BEHAbelt®
Made in Germany

Product Catalogue 2019/2020

Round and V-belts | monolithic conveyor belts | weldable profiles for belts
Coatings | welding equipment

Edition 2019/2020

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

People

Quality and innovations are produced by people – our employees, our customers and our suppliers.

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.

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.

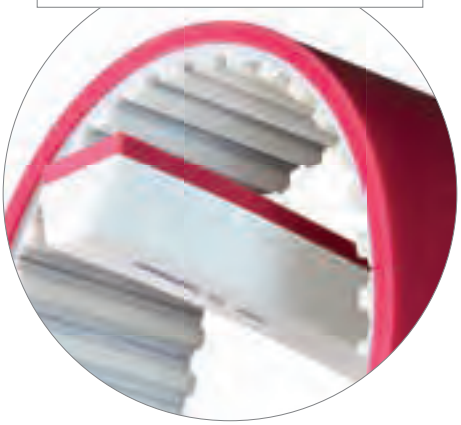
Conveyor belts

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.

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 / tex soft

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 flex

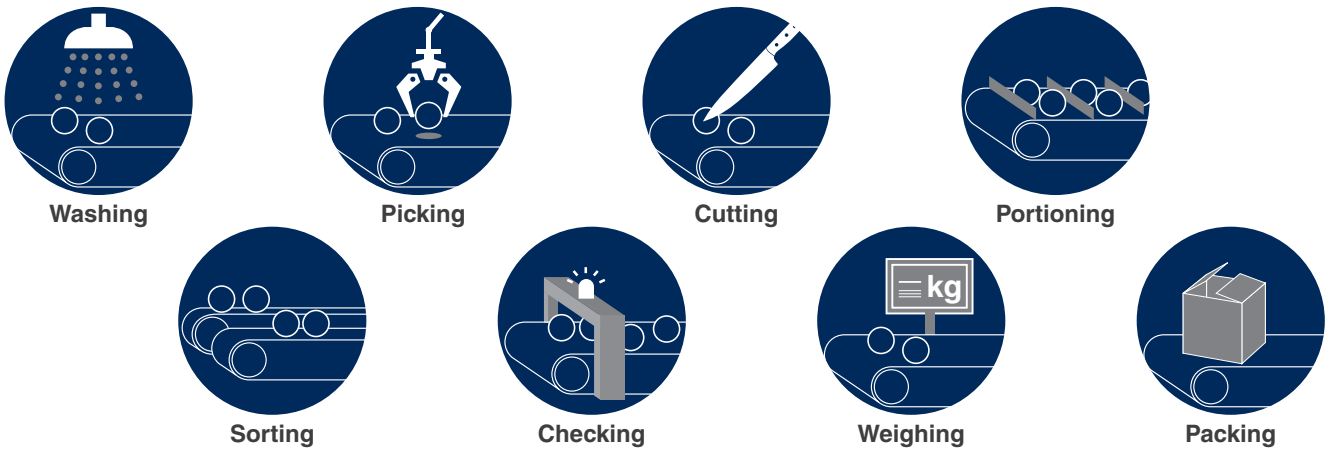
specifies our extremely flexible sidewalls due to the very small wave pitch. Sidewalls are often used with cleats on conveyors for inclined transport to prevent spillage.

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.

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.



Contact

Social Media

We regularly publish information via the most common social media platforms, such as Facebook or LinkedIn. On LinkedIn we focus mainly on product innovations, event announcements and tips and tricks. On Facebook we also share photos and reports about our social activities. On the BEHAbelt-TV YouTube channel you will find videos describing and demonstration our most important welding machines. We are looking forward to your visit!

Exhibitions

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 3-4 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.

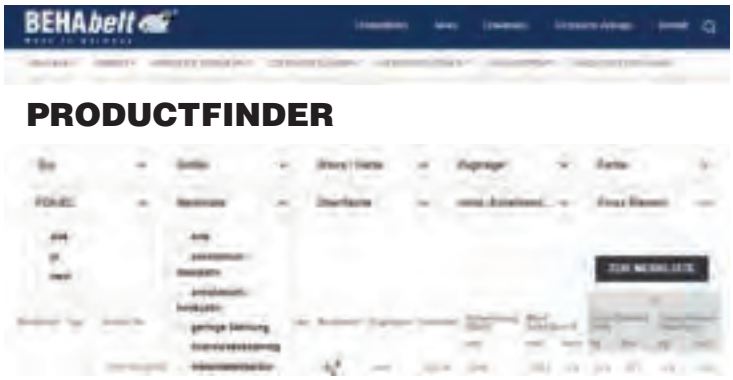
We look forward to your registration.

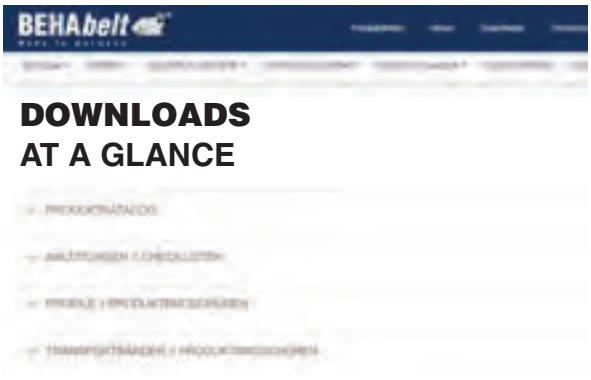
Website: www.behabelt.com, product-finder and downloads

At this point, we would like to draw your attention to two extremely useful functions on the BEHAbelt website: One is the download area, which contains all brochures and operating instructions, the other is the innovative product finder.

The product finder offers a useful number of selection options to help you to find the right belt or profile. Select according to hardness and minimum pulley diameter or even special properties, such as metal detectable or hydrolysis resistance.

The selected products can be saved in a watch list and later automatically sent to our sales department with the desired volume or dimension to request a quotation.





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Innovations

Welding paddle for monolithic conveyor belts, 400 mm und 800 mm

BEHAbelt has developed the paddle welding tools HS400 and HS800 especially for butt welding of monolithic conveyor belts.

For the design of this welding tool, we intensively studied the working procedures and the technical requirements for such welding processes.

In addition, we focused on the repeatability and precision of the welding.

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Metal and X-ray detectable - improved compound

After several months of development in our laboratories and cooperation with leading manufacturers of metal and X-ray detectors, we are pleased to present our metal detectable product line PUsafe, with improved material composition.

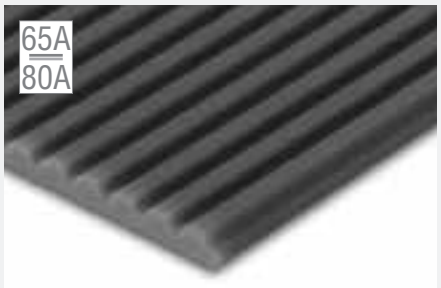
Available materials:

Round and V-belts (p. 19/ 33), conveyor belts (from p. 61), Coatings (p. 70), welding accessories for conveyor belts (from p. 71)

2C

Elastic monolithic conveyor belts with 2 material hardnesses

Another novelty in our portfolio are conveyor belts consisting of 2 material components. This capability enables us to manufacture various products with different surface structures. In order to support your application even better, we are now offering different degrees of hardness combined in one belt. We are happy to be the partner of choice for optimizing your machinery design.



Logistics belt with non-slip belt surface

Depending on the material to be conveyed or the type of conveyor (e.g. accumulation or inclined conveyor), a wide variety of belt types are required. With BEHAbelt's new 2-component design, 2 different degrees of shore hardness can be combined in one belt. If a belt for inclined conveying is required, the conveying side can have high grip, while the running side has low friction.

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Hygienic conveyor belt for improved grip

In addition to hygienic design in the food sector, special properties that support process optimization are very important. The BEHA 2-component conveyor belt offers a hard running side and a soft transport side that provides a good grip, e.g. for inclined conveyors. The standard MICROclean finish also ensures excellent release properties and improved cleanability. **Page 61**

Especially for roller conveyors: weldable PJ4 V-ribbed belts

Weldable BEHAbelt PU-Plus V-ribbed belts ‚PJ' are used where standardized endless manufactured belts don't fit on the existing design (centre distance) Now we are offering V-ribbed belts also in PJ4 version. All 3 types (PJ2, PJ3 and PJ4) are available in orange material with special flexibility under low temperatures and ultramarine blue PU-Plus versions for mechanically demanding applications. We supply these belts in rolls by the meter, which can be cut to the final dimension and welded independently on site. Alternatively, you can also use our fabrication service for endless welded belts.

Page 53

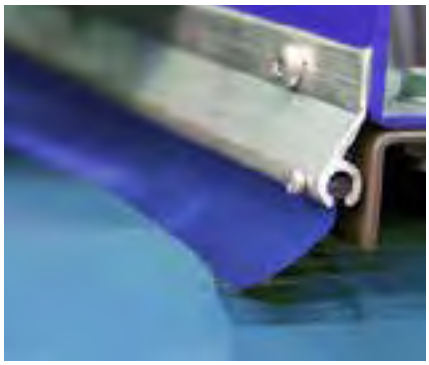
Innovations

FZ03/1 and EErgo-Z:
Guiding unit for overlap welding with Z-paddle

Quickly connect reinforced profiles with the new guide clamp FZ03/1 and the welding paddle EErgo-Z. The special design of this tool enables a repeatable and uniform contact pressure over the entire welding surface of the profile and therefore ensures a durable joining quality. All information on **page 102**.

available July 2019

Side skirts made from PU



These side skirts have the purpose to keep the products on the belt and therefore, actively prevent the goods from getting to the edge of the belt which is where they can become trapped under the belt and cause contamination or damage.

Flat belt materials from **page 55**

Weld-on profile for clamping the side skirts in the fastening rail. See **page 75**

EErgo 90 and guide clamp FZ02/3F: Welding paddle and guide clamps for flat belt strips

We now offer our best-selling welding tool EErgo with a 90mm paddle. Use the guide clamp FZ02/3F for flat belts made of PU or TPE for this purpose. Heating time only approx. 3 minutes. Suitable guide clamp for welding up to 80 mm wide flat strip strips.

All information on **page 96**.

PU sheet material (4 - 8 mm)

For use on conveyor belts as a welded-on conveyor belt profile FDA (cleat) and as aprons, impact protection, tension belts, dampers, covers, seals, etc. in blue and black versions in Shore 84A and 95A.

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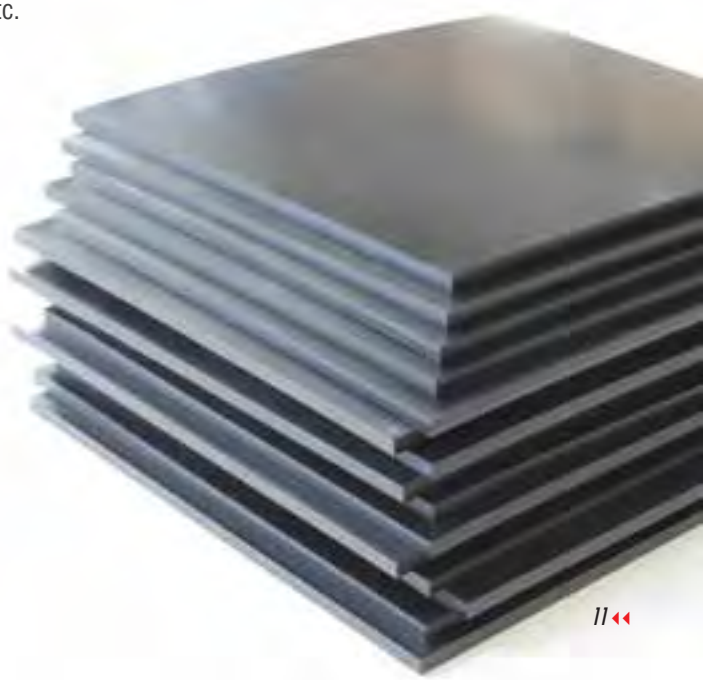

CONVEYOR BELT PROFILES MADE OF PU AND TPE

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General explanation of the product tables

PU85A green rough, reinforcement aramid (2)

(3)

approx. 88° Shore A (4)

Recommended pretension (5) 1...2 %

Order No. (1)	(7) Diameter ∅		(8) Cross section	(9) approx. weight	(10) Standard Roll		(11) Recommended Min. pulley ∅		(12) Fmax/belt (Standard)		(13) Fmax/belt (overlap)	
	mm	inch	cm^2	kg/100 m	m	ft	mm	inch	kg	lbs	kg	lbs
FBZR85A060RA	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

Coeff. of friction µ: Steel: approx. 0,45 | PE: approx. 0,35 | HDPE: approx. 0,30 (6)

Key

(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)	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)	Coefficient of friction µ on steel, PE and HDPE surfaces (Also see coefficient of friction values page 122)
(7)	Profile geometry in mm
(8)	Material cross-section of the profile (For further details on the calculation, see page 122)
(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); smaller pulley diameters reduce lifetime 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)

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. EC/FDA/USDA conformity for smooth profiles.	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 micro-organisms

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

approx. 65° Shore A

Recommended pretension 5...10 %

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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	40	1,6	3,4	7,5
FBRF080LGS	8,0	5/16	0,500	6,0	100	328	50	1,9	6,0	13,2
FBRF095LGS	9,5	3/8	0,710	8,5	100	328	65	2,6	8,5	18,7
FBRF100LGS	10,0	7/16	0,785	9,4	50	164	70	2,7	9,4	20,7

Coeff. of friction µ: Steel: approx. 0,90 | PE: approx. 0,55 | HDPE: approx. 0,50 | **FDA/EC compliant****

PU70A ultramarine blue smooth

approx. 76° Shore A

Recommended pretension 4...8 %

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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

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

** = Limited suitability EC

BEHAbelt
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PU75A red smooth

brown upon request

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm^2	kg/100 m	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 µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

PU75A sky blue smooth

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm^2	kg/100 m	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 µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC/USDA compliant**

PU75A plus orange matt

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBRI020OG	2,0	5/64	0,032	0,5	200	656	10	0,4	0,9	2,0
FBRI030OG	3,0	1/8	0,071	0,9	200	656	20	0,8	1,8	4,0
FBRI040OG	4,0	5/32	0,126	1,6	200	656	30	1,2	3,6	7,9
FBRI048OG	4,8	3/16	0,181	2,2	200	656	35	1,4	5,2	11,4
FBRI050OG	5,0	1/5	0,197	2,4	100	328	40	1,6	5,7	12,5
FBRI060OG	6,0	7/32	0,283	3,4	100	328	50	2,0	8,1	17,8
FBRI063OG	6,3	1/4	0,310	3,8	100	328	55	2,2	8,9	19,6
FBRI070OG	7,0	9/32	0,385	4,7	100	328	60	2,4	11,1	24,4
FBRI080OG	8,0	5/16	0,500	6,0	100	328	65	2,6	14,4	31,7
FBRI095OG	9,5	3/8	0,710	8,5	100	328	75	3,0	20,4	44,9
FBRI100OG	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 µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

PU80A transparent smooth

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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 µ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

PU80A ultramarine blue smooth

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm^2	kg/100 m	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	0500	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 µ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

PU80A ultramarine blue slightly rough

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm^2	kg/100 m	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 µ: Steel: approx. 0,55 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC compliant**

