changing the belt tensile force.



**Overlap welding  
with reinforcement**

Overlap welding to reduce elongation and increase the belt tensile force.







## Joining methods: monolithic belts

Elastic monolithic PU conveyor belts from BEHAbelt offer new possibilities for endless joining due to the full PU belt construction. Due to the belt design without traction-layer, a connection by finger welding is no longer necessary, as the monolithic belt is a homogeneous belt design in itself - even in the joining area. A preferably homogeneous design of the joint is a quality criterion

both functionally and with regard to the elastic elongation behaviour of the monolithic strip. In principle, this potentially “inhomogeneous” area should be as narrow as possible, since the relatively large pretensioning force applied to monolithic tapes of 0.5...4% inhomogeneity in the tape is very quickly visible in the tensioned state.

### Comparison of joining methods

|             |   |   |    |                                     |  |
|-------------|---|--|---|---|---|
|             |   | Butt welding   | Overlap welding   | Finger-joint  | Electrode welding   |
| PREPARATION | ⊕ | Single 90° cut or optional 70° for demanding pulley design.                        | Single 90° cut.   |   | Single 90° cut.   |
|             | ⊖ |  | Preparation of the lap joint. To maintain the surface structure of the conveyor belt, it is necessary to insert embossing mats. | Preparation finger. To maintain the surface structure of the conveyor belt, it is necessary to insert embossing mats. | Belt edge should be chamfered slightly.   |
| FINISHING   | ⊕ |  | Rework normally not necessary.  | Rework normally not necessary.  |   |
|             | ⊖ | Welding seam must be removed with a knife.   |   |   | Very time consuming to remove welding seam.   |
| EQUIPMENT   | ⊕ | Relatively easy and mobile welding by means of a heating paddle and joining table. |   |   | Very easy, only hot air gun and electrode.  |
|             | ⊖ |  | Can be performed with standard hot press. However, it is best to use a special tool with a narrow heating area.                 | Finger punching and heating press necessary.  |   |

#### CHARACTERISTICS IN THE WELDING AREA

|                             |                                      |   |                                 |   |
|-----------------------------|--------------------------------------|---|---------------------------------|---|
| Homogeneity                 | ⊕⊕                                   | ⊕⊕  | ⊕                               | ⊖   |
| Elasticity of belt          | ⊕⊕                                   | ⊕⊕  | ⊖                               | ⊕   |
| Maintain the belt structure | ⊕⊕                                   | ⊕   | ⊕                               | ⊕   |
| CONCLUSION                  | <b>recommended BEHAbelt standard</b> | <b>alternatively recommended belt welding</b> | <b>traditional belt welding</b> | <b>manual welding. Especially in container and funnel construction.</b> |



Butt welding with paddle welding tool



Overlap welding with hot press



Finger joint with a hot press



Welding with electrodes



## Fitting connectors for hollow round belts

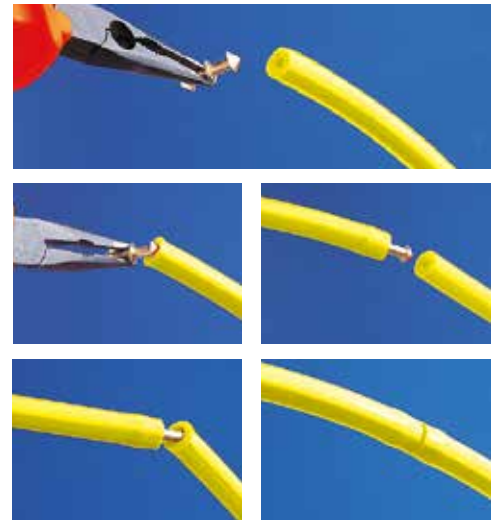
### Fitting connectors for quick repairs

Hollow round belts should be welded just like solid belts.

In the case of a breakdown, fitting connectors can be used for a quick repair, until the belt can be welded once again. Another advantage is the flexibility of the belt for small pulley diameters. The hollow round belts can be connected via metal connectors, as shown in the picture.

For the insertion of the metal nipples it is recommended to use a pliers.

**ATTENTION:** Be sure to wear gloves to press fit the metal fitting connector. **Risk of injury!**



SZ01 pliers for pressing nipple connectors into hollow round belts.



Brass nipples

**Description**  
Pliers SZ01

**Order No.**  
FBWSZ01

Nipple for hollow round belts  
(Outer diameter)  
4,8 mm / 3/16"  
6,3 mm / 3/16"  
8,0 mm / 3/16"  
9,5 mm / 3/16"  
12,5 mm / 3/16"  
15,0 mm / 3/16"

**FBN048**  
**FBN063**  
**FBN080N**  
**FBN095**  
**FBN125**  
**FBN150**

## Twisted round belts

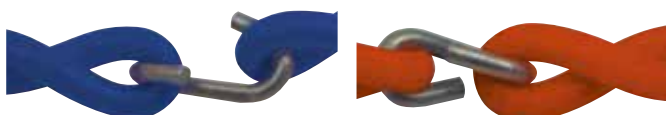
Twisted PU round belts, also called "quick connect belts", are the perfect solution for roller conveyor systems where more than one belt is sitting on a shaft (called vertical drive).

Twisted belts are mounted with the hook open, which then is being closed with pliers once the belt is sitting in the right place.

**Other material combinations on request.**

### Advantage

No costly and time consuming dismantling of shafts needed when installing or replacing a belt (short breakdown times).



Construction: 2 x Ø 3 mm (Ø 5 mm)

You can find all product information on page 29



## WELDING TOOLS

### PROFILES

|  |     |
|--|-----|
| Friction welding machines.....         | 97  |
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### FLAT BELTS

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### MISCELLANEOUS

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|--------------------------------|-----|
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| Mandrel welding tools.....     | 119 |
| LubeSite® Lubricators.....     | 120 |

## RS02

The unique friction welding machine RS02 for polyurethane profiles eliminates downtime with a perfect weld on each application!

### Features at a glance

- No long heating-up and set-up times, spliced within seconds.
- Precise pressure and automatical 0-positioning prevents uneven welds and premature failure.
- Automatic alignment ensures that the belt ends are aligned perfectly.
- Temperature variation is never a concern (no guess-work).
- Without the risk of injury or fire due to hot metal.
- Due to its small size the RS02 press can be used in confined spaces.
- Thanks to its exchangeable jaws the RS02 is suitable for splicing round belts from  $\varnothing$  6 mm and V-belts from 6x4mm made of polyurethane.



original  
DESIGN

### Scope of delivery:

- 1 pc. Friction welding machine RS02
- 1 set standard profile jaws at your choice
- 1 pc. Torque wrench
- 1 pc. Scissors AS02
- 1 pc. Edge cutter SE02
- 1 pc. Carrying case with durable and predective foam inlay

**Dimension (HxWxD): 390 x 105 x 123 mm**  
**Weight: approx. 2450 g, Power: 500 W**

**Description**  
RS02, 230V

**Order No.**  
FBWRS02230V



**Tutorialvideo:**  
<https://youtu.be/7GhtkzLiiyl>

## RS02 AKKU

Battery-operated friction welding machine for polyurethane profiles for improved high-mobility maintenance.

### Features at a glance

- Same characteristics as RS02,  
but with the following distinguishing features:
- Cordless; battery-operated
  - Larger scope of delivery



original  
DESIGN

### Scope of delivery:

- 1 pc. Friction welding machine RS02 AKKU
- 1 set standard profile jaws at your choice
- 1 pc. Torque wrench
- 1 pc. Scissors AS04
- 1 pc. Edge cutter SE02
- 2 pcs. Battery pack
- 1 pc. Charger
- 1 pc. Assortment box
- 1 pc. Carrying case with durable and predective foam inlay

**Dimension (HxWxD): 390 x 105 x 123 mm**  
**Weight: approx. 2780 g, Power: 18 V 4Ah (72Wh)**

**Description**  
RS02 AKKU, 230V

**Order No.**  
FBWRS02A230

Charger



Battery pack



## Our Alu clamping jaw range

1 set of jaws consists of 4 parts

### Features at a glance

- Please note each belt profile requires a matching set of jaws.
- Therefore, please select the appropriate clamping jaws for the required profile geometry.
- **On request, we also manufacture clamping jaws for PU special profiles.**

### Round belts

|                                       |           |
|---------------------------------------|-----------|
| RS Clamping jaws round belt Ø 6,0 mm  | FBWSBR060 |
| RS Clamping jaws round belt Ø 6,3 mm  | FBWSBR063 |
| RS Clamping jaws round belt Ø 7,0 mm  | FBWSBR070 |
| RS Clamping jaws round belt Ø 7,9 mm  | FBWSBR079 |
| RS Clamping jaws round belt Ø 8,0 mm  | FBWSBR080 |
| RS Clamping jaws round belt Ø 9,0 mm  | FBWSBR090 |
| RS Clamping jaws round belt Ø 9,5 mm  | FBWSBR095 |
| RS Clamping jaws round belt Ø 10,0 mm | FBWSBR100 |
| RS Clamping jaws round belt Ø 12,0 mm | FBWSBR120 |
| RS Clamping jaws round belt Ø 12,5 mm | FBWSBR125 |
| RS Clamping jaws round belt Ø 12,7 mm | FBWSBR127 |
| RS Clamping jaws round belt Ø 13,0 mm | FBWSBR130 |
| RS Clamping jaws round belt Ø 14,0 mm | FBWSBR140 |
| RS Clamping jaws round belt Ø 14,3 mm | FBWSBR143 |
| RS Clamping jaws round belt Ø 15,0 mm | FBWSBR150 |
| RS Clamping jaws round belt Ø 15,9 mm | FBWSBR159 |
| RS Clamping jaws round belt Ø 17,0 mm | FBWSBR170 |
| RS Clamping jaws round belt Ø 18,0 mm | FBWSBR180 |
| RS Clamping jaws round belt Ø 19,0 mm | FBWSBR190 |
| RS Clamping jaws round belt Ø 20,0 mm | FBWSBR200 |



for round belts



for V-belts

### V-belts

|  |          |
|--|----------|
| RS Clamping jaws V-belt (Y) 6 x 4 mm   | FBWSBK06 |
| RS Clamping jaws V-belt (M) 8 x 5 mm   | FBWSBK08 |
| RS Clamping jaws V-belt (Z) 10 x 6 mm  | FBWSBK10 |
| RS Clamping jaws V-belt (A) 13 x 8 mm  | FBWSBK13 |
| RS Clamping jaws V-belt (B) 17 x 11 mm | FBWSBK17 |
| RS Clamping jaws V-belt (C) 22 x 14 mm | FBWSBK22 |

### V-belts special versions

|  |            |
|--|------------|
| RS Clamping jaws V-belt 8 x 6,5 mm         | FBWSBK8X65 |
| RS Clamping jaws V-belt 10 x 8 mm          | FBWSBK10X8 |
| RS Clamping jaws SuperGrip (Z) 10 x 6 mm   | FBWSBK10G  |
| RS Clamping jaws SuperGrip (A) 13 x 8 mm   | FBWSBK13G  |
| RS Clamping jaws SuperGrip (B) 17 x 11 mm  | FBWSBK17G  |
| RS Clamping jaws SuperGrip (C) 22 x 14 mm  | FBWSBK22G  |
| RS Clamping jaws (B) 17 x 11 for brush 90° | FBWSBK17B  |
| RS Clamping jaws (C) 22 x 14 for brush 90° | FBWSBK22B  |

### Rigde top V-belts

|                                     |             |
|-------------------------------------|-------------|
| RS Clamping jaws SK1 (B) 17 x 19 mm | FBWSBK17X19 |
| RS Clamping jaws SK1 (C) 22 x 24 mm | FBWSBK22X24 |

### Twin V-belts

|  |             |
|--|-------------|
| RS Clamping jaws Twin V-belt 21 x 8 mm       | FBWSBK21X8  |
| RS Clamping jaws Twin V-belt (Z) 24 x 6,8 mm | FBWSBK24X68 |
| RS Clamping jaws Twin V-belt 30 x 8 mm       | FBWSBK30X8  |

### T-Profiles

|  |             |
|--|-------------|
| RS Clamping jaws T-Profile 15 x 5 mm     | FBWSBST15X5 |
| RS Clamping jaws T-Profile 5 x 5 x 25 mm | FBWSBST5525 |

### Special profiles

|  |             |
|--|-------------|
| RS Clamping jaws Square profile 11,8 x 11,8 mm | FBWSBSQ118  |
| RS Clamping jaws U-Profile 18 x 11,8 mm        | FBWSBSU180  |
| RS Clamping jaws Prism V-belt 33 x 8 mm        | FBWSBS33X8  |
| RS Clamping jaws Peach profile 28 x 29 mm      | FBWSBS28X29 |

## FRICION WELDING TECHNOLOGY FOR PU

The unique friction welding machine RS02 is the professional tool for the maintenance operator and also the fastest and most reliable way of welding belt profiles. Constantly good quality connections are produced in a few seconds with repeatable accuracy due to fixed welding parameters.

Welding clamping jaws tuned to the respective profile ensure reliable clamping and perfect alignment of the profile.

Thanks to its handy type of construction, the friction welding machine can even be used in narrow space conditions for comfortable welding. The recently developed battery version is now available to ensure unlimited freedom of motion.

## USE

### Which profiles can be welded?

The RS02 friction welding machine can be used for butt welding of PU round belts with/without reinforcement from 6 to 20 mm and PU V-belts with/without reinforcement from 6 x 4 mm to 22 x 14 mm.

Still many other geometrical shapes and special profiles can be joined by means of special clamping jaws using this welding technology

### How does friction welding work?

Basically this welding technology uses the reciprocal coefficients of friction of the profile materials and thus effect fusion of the material in the joint under pressure and in executing a rotational movement. It is up to the user to decide when the process can be terminated when a welding bead has been produced all over the joint.

### What has to be observed to produce a proper weld?

Clamping jaws tuned to the respective geometry are required for reliable clamping of the profiles during this procedure.

Flat and angularly cut belt ends are an important prerequisite for this welding procedure to create optimum welding conditions and produce friction over the entire joint surface. For belt profiles with reinforcement it is required before welding, as usual, to drill out the reinforcement at the joint surfaces by some millimetres to prevent the reinforcement from crossing in the joint and consequently deterioration of the welded connection.

An exception is the patented weldable glass fibre reinforcement of BEHAbelt where this working step is unnecessary.