PU80A orange smooth

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs
FBRP84A020	2,0	5/64	0,032	0,5	100	30,48	15	0,6	1,1	2,4
FBRP84A032	3,2	1/8	0,071	0,9	100	30,48	25	1,0	2,1	4,7
FBRP84A032A	3,2	1/8	0,071	0,9	500	152,4	25	1,0	2,2	4,9
FBRP84A040	4,0	5/32	0,126	1,6	100	30,48	30	1,2	4,1	8,9
FBRP84A048	4,8	3/16	0,181	2,2	100	30,48	40	1,6	5,8	12,7
FBRP84A048A	4,8	3/16	0,181	2,2	500	152,4	40	1,6	5,8	12,7
FBRP84A050	5,0	1/5	0,197	2,4	100	30,48	45	1,8	6,2	13,7
FBRP84A060	6,0	7/32	0,283	3,4	100	30,48	55	2,2	9,0	19,8
FBRP84A063	6,3	1/4	0,310	3,8	100	30,48	60	2,4	10,1	22,1
FBRP84A063A	6,3	1/4	0,310	3,8	500	152,4	60	2,4	10,1	22,1
FBRP84A070	7,0	9/32	0,385	4,7	100	30,48	65	2,6	12,4	27,3
FBRP84A079	7,9	5/16	0,500	6,0	100	30,48	75	3,0	16,1	35,3
FBRP84A079A	7,9	5/16	0,500	6,0	500	152,4	75	3,0	16,1	35,3
FBRP84A095	9,5	3/8	0,710	8,5	100	30,48	90	3,5	22,7	49,9
FBRP84A095A	9,5	3/8	0,710	8,5	500	152,4	90	3,5	22,7	49,9
FBRP84A100	10,0	7/16	0,785	9,4	100	30,48	95	3,7	25,3	55,6
FBRP84A120	12,0	15/32	1,130	13,5	100	30,48	110	4,3	36,4	80,0
FBRP84A127	12,7	1/2	1,230	14,8	100	30,48	115	4,5	39,4	86,6
FBRP84A143	14,3	9/16	1,605	21,0	100	30,48	130	5,1	49,4	108,8
FBRP84A159	15,9	6/8	1,985	22,5	100	30,48	150	5,9	64,2	141,2
FBRP84A190	19,0	3/4	2,83	31,0	100	30,48	170	6,7	91,0	200,1

approx. 84° Shore A

Recommended pretension 4...8 %

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

PU80A orange smooth, reinforced Polyester

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/ belt (overlap)	
	mm	inch	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs	kg	lbs
FBRJ060OGA	6,0	7/32	0,283	3,4	100	30,48	55	2,2	9,0	19,8	18,9	41,6
FBRJ063OGA	6,3	1/4	0,310	3,8	100	30,48	60	2,4	10,1	22,1	21,2	46,5
FBRJ070OGA	7,0	9/32	0,385	4,7	100	30,48	65	2,6	12,4	27,3	25,4	55,9
FBRJ080OGA	8,0	5/16	0,500	6,0	100	30,48	80	3,2	16,1	35,3	33,8	74,3
FBRJ095OGA	9,5	3/8	0,710	8,5	100	30,48	90	3,6	22,7	49,9	47,7	104,9
FBRJ100OGA	10,0	7/16	0,785	9,4	100	30,48	100	4	25,3	55,6	53,1	116,8
FBRJ120OGA	12,0	15/32	1,130	13,5	100	30,48	110	4,4	36,4	80,0	76,5	168,3
FBRJ125OGA	12,5	1/2	1,230	14,8	100	30,48	115	4,6	39,4	86,6	82,8	182,2
FBRJ143OGA	14,3	9/16	1,605	21,0	100	30,48	130	5,2	49,4	108,8	104,0	228,7
FBRJ190OGA	19,0	3/4	2,83	31,0	100	30,48	170	6,8	91,0	200,1	191,3	420,8
FBRJ200OGA	20,0	25/32	3,14	40,0	100	30,48	190	7,6	100,6	221,3	211,5	465,3

approx. 84° Shore A

Recommended pretension 0,5...2 %

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

BEHAbelt
Made in Germany

PU80A safe capri blue smooth

Metal and X-ray detectable belt

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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	30,48	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	30,48	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	30,48	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	30,48	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	30,48	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	30,48	100	115	4,5	29,4	64,7
FBRJ143LGM	14,3	9/16	1,605	21,0	30,48	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 µ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

PU85A sapphire blue smooth

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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 µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

PU85A sapphire blue smooth, reinforced Polyester

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	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

approx. 88° Shore A

Recommended pretension 0,5...2 %

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

PU85A green smooth

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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	220	8,8	115,3	253,6

approx. 88° Shore A

Recommended pretension 4...8 %

Coeff. of friction µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

PU85A green rough

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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	220	8,8	115,3	253,6

approx. 88° Shore A

Recommended pretension
4...8 %

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

PU85A green smooth, reinforced Aramid

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	m	ft	mm	inch	kg	lbs	kg	lbs
FBZRP85A050A	5,0	1/5	0,197	2,4	100	328	55	2,2	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 µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

PU85A green rough, reinforced Aramid

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	m	ft	mm	inch	kg	lbs	kg	lbs
FBZR85A050RA	5,0	1/5	0,197	2,4	100	328	55	2,2	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 plus ultramarine blue rough

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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	n/a	n/a	n/a	n/a
FBRK125LR	12,5	1/2	1,230	14,8	50	164	n/a	n/a	n/a	n/a
FBRK150LR	15,0	19/32	1,770	21,5	50	164	n/a	n/a	n/a	n/a

approx. 88° Shore A

Recommended pretension 3...6 %

Coeff. of friction µ: 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 ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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 µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

PU85A ultramarine blue rough, reinforced glass fibre PU

approx. 88° Shore A

Recommended pretension 0,5...2 %

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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	-	-

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

PU85A emerald green smooth, antistatic dissipative

Belt for electrostatic discharge.

approx. 88° Shore A

Recommended pretension 4...8 %

Conductivity approx. 10^9 Ω

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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

Coeff. of friction µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

PU85A black smooth, antistatic conductive

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBRK030SGA	3,0	1/8	0,071	0,9	200	656	25	1,0	2,3	5,1
FBRK040SGA	4,0	5/32	0,126	1,6	200	656	35	1,4	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 µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

Belt for electrostatic discharge, **Conductivity approx. 10^6 Ω, ESD suitable**

PU90A white smooth

red upon request

approx. 92° Shore A

Recommended pretension 3...5 %

Coeff. of friction µ	
Steel	approx. 0,50
PE	approx. 0,30
HDPE	approx. 0,25

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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	65	2,6	13,3	29,2
FBRP90A063	6,3	1/4	0,310	3,8	100	328	70	2,8	14,6	32,2
FBRP90A070	7,0	9/32	0,385	4,7	100	328	75	3	18,3	40,2
FBRP90A080	8,0	5/16	0,500	6,0	100	328	85	3,4	23,8	52,3
FBRP90A095	9,5	3/8	0,710	8,5	100	328	95	3,8	33,3	73,2
FBRP90A100	10,0	7/16	0,785	9,4	50	164	105	4,2	37,3	82,0
FBRP90A120	12,0	15/32	1,130	13,5	50	164	120	4,8	53,3	117,2
FBRP90A125	12,5	1/2	1,23	14,8	50	164	125	5	58,0	127,6
FBRP90A15	15,0	19/32	1,770	21,5	50	164	150	6	83,6	184,0
FBRP90A18	18,0	3/4	2,54	31,0	50	164	185	7,4	119,8	263,5
FBRP90A20	20,0	25/32	3,14	40,0	50	164	200	8	148,3	326,2

PU90A white smooth, reinforced Polyester

approx. 92° Shore A

Recommended pretension 0,5...2 %

Coeff. of friction µ	
Steel	approx. 0,50
PE	approx. 0,30
HDPE	approx. 0,25

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	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	80	3,2	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	125	5	53,8	118,3	101,3	222,8
FBZRP90A125P	12,5	1/2	1,230	14,8	50	164	130	5,2	58,6	128,8	108,8	239,3
FBZRP90A150P	15,0	19/32	1,770	21,5	50	164	155	6,2	84,5	185,9	172,5	379,5
FBZRP90A180P	18,0	3/4	2,54	31,0	50	164	190	7,6	121,0	266,1	225,0	495,0
FBZRP90A200P	20,0	25/32	3,14	40,0	50	164	210	8,4	-	-	-	-

BEHAbelt
Made in Germany

TPE40D beige smooth

TPE 40D beige smooth with reinforcement on request

approx. 40° Shore D / 95° Shore A

Recommended pretension 2...4 %

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBRKO40D020	2,0	5/64	0,032	0,5	200	656	20	0,8	1,9	4,2
FBRKO40D030	3,0	1/8	0,071	0,9	200	656	30	1,2	4,1	9,1
FBRKO40D040	4,0	5/32	0,126	1,6	200	656	40	1,6	7,6	16,6
FBRKO40D048	4,8	3/16	0,181	2,2	200	656	50	2	10,8	23,8
FBRKO40D050	5,0	1/5	0,197	2,4	100	328	55	2,2	11,7	25,7
FBRKO40D060	6,0	7/32	0,283	3,4	100	328	65	2,6	17,0	37,5
FBRKO40D063	6,3	1/4	0,310	3,8	100	328	70	2,8	18,7	41,2
FBRKO40D070	7,0	9/32	0,385	4,7	100	328	75	3	23,0	50,7
FBRKO40D080	8,0	5/16	0,500	6,0	100	328	85	3,4	30,1	66,2
FBRKO40D095	9,5	3/8	0,710	8,5	100	328	95	3,8	42,8	94,2
FBRKO40D100	10,0	7/16	0,785	9,4	50	164	105	4,2	47,1	103,7
FBRKO40D120	12,0	15/32	1,130	13,5	50	164	120	4,8	67,9	149,5
FBRKO40D125	12,5	1/2	1,230	14,8	50	164	125	5	74,0	162,7
FBRKO40D150	15,0	19/32	1,770	21,5	50	164	150	6	106,5	234,2
FBRKO40D180	18,0	3/4	2,54	31,0	50	164	185	7,4	151,4	333,0
FBRKO40D200	20,0	25/32	3,14	40,0	50	164	200	8	188,2	414,0

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

TPE55D beige smooth

Further colours on request

approx. 55° Shore D / 100° Shore A

Recommended pretension 2...4 %

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	cm²	kg/100 m	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	35	1,4	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	75	3	22,4	49,3
FBRH55D063B	6,3	1/4	0,310	3,8	100	328	80	3,2	24,8	54,6
FBRH55D070B	7,0	9/32	0,385	4,7	100	328	90	3,6	30,4	66,9
FBRH55D080B	8,0	5/16	0,500	6,0	100	328	100	4	40,0	88,0
FBRH55D095B	9,5	3/8	0,710	8,5	100	328	120	4,8	56,0	123,2
FBRH55D100B	10,0	7/16	0,785	9,4	50	164	125	5	62,9	138,3
FBRH55D120B	12,0	15/32	1,130	13,5	50	164	150	6	90,6	199,2
FBRH55D125B	12,5	1/2	1,230	14,8	50	164	160	6,4	97,6	214,7
FBRH55D150B	15,0	19/32	1,770	21,5	50	164	180	7,2	140,8	309,8
FBRH55D180B	18,0	3/4	2,54	31,0	50	164	240	9,6	203,2	447,0
FBRH55D200B	20,0	25/32	3,14	40,0	50	164	300	12	251,2	552,6

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

TPE55D beige smooth, reinforced Polyester

55° Shore D · approx. 100° Shore A

Recommended pretension 0,5...2 %

Coeff. of friction µ	
Steel	approx. 0,35
PE	approx. 0,20
HDPE	approx. 0,15

FDA/EC/USDA compliant

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	m	ft	mm	inch	kg	lbs	kg	lbs
FBZRH55D060B	6,0	7/32	0,283	3,4	100	328	75	3,0	22,4	49,3	45,0	99,0
FBZRH55D063B	6,3	1/4	0,310	3,8	100	328	80	3,2	24,8	54,6	48,8	107,3
FBZRH55D070B	7,0	9/32	0,385	4,7	100	328	90	3,5	30,4	66,9	60,0	132,0
FBZRH55D080B	8,0	5/16	0,500	6,0	100	328	100	3,9	40,0	88,0	71,3	156,8
FBZRH55D095B	9,5	3/8	0,771	8,5	100	328	120	4,7	56,0	123,2	90,0	198,0
FBZRH55D100B	10,0	7/16	0,785	9,4	50	164	125	4,9	62,9	138,3	97,5	214,5
FBZRH55D120B	12,0	15/32	1,130	13,5	50	164	150	5,9	90,6	199,2	127,5	280,5
FBZRH55D125B	12,5	1/2	1,230	14,8	50	164	160	6,3	97,6	214,7	135,0	297,0
FBZRH55D150B	15,0	19/32	1,770	21,5	50	164	180	7,1	140,8	309,8	206,3	453,8
FBZRH55D180B	18,0	3/4	2,54	31,0	50	164	240	9,5	203,2	447,0	243,8	536,3
FBZRH55D200B	20,0	25/32	3,14	40,0	50	164	300	11,8	-	-	-	-

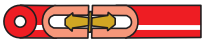
Hollow round belt with nipple connection

Hollow round belts generally offer two advantages:

The flexibility of the belts allows them to be used for small pulley diameters and in the event 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



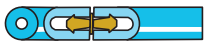
approx. 80° Shore A

Recommended pretension 4...8 %

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	Outside	Inside	cm²	kg/100 m	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 µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

PU75A sky blue smooth hollow round belt



approx. 80° Shore A

Recommended pretension 4...8 %

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	Outside	Inside	cm²	kg/100 m	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 µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC/USDA compliant**

For suitable fitting connectors and information how to use them please refer to page 87.

BEHAbelt Made in Germany

PU85A yellow smooth hollow round belt

approx. 88° Shore A

Recommended pretension 4...8 %

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	Außen	Innen	cm²	kg/100 m	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 µ: 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 ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	Außen	Innen	cm²	kg/100 m	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 µ: 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 ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	Außen	inch	cm²	kg/100 m	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 µ: 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 ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	Außen	Innen	cm²	kg/100 m	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 µ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

For suitable fitting connectors and information how to use them please refer to page 87.

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. 100).

PU95A red smooth, reinforced Aramid

approx. 95° Shore A

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅**		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs	kg	lbs
FBRN095RM	9,5	3/8	0,71	8,5	500	152,4	120	4,7	35,5	78,1	210	462
FBRN100RM	10,0	7/16	0,785	9,4	500	152,4	125	5,0	39,3	86,5	210	462
FBRN120RM	12,0	15/32	1,13	13,5	500	152,4	150	6,2	56,6	124,5	210	462
FBRN125RM	12,5	1/2	1,23	14,8	500	152,4	160	6,5	61,6	136	210	462

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

approx. 95° Shore A

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅**		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs	kg	lbs
FBRN095RMA	9,5	3/8	0,71	8,5	500	152,4	125	4,7	35,5	78,1	210	462

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

PU95A red smooth, reinforced steel

approx. 95° Shore A

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (CRIMP) ★	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	kg	lbs
FBRM095RG	9,5	3/8	0,71	8,5	500	1640	380	15	225	495

Recommended pretension 0,5...2 %, **Coeff. of friction µ:** Steel: approx. 0,35 | PE: approx. 0,20 | HDPE: approx. 0,15

TPE55D beige smooth, reinforced steel

55° Shore D · approx. 100° Shore A

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (CRIMP) ★	
	mm	inch	cm²	kg/100 m	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 %, **Coeff. of friction µ** (approx.)**:** Steel: 0,35 | PE: 0,20 | HDPE: 0,15 | **FDA/EC/USDA compliant**

**Overlap +30%; ★CRIMP Joining Set on page 100

TPE55D sky blue smooth, reinforced Aramid

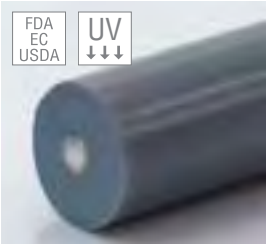
Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅**		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	m	ft	mm	inch	kg	lbs	kg	lbs
FBRS095LGA	9,5	3/8	0,71	8,5	152,4	500	120	4,7	56	123,2	225	495
FBRS100LGA	10,0	7/16	0,785	9,4	152,4	500	125	5,0	62,9	138,3	225	495
FBRS120LGA	12,0	15/32	1,13	13,5	152,4	500	150	6,0	90,6	199,2	225	495
FBRS125LGA	12,5	1/2	1,23	14,8	152,4	500	160	6,3	97,6	214,7	225	495

Recommended pretension 0,5...2 %

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**

TPE63D silver smooth, reinforced Polyester



Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅**		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs	kg	lbs
FBRT095IGA	9,5	3/8	0,710	8,5	500	152,4	140	5,5	59,4	130,6	190	418
FBRT100IGA	10,0	7/16	0,785	9,4	500	152,4	150	5,9	67,0	147,4	190	418
FBRT120IGA	12,0	15/32	1,130	13,5	500	152,4	190	7,5	96,0	211,2	190	418
FBRT125IGA	12,5	1/2	1,230	14,8	500	152,4	200	7,9	102,8	226,2	190	418

Recommended pretension 0,5...2 %

63° Shore D · approx. >100° Shore A

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

TPE63D beige smooth, reinforced Polyester

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs	kg	lbs
FBRT095NGA	9,5	3/8	0,710	8,5	500	152,4	150	5,9	59,4	130,6	190	418
FBRT100NGA	10,0	7/16	0,785	9,4	500	152,4	150	5,9	67,0	147,4	190	418
FBRT120NGA	12,0	15/32	1,130	13,5	500	152,4	190	7,5	96,0	211,2	190	418
FBRT125NGA	12,5	1/2	1,230	14,8	500	152,4	200	7,8	102,8	226,2	190	418

Recommended pretension 0,5...2 %

63° Shore D · approx. >100° Shore A

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

TPE63D beige smooth, reinforced Aramid

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs	kg	lbs
FBRT095NGC	9,5	3/8	0,710	8,5	500	152,4	150	5,9	59,4	130,6	225	495
FBRT100NGC	10,0	7/16	0,785	9,4	500	152,4	150	5,9	67,0	147,4	225	495
FBRT120NGC	12,0	15/32	1,130	13,5	500	152,4	190	7,5	96,0	211,2	225	495
FBRT125NGC	12,5	1/2	1,230	14,8	500	152,4	200	7,8	102,8	226,2	225	495

63° Shore D · approx. >100° Shore A

Recommended pretension 0,5...2 %, **Coeff. of friction µ** (approx.)**:** Steel: 0,30 | PE: 0,15 | HDPE: 0,10 | **FDA/EC/USDA compliant**

**Overlap +30%; ★CRIMP Joining Set on page 100

Twistet round belts / Hook belts

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.