Tutorialvideo on YouTube

## HIGHLIGHTS

- **Mobile use** thanks to small design.
- Welding parameters defined by the speed and pressure.
- **TOP welding quality** thanks to welding results with repeatable accuracy.
- **Machine is immediately ready for use; no heating time required.**
- **High process mastery** with excellent repeat accuracy.
- **Reduction of the risk of accidents,** as no hot parts are involved.



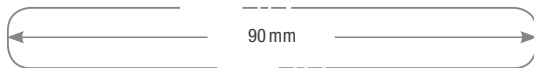


## Paddle lengths

### EERGO 60



### EERGO 90



## Scope of delivery:

- 1 pc. EERGO 60 oder 90
- 1 pc. Carrying bag

### EERGO 60

Dimensions: 185 x 210 x 55 mm (HxWxD)  
Weight: approx. 380 g, Power: 120 W

### EERGO 90

Dimensions: 185 x 240 x 55 mm (HxWxD)  
Weight: approx. 420 g, Power: 120 W

## Description

EERGO 60, 230V/60 mm  
EERGO 90, 230V/90 mm

## Order No.

FBWEE001  
FBWEE019

## EERGO 60 & 90

The BEHAbelt EERGO paddle welding tools were specially developed for the connection of PU and TPE profiles or flat belt strips.

## Features at a glance

- Strong, fiberglass-reinforced ergonomic housing.
- Unique control panel for one-handed operation.
- No adhesion of PU and TPE materials, thanks to Teflon-coated welding paddle.
- Easy cleaning with cloth.

## Highlights



Heating-up time: approx. 5 minutes.



Innovative safety rest for safe placement on the work surface.



Ergonomic design for a natural working position.



Easy to use temperature selector regulates correct temperature to weld PU or TPE profiles.



Constant welding temperature at different ambient temperatures.



## Spare parts

### Spare paddle EERGO 60

Order No. **FBWEE002**  
Dimensions (HxWxD): 43 x 65 x 6 mm



### Spare paddle EERGO 90

Order No. **FBWEE025**  
Dimensions (HxWxD): 43 x 95 x 6 mm



Tutorialvideo on YouTube

### EERGO-Set „small“ 60

**Professional welding set for small profiles:  
 Round belts up to 10mm and V-belts up to profile 10x6 (Z)**

- 1 pc. EErgo 60 paddle welding tool
- 2 pcs. Guide clamps FZ01
- 1 pc. Edge cutter SE02
- 1 pc. Scissors AS02 with stop
- 1 pc. Carrying bag small

### EERGO-Set Vario „small“ 60

**Professional welding set for small profiles:  
 Round belts up to 10mm and V-belts up to profile 10x6 (Z)**

- 1 pc. EErgo 60 paddle welding tool
- 1 pc. Guide clamp FZ01 Vario
- 1 pc. Edge cutter SE02
- 1 pc. Scissors AS02 with prism
- 1 pc. Carrying bag small



FZ01 Vario

### EERGO-Set „universal“ 60

**Professional welding set for small and big profiles:  
 round belts all sizes an V-belts up to profile 32 (D)**

- 1 pc. EErgo 60 paddle welding tool
- 2 pcs. Guide clamps FZ01
- 1 pc. Edge cutter SE02
- 1 pc. Scissors AS04 with stop
- 1 pc. Guide clamp FZ02/3
- 1 pc. Carrying bag big

### EERGO-Set Vario „universal“ 60

**Professional welding set for small and big profiles:  
 round belts all sizes an V-belts up to profile 32 (D)**

- 1 pc. EErgo 60 paddle welding tool
- 1 pc. Guide clamp FZ01 Vario
- 1 pc. Edge cutter SE02
- 1 pc. Guide clamp FZ02/3
- 1 pc. Scissors AS04 with stop
- 1 pc. Carrying bag big



FZ01 Vario



**Description**

EErgo-Set „small“ 230V / 60 mm  
 EErgo-Set Vario „small“ 230V / 60 mm

**Order No.**

FBWEE003  
 FBWEE011



**Description**

EErgo-Set „universal“ 230V / 60 mm  
 EErgo-Set Vario „universal“ 230V / 60 mm

**Order No.**

FBWEE004  
 FBWEE014



**Polyurethane PU 290 °C**  
**Polyester TPE 240 °C**

**Continuously  
temperature control**

## Multi TC

BEHAbelt Multi TC is the proven continuously adjustable paddle welding tool for polyurethane and polyester.

### Features at a glance

- Easy and safe handling.
- Very fast heating-up period.
- Variable temperature setting through adjusting wheel.
- Continuous welding temperature through temperature control even at long-term operation.
- LED display for signal of optimum welding temperature.
- Teflon coated welding paddle.
- Easy cleaning with cloth.

### Scope of delivery:

1 pc. Multi TC welding tool  
Temperature-controlled welding tool for two  
temperature ranges: PU 290 °C / Polyester 240 °C

Dimensions: 295 x 35 x 25 mm (HxWxD)  
Weight: approx. 250 g  
Heating time: approx. 5 Min.  
Temperature range: continuously 200...300 °C  
Power: 75 W

**Description**  
Multi TC 230 V

**Order No.**  
FBWMTC230



## Spare parts

### Spare paddle Multi TC

Order No. **FBWMTC1**  
Dimensions (HxWxD): 35 x 35 x 2 mm



### Spare paddle Multi TC for flat belts

Order No. **FBWMTC2**  
Dimensions (HxWxD): 25 x 70 x 2 mm





## SG02 / SG03

The cost-effective welding technology.

SG02 for PU  
SG03 for TPE

### Features at a glance

- Easy and safe operation.
- Fixed, unregulated temperature setting.
- Reaches the welding temperature after approx. 10 min.
- Small, convenient and tough welding tool.
- No adhesion of PU and TPE materials, thanks to Teflon-coated welding paddle.
- Easy to clean with a cotton cloth.

**Caution!** Not suitable for continuous use.



### Scope of delivery:

1 pc. SG02 welding tool  
for Polyurethane (PU) 280 - 290 °C

or

1 pc. SG03 welding tool  
for Polyester (TPE) 225 - 240 °C

Dimensions: 280 x 33 x 33 mm (HxWxD)

Weight: approx. 227 g

Heating time: approx. 10 Min.

Power: 80W (SG02); 40W (SG03)

### Description

SG02 PU – 230 V

SG03 TPE – 230 V

### Order No.

FBWSG02

FBWSG03

## Spare parts

### Spare paddle SG02 or SG03

Order No. **FBWTC72**

Dimensions (HxWxD): 35 x 35 x 2 mm



### Spare paddle SG02 or SG03 for flat profiles

Order No. **FBWTC76**

Dimensions (HxWxD): 22,5 x 75 x 2 mm



# Guiding clamps



For 90° welding

Dimensions (HxWxD):  
205 x 90 x 100 mm  
Weight: approx. 617 g



Example for special profile  
adapter insert

## Description

Guiding clamp FZ02/3  
incl. Standard adapter insert  
Adapter insert for special profiles

## Order No.

FBWFZ02/3  
FBWFZ020T00



Tutorialvideo on YouTube

## FZ02/3

### Guiding clamp FZ02/3 Standard

Robust and accurate for V-belts up to profile 32 (D)  
and round belts from  $\varnothing$  8 mm.

### Adapter inserts for special profiles

Existing Geometries in mm: 12,5x5, 15x5, 16x8, 18x6,  
24x6,8, 25x5, 30x8, 38x2, 6x4x9, 21x8, 28x10, flat profiles,  
square profiles, U-profiles, T-Profiles 10x6, 28x10.  
Other geometries on request.



Recommended for use with EErgo 60



For 90° welding

Dimensions: 205 x 90 x 100 mm (HxWxD)  
Weight: approx. 617 g

## Description

Guiding clamp FZ02/3F  
Adapter insert for special profiles

## Order No.

FBWFZ02/3F  
FBWFZ020T00



Tutorialvideo on YouTube

## FZ02/3F

### Guiding clamp FZ02/3F for flat belts

Robust and accurate for flat profiles.  
Width max. 80 mm and Height 1,6 - 5 mm.



Recommended for use with EErgo 90

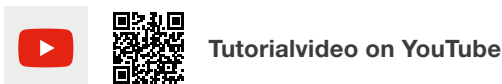
## FZ01 Vario

**Guiding clamp FZ01 Vario metal can be assembled in two operating modes. With and without handle!**

Convenient and tough for round belts up to  $\varnothing$  10 mm and V-belts up to profile 10 (Z).  
 Exchangeable profile jaws allow custom profiles to be spliced easily.

### Highlights

- Fast, reliable and exceptionally precise connecting of PU and TPE profiles.
- Special inserts for: PJ2, PJ3 and PJ4 ribbed V-belts.
- Your choice for standard and customized profiles!



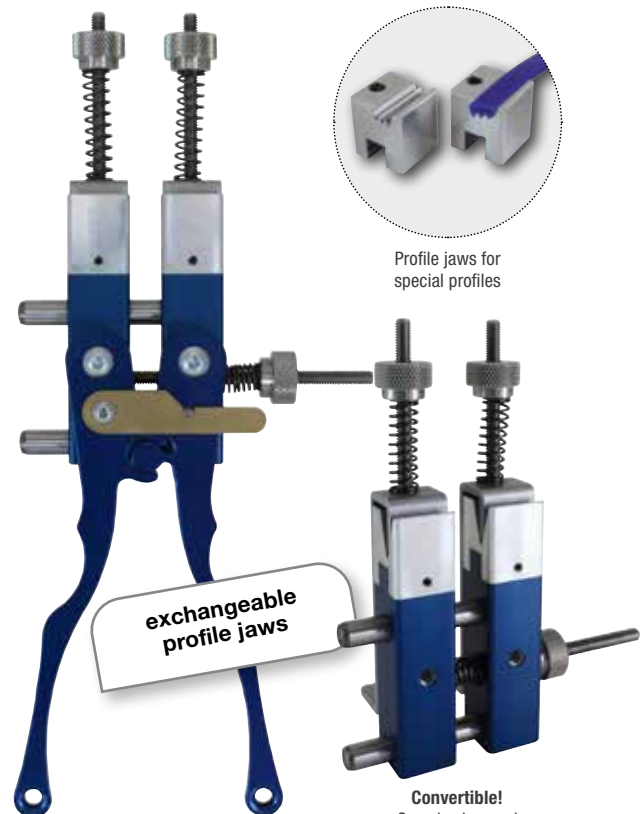
Quick clamp device for inserting the profiles in exchangeable profile jaws.



Automatic unlocking starts off lateral pressure.



Precise welding thanks to constant pressure.



Dimensions: 240 x 125 x 50 mm  
 140 x 195 x 50 mm without handle  
 Weight: approx. 365 g  
 approx. 320 g without handle

**Description**  
 FZ01 Vario  
 Profile jaws PJ2/PJ3/PJ4  
 Profile jaws T-Profile 10x4,5  
 Profile jaws T-Profile 9,5x3,5

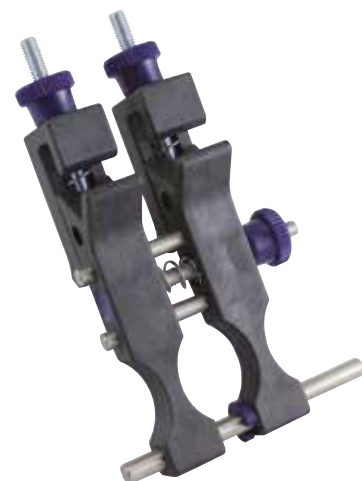
**Order No.**  
**FBWFZ01V**  
**FBWPBJ2-4**  
**FBWPBT10x45**  
**FBWPBT95x35**

## FZ01

**Handy and lightweight guiding clamp for round belts up to  $\varnothing$  10 mm and V-belts up to profile 10 (Z).**

### Highlights

- Fast, reliable and exceptionally precise connecting of PU and TPE profiles.
- Your choice for standard profiles!



Dimensions: 127 x 70 x 35 mm  
 Weight: approx. 140 g

**Description**  
 Guiding clamp FZ01

**Order No.**  
**FBWFZ01**



Heating plate dimensions: 120 x 60 mm

### Scope of delivery:

1 pc. Hot press HP01 AIR, 1 pc. PPuls Controller Element,  
1 pc. Edge cutter SE02, 1 pc. Screw driver,  
1 pc. Scissors AS04, 1 pc. Aluminium case

**Dimensions (HxWxD): 240 x 167 x 200 mm**

**Weight: approx. 4800 g**

### Description

Standard Set HP01 /Air cooling, 230V

### Order No.

**FBWHP011L230**

## HP01 AIR

HP01 AIR is the air-cooled version of the hot press and offers mobility thanks to its compact design.

### Features at a glance

- Very easy to use.
- Reduces operator errors through a fully automatic and controlled welding and vulcanization process.
- Thanks to its exchangeable moulds the HP01 is suitable for splicing many different profiles and flat belts made of PU and TPE as well as timing belts.
- User friendly operation through self-explanatory menu of controller (no expertise required).
- Perfect welding within minutes.
- Temperature variation is never a concern (no guesswork).
- Real time data logging & diagnostics function for quality assurance of the splice.
- Different types of welds possible (overlap welds, butt welds and angle welds).
- Due to its small size and the hook for hanging up the press during the welding process, the HP01 can be used in confined spaces "on-site".
- Best welding solution for reinforced profiles (aramid, polyester and steel) through overlap welding.



Tutorialvideo on YouTube

## HP01 WATER

HP01 WATER is the water cooled version of the hot press and offers higher cooling capacity.

### Features at a glance

Same characteristics as HP01 AIR, but with the following distinguishing features:

- Higher cooling capacity
- Cooling drum included in scope of supply
- Could also be cooled with compressed air



### Description

Standard Set HP01/water cooling, 230 V

### Order No.

**FBWHP011W230**

### Scope of delivery:

1 pc. hot press HP01 WATER, 1 pc. Cooling unit 6,4 l with pump, 1 pc. PPuls Controller Element,  
1 pc. Edge cutter SE02, 1 pc. Screw driver,  
1 pc. Scissors AS04, 1 Set Connecting hoses,  
1 pc. Aluminium case

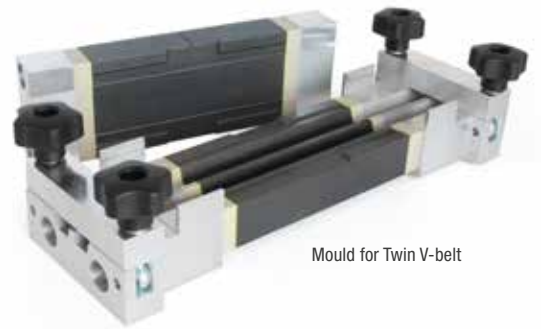


Shaft for HP01 to use with torque wrench available as accessory

**FBWHPSD12**

## Standard moulds for HP01 Hotpress

Moulds for PU and TPE round- and V-belts.  
Other dimensions on request.