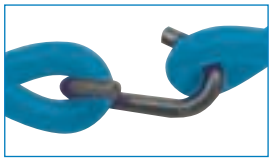
PU70A twisted round belts sky blue smooth

approx. 76° Shore A

Recommended pretension 8...10 %

Order No.	Diameter ∅		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	mm	inch	kg	lbs
FBXH3X250LG FBXH3X710LG	5,0	1/5	40	1,6	2,6	5,8

Available standard lengths of 250...710 mm



Coeff. of friction µ: 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 ∅		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	inch	mm	inch	kg	lbs
FBXI3X250OG FBXI3X450OG	5,0	1/5	40	1,6	5,9	13,0

Available standard lengths of 250...710 mm

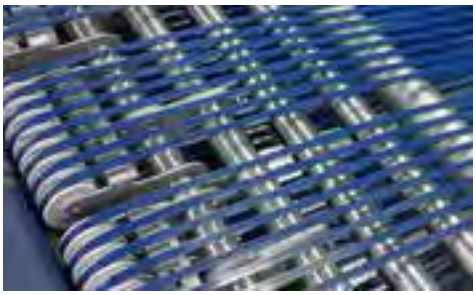
Coeff. of friction µ: Steel: approx. 0,70

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

Construction: 2 x ∅ 3 mm (∅ 5 mm)

Customized hook belts

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	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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	80	3,2	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 µ: 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	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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	80	3,2	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 µ: 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	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs	kg	lbs
FBKI13AHGA	13 x 8 (A)	0,82	10,0	50	164	90	3,5	20,6	45,3	41,2	90,4
FBKI17BHGA	17 x 11 (B)	1,46	18,0	50	164	120	4,7	37,2	81,9	83,8	184,4
FBKI22CHGA	22 x 14 (C)	2,40	29,0	50	164	160	6,3	60,8	133,7	127,5	280,5

approx. 80° Shore A

Recommended pretension 0,5...2 %, **Coeff. of friction µ:** 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	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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 µ:** Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

PU80A orange smooth

notched version possible

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs
FBJ6YOG	6 x 4 (Y)	0,19	2,3	100	30,48	40	1,6	6,2	13,7
FBJ8MOG	8 x 5 (M)	0,32	4,0	100	30,48	45	1,8	10,3	22,6
FBJ10ZOG	10 x 6 (Z)	0,48	6,0	100	30,48	55	2,2	15,4	33,9
FBJ13AOG	13 x 8 (A)	0,82	10,0	100	30,48	85	3,3	26,3	57,9
FBJ17BOG	17 x 11 (B)	1,46	18,0	100	30,48	110	4,3	46,9	103,1
FBJ22COG	22 x 14 (C)	2,40	29,0	100	30,48	150	5,9	77,0	169,5
FBJ32DOG	32 x 20 (D)	5,00	62,0	100	30,48	220	8,7	160,5	353,1

approx. 84° Shore A

Recommended pretension 4...8 %

Coeff. of friction µ: 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	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	ft	m	mm	inch	kg	lbs	kg	lbs
FBJ8MOGA	8 x 5 (M)	0,32	4,0	100	(30,48)	50	2,0	10,3	22,6	21,6	47,5
FBJ10ZOGA	10 x 6 (Z)	0,48	6,0,	100	(30,48)	60	2,4	15,4	33,9	32,4	71,3
FBJ13AOGA	13 x 8 (A)	0,82	10,0	100	(30,48)	90	3,5	25,9	57,0	54,5	119,8
FBJ13AOGA001	13 x 8 (A)	0,82	10,0	(164)	50	90	3,5	25,9	57,0	54,5	119,8
FBJ17BOGA	17 x 11 (B)	1,46	18,0	100	(30,48)	120	4,7	46,9	103,1	98,6	216,8
FBJ17B0GC	17 x 11 (B)	1,46	18,0	(328)	100	120	4,7	46,9	103,1	98,6	216,8
FBJ22COGA	22 x 14 (C)	2,40	29,0	100	(30,48)	160	6,3	77,0	169,5	150,0	330,0
FBJ32DOGA	32 x 20 (D)	5,0	62,0	100	(30,48)	260	10,2	154	338,8	n/a	n/a

approx. 84° Shore A

Recommended pretension 0,5...2 %

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

PU80A transparent smooth

notched version possible

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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 µ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

PU80A safe capri blue smooth

notched version possible

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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 µ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**

PU85A sapphire blue smooth

notched version possible

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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	160	6,3	82,4	181,3

approx. 88° Shore A

Recommended pretension 4...8 %

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

PU85A sapphire blue smooth, reinforced Aramid

notched version possible

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	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	160	6,3	82,4	181,3	175,1	385,2

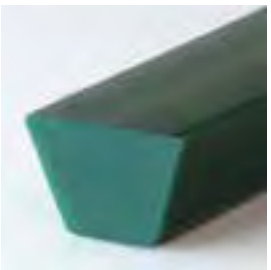
approx. 88° Shore A

Recommended pretension 0,5...2 %

Coeff. of friction µ: 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	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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	160	6,3	87,7	193,0
FBKP85A32	32 x 20 (D)	5,00	62,0	25	82	275	10,8	195,8	430,8

Coeff. of friction µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

PU85A green, reinforced Aramid

notched version possible

approx. 88° Shore A

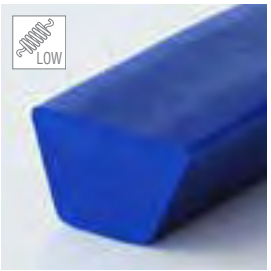
Recommended pretension
0,5...2 %

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	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
FBKK32DGGAA	32 x 20 (D)	5,00	62,0	40	131	275	10,8	193,8	430,8	n/a	n/a

Coeff. of friction µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

PU85A plus blue matt

notched version possible



approx. 88° Shore A

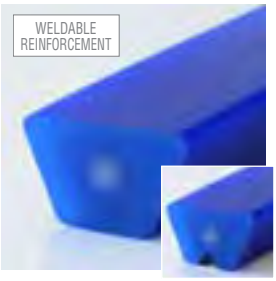
Recommended pretension
3...6 %

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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	160	6,3	99,3	218,4
FBKP85A32BP	32 x 20 (D)	5,00	62,0	25	82	275	10,8	206,8	455,0

Coeff. of friction µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

BEHAbelt Made in Germany

PU85A ultramarine blue, reinforced glass fibre PU



Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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 (groove)	17 x 11 (B)	1,46	18,0	50	164	180	7,1	55,4	122,0
FBZKP85A22 (groove)	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 µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

PU90A white smooth

notched version possible

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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 (natur)	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 µ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

PU90A white, reinforced Polyester

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs	kg	lbs
FBZKP90A08P	8 x 5 (M)	0,32	4,0	100	328	80	3,1	15,4	33,8	30,0	66,0
FBZKP90A10P	10 x 6 (Z)	0,48	6,0	50	164	100	3,9	23,0	50,7	45,0	99,0
FBZKP90A13P	13 x 8 (A)	0,82	10,0	50	164	120	4,7	38,4	84,5	67,5	148,5
FBZKP90A17P	17 x 11 (B)	1,46	18,0	50	164	160	6,3	69,1	152,1	120,0	264,0
FBZKP90A22P	22 x 14 (C)	2,40	29,0	50	164	230	9,0	115,2	253,4	202,5	445,5

approx. 92° Shore A

Recommended pretension 0,5...2 %

Coeff. of friction µ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

PU90A white, reinforced Polyester, with cogged bottom

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBZKP90A13PV	13 x 8 (A)	0,82	10,0	50	164	90	3,5	32,6	71,8
FBZKP90A17PV	17 x 11 (B)	1,46	18,0	50	164)	120	4,7	58,8	129,3
FBZKP90A22PV	22 x 14 (C)	2,40	29,0	50	164	175	7,0	97,9	215,4

approx. 92° Shore A

Recommended pretension 0,5...2 %

Coeff. of friction µ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

PU95A beige, reinforced Polyester

approx. 95° Shore A

Recommended pretension 0,5...2 %

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	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
FBKM17BBGA	17 x 11 (B)	1,46	18,0	50	164	175	6,8	72,0	158,4	120,0	264,0
FBKM22CBGA	22 x 14 (C)	2,40	29,0	50	164	250	9,7	120,0	264,0	202,0	444,4

Coeff. of friction µ: Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20

PU95A beige, reinforced Polyester, with cogged bottom

approx. 95° Shore A

Recommended pretension 0,5...2 %

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBZKP95A13PV	13 x 8 (A)	0,82	10,0	50	164	100	3,9	34,0	74,8
FBZKP95A17PV	17 x 11 (B)	1,46	18,0	50	164	130	5,0	61,2	134,6
FBZKP95A22PV	22 x 14 (C)	2,40	29,0	50	164	190	7,4	102,0	224,4

Coeff. of friction µ: Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20

TPE40D beige smooth

notched version possible

40° Shore D · approx. 95° Shore A

Recommended pretension 2...4 %

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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 µ: Steel: approx. 0,50 | PE: approx. 0,25 | HDPE: approx. 0,20 | **FDA/EC/USDA compliant**

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Made in Germany

TPE55D beige smooth

notched version possible

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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	125	5	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	235	9,4	192,0	422,4

55° Shore D · approx. 100° Shore A

Recommended pretension 2...4 %

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

TPE55D blue smooth

notched version possible

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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	125	5	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	235	9,4	192,0	422,4

55° Shore D · approx. 100° Shore A

Recommended pretension 2...4 %

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

TPE55D beige, reinforced Polyester

notched version possible

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	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	130	5,2	80	176	110	242
FBKH55D17P	17 x 11 (B)	1,46	18,0	50	164	180	7,2	146	321,2	180	396
FBKH55D22P	22 x 14 (C)	2,40	29,0	50	164	250	10	240	528	300	660

55° Shore D · approx. 100° Shore A

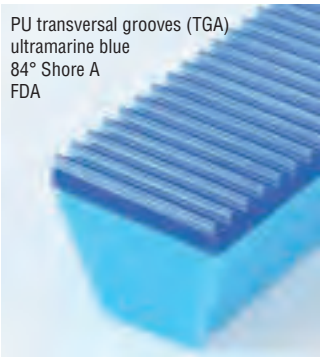
Recommended pretension 0,5...2 %

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

Coated V-belts

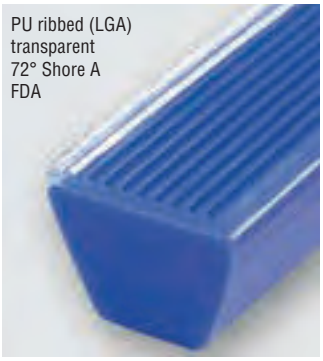
Coatings on V-belts allow to achieve target material properties, e.g. better grip, accumulation or release on a durable base belt. BEHA offers various coating materials, hence we can design belts with optimal features for your application. The “PUtex“ coating is for example THE alternative to Linatex (rubber).

PUtex (Alternative for Linatex)
red
55° and 65° Shore A



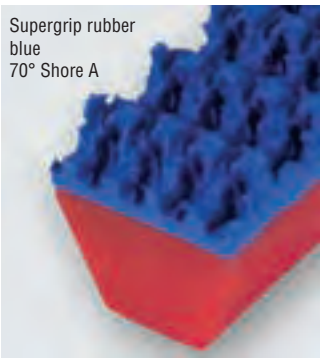
PU transversal grooves (TGA)
ultramarine blue
84° Shore A
FDA

PU sawtooth (EST)
ultramarine blue
80° Shore A
FDA



PU ribbed (LGA)
transparent
72° Shore A
FDA

PU Supergrip (ESG)
ultramarine blue
80° Shore A
FDA



Supergrip rubber
blue
70° Shore A

Supergrip PVC
white
65° Shore A
FDA

Supergrip PVC
green
40° Shore A

Porol black
cell rubber

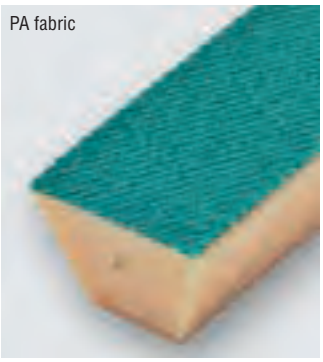
Linatex
red
38° Shore A

Fish bone coating PVC
white
approx. 60° Shore A
FDA

Sawtooth coating PVC
white
approx. 60° Shore A
FDA

Knob coating PVC
white
40° Shore A
FDA

PU foam
Sylomer L
green



PA fabric

PU foil coating
transparent
65A / 72A / 80A / 88A
FDA

BEHAbelt
Made in Germany

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

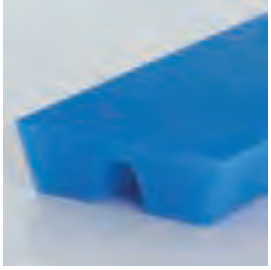
Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBSP75A21X8	21 x 8	1,2	13,9	30	98,4	60	2,3	23,0	50,6

approx. 80° Shore A

Recommended pretension 3...6 %

Coeff. of friction µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

PU75A sky blue smooth



Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBSI30X8LG	30 x 8	1,9	22,4	50	164	60	2,3	45,5	100,1

approx. 80° Shore A

Recommended pretension 3...6 %

Coeff. of friction µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

PU80A orange smooth

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs
FBSJ23X68LGB	23 x 6,8	1,2	14,4	100	30,48	60	2,4	28,8	63,4
FBSJ24X68OGB	24 x 6,8	1,2	14,9	100	30,48	60	2,4	28,8	63,4
FBSP80A21X8	21 x 8	1,2	14,4	100	30,48	80	3,1	28,8	63,4
FBSJ30X8OG	30 x 8	1,9	22,4	100	30,48	80	3,1	45,6	100,3
FBSJ30X8OGC	30 x 8	1,9	22,4	100	30,48	80	3,1	45,6	100,3

approx. 84° Shore A

Recommended pretension 3...6 %

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

PU80A orange smooth, reinforced Polyester

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	kg	lbs	kg	lbs
FBSJ21X8OGA	21 x 8	1,2	14,4	50	164	80	3,1	28,8	63,4	58,4	128,5
FBSJ30X8OGD	30 x 8	1,9	22,4	50	164	80	3,1	45,6	100,3	90,6	199,3

approx. 84° Shore A

Recommended pretension 0,5...2 %

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

PU85A mint green smooth, reinforced Polyester

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	kg	lbs	kg	lbs
FBSK30X8GGA	30 x 8	1,9	22,4	100	30,48	100	3,9	69,8	153,5	102,6	225,7

approx. 88° Shore A

Recommended pretension 0,5...2 %

Coeff. of friction µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

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

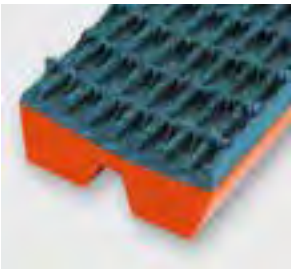
Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs
FBSJ24X68BGB	24 x 6,8	1,26	15	100	30,48	100	3,9	62,1	136,6

approx. 95° Shore A

Recommended pretension 3...5 %

Coeff. of friction µ: Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20

PVC Supergrip coating



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

Neoprene coating / unscrambler belt

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

Special designs Twin-V-belt

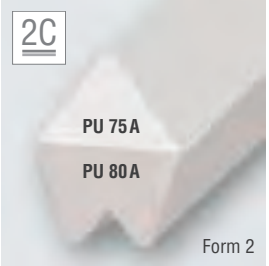
Further versions can be found on page 48.