Mould for Twin V-belt

### Round belts

|                 |          |
|-----------------|----------|
| Mould Ø 6,0 mm  | FBWFS060 |
| Mould Ø 6,3 mm  | FBWFS063 |
| Mould Ø 7,0 mm  | FBWFS070 |
| Mould Ø 8,0 mm  | FBWFS080 |
| Mould Ø 9,5 mm  | FBWFS095 |
| Mould Ø 10,0 mm | FBWFS100 |
| Mould Ø 12,0 mm | FBWFS120 |
| Mould Ø 12,5 mm | FBWFS125 |
| Mould Ø 14,3 mm | FBWFS143 |
| Mould Ø 15,0 mm | FBWFS150 |
| Mould Ø 18,0 mm | FBWFS180 |
| Mould Ø 20,0 mm | FBWFS200 |

### V-belts

|                    |              |
|--------------------|--------------|
| Mould (Z) 10x6 mm  | FBWFS100X060 |
| Mould (A) 13x8 mm  | FBWFS130X080 |
| Mould (B) 17x11 mm | FBWFS170X110 |
| Mould (C) 22x14 mm | FBWFS220X140 |

### V-belt special version

|                                 |              |
|---------------------------------|--------------|
| Mould 8x6,5 mm vaulted top      | FBWFS080X065 |
| Mould 10x8 mm                   | FBWFS100X080 |
| Mould 16,35x11,3 mm (bluepower) | FBWFS163X113 |
| Mould 17x11,3 mm (bluepower)    | FBWFS170X113 |

### Timing belts (width max. 50 mm)

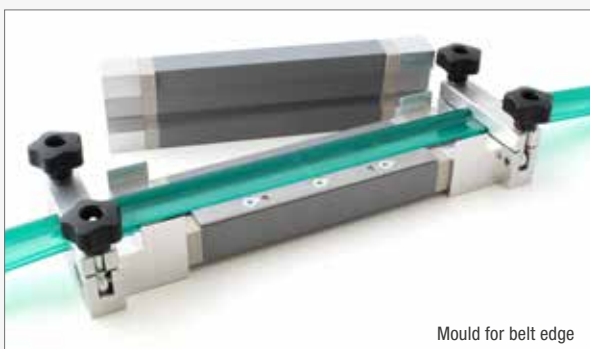
|   |             |
|---|-------------|
| Mould for timing belt HTD5              | FBWFZHTD5MN |
| Mould for timing belt HTD8              | FBWFZHTD8MN |
| Mould for timing belt T5                | FBWFZT5N    |
| Mould for timing belt T10               | FBWFZT10N   |
| Mould for timing belt AT5               | FBWFZAT5N   |
| Mould for timing belt AT10              | FBWFZAT10N  |
| Mould for timing belt AT20              | FBWFZAT20N  |
| Mould for timing belt H (B: 50,8 mm/2") | FBWFZH0     |
| Mould for timing belt L (B: 50,8 mm/2") | FBWFZL0     |
| Mould for timing belt RPP 8M            | FBWFZRPP8MN |



Mould for timing belt

### Belt edge special version

|                |            |
|----------------|------------|
| Mould 14x28 mm | FBWFS14X28 |
|----------------|------------|



Mould for belt edge



We would be happy to check the realisation for your belt edge profile.

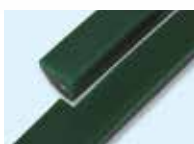
Belt edge profiles can be found on page 83.





## SH01

Designed to accurately cut and prepare reinforced profiles for overlap welding with the BEHAbelt HP01 hot press.



Before overlap welding



After overlap welding

### Scope of delivery

- 1 pc. Belt cutter SH01
- 1 pc. Screwdriver
- 1 pc. Profile adapter at your choice
- 1 pc. End wrench
- 1 set Washers

### Adapters available for the following profiles:

- Round belts  $\varnothing$  6,0 - 20,0 mm
- V-belts 13 x 8 (A), 17 x 11 (B), 22 x 14 (C), bluepower

**Dimensions (HxWxD): 200 x 80 x 45 mm**

**Weight: approx. 1,3 kg**

### Description

Belt cutter SH01  
with 1 profile adapter at your choice

### Order No.

**FBWSH1**

### Profile adapters for round belts

| Order No.  | Description                     | Dimensions (mm)    |
|------------|---------------------------------|--------------------|
| FBWSH1R060 | Profile adapter for round belts | $\varnothing$ 6,0  |
| FBWSH1R063 | Profile adapter for round belts | $\varnothing$ 6,3  |
| FBWSH1R080 | Profile adapter for round belts | $\varnothing$ 8,0  |
| FBWSH1R095 | Profile adapter for round belts | $\varnothing$ 9,5  |
| FBWSH1R100 | Profile adapter for round belts | $\varnothing$ 10,0 |
| FBWSH1R120 | Profile adapter for round belts | $\varnothing$ 12,0 |
| FBWSH1R125 | Profile adapter for round belts | $\varnothing$ 12,5 |
| FBWSH1R150 | Profile adapter for round belts | $\varnothing$ 15,0 |
| FBWSH1R180 | Profile adapter for round belts | $\varnothing$ 18,0 |
| FBWSH1R200 | Profile adapter for round belts | $\varnothing$ 20,0 |

### Formnester für Keilriemen

| Order No.   | Description                                      | Dimensions (mm) |
|-------------|--|-----------------|
| FBWSH1K10   | Profile adapter for V-belts                      | 10 x 6 (Z)      |
| FBWSH1K13   | Profile adapter for V-belts                      | 13 x 8 (A)      |
| FBWSH1K17BP | Profile adapter for V-belts bluepower            | 17 x 11,3       |
| FBWSH1K17   | Profile adapter for V-belts                      | 17 x 11 (B)     |
| FBWSH1K22   | Profile adapter for V-belts                      | 22 x 14 (C)     |
|             | Profile adapters for special profiles on request |                 |



Profile adapter for round belts



Profile adapter for V-belts

## Joining Set CRIMP\* - for steel reinforced profiles

The new and improved CRIMP connection supports you to achieve perfect results when connecting belts with steel reinforcement.



### Canning industry: Crimp Connection

A special design is the connection of belts with steel reinforcement. Here, the exposed reinforcement is connected with press sleeves and the resulting gap in the connection point is then filled again with material inserts/welding sleeves. Using a profile mould and a hot press, the splice zone is then filled up and welded by pressure and temperature to the rest of the belt.

Our RH-2 joining set is available for this purpose and provides you with the complete equipment and material for creating such a splice.



Tutorialvideo on YouTube



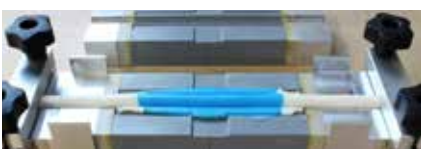
**1**  
Join exposed reinforcement  
with press sleeves



**2**  
Fill the gap with  
material inserts



**3**  
Positioning of the unwelded  
splice into the mould



**4**  
Profile joined by  
hot press



Carrying bag



CU crimps



Inner outer welding sleeves



Cable stripper cutter  
for can cable



Stripping hook for can cable



Crimping tool RH-2

### Scope of delivery CRIMP-Set RH-2

- 1 pc. Carrying bag
- 1 pc. Crimping tool RH-2
- 1 pc. Cable stripper
- 1 pc. Stripping hook
- 3m respectively polyester sleeves (outside/inside)
- 100 pcs. CU crimps

### Description

Crimp-Set RH-2  $\varnothing$  9,5 mm  
Crimp-Set RH-2  $\varnothing$  10 mm  
Crimp-Set RH-2  $\varnothing$  12 mm  
Crimp-Set RH-2  $\varnothing$  12,5 mm

**Order No.**  
FBWRH2SET095  
FBWRH2SET100  
FBWRH2SET120  
FBWRH2SET125

\* Ferrules

## GENERAL

This welding technology provides perfect process control with the BEHbelt HP01 hot press especially developed for belt profiles and the associated PPuls Element temperature control for sophisticated industrial production of a welded connection.

Thanks to the small design and a number of smart design details this hot press is perfectly suitable for on-site use and in confined spaces. The unit can be made upon request of the customer as a water or air cooled version.

HP01 is the best choice for the best welding results in particular for the production of overlap welds of belt profiles.

## USE

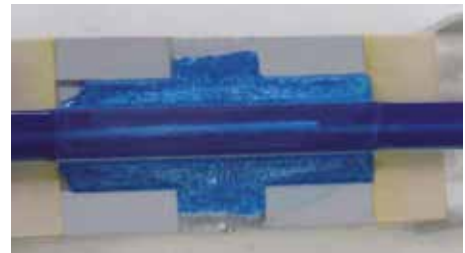
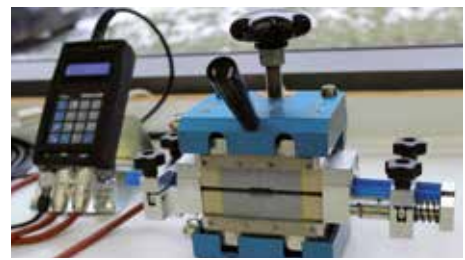
### Overlap joints

HP01 is particularly well suited for the production of butt and overlap welds for round and V-belts with a diameter from 6 to 20 mm and for V-belts from 6x4 to 22x14 mm. A suitable mould is used to press the splice under temperature and pressure influence thus producing a firm connection.

For overlap welding, a preparatory work step is required to prepare the welding point by cutting the belt to size. For this purpose the special cutting aid SH01 has been developed which ensures precise preparation for welding in repeatable accuracy. The overlap weld thus achieves the strength of approx. 50% of the reinforcement used. Overlap welding always results in a stiff welding area and therefore it is required to consider this fact when selecting the minimum pulley diameter.

### Timing belts and flat belts

Hot press HP01 also offers a further additional benefit with regard to the option of welding timing belts and flat belts up to the max. width of 50 mm in using appropriate moulds. The respective mould delivery program is available. Punching technology for preparation of the connection is not available.



**Moulds also available for flat belts and timing belts!**



Tutorialvideo on YouTube



## FZ03/1 & EErgo Z

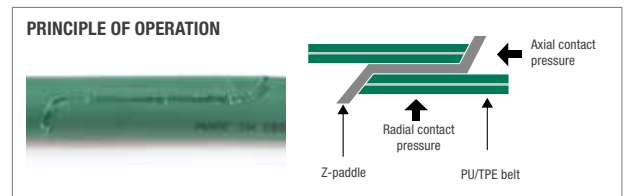
Overlap welding set consisting of guide unit and EErgo Z

### Product features FZ03/1

- Professional and easy to use guide clamps for overlap welding of reinforced profiles.
- Completely tool-free adjustment of the welding position for welding with Z-paddle.
- Uniform contact pressure over the entire welding surface of the profile for perfect welding quality
- Application range for round belts from 6-20mm and for V-belts from 8x5mm to 32x20mm.
- Safe handling with high repeat accuracy of the welding position thanks to toggle lever.
- Scope of delivery includes assembly option with table mounting and vice.
- Unique contact pressure in radial and axial alignment!

### Product features EErgo-Z

- Robust, fibreglass-reinforced and ergonomic handle.
- Special Z-paddle for overlap welding with guide clamp FZ03/1.
- Correct temperature setting thanks to predefined buttons per welding material (PU 280 °C / Polyester 240 °C).
- Precise and stable temperature control for avoidance of temperature fluctuations under different welding conditions
- No adhesion of PU and TPE material thanks to Teflon-coated welding paddle
- Matching magnetic storage stand for safe storage of the welding paddle even when welding in the system



Compact guide unit for overlap welding by means of Z-paddle with vertical and horizontal contact pressure



Hot paddle welding tool EErgo with Z-paddle

## Spare parts

### Spare paddle EERGO-Z

Order No. **FBWEE024**

Dimensions (WxDxH):  
approx. 100 x 65 x 6 mm



### Scope of delivery:

1 pc. Set FZ03/1 (consisting of: FZ03/1, EErgo Z, Storage stand with magnetic base, AS04, SE02, 1 set of Clamping pieces of your choice, table mounting, Carrying case, Instruction manual)

#### Description

FZ03/1 Set  
8,0 kg, approx. 550 x 210 x 350 mm (WxDxH)

#### Order No.

**FBWFZ03/1A**

EErgo-Z  
450 g, approx. 210 x 210 x 55 mm (WxDxH)  
Power: 240 W

**FBWEE026**

FZ03/1 Guide Unit  
3,3 kg, approx. 210 x 250 x 70 mm (WxDxH)

**MBWFZ03/1A**

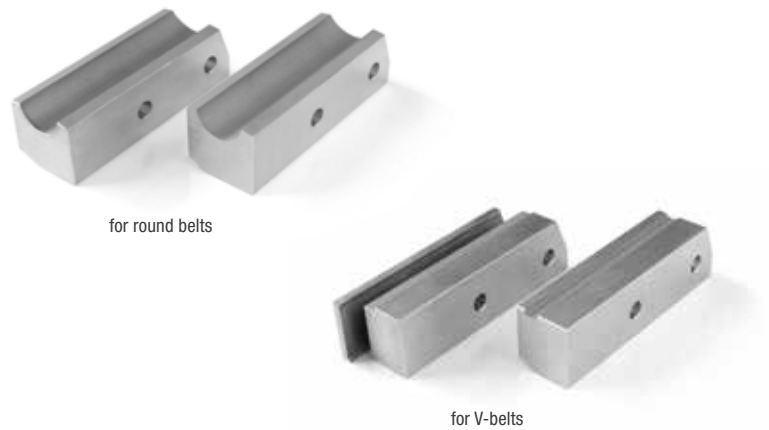
# Overlap welding set with EErgo-Z

## Clamping pieces for FZ03/1

1 set of clamping pieces consists of 2 parts

### Features at a glance

- Please note each belt profile requires a matching set of clamping pieces.
- Therefore, please select the appropriate clamping pieces for the required profile geometry.
- **On request, we also manufacture clamping pieces for PU special profiles.**



### Round belts

|                                     |            |
|-------------------------------------|------------|
| Clamping piece for FZ03/1 Ø 6,0 mm  | FBWKS1R060 |
| Clamping piece for FZ03/1 Ø 6,3 mm  | FBWKS1R063 |
| Clamping piece for FZ03/1 Ø 7,0 mm  | FBWKS1R070 |
| Clamping piece for FZ03/1 Ø 7,9 mm  | FBWKS1R079 |
| Clamping piece for FZ03/1 Ø 8,0 mm  | FBWKS1R080 |
| Clamping piece for FZ03/1 Ø 9,5 mm  | FBWKS1R095 |
| Clamping piece for FZ03/1 Ø 10,0 mm | FBWKS1R100 |
| Clamping piece for FZ03/1 Ø 12,0 mm | FBWKS1R120 |
| Clamping piece for FZ03/1 Ø 12,5 mm | FBWKS1R125 |
| Clamping piece for FZ03/1 Ø 12,7 mm | FBWKS1R127 |
| Clamping piece for FZ03/1 Ø 13,0 mm | FBWKS1R130 |
| Clamping piece for FZ03/1 Ø 14,0 mm | FBWKS1R140 |
| Clamping piece for FZ03/1 Ø 14,3 mm | FBWKS1R143 |
| Clamping piece for FZ03/1 Ø 15,0 mm | FBWKS1R150 |
| Clamping piece for FZ03/1 Ø 15,9 mm | FBWKS1R159 |
| Clamping piece for FZ03/1 Ø 17,0 mm | FBWKS1R170 |
| Clamping piece for FZ03/1 Ø 18,0 mm | FBWKS1R180 |
| Clamping piece for FZ03/1 Ø 19,0 mm | FBWKS1R190 |
| Clamping piece for FZ03/1 Ø 20,0 mm | FBWKS1R200 |

### V-belts

|  |           |
|--|-----------|
| Clamping piece for FZ03/1 (M) 8x5 mm   | FBWKS1K8  |
| Clamping piece for FZ03/1 (Z) 10x6 mm  | FBWKS1K10 |
| Clamping piece for FZ03/1 (A) 13x8 mm  | FBWKS1K13 |
| Clamping piece for FZ03/1 (B) 17x11 mm | FBWKS1K17 |
| Clamping piece for FZ03/1 (C) 22x14 mm | FBWKS1K22 |
| Clamping piece for FZ03/1 (D) 32x20 mm | FBWKS1K32 |



In the upper part of the transport bag there is a generally usable space for the side cutter SE02 and free compartments for 9 optional clamping piece pairs.



Robust transport case for the overlap welding set FZ03/1.

## HS400 & 800

Specially developed hot paddles for butt welding of conveyor belts. The design of the welding device allows easy and professional handling.

### Product features

- HS400 for up to 400 mm belt width
- HS800 for up to 800 mm belt width
- Sophisticated design with positioning aids and stoppers ensures highly repeatable accuracy of weldings
- Clamping lever with locking device
- Robust and handy design of the individual components
- Exact temperature adjustment via control unit
- No adhesion of PU or TPE material due to Teflon-coated heating paddle
- Easy cleaning of the heating blade with a cotton cloth
- Reduced risk of injury during cutting due to practical cutting device
- Welding unit delivered in a mobile, stable transport box for easy use on site
- Smallest weldable belt length  $L_f = 800$  mm



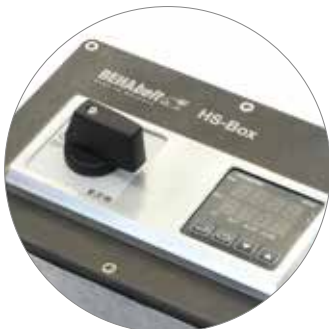
### HS400S / HS800S

Special design for short belt lengths from  $L_f = 500$ mm



### Scope of delivery:

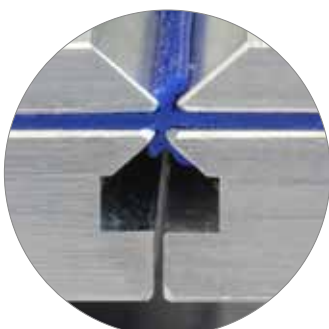
- 1 pc. HS 400-Set (consisting of HS-BOX, HS400, FT400, Bead remover, insert-bar and transport case 400)
- 1 pc. HS 800-Set (consisting of HS-BOX, HS800, FT800, Bead remover, insert-bar and transport case 800)



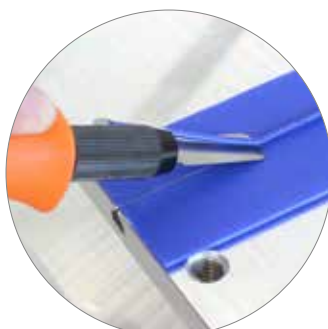
Robust and easy to use control unit for temperature control



Insert bar for repeatable welds



Clamping bars with chamfer for optimum shaping of the welding bead



Easy removal of the welding bead with the supplied tool

### Description

HS400 Welding set in case  
35,0 kg, approx. 50 x 95 x 30 cm (BxLxH)

HS800 Welding set in case  
48,0 kg, approx. 50 x 135 x 30 cm (BxLxH)

Order No.  
**FBWHS400**

**FBWHS800**

### Individual components:

HS BOX (Control unit for HS400/800)  
1,2 kg, approx. 18 x 20 x 15 cm (WxLxH)  
Power: max. 3,2 kW / 230V AC

**FBWHSB01**

HS400 (Heating paddle 400mm)  
1,2 kg, approx. 8 x 60 x 17 cm (WxLxH)  
Power: 2,3 kW / 230 V AC

**FBWHS400S01**

HS800 (Heating paddle 800mm)  
1,7kg, approx. 8 x 100 x 17 cm (WxLxH)  
Power: 3,2 kW / 230 V AC

**FBWHS800S01**

HS400S (Heating paddle 400mm)  
1,2 kg, approx. 8 x 60 x 17 cm (WxLxH)  
Power: 2,3 kW / 230 V AC

**FBWHS400S02**

HS800S (Heating paddle 800mm)  
1,7kg, approx. 8 x 100 x 17 cm (WxLxH)  
Power: 3,2 kW / 230 V AC

**FBWHS800S02**

FT400 (Joining table for HS400)  
12,5 kg, approx. 28 x 55 x 20 cm (WxLxH)

**FBWHS400FT01**

FT800 (Joining table for HS800)  
20,0 kg, approx. 28 x 95 x 20 cm (WxLxH)

**FBWHS800FT01**



## WELDING TECHNOLOGY FOR ELASTIC MONOLITHIC BELTS

Elastic monolithic PU conveyor belts from BEHAbelt offer new fabrication possibilities. Due to the lack of traction layers joining by finger welding is no longer necessary, as the monolithic belt has a homogeneous design – even in the weld seam.

The welding device HS from BEHAbelt is a simple, handy, reliable and cost-effective tool for butt joining of monolithic belts. Depending on customer requirements, two versions are available with the joining table and heating paddle for max. belt widths up to 400 and up to 800 mm.

The simple operation in combination with the intuitive production aids enables a repeatable and high-quality connection of the belts.

Optional adapter plates ensure precise positioning and clamping of the butt ends to be welded.



Compact and mobile: the practical HS welding tool for monolithic conveyor belts

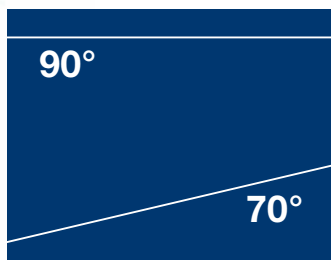
Angle to straight (90°) and bias (70°) cutting of the belts directly in the welding unit (included in the scope of delivery).



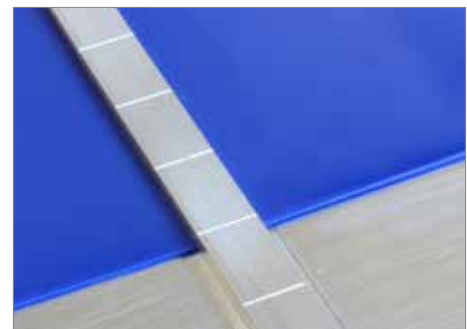
Tutorialvideo on YouTube



Robust aluminium bars support (70° and 90°) the precise insertion of the belt ends and ensures a high repeat accuracy (included in the standard scope of delivery).



Straight weld with 90° and angled joint with 70° (e.g. for check weighers)



Precise and aligned insertion of the belt ends.

### Adapter plates for HS400 & 800

|                              |            |
|------------------------------|------------|
| Adapter plates Spike (HS400) | FBWHS4APSP |
| Adapter plates Spike (HS800) | FBWHS8APSP |
| Adapter plates AT5 (HS400)   | FBWHS4APT5 |
| Adapter plates AT5 (HS800)   | FBWHS8APT5 |



For optimum alignment and clamping of the belts to be welded in the joining table, optional adapter plates for more complex structures are available (not included in the standard product range).



Locking pins ensure the correct positioning of the adapter plates on the joining table.



### RS02 Adapter

Clamping jaw adapter aluminium for friction welding machines RS02 and RS02 CORDLESS

**Description**  
RS02-Adapter Alu

**Order No.**  
FBWAPRS02A



### O-Rings for RS02-Adapter & clamping jaws

O-rings for fixing the clamping jaws and adapters in RS02 and RS02 CORDLESS

black, rubber, suitable for all RS clamping jaws and adapters

**Description**  
O-Rings for clamping jaws (10 pcs.)

**Order No.**  
MNORING01



### Assortment box

Assortment box for clamping jaws for RS02 / RS02 CORDLESS

with 9 pockets, transparent Box

**Description**  
Assortment box

**Order No.**  
FBWSORT9



### Hexagon wrench

for RSX01 Mandrel Welder

For loosening the clamping jaws on the RSX01 Mandrel Welder. Plug-in dimension 7 mm

**Bezeichnung**  
Hexagon wrench

**Best.-Nr.**  
FBWSW7X125



### Hexagon torque wrench

RS Hexagon torque wrench 7 / 5 Nm

**Description**  
Hexagon torque wrench

**Order No.**  
FBWSW7/5NM



### Protective cap for clamping lever RS02

For external thread of clamping lever on RS02 and RS02 CORDLESS

**Description**  
Protective cap for clamping lever

**Order No.**  
MFKKB01



### Battery for RS02 CORDLESS

Spare battery for friction welding machine RS02 CORDLESS 18V / 4Ah (72Wh)

**Description**  
RS02 Battery

**Order No.**  
FBWRS02AK18V



### Charging unit for RS02 CORDLESS

Charging unit 4A / 230V for RS02 CORDLESS

**Description**  
LG4A Charging unit

**Order No.**  
FBWRS02LG4A2



## EM01 Deburring knife set and spare blades

Knife for removing the welding bead from conveyor belts incl. various replacement blades

|                        |                    |
|------------------------|--------------------|
| <b>Description</b>     | <b>Order No.</b>   |
| Deburring knife Set    | <b>FBWEM001</b>    |
| Spare blades (10 pcs.) | <b>FBWEM001B12</b> |
| B 12 mm                |                    |



## SH01 Spare blade

Spare blade for belt cutter SH01

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| SH01 spare blade   | <b>MBREKSH01</b> |



## AS02

Scissors small with stop

90° cut for round belts up to Ø 12 mm.

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| AS02               | <b>FBWAS02</b>   |



## AS03

Scissors big with stop

For 90° cut and angle cut.

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| AS03               | <b>FBWAS03</b>   |



## AS04

Scissors big with angular stop (movable)

Scissors with movable angular stop  
For 45°, 60°, 75°, 90°, 105°, 120° and 135° cuts.

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| AS04               | <b>FBWAS04</b>   |



## SE02

Edge cutter with special blade

to remove the welding bead accurately.

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| SE02               | <b>FBWSE02</b>   |



## SZ01

Pliers for fitting connectors

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| SZ01               | <b>FBWSZ01</b>   |



## Ratched cutter

For cutting very hard plastics e.g. PP, Nylon (PA), TPX, TPEE

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| Mandrel Scissors   | <b>FBWRCM01</b>  |



### Paddle (MultiTC)

Spare paddle for welding tool „MultiTC“

Dimensions (HxWxD):  
35 x 35 x 2 mm

**Description**                      **Order No.**  
Spare paddle MultiTC              **FBWMTC1**



### Paddle (MultiTC)

Spare paddle for flat profiles for welding tool „MultiTC“

Dimensions (HxWxD):  
25 x 70 x 2 mm

**Description**                      **Order No.**  
Spare paddle MultiTC              **FBWMTC2**



### Paddle (SG02/03)

Spare paddle for welding tools „SG02/03“

Dimensions (HxWxD):  
35 x 35 x 2 mm

**Description**                      **Order No.**  
Spare paddle SG02/03              **FBWTC72**



### Paddle (SG02/03)

Spare paddle for flat profiles for welding tools „SG02/03“

Dimensions (HxWxD):  
22,5 x 75 x 2 mm

**Description**                      **Order No.**  
Spare paddle SG02/03              **FBWTC76**



### Paddle (EErgo 60)

Spare paddle for welding tool „EErgo 60“

Dimensions (HxWxD):  
43 x 60 x 6 mm

**Description**                      **Order No.**  
Spare paddle EErgo 60              **FBWEE02**



### Paddle (EErgo 90)

Spare paddles for flat profiles for welding tool „EErgo 90“

Dimensions (HxWxD):  
43 x 90 x 6 mm

**Description**                      **Order No.**  
Spare paddle EErgo 90              **FBWEE025**



### Paddle EErgo-Z

Spare paddle Z for paddle welding tool „EErgo“

Dimensions (WxDxH):  
approx. 100 x 65 x 6 mm

**Description**                      **Order No.**  
Spare paddle EErgo-Z              **FBWEE024**



### EErgo protection kit

Combustion protection for stationary operation

Consisting of holder and metal housing

**Description**                      **Order No.**  
EErgo Metal housing              **FBWEEZ001**  
EErgo Holder                      **FBWEEZ002**



### KS75

Bench vise with ball joint for paddle welding tools

Fix your welding tool to facilitate stationary joining of the belt profiles easier.