BEHAbelt
Made in Germany

Rigde 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	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBSP85A17K2	17 x 19	2,0	24,4	30	98,4	160	6,4	48,0	105,6
FBSP85A22K2	22 x 25	3,5	42,3	30	98,4	200	8,0	84,0	184,8

approx. 80/84° Shore A

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

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

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBZSP85A17K2	17 x 19	2,0	24,4	30	98,4	170	6,8	48,0	105,6
FBZSP85A22K2	22 x 25	3,5	42,3	30	98,4	210	8,4	84,0	184,8

approx. 80/84° Shore A

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

PU80A transparent

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBBJ22X25TG0	22 x 25	3,65	43,8	30	98,4	210	8,4	87,6	192,7

approx. 84° Shore A

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

PU80A transparent, reinforced Polyester

Form 2

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBBJ22X25TGA	22 x 25	3,65	43,8	30	98,4	210	8,4	87,6	192,7

approx. 84° Shore A

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

PU85A green

Form 1

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBSP85A17ON	17 x 19	1,95	23,6	30	98,4	180	7,2	53,8	118,4
FBSP85A22ON	22 x 25	3,26	39,1	30	98,4	220	8,8	90,0	198,0

approx. 88° Shore A

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

PU85A green

Form 2

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBAK17X19GG	17 x 19	2,13	25,6	30	98,4	190	7,6	59,0	129,8
FBAK22X25GG	22 x 25	3,65	43,8	30	98,4	240	9,6	100,7	221,6

approx. 88° Shore A

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

PU85A green, reinforced Polyester

Form 2

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBBK17X19GGA	17 x 19	2,13	25,6	30	98,4	190	7,6	59,0	129,8
FBBK22X25GGA	22 x 25	3,65	43,8	30	(98,4)	240	9,6	100,7	221,6

approx. 88° Shore A

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

PU85A blue, reinforced glass fibre PU

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBZSP85A17ON	17 x 19	1,95	23,63	30	98,4	240	9,6	78,0	171,6
FBZSP85A22ON	22 x 25	3,26	39,1	30	98,4	280	11,2	130,4	286,9

approx. 88° Shore A

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

PU85A blue, reinforced glass fibre PU

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBBK17X19LGA	17 x 19	2,13	25,6	30	98,4	260	10,4	85,2	187,4
FBBK22X25LGA	22 x 25	3,65	43,8	30	98,4	300	12	146,0	321,2

approx. 88° Shore A

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

PU95A beige

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBAM17X19BG	17 x 19	1,95	23,6	30	98,4	200	8	97,5	214,5
FBAM22X25BG	22 x 25	3,26	39,1	30	98,4	250	10	163,0	358,6

approx. 95° Shore A

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

PU95A beige

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBBM17X19BG	17 x 19	2,13	25,6	30	98,4	210	8,4	106,5	234,3
FBBM22X25BG	22 x 25	3,65	43,8	30	98,4	260	10,4	182,5	401,5

approx. 95° Shore A

Recommended pretension 3...5 %, **Coeff. of friction µ:** 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)

approx. 76° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBTH9X4GL	9 x 4	0,23	2,8	70	229,6	25	1,0	4,5	9,9

Recommended pretension 4...8 %

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

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

approx. 72° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBTG95X35LA	9,5 x 3,5	0,20	2,4	30	98,4	20	0,8	2,9	6,4

Recommended pretension 4...8 %

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

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

approx. 84° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBTJ95X35L	9,5 x 3,5	0,20	2,4	30	98,4	30	1,2	5,2	11,4

Recommended pretension 4...8 %

Coeff. of friction µ: 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)

approx. 88° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBTK95X35L	9,5 x 3,5	0,20	2,4	30	98,4	50	2,0	6,0	13,2

Recommended pretension 3...6 %

Coeff. of friction µ: 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)

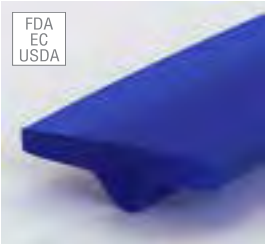
approx. 84° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBTI2X45X10L	10 x 4,5	0,27	3,3	30	98,4	40	1,6	8,1	17,8

Recommended pretension 4...8 %

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

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



approx. 84° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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 %

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

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

approx. 84° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs
FBTJ142X75O	14,3 x 7,5	0,72	8,7	100	30,48	80	3,1	17,3	38,1

Recommended pretension 3...6 %

Coeff. of friction µ: 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)

approx. 84° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs
FBTJ143X63OG	14,3 x 6,3	0,58	7,0	100	30,48	80	3,1	13,9	30,6

Recommended pretension 3...6 %

Coeff. of friction µ: 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)

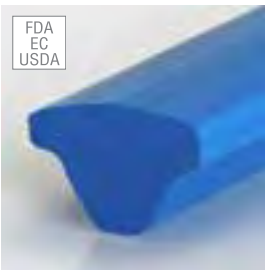
approx. 84° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBTJ192X55OG	19,2 x 5,5	0,65	7,8	30	98,4	40	1,6	15,6	34,3

Recommended pretension 3...6 %

Coeff. of friction µ: 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)



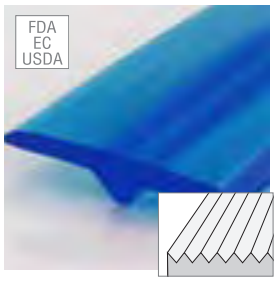
Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBSP75A8X5HI	8 x 5	0,25	3,1	40	131	30	1,2	6,0	13,2

Recommended pretension 4...8 %

approx. 80° Shore A

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

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



Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBSP85A25X5B	25 x 5	0,59	7,3	30	98,4	50	2,0	15,2	33,4
FBTK25X5LGA (ribbed)	25 x 5	0,59	7,3	30	98,4	50	2,0	15,2	33,4

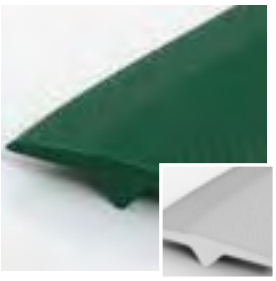
**Longitudinal grooves (LGD)

Recommended pretension 3...6 %

approx. 88° Shore A

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

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



● ○ also available: smooth

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBTK25X5GW01 (green, embossed)	25 x 5	0,58	7,0	50	164	50	2,0	16,0	35,2
FBSP85A25X5 (green, smooth)	25 x 5	0,58	7,0	50	164	50	2,0	16,0	35,2
FBTK25X5WW01 (white, embossed)	25 x 5	0,58	7,0	50	164	50	2,0	16,0	35,2
FBSP85A25X5A (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 µ:** Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

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

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBSP85A20X8W (white)	20x8	0,83	10,0	30	98,4	100	4,0	21,4	47,1
FBSP85A20X8 (sapphire blue)	20x8	0,83	10,0	30	98,4	100	4,0	21,4	47,1

Recommended pretension 3...6 %

approx. 88° Shore A

Coeff. of friction µ: Steel: approx. 0,60 | 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

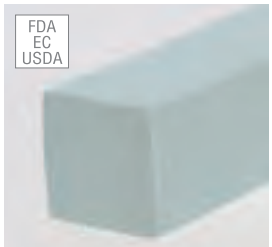
Order No.	Profile dimension	Cross section	approx. weight	Standard Roll	Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	ft	mm	inch	kg	lbs
FBSP85A180S1	18 x 11,8	1,70	20,0	1 x 30`5`` / pcs.	120	4,7	43,9	96,6
FBSP85A180S6	18 x 11,8	1,70	20,0	6 x 30`5`` / pcs.	120	4,7	43,9	96,6

Recommended pretension 3...6 %

approx. 88° Shore A

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

Square Profile PU85A milky smooth



Order No.	Profile dimension	Cross section	approx. weight	Standard Roll	Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	ft	mm	inch	kg	lbs
FBSP85A118S1	11,8 x 11,8	1,39	16,7	1 x 30`5`` / pcs.	120	4,7	35,9	79,0
FBSP85A118S6	11,8 x 11,8	1,39	16,7	6 x 30`5`` / pcs.	120	4,7	35,9	79,0

Recommended pretension 3...6 %

approx. 88° Shore A

Coeff. of friction µ: 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 transfered to the next processing step.

Corn belt PU80A orange smooth with / without serrations

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs
FBSJ8X33OG**	33 x 8	1,9	22,8	100	30,48	50	2,0	45,6	100,3
FBSJ8X33OGA	33 x 8	1,9	22,8	100	30,48	50	2,0	45,6	100,3

Recommended pretension 3...6 %

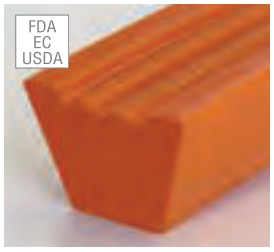
approx. 84° Shore A

Coeff. of friction µ: 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



approx. 84° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm^2	kg/100 m	ft	(m)	mm	inch	kg	lbs
FBSI17BOGR3	17 x 11 (B)	1,46	18,0	100	30,48	110	4,3	43,8	96,4
FBSI22COGR3	22 x 14 (C)	2,40	29,0	100	30,48	150	5,9	72,0	158,4

Recommended pretension 4...8 %

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

PU85A (15 x 10 mm) sapphire blue

approx. 88° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm^2	kg/100 m	ft	(m)	mm	inch	kg	lbs
FBSK15X10LG	15 x 10	1,2	14	100	30,48	100	3,9	41,0	90,2

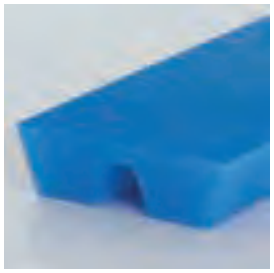
Recommended pretension 4...8 %, **Coeff. of friction µ:** Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30

PU95A (12 x 8 mm) beige

approx. 95° Shore A

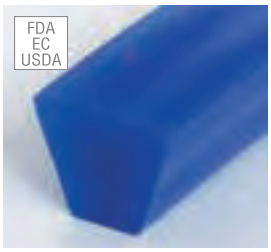
Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	kg	lbs
FBSM12X8BG	12 x 8	0,67	7,9	50	164	120	4,7	32,7	71,9

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



Please also note other parallel V-belts on page 39.

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



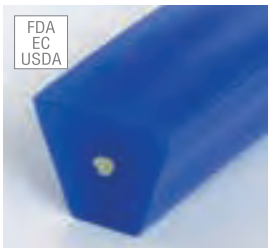
approx. 84° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm^2	kg/100 m	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 µ: 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	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm^2	kg/100 m	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 µ: 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.

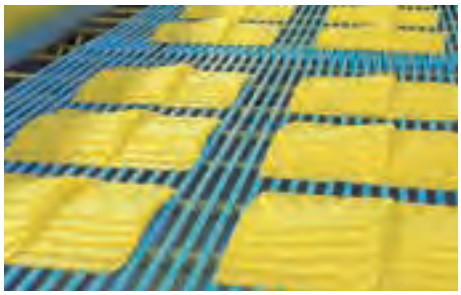
PU80A Pear Profile (28 x 29 mm) white reinforced Polyester

approx. 84° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm^2	kg/100 m	m	ft	mm	inch	kg	lbs
FBSJ28X29WG	28 x 29	5,1	61	30,48	100	350	13,8	163,6	360

Recommended pretension 0,5...2 %

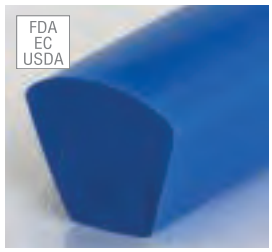
Coeff. of friction µ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant**



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



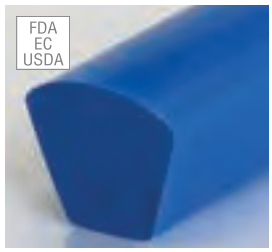
approx. 80° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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 µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC/USDA compliant**

PU80A ultramarine blue smooth with vaulted top



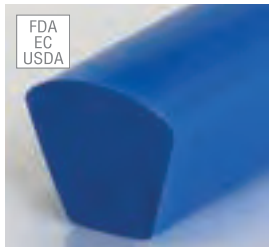
approx. 84° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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 µ: 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	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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 µ: 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 38) for different applications.

PU90A T-V-belt red, reinforced Aramid

notched version possible

approx. 92° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBSL17X13X25	17 x 13 x 25	1,88	23	50	164	210	8,3	90,2	198,4
FBSL22X16X25	22 x 16 x 25	2,82	34	30	98,4	280	11,0	135,4	297,9

Recommended pretension 0,5...2 %, **Coeff. of friction µ:** Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

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

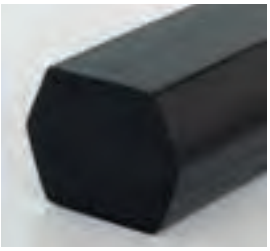
55° Shore D · approx. 100° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	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 %

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

PU80A and PU85A Double V-belt black (17 x 13,5 mm)



Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBSJ17X13SG	17 x 13,5	1,92	2,3	50	164	150	5,9	61,6	135,5
FBSK17X13SG	17 x 13,5	1,92	2,3	50	164	160	6,3	69,7	153,3

approx. 84° Shore A

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

approx. 88° Shore A

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

Logistic - 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 14 and following.

PU75A plus V-ribbed belt, orange

approx. 80° Shore A

Order No.	Description	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
		mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBPVIPJ2O	PJ2	4,8 x 4	0,16	1,96	200	656	30	1,2	7,2	15,8
FBPVIPJ3O	PJ3	7 x 4	0,24	2,93	200	656	30	1,2	10,5	23,1
FBPVIPJ4O	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 µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

PU85A plus V-ribbed belt ultramarine blue

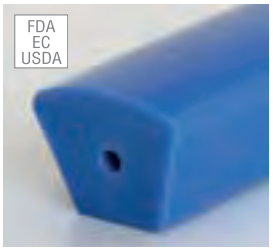
approx. 88° Shore A

Order No.	Description	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
		mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBPVKPJ2L	PJ2	4,8 x 4	0,16	1,96	200	656	40	1,6	10,3	22,7
FBPVKPJ3L	PJ3	7 x 4	0,24	2,93	200	656	40	1,6	15,0	33,1
FBPVKPJ4L	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 µ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

TPE55D *blue*power smooth



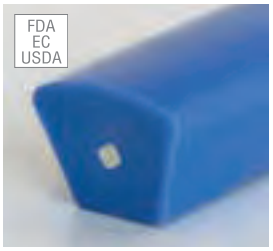
55° Shore D · approx. 100° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBKBLP17113W	17 x 11,3	1,49	18,0	50	164	175	7,0	119,2	262,2
FBKBLP1711W2	17 x 11,3	1,49	18,0	100	328	175	7,0	119,2	262,2

Recommended pretension 2...4 %

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

TPE55D *blue*power smooth, reinforced Polyester



55° Shore D · approx. 100° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs	kg	lbs
FBKBLP1711W3	17 x 11,3	1,49	18,0	100	328	180	7,1	119,2	262,2	150,0	330,0

Recommended pretension 0,5...2 %

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

TPE55D beige smooth with chamfer

55° Shore D · approx. 100° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBKH55D17115	17 x 11,4	1,45	18,0	100	328	175	7,0	116,0	255,2

Recommended pretension2...4 %

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

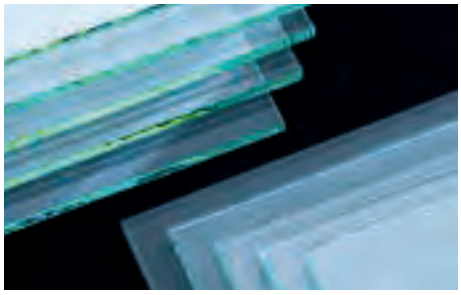
TPE55D beige smooth with chamfer, reinforced Polyester

55° Shore D · approx. 100° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs	kg	lbs
FBKS17115BGA	17 x 11,4	1,45	18,0	100	328	180	7,1	116,0	255,2	150,0	330,0

Recommended pretension 0,5...2 %

Coeff. of friction µ: Steel: approx. 0,35 | PE: approx. 0,20 | HDPE: approx. 0,15 | **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

approx. 84° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)	
	mm	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs
FBSI17X10OG	17 x 11 x 16,5	1,56	18,7	100	30,48	125	4,9	35,1	77,2

Recommended pretension 3...6 %

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

Didn‘t find your belt?

no minimum order quantities

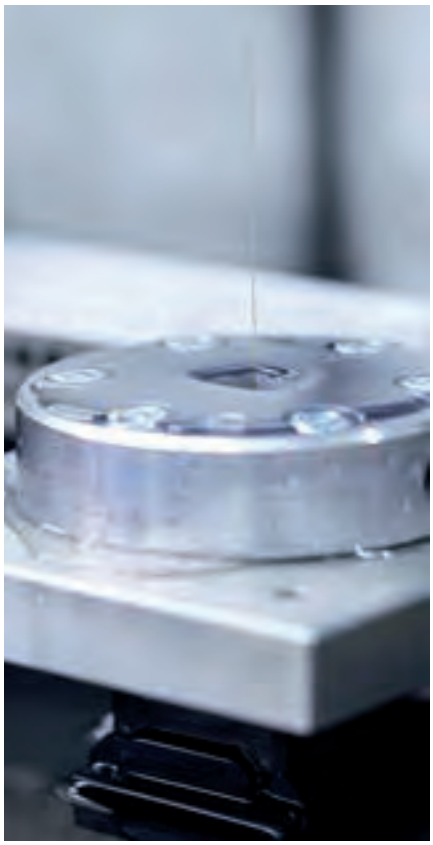
according to your specifications | **in only 4-8 weeks**

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 124 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

ELASTIC MONOLITHIC CONVEYOR BELTS

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Overview belt structures 59
Table structure key 60
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Elastic monolithic conveyor belts 360 mm 73
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Welding electrodes 86

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.

Advantages

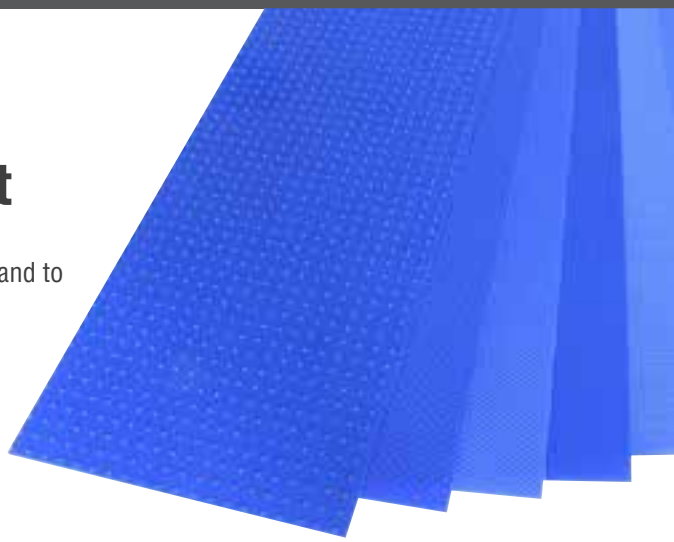
PRODUCT DESIGN	HANDLING
No risk of contamination based on exposed belt fabrics or due to mechanical damage to belt edges	Easy installation of elastic belt versions due to elasticity
Part of a preventive hygienic machinery design concerning food safety	Softer belts allow even a hand mounted possibility with fixed center to center machinery designs without any take up
Excellent cleanability and microbial resistance	Butt-end weldings can be made with a user-friendly tool, which ensures no loss of surface structure, homogeneity and elasticity in the joining
Homogeneously added product feature options: Metal detectable, X-ray detectable, UV-C resistant, antistatic discharging	Excellent welding/application of accessories like sidewalls, cleats and V-guides

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	APPLICATIONS
Food (Fish, Meat, Poultry, Fruit & Vegetable, Confectionery and Bakery)	General conveying, Separation and Acceleration
Packaging (Food and Non-Food)	Weighing, Sorting, Portioning
Pharmacy	Feeding, Cutting, Detecting (metal detectors)
Logistics and Material Handling	and many more

BEHAbelt has the broadest product range in the market



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

We currently offer eight different structures for the top side, which can be combined with three structures for the bottom side. Five of these structures (nipples, diamond, smooth matt, transversal and longitudinal grooves) are also available with the unique „MICROclean“ finish.

Material features

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

FDA EC USDA — FDA/EC conformity for structured surfaces
FDA/EC/USDA conformity for smooth surfaces

Antistatic conveyor belts to ensure electrical discharge in sensitive applications

METAL — Metal detectable belts for utmost food safety. These products are part of the PU SAFE product line

X-RAY — X-ray detectable belts for utmost food safety. These products are part of the PU SAFE product line

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

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

UV — Protection against UV-C waves generated by respective disinfection device

MICRO CLEAN — Unique surface finish for improved release of sticky goods and excellent cleanability

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

2C — The 2-component production enables the combination of different material hardness grades, properties and colours.

Hardness

BEHAbelt distinguish between two hardness ranges.

SOFT	PU65A, PU75A, PU80A
HART	PU95A, TPE55D, TPE63D

Thickness

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

0,9 mm
1 mm
1,2 mm
1,6 mm
2 mm
3 mm
4 mm

METAL AND X-RAY DETECTABLE

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

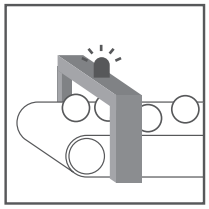
The avoidance of such incidents is a great challenge, because plastic parts in particular are very difficult to detect.

To support your HACCP-system BEHAbelt now offers with its PU80Asafe product line, an optimized design of profiles and conveyor belts for a better protection of manufacturers and consumers.

The BEHAbelt PU80Asafe PU-conveyor belts enable, thanks to a special recipe, to detect and ejected synthetic particles from the production process by means of metal and X-ray detectors.

In order to clarify the detection possibilities with regard to the smallest possible particle size in combination with the test conditions prevailing in your case, please let us know the iron test ball diameter used in this process section.

We will then be happy to discuss with you the specific procedure and detection tests to adapt your conveyor line to our specific belt solution.



MICRO*clean* BELT SURFACE

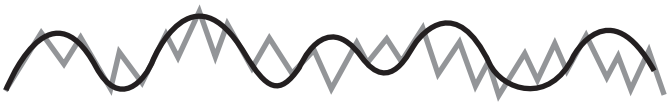
MICRO CLEAN

BEHAbelt developed a new belt surface for the special requirements of the food industry. This surface sets a new standard for hygiene and gentle product conveying.

The nanostructure of the MICROclean surface allows for improved and faster cleaning of the belt surface thanks to the special surface design, which can only be seen with a magnifying glass, and also better and easier release of the products conveyed especially when the product is transferred to the next conveyor section. For such requirements, typically structured belt surfaces with a slightly roughened surface or an inverted diamond structure are used today instead of the more unsuitable smooth belt structures causing product suction effects.

The MICROclean surface as a smooth belt design compensates the disadvantages with regard to the cleanability of such belt structures, which becomes especially evident when belt scrapers are used.

The graphic representation illustrates the functional principle of the



Belt surface smooth gloss (SG)

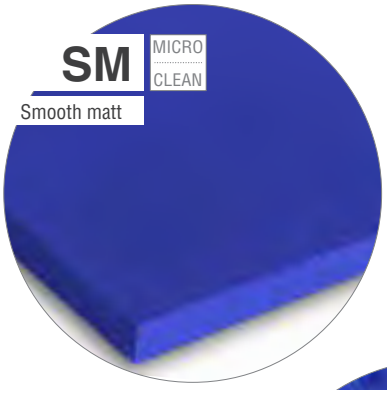
Belt surface MICRO*clean* smooth matt (SM)

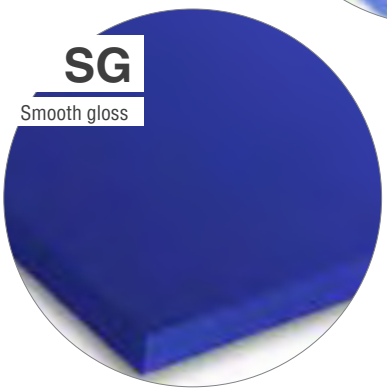
MICROclean surface. Under a magnifying glass even smooth belt surfaces are not perfectly smooth, i.e. pit and land structures can also be seen. The MICROclean surface is outstanding by the design of this belt structure with rounded-off structural edges. These rounded-off edges allow quickly and easily removing contamination (cleanability and reduced cleaning time) and also prevent the conveyed products from “interlocking” with the belt structure which happens frequently in the case of sharp-edged belt surfaces.

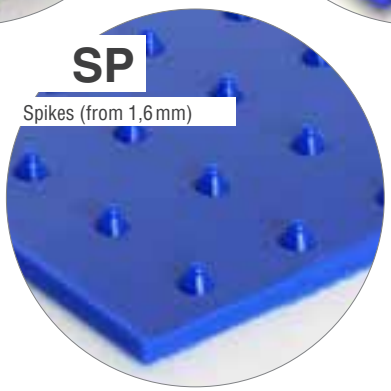
Due to the almost non-existent structural depths such belts can also be used with 1 mm belt thickness for particularly small pulley diameters and product transfer conditions. BEHAbelt offers the advantages of this MICROclean belt surface in addition to the smooth and mat (SM) design also as “structure-in-structure” as the standard for the BEHAbelt belt surfaces nipples (NP) and inverted diamond (ID).

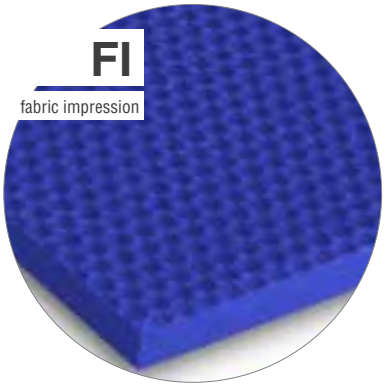
OVERVIEW BELT STRUCTURES

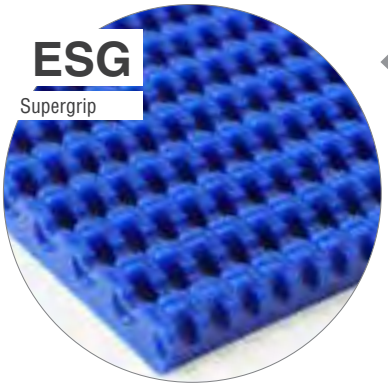
The belt structures shown here can be combined almost arbitrarily. In addition, you have the option of individual colouring and dedicated product properties, such as UV-C resistance or antistatic conductivity; see previous page.











width up to 360 mm

Table structure key

General explanation of the product tables

BOTTOM SIDE: SMOOTH GLOSS (SG) (1)

Top side	(4) Colour	(5) Features	(6) Quality	(7) Hardness Shore	(8) Profile thickness mm	(8) Profile thickness inch	(9) Weight* per m² approx. kg	(10) Recommended Min. pulley ∅ mm	(10) Recommended Min. pulley ∅ inch	(11) Pull force for k1% pretension N/mm	(11) Pull force for k1% pretension lbs/inch	(12) Standard Roll m	(12) Standard Roll ft	(13) Recommended pretension
Diamond (ID) (3)		FDA EC USDA, MICRO CLEAN	PU95A	95 A	2,0	5/64	1,80	35	1,40	1,00	5,60	50	164	0,5-3%
					3,0	1/8	2,70	50	2,00	1,50	8,40	50	164	0,5-3%

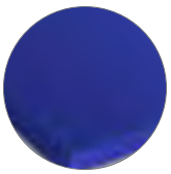
Key

(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)	Approx. weight in kg per m² (production width 750 mm)
(10)	Recommended minimum pulley diameter (mm). Note: Smaller pulley diameters shorten the service life of the belt.
(11)	Belt tensile force* per 1% elongation k1% (N/mm; lbs/inch) for calculation of preload force and axle and bearing load
(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 120

Symbols

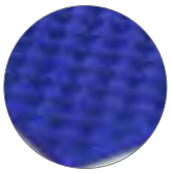
Antistatic discharge conveyor belts with excellent mechanical properties	Protection against UV-C waves generated by respective disinfection device	FDA/EC conformity for structured surfaces FDA/EC/USDA conformity for smooth surfaces	Metal and X-ray detectable conveyor belts for maximum food safety.	Hydrolysis resistance (HY). Suitable for humid environments.	Microbe-resistant materials do not provide a breeding ground for micro-organisms	Unique surface finish for improved release of sticky goods and excellent cleanability



BOTTOM SIDE: SMOOTH GLOSS (SG), WIDTH 750 mm

FDA EC USDA

Top side	Colour	Features	Quality	Hard-ness	Profile thickness		Weight* per m²	Recommended Min. pulley ∅		Pull force for k1% pretension		Standard Roll		Recommended pretension
				Shore	mm	inch	approx. kg	mm	inch	N/mm	lbs/inch	m	ft	
smooth gloss (SG)		FDA EC USDA	PU95A	95 A	2,0	5/64	2,40	35	1,40	1,00	5,60	50	164	0,5-3%
					3,0	1/8	3,60	50	2,00	1,50	8,40	50	164	0,5-3%
smooth gloss (SG)		FDA EC USDA	PU95A	95 A	2,0	5/64	2,40	35	1,40	1,00	5,60	50	164	0,5-3%
					3,0	1/8	3,60	50	2,00	1,50	8,40	50	164	0,5-3%



BOTTOM SIDE: INVERTED DIAMOND (ID), WIDTH 750 mm

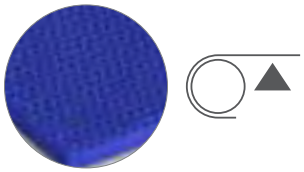
FDA EC USDA, MICRO CLEAN

Top side	Colour	Features	Quality	Hard-ness	Profile thickness		Weight* per m²	Recommended Min. pulley ∅		Pull force for k1% pretension		Standard Roll		Recommended pretension
				Shore	mm	inch	approx. kg	mm	inch	N/mm	lbs/inch	m	ft	
smooth gloss (SG)		FDA EC USDA, UV	PU80A	84 A	1,8	7/96	2,16	18	0,71	0,36	2,03	50	164	1-5%
		FDA EC USDA			2,0	5/64	2,40	20	0,80	0,40	2,25	50	164	1-5%
smooth gloss (SG)		FDA EC USDA	PU95A	95 A	2,0	5/64	2,40	35	1,40	1,00	5,60	50	164	0,5-3%
					3,0	1/8	3,60	50	2,00	1,50	8,40	50	164	0,5-3%
smooth gloss (SG)		FDA EC USDA	PU95A	95 A	2,0	5/64	2,40	35	1,40	1,00	5,60	50	164	0,5-3%
					3,0	1/8	3,60	50	2,00	1,50	8,40	50	164	0,5-3%
smooth matt (SM)		FDA EC USDA, 2C, UV, MICRO CLEAN	PU80A PU65A	84 A	1,8	7/96	2,16	15	0,60	0,26	1,46	50	164	1-5%
slightly rough (SR)		FDA EC	PU80A	84 A	1,0	2/50	1,20	10	0,40	0,20	1,10	50	164	1-5%
		FDA EC, UV			1,2	3/64	1,44	12	0,47	0,24	1,35	50	164	1-5%
					1,8	7/96	2,16	18	0,71	0,36	2,03	50	164	1-5%
Diamond (ID)		FDA EC USDA, MICRO CLEAN	PU80A	84 A	2,2	1/24	2,64	22	0,87	0,44	2,48	50	164	1-5%
Diamond (ID)		FDA EC USDA, 2C, UV, MICRO CLEAN	PU80A PU65A	84 A	2,2	1/24	2,64	18	0,71	0,28	1,58	50	164	1-5%
Transversal (TGA)		FDA EC, MICRO CLEAN, UV	PU80	84 A	2,8	7/64	2,76	25	1,00	0,46	2,59	50	164	1-5%
Spikes (SP)		FDA EC, UV	PU80	84 A	2,0	5/64	2,64	20	0,80	0,40	2,25	50	164	1-5%

BOTTOM SIDE: SLIGHTLY ROUGH (SR), WIDTH 750 mm

FDA EC

Top side	Colour	Features	Quality	Hardness Shore	Profile thickness mm	Profile thickness inch	Weight* per m² approx. kg	Recommended Min. pulley ∅ mm	Recommended Min. pulley ∅ inch	Pull force for k1% pretension N/mm	Pull force for k1% pretension lbs/inch	Standard Roll m	Standard Roll ft	Recommended pretension
Diamond (ID)		FDA EC, MICRO CLEAN	PU80A	84 A	1,0	2/50	1,20	10	0,40	0,20	1,10	50	164	1-5%
		FDA EC, UV, MICRO CLEAN			1,2	3/64	1,44	12	0,47	0,24	1,35	50	164	1-5%
					1,8	7/96	2,16	18	0,71	0,36	2,03	50	164	1-5%
smooth gloss (SG)	transparent	FDA EC	PU80A	84 A	1,6	1/16	1,92	15	0,60	0,32	1,80	50	164	1-5%

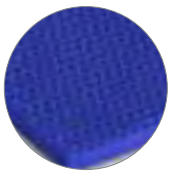


BOTTOM SIDE: FABRIC IMPRESSION (FI), WIDTH 750 mm

FDA EC

Top side	Colour	Features	Quality	Hardness Shore	Profile thickness mm	Profile thickness inch	Weight* per m² approx. kg	Recommended Min. pulley ∅ mm	Recommended Min. pulley ∅ inch	Pull force for k1% pretension N/mm	Pull force for k1% pretension lbs/inch	Standard Roll m	Standard Roll ft	Recommended pretension
smooth gloss (SG)		FDA EC	PU65A	72 A	2,0	5/64	2,40	12	0,50	0,16	0,90	50	164	1-5%
smooth gloss (SG)		FDA EC	PU75A	80 A	1,6	1/16	1,92	15	0,60	0,24	1,30	50	164	1-5%
					2,0	5/64	2,40	20	0,80	0,30	1,70	50	164	1-5%
					3,0	1/8	3,60	30	1,18	0,45	2,53	50	164	1-5%
					4,0	5/32	4,80	40	1,57	0,60	3,38	30	100	1-5%
smooth matt (SM)		FDA EC, MICRO CLEAN	PU75A	80 A	1,0	2/50	1,20	10	0,40	0,15	0,85	50	164	1-5%
					1,6	1/16	1,92	15	0,60	0,24	1,30	50	164	1-5%
					2,0	5/64	2,40	20	0,80	0,30	1,70	50	164	1-5%
					3,0	1/8	3,60	30	1,20	0,45	2,50	50	164	1-5%
smooth matt (SM)		FDA EC, MICRO CLEAN	PU75A	80 A	1,0	2/50	1,20	10	0,40	0,15	0,85	50	164	1-5%
					2,0	5/64	2,40	20	0,80	0,30	1,70	50	164	1-5%
smooth matt (SM)		FDA EC, MICRO CLEAN	PU80A	84 A	1,0	2/50	1,20	10	0,40	0,20	1,10	50	164	1-5%
					1,6	1/16	1,92	15	0,60	0,32	1,80	50	164	1-5%
					2,0	5/64	2,40	20	0,80	0,40	2,25	50	164	1-5%