**Description**                      **Order No.**  
KS75                                  **FBWKS75**



### Storage Stand

Storage stand with magnetic base for placing of EErgo welding tool

Note: EErgo not included in scope of delivery

**Description**                      **Order No.**  
Storage stand with magnetic base              **FBWEEZ003**



## Carrying bags

„M“: 28 x 29 x 5 mm  
„XL“: 30 x 24 x 11 mm

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| Carrying bag „M“   | FCT000000002     |
| Carrying bag „XL“  | FCT000000003     |



## Stripping hook for can cable

For processing the CRIMP connection; for pulling off the profile around the steel tension member

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| Stripping hook     | FBWAH01          |



## Cable stripper cutter for can cable

90° cut for round belts with steel reinforcement up to  $\varnothing$  12 mm.

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| Cable stripper     | FBWAW01          |



## Cutting adapter HS

For cutting the belts directly in the HS400/800 welding unit. For 70° and 90° butt welding.

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| Cutting adapter    | FBWHSSA01        |



## Special heating paddle HS400S/800S

Special design for welding belt lengths from Lf = 500mm

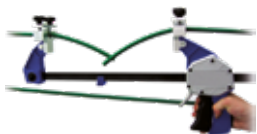
|                       |                  |
|-----------------------|------------------|
| <b>Description</b>    | <b>Order No.</b> |
| HS400S Heating paddle | FBWHS400S02      |
| HS800S Heating paddle | FBWHS800S02      |



## FZ01 knurled nut

Plastic or metal replacement nut (M5)

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| FZ01 nut plastic   | MDFZ01001        |
| FZ01 nut metal     | MDFZ01002        |



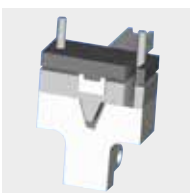
## RSH01 & RSH02

**Belt tensioner for tensioning of round and V-belts**

RSH01 450 mm (18") tensioning distance, suitable to >1m belt length.

RSH02 900 mm (35") tensioning distance, suitable to >2m belt length.

|                    |                  |
|--------------------|------------------|
| <b>Description</b> | <b>Order No.</b> |
| RSH01 (450mm)      | FBWRSH01         |
| RSH02 (900mm)      | FBWRSH02         |





## JOINING TOOLS FOR MANDRELS IN HOSE MANUFACTURING

BEHA Mandrel Welders are specially developed for welding mandrels made of PP, nylon (PA), TPEE and TPX. They are characterised by fast and error-free operation as well as simple and ergonomic handling.

More informationen: [www.mandrel-welder.com](http://www.mandrel-welder.com)



### RSX01

With the RSX01 Mandrel welder, mandrels can be welded quickly and precisely. The welding parameters are optimally matched to the common materials, so that a high repetition accuracy is guaranteed with the simplest operation. As the splice is made by means of frictional heat, no long heating times are necessary.

#### Features

- Very quick connection of the hose mandrel ends by friction welding
- No danger of burns or fire
- Process reliability due to optimised welding parameters and exchangeable clamping jaws
- Can be used as manual or stationary solution
- Perfect weld joints



### EErgo Mandrel

Practical and handy hot paddle welder with predefined temperatures for splicing mandrels made of PP, nylon, TPEE and TPX. The heating time is only 5 minutes and remains constant even with a wide range of ambient temperatures.

#### Features

- Fiberglass-reinforced ergonomic housing
- Easy operation: 1 Button for PP, 1 Button for Nylon, TPEE and TPX
- Alignment of mandrel ends with a guide clamp
- Ergonomic, user-friendly Design



## LubeSite® automatic refill lubricators

### Light construction



LubeSite® Series 200

LubeSite® 202, 205 and 260 within the clear-sight cages are the standard lubricators for most bearing applications.

They only supply lube oil, when the bearing is moving and therefore protect the bearing from over and under lubrication.

Units are assembled with medium sized springs. Three additional light and heavy springs are each included in a box of ten. Model 260 is delivered in a single package with additional springs (light, heavy).

Area of operation: -25...+120° C

### Heavy construction



LubeSite® Series 300

LubeSite® 302, 305 und 360 are designed for bearing housings which operate under static conditions, vibration and centrifugal forces. The strong metal castings compensate for the heavy loads.

The main application areas are eccentric presses, compactors, stone mills, construction machines, pumps, etc.

Units are delivered with medium sized springs. Three additional light and heavy springs are each included in a box of ten. Model 360 is delivered in a single package with additional springs (light, heavy).

Area of operation: -25...+120° C

### For chemically aggressive media



LubeSite® Series 500

LubeSite® 502, 505 and 560 is resistant to aggressive chemical agents. The light metal cases are made of special nickel-chrome double platen. The seals are plated with chemical resistant VITON.

The 500 series is a tried and tested product for many years in the chemical, food and nuclear industry.

Units are constructed with medium springs. Three additional light and heavy springs each are included in a box of ten.

Model 560 is delivered in a single package with additional springs (light, heavy)

Area of operation: -25...+120° C

### For high temperatures



LubeSite® 704

LubeSite® 704 is the only automatic lubricator on the market, that can be used in ambient and high temperature applications. The case is made of light metal, the body is made of borosilicate glass, the pressure spring is made of high quality steel and the sealing is made of temperature consistent VITON.

LubeSite® 704 is used with best results within roller mills, plants, dehumidifiers, etc. Model 704 is delivered in a single package with one additional heavy spring.

Area of operation: -25...+230° C

### Adapter

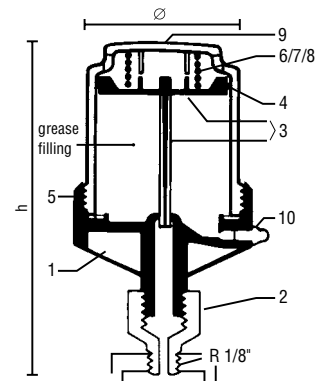


### possible applications

- Automotive industry
- Transport and aviation
- Car wash plant
- Fertiliser production
- Food industry
- Dairy production
- Printing plants
- Ceramic industry
- Paper manufactures
- Textile industry
- Wood industry
- Tobacco production
- Beverage production
- Mining industry
- Oil production



| Typ | low   | medium   | strong   | extra strong |
|-----|---|----------|----------|--------------|
|     | <b>Spring resilience N tensioned/unstressed</b> |          |          |              |
| 202 | 26/13 N   | 40/20 N  | 54/27 N  | 98/49 N      |
| 205 | 30/15 N   | 44/22 N  | 72/36 N  | 90/45 N      |
| 260 | 84/42 N   | 130/65 N | 140/70 N | 156/78 N     |
| 302 | 26/13 N   | 40/20 N  | 54/27 N  | 98/49 N      |
| 305 | 30/15 N   | 44/22 N  | 72/36 N  | 90/45 N      |
| 360 | 84/42 N   | 130/65 N | 140/70 N | 156/78 N     |
| 302 | 26/13 N   | 40/20 N  | 54/27 N  | 98/49 N      |
| 305 | 30/15 N   | 44/22 N  | 72/36 N  | 90/45 N      |
| 360 | 84/42 N   | 130/65 N | 140/70 N | 156/78 N     |
| 704 | –   | 80/40 N  | 158/79 N | –            |



- 1 Body
- 2 screwed plug
- 3 Plunger and rod
- 4 O-Ring
- 5 Plunger and rod
- 6 Low spring
- 7 Medium spring
- 8 Strong spring
- 9 Clear case
- 10 Grease fitting



## KNOW-HOW

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# Polyurethane and polyester conveyor profiles and belts

- High tensile strength
- Excellent wear and abrasion resistance
- High resilience, low level of belt stretching
- Resistance to oil, grease, dirt and most chemicals
- Temperature resistance from -30°C to +60°C (dynamic)
- High coefficient of friction
- Silent running
- Excellent weldability
- Hydrolysis resistant
- Hygienic and easy to clean
- FDA/EC compliant



## Cleaning of profiles and belts

### Cleaning agents and interaction with PU belts

In the food industry, four main groups of cleaning agents are used: neutral, alkaline, acidic and chlorinated. The food manufacturer is responsible for selecting the optimum cleaning method and detergent. We will be pleased to advise you on all questions concerning the selection and suitability of conveyor belts for your production process.

| Detergent group | Application   | Compatibility with PU conveyor belts and profiles |
|-----------------|---|---|
| Neutral         | Suitable for many applications, good release properties against fats and proteins       | durable   |
| Alkaline        | Suitable for the removal of carbohydrate, fat and protein deposits                      | durable   |
| Acidic          | Removal of inorganic components such as salts, calcium and lime deposits                | durable   |
| Chlorinated     | Removal of stubborn organic residues such as proteins, carbohydrates and discolorations | not recommended                                   |

The test results have been determined under laboratory conditions and therefore only provide an indication of the chemical resistance.

### Typical cleaning steps

A successful cleaning depends on 4 factors, whose mechanism of action is described in the professional world under the name 'Sinnischer Kreis':

- Mechanical energy (cleaning process or method)
- Chemical energy (detergents)
- Temperature (varies depending on contamination between cold and 60°, in exceptional cases food contact surfaces are rinsed with hotter water, but this is not the rule)
- Time (contact time of the detergents or disinfectants)

The cleaning of contact surfaces in contact with the product in the food industry comprises the following work steps:

1. pre-cleaning (removal of coarse impurities, often manually)
2. pre-rinse (to loosen stuck dirt if necessary)
3. cleaning (application and action of the cleaning agent)
4. rinse off
5. check cleaning result
6. disinfection
7. final rinsing



## Chemical characteristics of PU and TPE



### General

Thermoplastic material can be used in a variety of applications where there is interaction with various chemicals.

Chemical resistance depends on the period of exposure, the temperature, the quantity, the concentration and the type of the chemical substance. It is therefore difficult in any case to make a clear distinction between the effects described below. In the case of chemical degradation of polyurethane the chemical reaction results in cleavage of the molecular chains. In the course of degradation, polyurethane loses strength, and in extreme cases this can lead to disintegration of the part.

**For critical applications, a detailed resistance test considering both swelling and the affect on mechanical properties is recommended.**

### Swelling

Swelling is the fundamental physical process of the absorption of liquid substances by a solid. In this process, the substance enters into the material without chemical interaction.

This results in an increase in volume and weight with a corresponding reduction in mechanical values. After evaporation a reduction in swelling occurs and the original properties of the product are almost completely restored.

Swelling is a reversible process. By using reinforcements in the polyurethane, for example polyester or aramid cords, you can almost avoid this mechanical impact on the material.



### Hydrolysis resistance

If polyester-based polyurethanes are exposed for lengthy periods to hot water, moisture vapour or tropical climates, an irreversible break-down of the polyester chains occurs through hydrolysis. This results in a reduction in mechanical properties. This effect is more marked in flexible grades, where the polyester content is correspondingly higher than in the harder formulations.

Degradation of polyester-based polyurethanes is however rarely experienced at room temperature. Because of its chemical structure, polyester-based polyurethanes are much more resistant to hydrolytic degradation.

### Microbiological resistance

When using polyester-based thermoplastic polyurethane under climatic conditions of high heat and humidity, parts can be damaged by microbiological attack. In particular, microorganisms producing enzymes are able to affect the molecule chains of polyester-based TPU.

The microbiological attack initially becomes visible as discoloration.

Subsequently, surface cracks occur which enable the microbes to penetrate deeper and to cause a complete destruction of the TPU.



## General directives for plastics with direct food contact

There are several country-specific and global directives for the application of food contact materials. In general, all food contact materials have to be produced according to the principles of Good Manufacturing Practice (avoiding the occurrence of a health hazard or any other unacceptable change in the composition of the food during its intended use).



### FDA Guideline “Title 21: Code of Federal Regulations”

The Food and Drug Administration of the Public Health Service of America is the world's best-known authority involved in consumer protection in respect of potential detrimental influences. The FDA has prepared a review “Title 21: Code of Federal Regulations” in respect of their approval of raw materials in a processed or finished state, and also specified the conditions under which the approval is valid.



### EC Directive 1935/2004, EU Directive No. 10/2011

The framework Regulation EC 1935/2004 (EU Directive No. 10/2011) Food Contact and belonging specific Directive 2002/72/EC Monomers Additives of the European Parliament regulates plastics intended to come into contact with foodstuffs. The EU legislation for food contact materials is based on positive lists of the substances and maximum limits of migration into food. Only substance on these positive lists may be used for manufacturing plastics that are designated to

have food contact. Furthermore, you have to show the evidence of the global and specific migration. This can be requested and interpreted differently depending on the application.



Risiken erkennen – Gesundheit schützen

### Federal Institute for Risk Assessment (BfR) recommendation „Plastics in the foodstuff chain“

The Federal Institute for Risk Assessment (previously the Federal Institute for Consumer Health Protection and Veterinary Medicine (BgVV)) was formed to increase the health protection of consumers and processes scientific recommendations and recognized orientation aids for possible health risks through materials that come into contact with foodstuff. These recommendations are listed in the „Recommendations within the framework of the German Food and Feed Code (LFGB)“.



### USDA

The official United States Department of Agriculture is a part of the Federal Government of the United States of America. In addition to checking the use of raw materials in accordance with the FDA, the USDA also checks the suitability of the finished product (belt/conveyor) with regard to the cleanability of the product constitution (surfaces). Conformity in accordance with the USDA is primarily required for equipment in the processing of meat, poultry and milk in the United States of America.

### HACCP concept

The Hazard Analysis and Critical Control Points concept (abbreviated: HACCP concept or HCCP concept) is a tool clearly aligned for structured and preventive measures. It is used to prevent risks in conjunction with foodstuff that can result in the consumer becoming ill.

This concept was developed around 1960. In German law, the HACCP concept was initially anchored into the Foodstuff Hygiene Ordinance from 1998. The EC Ordinance 852/2004 also provides for mandatory application of the HACCP concept in all companies engaged in the production, processing and sales of foodstuff.

The hygiene package accepted by the EU in 2004 came into force on the 1st January 2006. Herein, it is decreed that only foodstuff conforming to the directives of the HACCP must be handled and introduced into the Union.