* Band width 750 mm

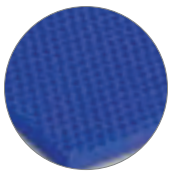


BOTTOM SIDE: FABRIC IMPRESSION (FI), WIDTH 750 mm

FDA EC

Top side	Colour	Features	Quality	Hardness Shore	Profile thickness mm	Profile thickness inch	Weight* per m² approx. kg	Recommended Min. pulley ∅ mm	Recommended Min. pulley ∅ inch	Pull force for k1% pretension N/mm	Pull force for k1% pretension lbs/inch	Standard Roll m	Standard Roll ft	Recommended pretension
smooth matt (SM)		FDA EC, MICRO CLEAN, METAL, X-RAY	PU80A SAFE	84 A	1,0	2/50	1,38	10	0,40	0,18	1,01	50	164	1-5%
					1,6	1/64	2,21	15	0,60	0,29	1,60	50	164	1-5%
					2,0	5/64	2,76	20	0,80	0,36	2,00	50	164	1-5%
					3,0	1/8	4,14	30	1,20	0,54	3,00	50	164	1-5%
smooth matt (SM)		FDA EC, MICRO CLEAN	PU95A	95 A	1,0	2/50	1,20	18	0,71	0,50	2,81	50	164	0,5-3%
					1,6	1/64	1,92	25	1,00	0,80	4,50	50	164	0,5-3%
					2,0	5/64	2,40	35	1,40	1,00	5,60	50	164	0,5-3%
					3,0	1/8	3,60	50	2,00	1,50	8,40	50	164	0,5-3%
					4,0	5/32	4,80	75	3,00	2,00	11,20	30	100	0,5-3%
smooth matt (SM)		FDA EC, MICRO CLEAN	PU95A	95 A	1,6	1/64	1,92	25	1,00	0,80	4,50	50	164	0,5-3%
					2,0	5/64	2,40	35	1,40	1,00	5,60	50	164	0,5-3%
					3,0	1/8	3,60	50	2,00	1,50	8,40	50	164	0,5-3%
slightly rough (SR)		FDA EC	PU80A	84 A	1,0	2/50	1,20	10	0,40	0,20	1,10	50	164	1-5%
					1,2	3/64	1,44	10	0,40	0,25	1,40	50	164	1-5%
					1,6	1/16	1,92	15	0,60	0,32	1,80	50	164	1-5%
					2,0	5/64	2,40	20	0,80	0,40	2,25	50	164	1-5%
slightly rough (SR)		FDA EC	PU80A	84 A	0,9	1/32	1,05	8	0,31	0,18	1,01	50	164	1-5%
					1,2	3/64	1,44	10	0,40	0,25	1,40	50	164	1-5%
					1,6	1/64	1,92	15	0,60	0,32	1,80	50	164	1-5%
Spikes (SP)		FDA EC	PU80A	84 A	1,2	3/64	1,68	12	0,50	0,25	1,20	50	164	1-5%
					2,0	5/64	2,60	25	1,00	0,40	2,25	50	164	1-5%
Spikes (SP)		FDA EC	PU95A	95 A	2,0	5/64	2,60	40	1,57	1,00	5,60	50	164	0,5-3%
Nipples (NP)		FDA EC, MICRO CLEAN	PU65A	72 A	2,0	5/64	2,40	15	0,60	0,16	0,90	50	164	1-5%
Nipples (NP)		FDA EC, MICRO CLEAN	PU80A	84 A	1,6	1/16	1,92	15	0,60	0,32	1,80	50	164	1-5%
					2,0	5/64	2,40	20	0,80	0,40	2,25	50	164	1-5%

* Band width 750 mm



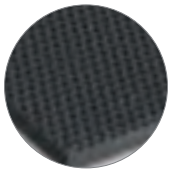
BOTTOM SIDE: FABRIC IMPRESSION (FI), WIDTH 750 mm

FDA EC

Top side	Colour	Features	Quality	Hard-ness	Profile thickness		Weight* per m²	Recommended Min. pulley ∅		Pull force for k1% pretension		Standard Roll		Recommended pretension
				Shore	mm	inch	approx. kg	mm	inch	N/mm	lbs/inch	m	ft	
Diamond (ID)		FDA EC USDA, MICRO CLEAN	PU80A	84 A	1,6	1/16	1,92	15	0,60	0,32	1,80	50	164	1-5%
					2,0	5/64	2,40	20	0,80	0,40	2,25	50	164	1-5%
Longitudinal (LGB)		FDA EC, MICRO CLEAN	PU80A	84 A	1,6	1/16	1,92	15	0,60	0,30	1,70	50	164	1-5%
Transversal (TGA)		FDA EC, MICRO CLEAN	PU80A	84 A	2,5	1/10	2,40	20	0,80	0,40	2,25	50	164	1-5%
Transversal (TGA)		FDA EC, MICRO CLEAN	PU95A	95 A	2,5	1/10	2,40	40	1,57	1,00	5,60	50	164	0,5-3%

Conveyor belts for logistics

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 2K 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.

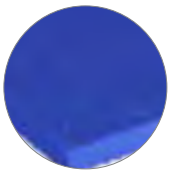


BOTTOM SIDE: FABRIC IMPRESSION (FI), WIDTH 750 mm

FDA EC

Top side	Colour	Features	Quality	Hard-ness	Profile thickness		Weight* per m²	Recommended Min. pulley ∅		Pull force for k1% pretension		Standard Roll		Recommended pretension
				Shore	mm	inch	approx. kg	mm	inch	N/mm	lbs/inch	m	ft	
Smooth matt (SM)		FDA EC, MICRO CLEAN	PU75A	80 A	1,6	1/16	1,92	15	0,60	0,24	1,35	50	164	1-5%
Slightly rough (SR)		FDA EC	PU80A	84 A	1,2	3/64	1,44	10	0,40	0,25	1,40	50	164	1-5%
					1,6	1/16	1,92	15	0,60	0,32	1,80	50	164	1-5%
Longitudinal (LGB)		FDA EC, 2C, MICRO CLEAN	PU80A PU65A	84 A 72 A	2,2	1/24	1,44	18	0,71	0,28	1,58	50	164	1-5%

* Band width 750 mm

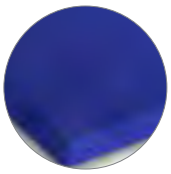


BOTTOM SIDE: SLIGHTLY ROUGH (SR), WIDTH 360 mm

FDA EC

Top side	Colour	Features	Quality	Hard-ness	Profile thickness		Weight* per m²	Recommended Min. pulley ∅		Pull force for k1% pretension		Standard Roll		Recommended pretension
				Shore	mm	inch	approx. kg	mm	inch	N/mm	lbs/inch	m	ft	
Sawtooth (EST)		FDA EC	PU75A	80 A	3,0	1/8	2,40	25	1,00	0,30	1,70	25	82	1-5%
					4,0	5/32	3,60	35	1,40	0,45	2,50	25	82	1-5%
Supergrip (ESG)		FDA EC	PU75A	80 A	4,0	5/32	3,60	35	1,40	0,45	2,50	25	82	1-5%
Supergrip (ESG)		FDA EC	PU95A	95 A	4,0	5/32	3,60	60	2,40	1,50	8,40	25	82	0,5-3%

* Band width 360 mm



BOTTOM SIDE: SMOOTH GLOSS (SG), WIDTH 140 mm

Top side	Colour	Features	Quality	Hard-ness	Profile thickness		Weight* per m²	Recommended Min. pulley ∅		Pull force for k1% pretension		Standard Roll		Recommended pretension
				Shore	mm	inch	approx. kg	mm	inch	N/mm	lbs/inch	m	ft	
Smooth gloss (SG)		FDA EC USDA	PU75A	80 A	1,0	3/64	1,20	10	0,4	0,15	0,85	50	164	1-5%
					1,6	1/16	1,92	15	0,6	0,24	1,3	50	164	1-5%
					2,0	5/64	2,40	20	0,8	0,30	1,7	50	164	1-5%
					3,0	1/8	3,60	25	1,0	0,45	2,5	50	164	1-5%
					4,0	5/32	4,80	35	1,4	0,60	3,4	50	164	1-5%
Smooth gloss (SG)		FDA EC USDA METAL X-RAY	PU80A SAFE	84 A	2,0	5/32	2,76	20	0,8	0,36	2,0	50	164	1-5%
					3,0	1/8	4,14	30	1,2	0,54	3,0	50	164	1-5%
Smooth gloss (SG)		FDA EC USDA	PU80A	84 A	1,6	1/16	1,92	15	0,6	0,32	1,8	50	164	1-5%
					2,4	3/32	2,88	25	1,0	0,48	2,7	50	164	1-5%
					3,2	1/8	3,84	30	1,2	0,64	3,6	50	164	1-5%
Smooth gloss (SG)			PU85A	88 A	1,0	3/64	1,20	15	0,6	0,23	1,3	50	164	1-5%
					1,6	1/16	1,92	20	0,8	0,37	2,1	50	164	1-5%
					2,0	5/64	2,40	30	1,2	0,46	2,6	50	164	1-5%
					3,0	1/8	3,60	35	1,4	0,69	3,9	50	164	1-5%
					4,0	5/32	4,80	45	1,8	0,92	5,2	50	164	1-5%

* Band width 140 mm

Didn‘t find your belt?

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)

- langjährige Erfahrung mit unter-schiedlichsten Anwendungen
- 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

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. With a coating thickness of 1 - 4 mm, an available hardness range from Shore 45A to 95A and a coating width of 140 - 750 mm, a wide range of product solutions is available.

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

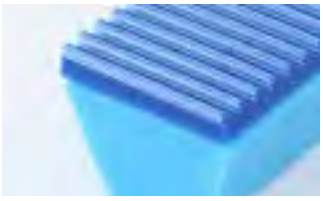
Food industry, logistics industry etc.; the requirements could not be more varied.
Within our manufacturing process we can easily realize special properties for the coatings.

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

BOTTOM SIDE OF THE COATING: SMOOTH GLOSS (SG), WIDTH 140 mm

Top side of the coating	Colour	Features	Quality	Hard-ness	Profile thickness		Weight* per Meter	max. Band width		Impact on min. pulley ∅		Standard Roll		Order No.
				Shore	mm	inch	approx. kg	mm	inch	mm	inch	m	ft	
Smooth gloss (SG)	transparent	PU grip	PU40A	45 A	2,0	5/64	31,5	140	5,5	+10	+0,4	50	164	FBFD140X2TG
					3,0	1/8	47,3	140	5,5	+15	+0,6	50	164	FBFD140X3TG
					4,0	5/32	63,0	140	5,5	+20	+0,8	50	164	FBFD140X4TG
PUtex soft / Smooth matt (SM)		PU tex soft	PU50A	55 A	2,0	5/64	31,5	140	5,5	+15	+0,6	50	164	FBFE140X2RM
					3,0	1/8	47,3	140	5,5	+20	+0,8	50	164	FBFE140X3RM
					4,0	5/32	63,0	140	5,5	+30	+1,2	50	164	FBFE140X4RM
PUtex / Smooth matt (SM)		PU tex	PU60A	65 A	2,0	5/64	31,5	140	5,5	+15	+0,6	50	164	FBFF150X2BM
					3,0	1/8	47,3	140	5,5	+25	+1,0	50	164	FBFF150X3BM
					4,0	5/32	63,0	140	5,5	+33	+1,4	50	164	FBFF150X4BM
Smooth gloss (SG)	transparent		PU60A	65 A	1,6	1/16	28,8	140	5,5	+10	+0,4	50	164	FBFF150X16TG
					2,0	5/64	36,0	140	5,5	+15	+0,6	50	164	FBFF150X2TG
					3,0	1/8	54,0	140	5,5	+25	+1,0	50	164	FBFF150X3TG
					4,0	5/32	72,0	140	5,5	+35	+1,4	50	164	FBFF150X4TG
Smooth gloss (SG)	transparent	FDA EC USDA	PU65A	72 A	1,0	3/64	18,0	140	5,5	+10	+0,4	50	164	FBFG150X1TG
					1,6	1/16	28,8	140	5,5	+15	+0,6	50	164	FBFG150X16TG
					2,0	5/64	36,0	140	5,5	+20	+0,8	50	164	FBFG150X2TG
					3,0	1/8	54,0	140	5,5	+30	+1,2	50	164	FBFG150X3TG
					4,0	5/32	72,0	140	5,5	+40	+1,6	50	164	FBFG150X4TG
Longitudinal (LGA)	transparent	FDA EC	PU65A	72 A	2,6	1/10	46,8	140	5,5	+25	+1,0	50	164	FBFG150X26TW
					3,0	1/8	54,0	140	5,5	+30	+1,2	50	164	FBFG150X3TW
Smooth gloss (SG)	transparent	FDA EC USDA	PU75A	80 A	1,0	3/64	18,0	140	5,5	+15	+0,6	50	164	FBFI150X1TG
					1,6	1/16	28,8	140	5,5	+20	+0,8	50	164	FBFI150X16TG
					2,0	5/64	36,0	140	5,5	+25	+1,0	50	164	FBFI150X2TG
					3,0	1/8	54,0	140	5,5	+40	+1,6	50	164	FBFI150X3TG
					4,0	5/32	72,0	140	5,5	+50	+2,0	50	164	FBFI150X4TG
Smooth gloss (SG)	transparent	FDA EC USDA	PU85A	88 A	1,0	3/64	18,0	140	5,5	+20	+0,8	50	164	FBFK150X1TG
					1,6	1/16	28,8	140	5,5	+30	+1,2	50	164	FBFK150X16TG
					2,0	5/64	36,0	140	5,5	+40	+1,6	50	164	FBFK150X2TG
					3,0	1/8	54,0	140	5,5	+50	+2,0	50	164	FBFK150X3TG
					4,0	5/32	72,0	140	5,5	+70	+2,7	50	164	FBFK150X4TG

BOTTOM SIDE OF THE COATING: SLIGHTLY ROUGH (SR) / FABRIC IMPRESSION (FI), WIDTH 360 mm

Top side of the coating	Colour	Features	Quality	Hard-ness	Profile thickness		Weight* per Meter	max. Band width		Impact on min. pulley ∅		Standard Roll		Order No.
				Shore	mm	inch	approx. kg	mm	inch	mm	inch	m	ft	
Supergrip (ESG)		FDA EC	PU75A	80 A	4,0	5/32	3,6	360	14,0	+40	+1,6	25	82	FBFI360X40LA
Sawtooth (EST)		FDA EC	PU75A	80 A	3,0	1/8	2,4	360	14,0	+30	1,2	25	82	FBFI360X30LB

BOTTOM SIDE OF THE COATING: SLIGHTLY ROUGH (SR) / FABRIC IMPRESSION (FI), WIDTH 750 mm

Top side of the coating	Colour	Features	Quality	Hard-ness	Profile thickness		Weight* per Meter	max. Band width		Impact on min. pulley ∅		Standard Roll		Order No.
				Shore	mm	inch	approx. kg	mm	inch	mm	inch	m	ft	
Nipples (NP)		FDA EC, MICRO CLEAN	PU65A	72 A	2,0	5/64	1,8	750	29,5	+15	+0,6	50	164	FBFJ750X20LF
Smooth gloss (SG)		FDA EC, MICRO CLEAN	PU75A	80 A	4,0	5/32	4,8	750	29,5	+40	+1,6	50	164	FBFI750X40LC
Spikes (SP)		FDA EC, UV	PU80A	84 A	1,2	3/64	1,5	750	29,5	+10	+0,4	50	164	FBFJ750X12LG
Transversal (TGA)		FDA EC, MICRO CLEAN	PU80A	84 A	2,5	1/10	1,8	750	29,5	+20	+0,8	50	164	FBFJ750X25LL
Longitudinal (LGB)		FDA EC USDA, MICRO CLEAN	PU80A	84 A	1,6	1/16	1,3	750	29,5	+15	+0,6	50	164	FBFJ750X16LK
Slightly rough (SR)		FDA EC	PU80A	84 A	1,2	3/64	1,0	750	29,5	+10	+0,4	50	164	FBFJ750X12L
Diamond (ID)		FDA EC USDA, MICRO CLEAN	PU80A	84 A	1,6	1/16	1,7	750	29,5	+15	+0,6	50	164	FBFJ750X16LB
Smooth matt (SM)		FDA EC, MICRO CLEAN, METAL, X-RAY	PU80A SAFE	84 A	1,6	1/16	1,7	750	29,5	+15	+0,6	50	164	FBFJ750X16LE
Smooth matt (SM)		FDA EC, MICRO CLEAN	PU95A	95 A	1,6	1/16	1,4	750	29,5	+25	+1,0	50	164	FBFL750X16LA

WELDABLE ACCESSORIES FOR CONVEYOR BELTS

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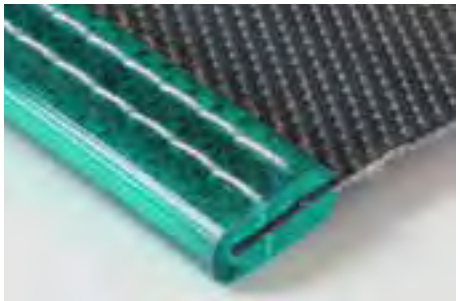
Weldable accessories for conveyor belts

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 Version 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 tape material without foot

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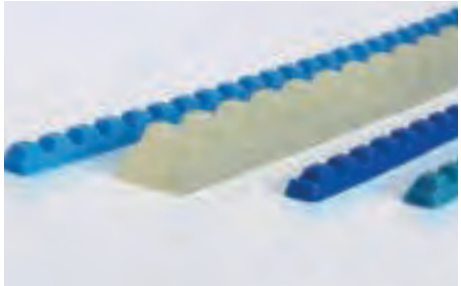