### Principles of the HACCP:

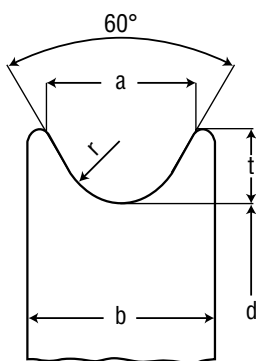
1. Carrying out a risk analysis
2. Identification of the critical checking points that the foodstuff is safe
3. Determining the intervention limits at the respective critical checking points
4. Establishing applicable monitoring procedures on the critical checking points
5. Establishing corrective measures in the event of deviations
6. Establishing assessment measures for checking the efficiency of the HACCP system determined
7. Establishing documentation of the measures

## „What impact has the pulley diameter on the belt?“

The minimum pulley diameters are to be selected according to the values given in the tables. These have been chosen according to the material quality (Shore hardness) due to the relatively low transport speed - from experience less than 2 m per second. Since the goods are pulled, the drive pulley should be provided at the end of the transport path. The geared motors should always be equipped with a soft start or frequency converter.

The diameter of the pulley has a significant effect on the life (service life) of the belt. The specified minimum pulley diameters in mm should not be undercut, but rather chosen somewhat larger. Pulley diameters that are too small always have a detrimental effect on the service life, as extreme bending cycles lead to material fatigue. The specified minimum pulley diameters always refer to a wrap angle of 180°. The wrap angle indicates how many degrees the belt is guided around the pulley.

## Recommended pulleys for round belts

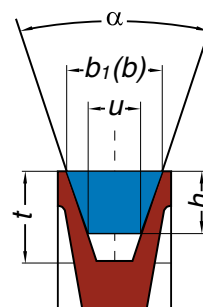


| Belt Ø | 2   | 3   | 4   | 4,8 | 5  | 6   | 6,3 | 7   | 8   | 9,5  | 10  | 12  | 12,5 | 15 | 18  | 20 |
|--------|-----|-----|-----|-----|----|-----|-----|-----|-----|------|-----|-----|------|----|-----|----|
| a (mm) | 4,5 | 5,5 | 7   | 8   | 8  | 10  | 10  | 11  | 12  | 14,5 | 15  | 18  | 18,5 | 23 | 28  | 30 |
| b (mm) | 6,5 | 8   | 10  | 12  | 12 | 14  | 14  | 15  | 16  | 19   | 19  | 22  | 23,0 | 27 | 32  | 36 |
| t (mm) | 2,5 | 3   | 3,5 | 4   | 4  | 5   | 5   | 5,5 | 6   | 7    | 7,5 | 9   | 9    | 12 | 14  | 15 |
| r (mm) | 1,4 | 1,9 | 2,5 | 3   | 3  | 3,5 | 3,5 | 4   | 4,5 | 5,5  | 5,5 | 6,5 | 7    | 8  | 9,5 | 11 |

Please select the appropriate minimum pulley diameter according to the different PU/Polyester qualities. The best qualified materials for pulleys are steel, high-alloyed steel, aluminium or Polyamid when it comes to plastic. Please keep in mind the low friction coefficient  $\mu$  when using plastic material.

## Pulleys for V-belts

| Profile according to DIN 2215    | 6  | 8    | 10  | 13  | 17  | 22    | 32    |
|----------------------------------|--|------|-----|-----|-----|-------|-------|
| Global standard acc. to ISO 4184 | Y  | M    | Z   | A   | B   | C     | D     |
| Upper width b (mm)               | 6  | 8    | 10  | 13  | 17  | 22    | 32    |
| Height h (mm)                    | 4  | 5    | 6   | 8   | 11  | 14    | 20    |
| Lower width u (mm)               | 3,3  | 4,55 | 5,9 | 7,5 | 9,4 | 12,35 | 18,25 |
| Pulley angle $\alpha$            | $\angle 34 - 38^\circ$   |      |     |     |     |       |       |
| Groove width b1                  | 6  | 8    | 10  | 13  | 17  | 22    | 32    |
|                                  | → depending on how much the profile should stick out above the upper pulley edge |      |     |     |     |       |       |
| Groove depth t (mm)              | h +2,0 mm  |      |     |     |     |       |       |



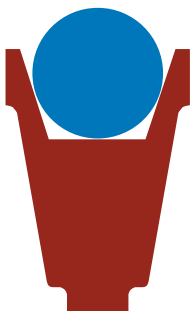
For BEHAbelt V-belts according to DIN 2215 / ISO 4184 pulleys for V-belts according to DIN 2217/ISO 4183 have to be used.





## Design of pulleys for belt profiles

Considering the pairing of belts and pulleys it is generally recommended to work with materials and/or surface that create sufficient friction to PU/TPE e.g. Aluminium or Steel. This is important to ensure proper power transmission. Beware that Aluminium can lead to discoloration (blackening) of belts. All other pulleys, guiding elements or slider beds should be made of low-friction materials for example PE or HDPE.



### Grooved pulleys for round belts

In practice, V-belt pulleys are often used for round belt applications. You should know that this is not an optimal geometry pairing and should therefore be changed to a special round belt pulley if possible.

In addition to typical faster wear of the belt in the flank contact points, a V-belt pulley in this case can also cause the round belt to jam between the flanks of the pulley, which in turn can lead to additional stretching as well as „fluttering or jumping“ of the belt. Under these conditions, the service life of the belt is basically reduced. If V-belt pulleys are nevertheless used, the pulleys must be dimensioned so that the belt also makes contact with the base of the pulley.



### Pulleys for T-Profiles

The power-transmission of such belts takes place on the flat area of the belt reverse side. This means the V-guide is not an element to transmit power but has guiding purpose only.

Hence, the guide should run free in the groove with little space and must never be clamped!



### Pulleys for Twin V-belts

With twin V-belts, a distinction is made between the use as a drive conveyor belt or as spreader belt.

In the case of a drive, the pulley design must be in such a way that the power is transmitted by the flanks.

In spreading table applications, it has proved to be a good idea to guide the belt exclusively by the central groove and drive it by the underside of the profile.



### Belt pulleys for V-guide for belts

The power transmission of belts takes place via the running side. This means that the centrally positioned V-guide only serves to guide the profile.

The V-guide must therefore be considered free-running in the belt pulley design. Clamping of the V-guide should be avoided.

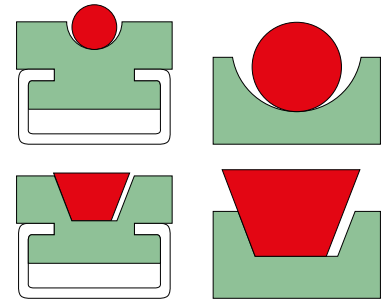


## Guide rails and supporting rollers

Grooved pulleys, supporting rolls and guide rails are recommended to keep the belting in position to carry the load. When guiding V-belts, the V belt groove should be designed so that the belt is being supported on the bottom of the groove and is only allowed to touch one side of the groove at a time to avoid jamming.

The diameter and number of the required supporting rolls depends on the length of the conveyor as well as on the weight and

dimensions of the goods to be conveyed. Supporting guide rails with a smooth surface can be grooved to support transport belts. The dimensions of the groove are to be designed in a width that prevents the belt from jamming. The guiding rails should be made of materials with good sliding qualities (PE – HDPE). If you are looking for a supplier please contact us, we can give you a recommendation.



## Drum design for conveyor belts

### Crowned pulleys

To prevent the flat belts from slipping, at least one of the pulleys must be crowned, preferably the larger pulley or the one with the largest contact angle.

Commonly available pulleys are crowned in accordance with ISO 22. The larger the contact angle, the better the tracking effect for the belt.

In practice, the typical design of a crowned pulley is applied in three equal parts (conical/cylindrical/conical) based on the total drum length.

### Pulley width

The width of the pulleys should be at least 1.05 to 1.1 times the belt width. In principle, we recommend that half of the belt width be cylindrical and conical towards the outside.

### Drum surface

Clean and smooth running surfaces increase the efficiency and service life of conveyor belts.

The running surface of drive pulleys must not be too smooth or too rough (no knurled surfaces!) as this can lead to excessive belt wear, noise and premature belt failure.

We recommend to manufacture running surfaces with a roughness of  $R_a = 1,6 \mu$  -  $3,2 \mu$  -  $6,3 \mu$ .

## Drive pulley design conveyor belt: Calculation

Length of cylindrical area  $b_c$

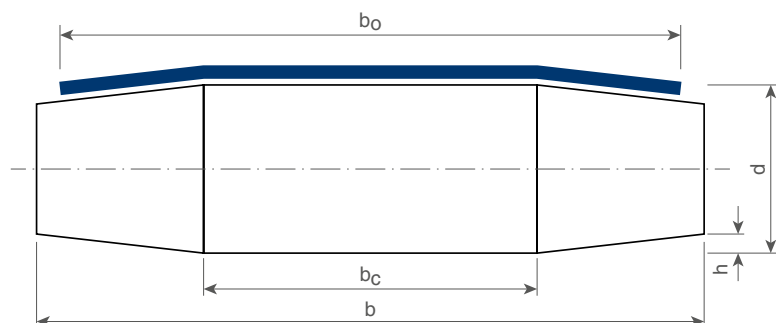
$$b_c = b_0 / 2$$

Pulley width  $b$

$$b = b_0 \times 1,1$$

Crown bow  $h$

$$h = (d + 100) / 450 \text{ mm}$$



As a rule, machine designers traditionally use a drum design with the pitch 1/3 / 1/3 / 1/3. However, the 1/4 / 1/2 / 1/4 pitch has proven to be particularly suitable for soft belt types.



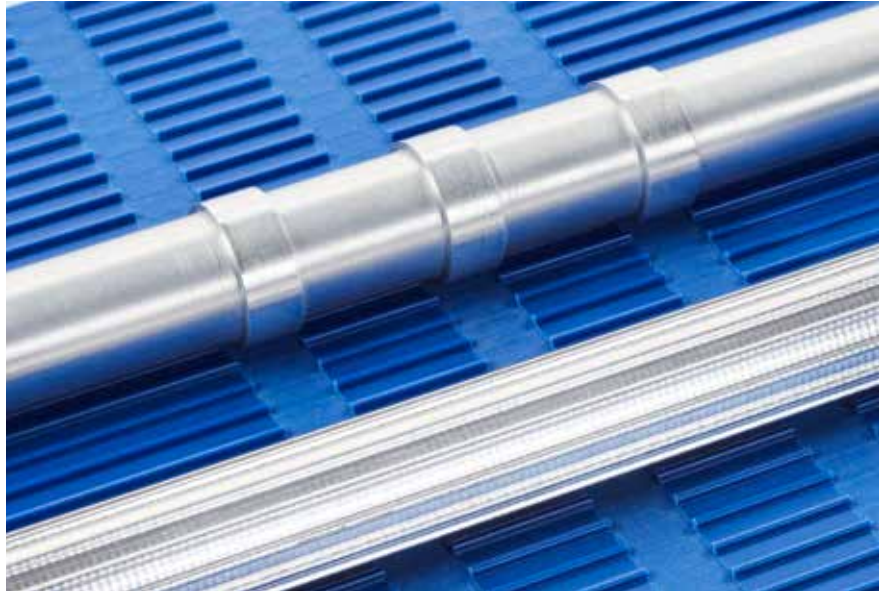
## Introduction guiding concept for AT5

The interaction of AT5 drive with optimal belt guidance ensures track stability and slip-free drive. The preferred design for the belt guide takes into account a combination of guide groove in the belt and guide bar for the pulleys.

The position and number of guide grooves can be adapted to the requirements and conditions of the conveyor.

Several guide grooves basically increase the guide stability of the belt, whereby the arrangement of the guide grooves should preferably be centred in the middle of the belt and in the inner third of the belt width. Guide grooves near the outer edges of the belt are not recommended.

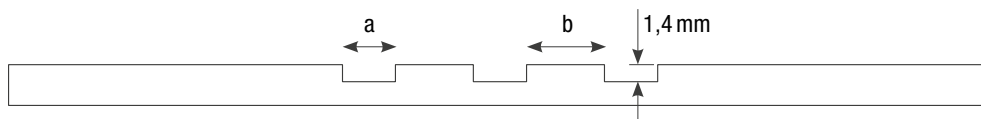
For cost reasons but also to simplify the implementation of the belt guiding concept, usually only the non-driven belt pulleys are designed as smooth rollers with guide bars, while the AT5 drive usually does without guide elements.



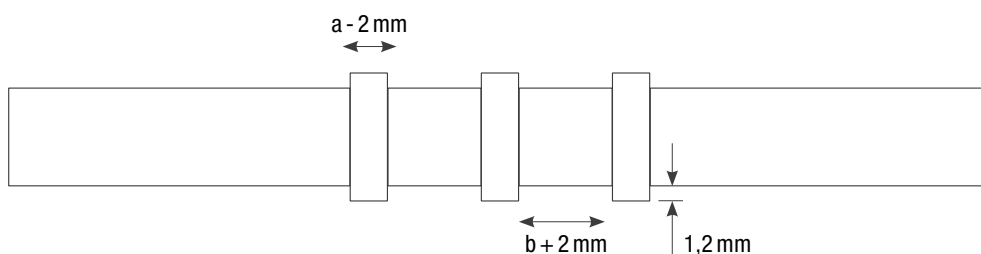
Typical design versions of the guide grooves in the belt are, for example, a groove width of 5 mm with a bar width of 15 mm between the grooves or a 10 mm groove with a bar width between the grooves of 20 mm. Depending on the belt width used, we recommend one to three

guide grooves up to a belt width of 300 mm and three to seven guide grooves from a belt width > 300 mm. In case of possible transverse loads on the belt, it is better to increase the number of guide grooves.

### Design of the guide grooves in the conveyor belt



### Design of the guide bars on the pulley



## How does the pretension of a belt impact its lifetime?

The proper pre-tensioning of the belt is just as critical for belt performance as selecting the right belt and the right splicing system. For the recommended pretension please refer to the product tables of each belt in this delivery program.

### Effects of wrong pretension:

Too low pretension results in slippage of the belt which generates excessive heat. This causes belt deformation, heavy abrasion, breaking and jumping out of the pulley.

Too high pretension may cause damage to pulleys, shafts and bearings. The belt permanently is over-tensioned and will prematurely fail due to material fatigue and formation of cracks. Furthermore the belt loses its material resilience.