V-guides / Guiding profile

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

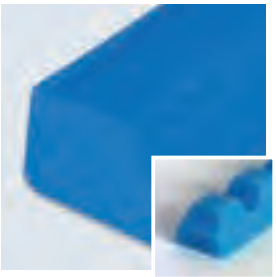
PU60A transparent V-guide smooth

Order No.		Profile dimension	Standard Roll		Recommended min. pulley ∅	
unnotched	notched	mm	m	(ft)	mm	inch
FBKF6YTG	FBKF6YTGD	6 x 4 (Y)	150	(492)	25,0	1,0
FBKF8MTG	FBKF8MTGD	8 x 5 (M)	150	(492)	30,0	1,2
FBKF10ZTG	FBKF10ZTGD	10 x 6 (Z)	150	(492)	40,0	1,6
FBKF13ATG	FBKF13ATGD	13 x 8 (A)	150	(492)	60,0	2,4
FBKF17BTG	FBKF17BTGD	17 x 11 (B)	100	(328)	80,0	3,2
FBKF22CTG	FBKF22CTGD	22 x 14 (C)	50	(164)	110,0	4,4

approx. 65° Shore A

Coeff. of friction µ: Steel: approx. 0,85 | PE: approx. 0,50 | HDPE: approx. 0,45

PU60A sky blue V-guide smooth

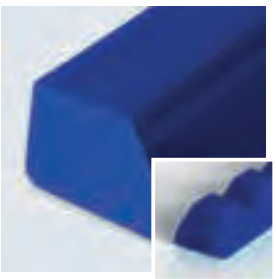


Order No.		Profile dimension	Standard Roll		Recommended min. pulley ∅	
unnotched	notched	mm	m	(ft)	mm	inch
FBKF6YLG	FBKF6YLGD	6 x 4 (Y)	150	(492)	25,0	1,0
FBKF8MLG	FBKF8MLGD	8 x 5 (M)	150	(492)	30,0	1,2
FBKF10ZLG	FBKF10ZLGD	10 x 6 (Z)	150	(492)	40,0	1,6
FBKF13ALG	FBKF13ALGD	13 x 8 (A)	150	(492)	60,0	2,4
FBKF17BLG	FBKF17BLGD	17 x 11 (B)	100	(328)	80,0	3,2
FBKF22CLG	FBKF22CLGD	22 x 14 (C)	50	(164)	110,0	4,4

approx. 65° Shore A

Coeff. of friction µ: Steel: approx. 0,85 | PE: approx. 0,50 | HDPE: approx. 0,45

PU60A ultramarine blue V-guide smooth



Order No.		Profile dimension	Standard Roll		Recommended min. pulley ∅	
unnotched	notched	mm	m	(ft)	mm	inch
FBKF6YLGE	FBKF6YLGEF	6 x 4 (Y)	150	(492)	25,0	1,0
FBKF8MLGE	FBKF8MLGEF	8 x 5 (M)	150	(492)	30,0	1,2
FBKF10ZLGE	FBKF10ZLGEF	10 x 6 (Z)	150	(492)	40,0	1,6
FBKF13ALGE	FBKF13ALGEF	13 x 8 (A)	150	(492)	60,0	2,4
FBKF17BLGE	FBKF17BLGEF	17 x 11 (B)	100	(328)	80,0	3,2
FBKF22CLGE	FBKF22CLGEF	22 x 14 (C)	50	(164)	110,0	4,4

approx. 65° Shore A

Coeff. of friction µ: Steel: approx. 0,85 | PE: approx. 0,50 | HDPE: approx. 0,45

PU70A transparent V-guide smooth

Order No.		Profile dimension	Standard Roll		Recommended min. pulley ∅	
unnotched	notched	mm	m	(ft)	mm	inch
FBKH6YTG	FBKH6YTGD	6 x 4 (Y)	150	(492)	30,0	1,2
FBKH8MTG	FBKH8MTGD	8 x 5 (M)	150	(492)	35,0	1,4
FBKH10ZTG	FBKH10ZTGD	10 x 6 (Z)	150	(492)	45,0	1,8
FBKH13ATG	FBKH13ATGD	13 x 8 (A)	150	(492)	70,0	2,8
FBKH17BTG	FBKH17BTGD	17 x 11 (B)	100	(328)	90,0	3,6
FBKH22CTG	FBKH22CTGD	22 x 14 (C)	50	(164)	130,0	5,2

approx. 76° Shore A

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

PU70A sky blue V-guide smooth

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

approx. 76° Shore A

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

PU70A ultramarine blue V-guide smooth

Order No.		Profile dimension	Standard Roll		Recommended min. pulley ∅	
unnotched	notched	mm	m	(ft)	mm	inch
FBKH6YLGB	FBKH6YLGC	6 x 4 (Y)	150	(492)	30,0	1,2
FBKH8MLGB	FBKH8MLGBC	8 x 5 (M)	150	(492)	35,0	1,4
FBKH10ZLGB	FBKH10ZLGC	10 x 6 (Z)	150	(492)	45,0	1,8
FBKH13ALGB	FBKH13ALGBC	13 x 8 (A)	150	(492)	70,0	2,8
FBKH17BLGA	FBKH17BLGB	17 x 11 (B)	100	(328)	90,0	3,6
FBKH22CLGB	FBKH22CLGBC	22 x 14 (C)	50	(164)	130,0	5,2

approx. 76° Shore A

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

PU70A safe capri blue V-guide smooth

Order No.		Profile dimension	Standard Roll		Recommended Min. pulley ∅	
unnotched	notched	mm	m	(ft)	mm	inch
FBKF6YLGA	FBKF6YLGB	6 x 4 (Y)	150	(492)	30,0	1,2
FBKF8MLGA	FBKF8MLGB	8 x 5 (M)	150	(492)	35,0	1,4
FBKF10ZLGA	FBKF10ZLGB	10 x 6 (Z)	150	(492)	45,0	1,8
FBKF13ALGA	FBKF13ALGB	13 x 8 (A)	150	(492)	70,0	2,8
FBKF17BLGA	FBKF17BLGB	17 x 11 (B)	100	(328)	90,0	3,6
FBKF22CLGA	FBKF22CLGB	22 x 14 (C)	50	(164)	130,0	5,2

approx. 76° Shore A

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

* Limited suitability EC

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PU70A transparent V-guide smooth 8 x 3,2 mm

Order No.	Profile dimension	Standard Roll		Recommended min. pulley ∅	
unnotched	mm	m	(ft)	mm	inch
FBKH8X32TG	8 x 3,2	150	(492)	25,0	1,0

approx. 76° Shore A

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

PU80A transparent V-guide smooth 13 x 6,5 mm

Order No.	Profile dimension	Standard Roll		Recommended min. pulley ∅	
unnotched	mm	m	(ft)	mm	inch
FBKJ13X65TG	13 x 6,5	150	(492)	55,0	2,2

approx. 84° Shore A

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

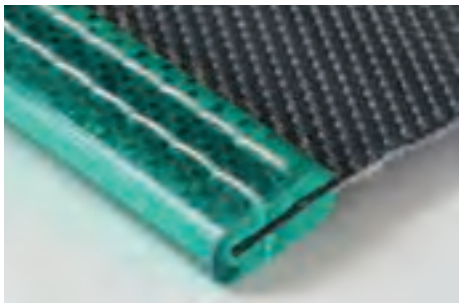
PU75A sky blue Guiding Profile round smooth ∅ 5 x 9 mm

Order No.	Profile dimension	Standard Roll		Recommended min. pulley ∅	
	mm	m	(ft)	mm	inch
FBTI5X5X9HI	∅ 5 x 5,5 x 9	90	(295)	40,0	1,6

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

approx. 80° Shore A

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



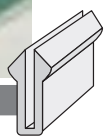
Belt edge profiles

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

PU75A Belt edge 13 x 26 mm, transparent

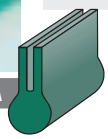
approx. 80° Shore A



Order No.	Profile dimension	Cross section	approx. weight	Standard Roll	
	mm	cm²	kg/100 m	m	(ft)
FBSP80A13X26	13 x 26	1,49	17,9	30,0	(98,4)

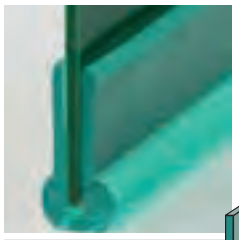
PU75A / PU85A Belt edge 14 x 28 mm, emerald green

approx. 80° and 88° Shore A

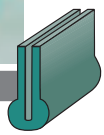


Order No.	Profile dimension	Cross section	approx. weight	Standard Roll	
	mm	cm²	kg/100 m	m	ft
FBSP75A14X28	14 x 28	1,9	22,8	30,0	98,4
FBSP85A14X28	14 x 28	1,9	22,8	30,0	98,4

PU75A Belt edge 8,8 x 18 mm, emerald green

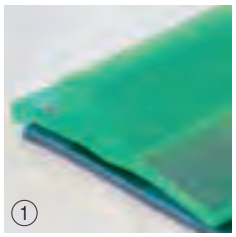


approx. 80° Shore A



Order No.	Profile dimension	Cross section	approx. weight	Standard Roll	
	mm	cm²	kg/100 m	m	ft
FBSP80A88X18	8,8x 18	0,62	7,4	30,0	98,4

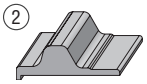
① PU80A Belt edge 3,5 x 37 mm, emerald green
② PU65A Belt edge 10 x 35 mm, transparent



①

approx. 84° Shore A

②



approx. 72° Shore A

Order No.	Profile dimension	Cross section	approx. weight	Standard Roll	
	mm	cm²	kg/100 m	m	ft
① FBSP80A35X37	3,5 x 37	1,2	14,3	30,0	98,4
② FBSP65A10X35	10 x 35	1,6	19,8	30,0	98,4

BEHAbelt
Made in Germany

Type: feathered foot weldable on PU and on most PVC belts

PU80A white

approx. 84° Shore A

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Foot width (inch) B	Weight (g/m)	Standard length per piece (m)	Standard bundle
FBCJ025WUS	25,00	1,00	12,50	0,50	154,00	3,00	80 pc. = 240m
FBCJ038WUS	38,00	1,50	12,50	0,50	228,00	3,00	50 pc. = 150m
FBCJ050WUS	50,00	2,00	12,50	0,50	302,00	3,00	40 pc. = 120m
FBCJ070WUS	70,00	2,75	12,50	0,50	455,00	3,00	30 pc. = 90m

PU80A green

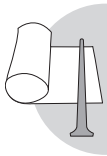
approx. 84° Shore A

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Foot width (inch) B	Weight (g/m)	Standard length per piece (m)	Standard bundle
FBCJ025GUS	25,00	1,00	12,50	0,50	154,00	3,00	80 pc. = 240m
FBCJ038GUS	38,00	1,50	12,50	0,50	228,00	3,00	50 pc. = 150m
FBCJ050GUS	50,00	2,00	12,50	0,50	302,00	3,00	40 pc. = 120m
FBCJ070GUS	70,00	2,75	12,50	0,50	455,00	3,00	30 pc. = 90m

PU80A ultramarine blue

approx. 84° Shore A

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Foot width (inch) B	Weight (g/m)	Standard length per piece (m)	Standard bundle
FBCJ025LUSA	25,00	1,00	12,50	0,50	154,00	3,00	80 pc. = 240m
FBCJ038LUSA	38,00	1,50	12,50	0,50	228,00	3,00	50 pc. = 150m
FBCJ050LUSA	50,00	2,00	12,50	0,50	302,00	3,00	40 pc. = 120m
FBCJ070LUSA	70,00	2,75	12,50	0,50	455,00	3,00	30 pc. = 90m



PU80A sky blue

approx. 84° Shore A

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Foot width (inch) B	Weight (g/m)	Standard length per piece (m)	Standard bundle
FBCJ025LUS	25,00	1,00	12,50	0,50	154,00	3,00	80 pc. = 240m
FBCJ038LUS	38,00	1,50	12,50	0,50	228,00	3,00	50 pc. = 150m
FBCJ050LUS	50,00	2,00	12,50	0,50	302,00	3,00	40 pc. = 120m
FBCJ070LUS	70,00	2,75	12,50	0,50	455,00	3,00	30 pc. = 90m

PU80A safe capri blue

approx. 84° Shore A

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Foot width (inch) B	Weight (g/m)	Standard length per piece (m)	Standard bundle
FBCJ025LCUS	25,00	1,00	12,50	0,50	154,00	3,00	80 pc. = 240m
FBCJ038LCUS	38,00	1,50	12,50	0,50	228,00	3,00	50 pc. = 150m
FBCJ050LCUS	50,00	2,00	12,50	0,50	302,00	3,00	40 pc. = 120m
FBCJ070LCUS	70,00	2,75	12,50	0,50	455,00	3,00	30 pc. = 90m

Type: feathered foot weldable on PU and on most PVC belts

PU90A white

approx. 92° Shore A

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard bundle
FBCJ020W	20,00	0,79	10,0	75,00	3,0	80 pc. = 240 m
FBCJ030W	30,00	1,18	10,0	109,00	3,0	60 pc. = 180 m
FBCJ040W	40,00	1,57	10,0	129,00	3,0	40 pc. = 120 m
FBCJ050W	50,00	2,00	10,0	235,00	3,0	40 pc. = 120 m
FBCJ060W	60,00	2,40	10,0	280,00	3,0	30 pc. = 90 m

PU90A green

approx. 92° Shore A

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard bundle
FBCJ020G	20,00	0,79	10,0	75,00	3,0	80 pc. = 240 m
FBCJ030G	30,00	1,18	10,0	109,00	3,0	60 pc. = 180 m
FBCJ040G	40,00	1,57	10,0	129,00	3,0	40 pc. = 120 m
FBCJ050G	50,00	2,00	10,0	235,00	3,0	40 pc. = 120 m
FBCJ060G	60,00	2,40	10,0	280,00	3,0	30 pc. = 90 m

PU90A ultramarine blue

approx. 92° Shore A

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard bundle
FBCJ020LA	20,00	0,79	10,0	75,00	3,0	80 pc. = 240 m
FBCJ030LA	30,00	1,18	10,0	109,00	3,0	60 pc. = 180 m
FBCJ040LA	40,00	1,57	10,0	129,00	3,0	40 pc. = 120 m
FBCJ050LA	50,00	2,00	10,0	235,00	3,0	40 pc. = 120 m
FBCJ060LA	60,00	2,40	10,0	280,00	3,0	30 pc. = 90 m

PU90A sky blue

approx. 92° Shore A

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard bundle
FBCJ020L	20,00	0,79	10,0	75,00	3,0	80 pc. = 240 m
FBCJ030L	30,00	1,18	10,0	109,00	3,0	60 pc. = 180 m
FBCJ040L	40,00	1,57	10,0	129,00	3,0	40 pc. = 120 m
FBCJ050L	50,00	2,00	10,0	235,00	3,0	40 pc. = 120 m
FBCJ060L	60,00	2,40	10,0	280,00	3,0	30 pc. = 90 m

PU90A safe capri blue

approx. 92° Shore A

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard bundle
FBCJ020LC	20,00	0,79	10,0	75,00	3,0	80 pc. = 240 m
FBCJ030LC	30,00	1,18	10,0	109,00	3,0	60 pc. = 180 m
FBCJ040LC	40,00	1,57	10,0	129,00	3,0	40 pc. = 120 m
FBCJ050LC	50,00	2,00	10,0	235,00	3,0	40 pc. = 120 m
FBCJ060LC	60,00	2,40	10,0	280,00	3,0	30 pc. = 90 m

PUflex belt material for corrugated sidewalls

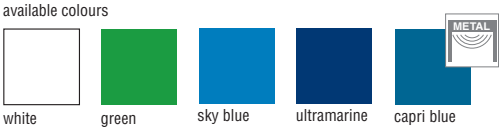
Flat belt strips for direct welding onto the conveyor belt

- Material extremely flexible with good abrasion and cut resistance
- Very good and simple weldability on PU- and most PVC belts (using hot air or binding cement)
- Food approval FDA/EC compliant
- For the individual implementation of your corrugated edge refinement

PU80A flat belt up to 140 mm for sidewalls

Order No.	Profile thickness*		Band width		Standard Roll	
	mm	inch	mm	inch	m	ft
auf Anfrage	2,0	5/64	140	5,5	100	164
auf Anfrage	2,5		140	5,5	100	164

available colours



weldable on PU and on most PVC

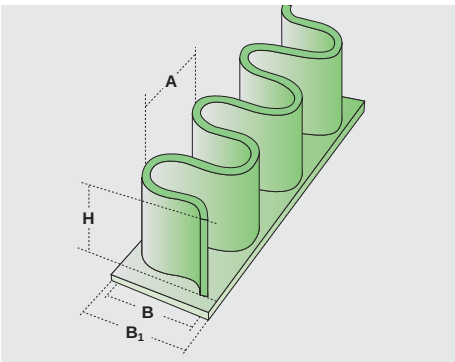
*Further belt thicknesses on request

approx. 84° Shore A

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

Welding tools for narrow flat belts

The guide clamp BEHAbelt FZ02/3F in combination with a welding paddle EErgo 90 offers a handy possibility to join narrow flat belts up to a width of 80 mm.