## Tensioning devices

A variety of tensioning devices can be used to accommodate the different amounts of stretch in belts or to make the installation process easier. In addition, for reinforced belts or belts with little pretension required, we recommend the use of tensioning devices permanently installed on the conveyor system. Please follow our recommended pretension for each belt to reduce premature wear and failure on your bearings. Common ways to properly tension a belt are as follows:

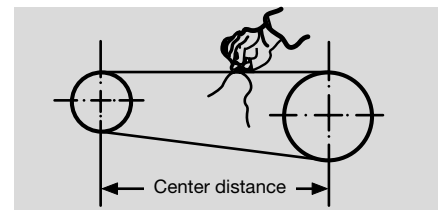
- cut the belt to a shorter length than the measured length of the conveyor system
- use a take up pulley or a deflection pulley with a counter weight or a mechanical screw movement
- the drive motor is moved in slotted mounting holes via an adjustment screw
- tensioning sled (the drive motor is mounted on rails and is moved by its own weight or by a screw mechanism)
- tensioning jack (the motor with the drive pulley is mounted on a turnable rocker. If the drive motor is running in the specified direction the backwards engine torque tension the belt automatically)

The right positioning of tensioning pulleys is essential for the lifetime and functionality of a belt. The tensioning pulleys always should be located in the return strand right after the drive pulley.

## Working out the correct belt length

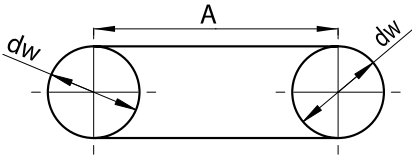
Use a string or steel tape to make measurements after reducing take-up (if installed) to the minimum. Distance between pulleys should remain fixed. To obtain good driving strength and good belt life, the belt pretension should be 0,5% to maximum 10%, based on hardness and length of the belt.

To verify pretension on an installed belt, apply two marks with a pen separated by 10 inches (or 100 mm) on the belt when it is free from tension. The increase of space between the marks after mounting the belt in tenths of an inch (or mm) provides a measure of the pretension in percent.



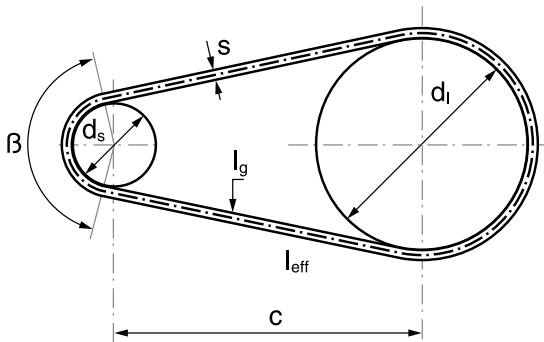
# Calculation of belt length

## Calculation of belt length



$L_{f1} = dw \times \pi + 2 \times A$       $dw$  = effective diameter  
 (position of the neutral fiber of belt)  
 $A$  = center distance  
**for round belts:**  
 $dw = d$  bottom of groove + diameter of belt

**The recommended pretension has to be considered in addition!**

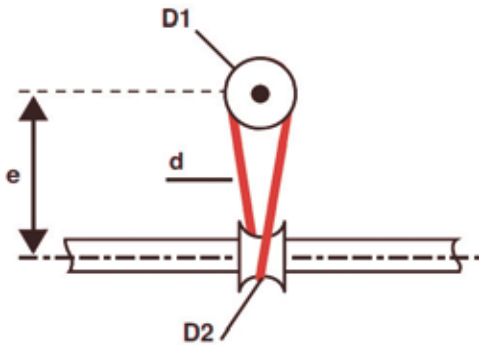


$$l_{eff} = 2c \cdot \sin\left(\frac{\beta}{2}\right) + \frac{\pi}{2} \left[ ds + dl + 2s + \frac{(dl - ds)(180 - \beta)}{180} \right] \text{ [mm]}$$

$$\beta = 2 \arccos\left(\frac{dl - ds}{2c}\right) \text{ [}^\circ\text{]}$$

$c$  = center distance [mm]  
 $ds$  = Diameter of the small pulley [mm]  
 $dl$  = Diameter of the big pulley [mm]  
 $\beta$  = Wrapping angle on small pulley

**The recommended pretension has to be considered in addition!**



### Lineshaft conveyor belts (semi-crossed)

$$L_{f3} = [(D1 + d) + (D2 + d)] \times \pi / 2 + 2 \times \sqrt{[(D1 + d)^2 / 4 + e^2]}$$

recomm. center to center distance:  $4 \times D1$

$D1$  : pulley diameter at bottom of groove  
 $D2$  : inner diameter of diabolo roller  
 $d$  : diameter of belt  
 $e$  : center distance

**The recommended pretension has to be considered in addition**

## Auxiliary table / Quick reference for V-belts

| Profile according to DIN 2215  | 6           | 8  | 10 | 13 | 17 | 22 | 32  |
|--|-------------|----|----|----|----|----|-----|
| Profile according to ISO 4184  | Y           | M  | Z  | A  | B  | C  | D   |
| Upper width b (mm)   | 6           | 8  | 10 | 13 | 17 | 22 | 32  |
| Height h (mm)  | 4           | 5  | 6  | 8  | 11 | 14 | 20  |
| Calculation of the belt length $La$ and $Lw$ ,<br>if $Li$ is determined or known | $La = Li +$ | 25 | 31 | 38 | 50 | 69 | 126 |
|  | $La = Lw +$ | 10 | 12 | 16 | 20 | 29 | 51  |
| $La$ = outside length  | $Lw = Li +$ | 15 | 19 | 22 | 30 | 40 | 75  |
| $Lw$ = effective length / cut length   | $Lw = La -$ | 10 | 12 | 16 | 20 | 29 | 51  |
| $Li$ = inside length   |             |    |    |    |    |    |     |

**The recommended pretension has to be considered in addition**

### Coefficient of friction $\mu$ for smooth surfaces (G)

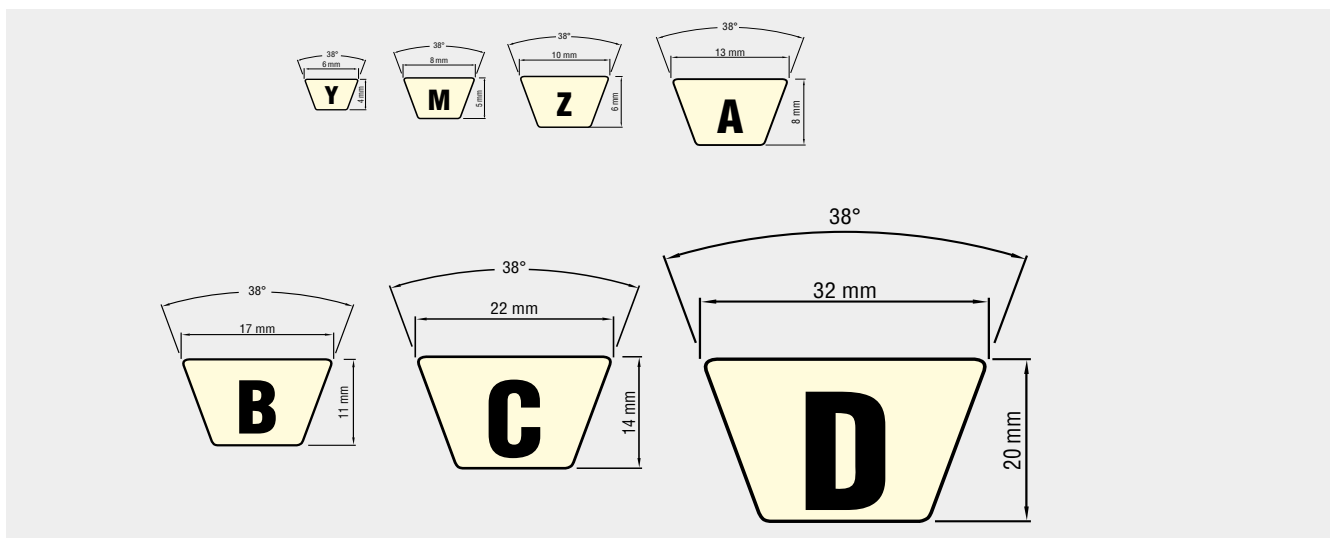
| Quality     | Alu  | Steel | Glass | Wood (veneer) | PE   | HDPE |
|-------------|------|-------|-------|---------------|------|------|
| PU40A       | 1,35 | 1,30  | 1,10  | 1,10          | 0,85 | 0,80 |
| PU60A       | 0,95 | 0,90  | 0,75  | 0,80          | 0,55 | 0,50 |
| PU65A       | 0,90 | 0,85  | 0,65  | 0,70          | 0,50 | 0,45 |
| PU70A       | 0,85 | 0,75  | 0,60  | 0,70          | 0,40 | 0,35 |
| PU75A       | 0,85 | 0,70  | 0,50  | 0,65          | 0,40 | 0,35 |
| PU80A       | 0,80 | 0,65  | 0,45  | 0,60          | 0,35 | 0,30 |
| PU85A       | 0,75 | 0,60  | 0,40  | 0,50          | 0,35 | 0,30 |
| PU85A rough | 0,55 | 0,45  | 0,45  | 0,45          | 0,30 | 0,25 |
| PU90A       | 0,70 | 0,50  | 0,30  | 0,50          | 0,30 | 0,25 |
| PU95A       | 0,65 | 0,45  | 0,25  | 0,45          | 0,25 | 0,20 |
| TPE40D      | 0,70 | 0,50  | 0,30  | 0,45          | 0,25 | 0,20 |
| TPE55D      | 0,45 | 0,35  | 0,30  | 0,35          | 0,20 | 0,15 |
| TPE63D      | 0,45 | 0,35  | 0,30  | 0,35          | 0,20 | 0,15 |

### Coefficient of friction $\mu$ for flat belt surfaces on steel (dry)

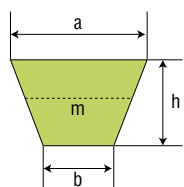
| Quality | smooth gloss (SG) | smooth matt (SM) | fabric impression (FI) | rough impression (RI) | Diamond (ID) | Slightly rough (SR) |
|---------|-------------------|------------------|------------------------|-----------------------|--------------|---------------------|
| PU65A   | 0,85              | 0,80             | 0,70                   | 0,75                  | 0,65         | 0,70                |
| PU75A   | 0,70              | 0,65             | 0,55                   | 0,50                  | 0,50         | 0,55                |
| PU80A   | 0,65              | 0,60             | 0,50                   | 0,40                  | 0,45         | 0,50                |
| PU95A   | 0,45              | 0,40             | 0,30                   | 0,20                  | 0,25         | 0,30                |
| TPE55D  | 0,35              | 0,30             | 0,25                   | 0,15                  | 0,20         | n/a                 |

### V-belt dimensions according to DIN 2215 and ISO 4184

All V-belts are produced with a small radius at the edges

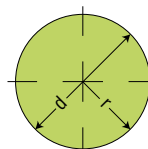


### Calculation of round belt and V-belt cross section



$$A_{cm^2} = \frac{a+b}{2} \times h = m \times h$$

$$m = \frac{a+b}{2}$$



$$A_{cm^2} = \frac{\pi}{4} \times d^2 \approx 0,785 \times d^2$$

$$U = \pi \times d$$



## Quick guide for belt calculation

The following three formulas provide information on the most important parameters for the design of a conveyor belt. With the help of these formulas, you can quickly and easily determine the pretension force, axle load and theoretical max. transport weight.

Of course, our experienced technical team will be happy to assist you. We look forward to your enquiry.

Phone: +49 7684 907 170

### Support (influencing variables)

Which variables influence the values to be calculated?

#### Preload/axle load:

##### ▲ Increase pretension

- + More power transmission
- + Less slip
- Increased axle and bearing load
- Increased Amp draw (motor)

##### ▼ Reduce pretension

- + Less axle and bearing load
- + Less power consumption (motor)
- Increased slip/abrasion
- Belt tracking and alignment not guaranteed

#### k1% (Belt thickness and/or hardness)

##### ▲ Increase k1%

- + Higher transport weight
- + Mechanically more robust
- Greater redirection
- Increased axle and bearing load
- Increased pretensioning force; Belt tensioner may be necessary

##### ▼ Reduce k1%

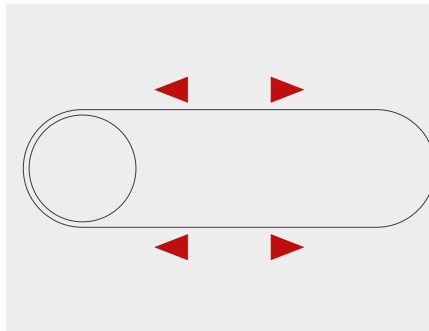
- + Smaller redirection
- + Lower axle and bearing load
- Reduced transport weight
- Mechanically more susceptible

#### Reduce coefficient of friction (μ)

- ▶ Compared to steel, HDPE or PE substrates offer significantly lower friction resistance.
- ▶ Friction - optimized belt surfaces (e.g. rough, diamond, etc.) also reduce the coefficient of friction due to their smaller contact area.

### PRETENSION FORCE (N)

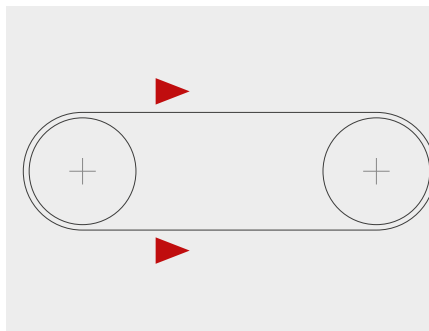
$$k1\%_{stat.} \text{ (N/mm)} \times \text{belt width (mm)} \times \text{pretension (\%)} \times 2$$



How much force (F) must be applied to pre-tension the belt?  
What values are needed for this?

### AXLE LOAD (N)

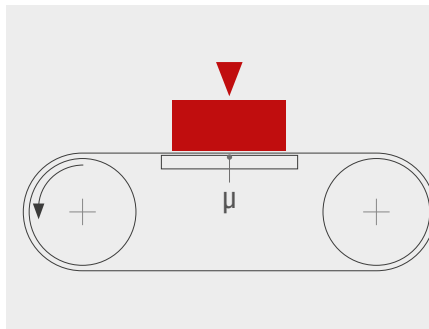
$$k1\%_{stat.} \text{ (N/mm)} \times \text{belt width (mm)} \times \text{pretension (\%)} \times 2$$



How much force (F) is applied to the axles due to the belt dimension?  
How can the axle load be influenced (pretension, strength of the belt, hardness)?

### MAX. TRANSPORT WEIGHT (KG)

$$k1\%_{relax.} \text{ (N/mm)} \times \text{belt width (mm)} \times \text{pretension (\%)} \times 0,1 / \text{coefficient of friction (\mu)}$$



How much weight (kg) can be transported?  
What is needed to calculate this?

**K1% (N/mm):** Modulus of elasticity of the respective conveyor belt (elasticity constant). This value indicates how much force (N) per unit of belt width (mm) is required to stretch a belt by 1%.

**Belt width (mm):** Functional width of the conveyor belt

**Coefficient of friction (μ):** Sliding coefficient of friction (in motion) between belt surface and contact surface of the belt support.

**Pretension (%):** Selected belt pretension of the elastic monolithic belts to create a frictional connection (force transmission without slip) between belt and drive element.

## Explanations of the various influencing variables for belt design

### Elasticity modulus $k1\%$



Based on the ISO 21181 standard, the  $k1\%$  value (N/mm) defines the modulus of elasticity for conveyor belts. It shows how much force in Newtons per unit of belt width (mm) is required to stretch a belt by 1%.

In other words, how much (in %) must a belt be stretched to achieve a certain force on the drive drum.

In practice, two different  $k1\%$  values ( $k1\%$  static, relaxed) are used.

The static value acts immediately when the belt is mounted and

thus represents the elasticity behaviour of the belt before it is used and before the usual running-in of the belt. The relaxed value represents the stabilised change in the elasticity behaviour after the belt has been run in (according to the 24h standard).

This also results in the respective use of the two  $k1\%$  values: Whereas the static value is relevant for the calculation of pre-tensioning forces and bearing loads, the relaxed value is used for the calculation of the max. transport weight or the max. force transmission.

### Coefficient of friction ( $\mu$ )

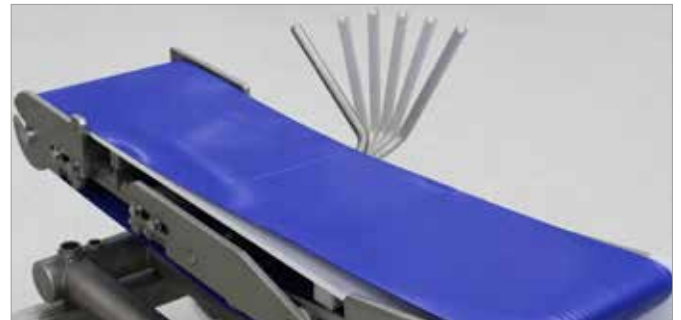
The coefficient of friction is indicated with the formula symbol " $\mu$ " and serves as a measure of how high the frictional force acts between two materials (sliding friction). However, this always serves only as an approximate indication. The friction force depends on many different factors and is often influenced and changed during the operation of the installation due to changing environmental conditions.



The effect of the briefly acting higher coefficient of friction during start-up (is approx. 1.3 to 1.8 times the dynamic coefficient of friction) is usually taken into account in the system design via the safety factor selected by the designer.

### Pretension (%)

For the trouble-free running of elastic monolithic belts, a correct and sufficient pretension is required to ensure the transmission of force without slippage. The pretension must be adjusted according to the technical task and to possible influences (temperature, contamination, ambient humidity, etc.).



For drives without a tensioning option, the correct pretensioning must be taken into account during production by shortening the belt length.

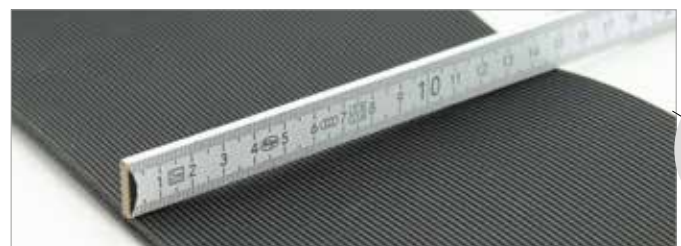
The belt tension is directly related to the running behaviour. If the tension is too high, the running behaviour will be unstable and machine components such as bearings and shafts will be subjected to high stress. Too little tension leads to slippage and abrasion on the drive pulley and possibly also to the loss of the belt centring function with crowned rollers.

Due to the already described shrinkage of the belt – represented by the values  $k1\%_{stat}$  and  $k1\%_{relax}$  – the belt pretension is reduced to the same extent and may have to be retensioned accordingly or, if not possible during assembly, designed to be larger.


Since this is an elastic monolithic belt construction, the pretension of the belt can only be increased to a limited extent. Otherwise, a permanent deformation and thus a belt elongation will be caused. This max. belt pretension is specified by the manufacturer in the data sheet and represents the elastic working range of the conveyor belt.

### Belt width (mm)

The belt width is proportional to the force required to stretch the belt. The wider a belt, the greater the force required to stretch the belt, i.e. wider belts generally require smaller pretension values (%) than narrower belts.



## Manufacturing tolerances BEHAbelt round- and V-belts/conveyor belts

| Description            | Dimension mm         |  | Tolerance ≈ mm |  |
|------------------------|----------------------|---|----------------|--|
| <b>Round belts</b>     |                      |   |                |  |
| Type PU75A / 80A       | ∅ 2 - ∅ 8            |   | ± 0,2          |  |
| Type PU75A / 80A       | ∅ 9 - ∅ 15           |   | ± 0,3          |  |
| Type PU85A / 90A / 95A | ∅ 2 - ∅ 8            |   | ± 0,2          |  |
| Type PU85A / 90A / 95A | ∅ 9 - ∅ 15           |   | ± 0,3          |  |
| Type PU85A / 90A / 95A | ∅ 18 - ∅ 20          |   | ± 0,5          |  |
| Type TPE40D / 55D      | ∅ 3 - ∅ 8            |   | ± 0,2          |  |
| Type TPE40D / 55D      | ∅ 9 - ∅ 15           |   | ± 0,3          |  |
| Type TPE63D            | ∅ 6,3, ∅ 9,5, ∅ 12,5 |   | ± 0,3          |  |

Round belts can be produced on request in “-” or “+”-tolerance.

| Description             | Dimension mm                   | (ISO)                       |  | Tolerance ≈ mm |        |
|-------------------------|--------------------------------|-----------------------------|--|----------------|--------|
| <b>V-belts DIN 2215</b> |                                |                             |  | 0-Width        | Height |
| Type PU65A              | 6 - 8 - 10 - 13 - 17 - 22      | (Y - M - Z - A - B - C)     |  | - 0,5          | + 0,5  |
| Type PU75A              | 6 - 8 - 10 - 13 - 17 - 22 - 32 | (Y - M - Z - A - B - C - D) |  | - 0,5          | + 0,5  |
| Type PU80A              | 6 - 8 - 10 - 13 - 17 - 22 - 32 | (Y - M - Z - A - B - C - D) |  | - 0,5          | + 0,5  |
| Type PU85A              | 6 - 8 - 10 - 13 - 17 - 22 - 32 | (Y - M - Z - A - B - C - D) |  | - 0,5          | + 0,5  |
| Type PU90A              | 8 - 10 - 13 - 17 - 22 - 32     | (M - Z - A - B - C - D)     |  | - 0,5          | + 0,5  |
| Type TPE40D             | 8 - 10 - 13 - 17 - 22          | (M - Z - A - B - C)         |  | - 0,5          | + 0,5  |
| Type TPE55D             | 8 - 10 - 13 - 17 - 22          | (M - Z - A - B - C)         |  | - 0,5          | + 0,5  |

| Description      | Dimension mm                            |  | Tolerance ≈ mm |  |
|------------------|---|--|----------------|--|
| <b>Flat belt</b> |   |  |                |  |
| Belt thickness   | 0,9 / 1,0 / 1,2 / 1,6 / 2,0 / 3,0 / 4,0 |  | + / - 0,1      |  |

## Manufacturing tolerances for tailoring

| Production length (lf) | Production tolerance |
|------------------------|----------------------|
| 150 - 1000 mm          | ± 2 mm               |
| 1001 - 4000 mm         | ± 3 mm               |
| 4001 - 10000 mm        | ± 5 mm               |
| over 10000             | ± 10 mm              |

| Production width | Production tolerance |
|------------------|----------------------|
| < 100 mm         | ± 1,0 mm             |
| > 100 mm         | ± 2,0 mm             |

| Thickness                                  | Production tolerance        |
|--|-----------------------------|
| 0,9 / 1,0 / 1,2 / 1,6 / 2,0 / 3,0 / 4,0 mm | ± 10% of the belt thickness |

Manufacturing tolerances according to DIN EN ISO 15147 / DIN ISO 2768-m or DIN 16742-TG7. If you require tighter manufacturing tolerances for your application, we will be happy to check the possibility for you.





# Technical request

|         |  |         |  |      |  |
|---------|--|---------|--|------|--|
| Project |  | Phone   |  | Name |  |
| E-Mail  |  | Address |  |      |  |

|                          |          |   |
|--------------------------|----------|---|
| <input type="checkbox"/> | <b>A</b> | I'm looking for a replacement of an existing product. What performance would you like to improve: |
| <input type="checkbox"/> | <b>B</b> | I'm looking for a technical design support.   |

**Please send to:**  
 Fax: +49 7684 907 101  
 E-Mail: tech@behabelt.com

## A

Basic information  
for your inquiry

| Product description (belt)                                |             |  |
|---|-------------|--|
| Belt type, shape, size                                    | Your sketch |  |
| Hardness (Shore A or D)                                   |             |  |
| Type of surface   |             | <input type="checkbox"/> smooth <input type="checkbox"/> matt <input type="checkbox"/> rough <input type="checkbox"/> textured <input type="checkbox"/> other: |
| Color   |             |  |
| Special product properties (FDA/EC, antistatic, UV, etc.) |             |  |
| Supply of sample  |             | <input type="checkbox"/> yes <input type="checkbox"/> no   |
| Others  |             |  |

| Process description (conveyor)           |  |
|--|--|
| What is being done in the process?       |  |
| What products are being transported?     |  |
| What are the handled product properties? |  |
| What happens before this process?        |  |
| What happens after this process?         |  |

## B

Basic information  
for your inquiry

| Conveyor layout          |  |  |   |
|--------------------------|--|--|---|
| Pulley diameters         |  | Center distance                          |   |
| Wrap angle               |  | Belt speed                               |   |
| Support or guide of belt |  | tensioning device/<br>take up amount     | <input type="checkbox"/> yes, mm, <input type="checkbox"/> no |
| Max. belt load           |  | numbers of belts that<br>convey the load |   |

| Environmental conditions                            |  |              |  |
|---|--|--------------|--|
| What chemical requirements must the belt withstand? |  |              |  |
| What is your cleaning procedure?                    |  |              |  |
| Humidity / water                                    | <input type="checkbox"/> normal <input type="checkbox"/> high <input type="checkbox"/> belt in water | UV-radiation | <input type="checkbox"/> yes <input type="checkbox"/> no |
| Is your belt subject to high abrasion?              | <input type="checkbox"/> yes, due to:  |              | <input type="checkbox"/> no                              |
| Environmental temperature (°C/°F)                   |  | Andere       |  |

| Needs assessment       |   |                             |  |
|------------------------|---|-----------------------------|--|
| Order quantity (m/pc.) |   | Annual requirement (ft/pc.) |  |
| Target Price           |   | Standard coil length (ft)   |  |
| Packaging / coil form  | <input type="checkbox"/> Wooden reel <input type="checkbox"/> Coil <input type="checkbox"/> Box <input type="checkbox"/> Cut to length <input type="checkbox"/> Special winding |                             |  |



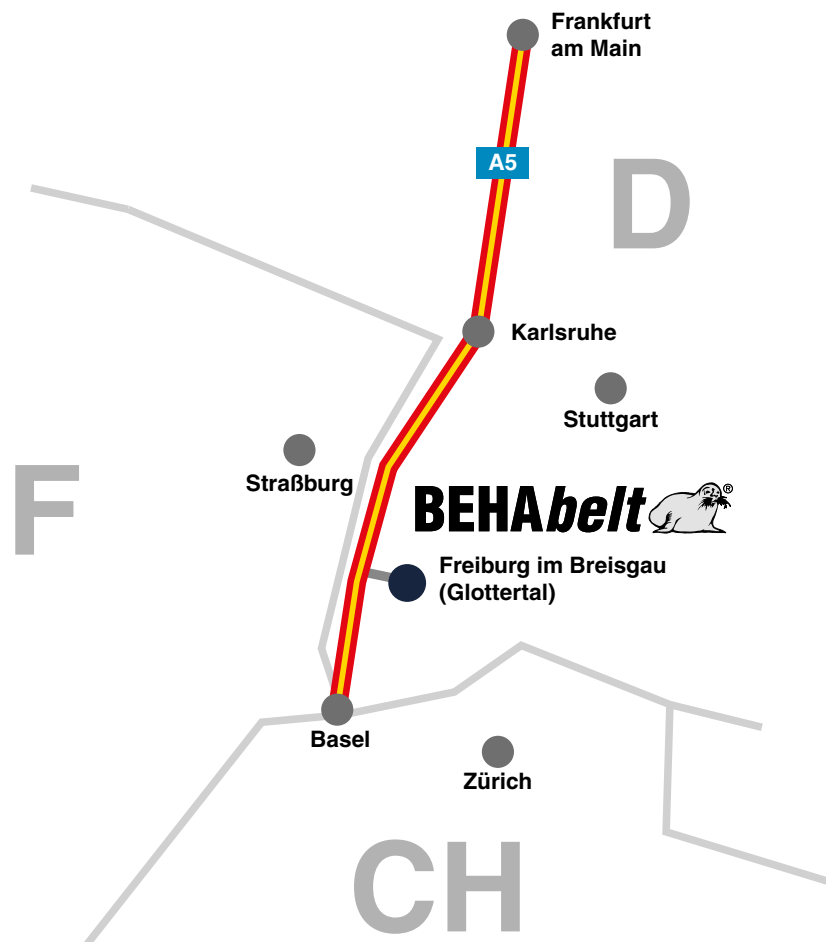
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Your specialist dealer / system supplier

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