PUflex sidewalls with foot

Sidewalls with foot for welding onto the conveyor belt

- Extremely flexible material with good abrasion and cut resistance
- Excellent and easy **weldability on PU and PVC belts** (using hot air, HF or bonding cement)
- 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 (mm) H	Height (inch) H	Wave width (mm) B	Base width (mm) B1	Pitch off waves (mm) A	Approx. weight (g/m)	Standard Roll (m)	Min. pulley diameter ∅ (mm)	Recomm. pulley ∅ (mm)
FBVFH020W	20,00	0,79	23,00	32,00	25,40	174	100	35	70
FBVFH030W	30,00	1,18	23,00	32,00	25,40	220	100	55	80
FBVFH040W	40,00	1,57	23,00	32,00	25,40	265	100	75	90
FBVFH050W	50,00	1,97	23,00	32,00	25,40	310	100	80	100
FBVFH060W	60,00	2,36	45,00	55,00	50,80	445	100	90	110
FBVFH080W	80,00	3,15	45,00	55,00	50,80	544	50	125	130
FBVFH100W	100,00	3,94	45,00	55,00	50,80	642	50	155	160
FBVFH120W	120,00	4,72	45,00	55,00	50,80	741	50	170	185

PU80A green

approx. 84° Shore A

FDA/EC/USDA compliant

Order No.	Height (mm) H	Height (inch) H	Wave width (mm) B	Base width (mm) B1	Pitch off waves (mm) A	Approx. weight (g/m)	Standard Roll (m)	Min. pulley diameter ∅ (mm)	Recomm. pulley ∅ (mm)
FBVFH020G	20,00	0,79	23,00	32,00	25,40	174	100	35	70
FBVFH030G	30,00	1,18	23,00	32,00	25,40	220	100	55	80
FBVFH040G	40,00	1,57	23,00	32,00	25,40	265	100	75	90
FBVFH050G	50,00	1,97	23,00	32,00	25,40	310	100	80	100
FBVFH060G	60,00	2,36	45,00	55,00	50,80	445	100	90	110
FBVFH080G	80,00	3,15	45,00	55,00	50,80	544	50	125	130
FBVFH100G	100,00	3,94	45,00	55,00	50,80	642	50	155	160
FBVFH120G	120,00	4,72	45,00	55,00	50,80	741	50	170	185

PU80A sky blue

approx. 84° Shore A

FDA/EC/USDA compliant

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

PU80A ultramarine blue

approx. 84° Shore A

FDA/EC/USDA compliant

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

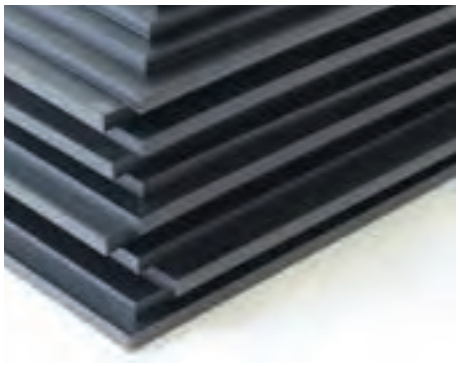
PU80A safe capri blue

approx. 84° Shore A

FDA/EC/USDA compliant

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

PU sheet material up to 8 mm thickness

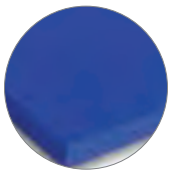


PU sheet material

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

- blue FDA-compliant versions with smooth surfaces in Shore 84A and 95A
- black industrial quality with smooth/fine structured surface in Shore 84A

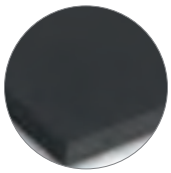
Typical areas of application are: Welded-on profile (cleats), scraper, skirts, impact (damping) protection or seals.



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

FDA EC | MICRO CLEAN

Bottom side	Colour	Features	Quality	Hardness	Profile thickness		Weight* per pc.	Sheet length		Order No.
				Shore	mm	inch	approx. kg	m	ft	
smooth gloss (SG)		FDA EC	PU80A	84 A	4,0	0,16	4,3	1,2	4,0	FBFJ750X4LO
					5,0	0,20	5,4	1,2	4,0	FBFJ750X5LO
					6,0	0,24	6,5	1,2	4,0	FBFJ750X6LO
					8,0	0,31	8,6	1,2	4,0	FBFJ750X8LO
smooth gloss (SG)		FDA EC	PU95A	95 A	4,0	0,16	4,3	1,2	4,0	FBFM750X4LO
					5,0	0,20	5,4	1,2	4,0	FBFM750X5LO
					6,0	0,24	6,5	1,2	4,0	FBFM750X6LO
					8,0	0,31	8,6	1,2	4,0	FBFM750X8LO



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

Bottom side	Colour	Features	Quality	Hardness	Profile thickness		Weight* per pc.	Sheet length		Order No.
				Shore	mm	inch	approx. kg	m	ft	
fabric impression (FI)			PU80A	84 A	4,0	0,16	4,3	1,2	4,0	FBFJ750X4SO
					5,0	0,20	5,4	1,2	4,0	FBFJ750X5SO
					6,0	0,24	6,5	1,2	4,0	FBFJ750X6SO
					8,0	0,31	8,6	1,2	4,0	FBFJ750X8SO

Other sheet lengths available on request

Application examples

Buffer protection in the pellet depot

Cleats on conveyor belt

Work skirt e.g. in wood industry

* Sheet width 750 mm

FABRICATION/ ENDLESS BELTS

Fabrication 84
Connection methods for profiles 85
Connection methods for monolithic flat belts 86
Fitting connectors for hollow round belts 87
Twisted round belts PU with hook connection 87

Fabrication

Our customers not only require belts by roll but also endless joined belts. This is why BEHAbelt offers “Express Confectioning Service”. Note: information on how to calculate a belt length for tailoring please refer to page 119.

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!

Flexible

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.

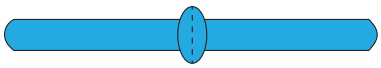
Automated

An automated welding process ensures consistent quality.

Connection methods for profiles

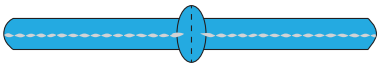
Regardless of whether you are using unreinforced belts or reinforced belts, we distinguish the following connection methods: butt and overlap welding.

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.



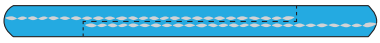
Butt welding without reinforcement

(Standard)



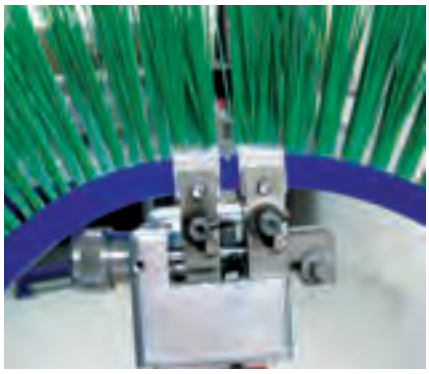
Butt welding with reinforcement

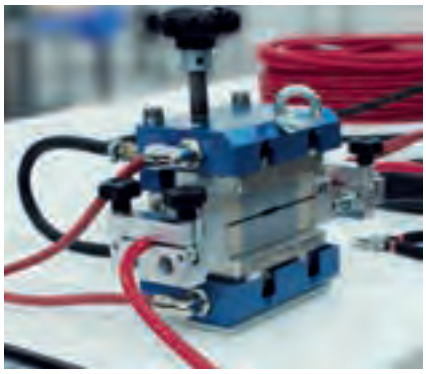
Butt welding to reduce elongation without changing the belt tensile force.



Overlap welding with reinforcement

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





Joining methods: monolithic belts

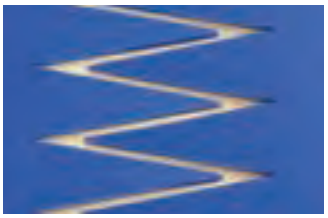
Elastic monolithic PU conveyor belts from BEHAbelt offer new possibilities for endless joining due to the full PU belt construction. Due to the belt design without traction-layer, a connection by finger welding is no longer necessary, as the monolithic belt is a homogeneous belt design in itself - even 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	⊕	Simple 90° cutting	Simple 90° cutting		Simple 90° cutting
	⊖		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 band structure		⊕⊕	⊕	⊕	⊕
CONCLUSION		**recommended BEHAbelt standard**	**alternatively recommended belt welding**	**traditional belt welding**	**manual welding. Especially in container and funnel construction.**

Butt welding with paddle welding tool

Overlap welding with hot press


Finger joint with a hot press

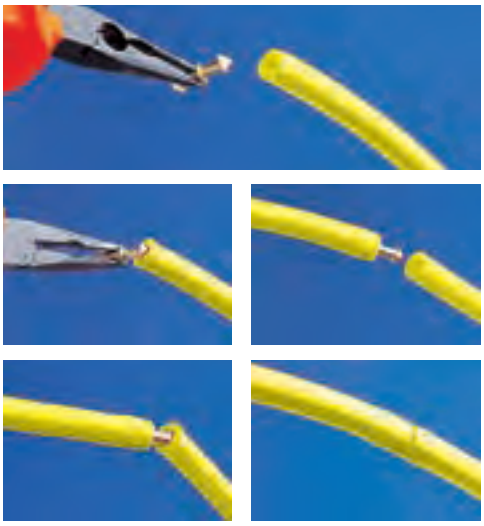
Welding with electrodes

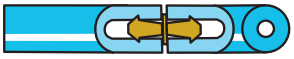
Fitting connectors for hollow round belts

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	Order No.
Pliers SZ01	**FBWSZ01**
Nipple for hollow round belts (Outer diameter)	
4,8 mm / 3/16“	**FBN048**
6,3 mm / 3/16“	**FBN063**
8,0 mm / 3/16“	**FBN080N**
9,5 mm / 3/16“	**FBN095**
12,5 mm / 3/16“	**FBN0125**
15,0 mm / 3/16“	**FBN0150**

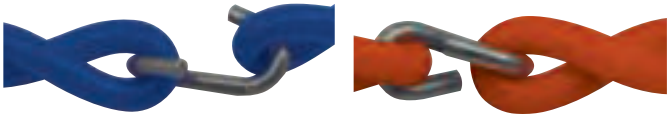
Twisted round belts

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 ∅ 3 mm (∅ 5 mm)

You can find all product information on page 30

WELDING TOOLS

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BEHAbelt
Made in Germany

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 O-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 many different profiles from ∅ 6 mm made of polyurethane.

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

Dimensions (HxWxD): 390x105x123 mm
Weight: approx. 2450 g, Power: 500 W

Description	Order No.
230 Volt	**FBWRS022230V**

RS02 CORDLESS

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

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 AS02
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

Dimensions (HxWxD): 390x105x123 mm
Weight approx. 2780 g, Power: 18V 4Ah (72Wh)

Description	Order No.
230 Volt	**FBWRS02A230**

Our clamping jaw range

1 set of jaws consists of 4 parts

Features at a glance

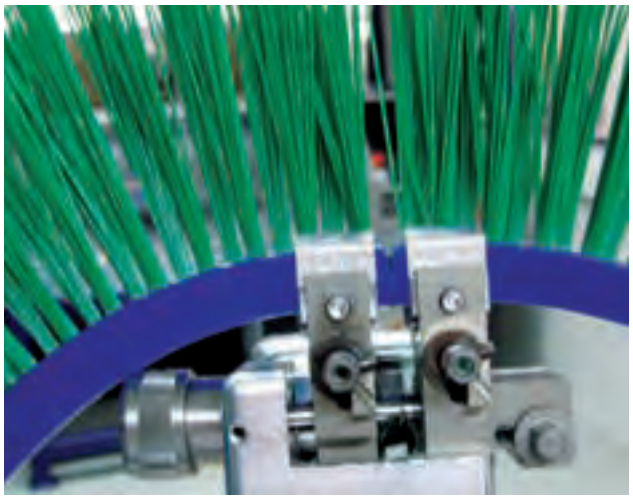
- Please note each belt profile requires a matching set of jaws.
- Therefore, please select the appropriate clamping jaws for the required profile geometry.
- **On request, we also manufacture clamping jaws for PU special profiles.**

for round belts

for V-belts

Round belts

RS Clamping jaws round belt Ø 6,0mm	FBWSBR060
RS Clamping jaws round belt Ø 6,3mm	FBWSBR063
RS Clamping jaws round belt Ø 7,0mm	FBWSBR070
RS Clamping jaws round belt Ø 7,9mm	FBWSBR079
RS Clamping jaws round belt Ø 8,0mm	FBWSBR080
RS Clamping jaws round belt Ø 9mm	FBWSBR090
RS Clamping jaws round belt Ø 9,5mm	FBWSBR095
RS Clamping jaws round belt Ø10,0mm	FBWSBR100
RS Clamping jaws round belt Ø12,0mm	FBWSBR120
RS Clamping jaws round belt Ø12,5mm	FBWSBR125
RS Clamping jaws round belt Ø 12,7mm	FBWSBR127
RS Clamping jaws round belt Ø13,0mm	FBWSBR130
RS Clamping jaws round belt Ø14,0mm	FBWSBR140
RS Clamping jaws round belt Ø 14,3mm	FBWSBR143
RS Clamping jaws round belt Ø15,0mm	FBWSBR150
RS Clamping jaws round belt Ø 15,9mm	FBWSBR159
RS Clamping jaws round belt Ø17,0mm	FBWSBR170
RS Clamping jaws round belt Ø18,0mm	FBWSBR180
RS Clamping jaws round belt Ø 19,0mm	FBWSBR190
RS Clamping jaws round belt Ø20,0mm	FBWSBR200



V-belts

RS Clamping jaws V-belt (Y) 6X4mm	FBWSBK06
RS Clamping jaws V-belt (M) 8X5mm	FBWSBK08
RS Clamping jaws V-belt (Z) 10X6mm	FBWSBK10
RS Clamping jaws V-belt (A) 13X8mm	FBWSBK13
RS Clamping jaws V-belt (B) 17X11mm	FBWSBK17
RS Clamping jaws V-belt (C) 22X14mm	FBWSBK22

V-belts special versions

RS Clamping jaws V-belt 8X6,5mm	FBWSBK8X65
RS Clamping jaws V-belt 10X8mm	FBWSBK10X8
RS Clamping jaws Supergrip (Z) 10X6mm	FBWSBK10G
RS Clamping jaws Supergrip (A) 13X8mm	FBWSBK13G
RS Clamping jaws Supergrip (B) 17X11mm	FBWSBK17G
RS Clamping jaws Supergrip (C) 22X14mm	FBWSBK22G
RS Clamping jaws (B) 17X11 for brush 90°	FBWSBK17B
RS Clamping jaws (C) 22X14 for brush 90°	FBWSBK22B

Rigde top V-belts

RS Clamping jaws SK1 (B) 17X19mm	FBWSBK17X19
RS Clamping jaws SK1 (C) 22X24mm	FBWSBK22X24

Twin V-belts

RS Clamping jaws Twin V-belt 21X8mm	FBWSBK21X8
RS Clamping jaws Twin V-belt (Z) 24X6,8mm	FBWSBK24X68
RS Clamping jaws Twin V-belt 30X8mm	FBWSBK30X8

T-Profiles

RS Clamping jaws T-Profile 15X5mm	FBWSBST15X5
RS Clamping jaws T-Profile 5X5X25mm	FBWSBST5525

Special profiles

RS Clamping jaws square profile 11,8X11,8mm	FBWSBSQ118
RS Clamping jaws U-Profile 18X11,8mm	FBWSBSU180
RS Clamping jaws prism V-belt 33X8mm	FBWSBS33X8
RS Clamping jaws peach profile 28X29mm	FBWSBS28X29

FRICTION 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.

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.

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.

Paddle lengths

EErgo 60

EErgo 90

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.

Scope of delivery:

1 pc. EErgo 60 or 90
1 pc. Carrying bag

EErgo 60
Dimensions: 185 x 210 x 55 mm (HxWxD)
Weight: approx. 380 g, Leistung: 120 W

EErgo 90
Dimensions: 185 x 240 x 55 mm (HxWxD)
Weight: approx. 420 g, Leistung: 120 W

Description	Order No.
EErgo 60, 230 V/60mm	**FBWEE001**
EErgo 90, 230 V/90mm	**FBWEE019**

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

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 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 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

Description	Order No.
EErgo-Set „small“ 230 V / 60 mm	**FBWEE003**
EErgo-Set Vario „small“ 230 V / 90 mm	**FBWEE011**

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 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 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	Order No.
EErgo-Set „universal“ 230 V / 60 mm	**FBWEE004**
EErgo-Set Vario „universal“ 230 V / 60 mm	**FBWEE014**

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 toolt
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 Minuten
Temperature range: continuously 200...300 °C
Power: 75 W

Description	Order No.
Multi TC 230 V	**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 °C - 290 °C
or
1 pc. SG03 welding tool
for Polyester (TPE) 225 °C - 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	Order No.
SG02 PU - 230 V	**FBWSG02**
SG03 TPE - 230 V	**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 belts
Order No. **FBWTC76**
Dimensions (HxWxD): 22,5 x 75 x 2 mm

For 90°-welding

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

Description	Order No.
Guiding clamp FZ02/3	**FBWFZ02/3**
Guiding clamp FZ02/2S	**FBWFZ02/2**

FZ02/3 and FZ02/2S

Guiding clamp FZ02/3 Standard
Robust and accurate for V-belts up to profile 32 (D) and round belts from ∅ 8 mm.

Guiding clamp FZ02/2S customized adapter
Customized adapter for the guiding clamp FZ02/3 for custom profile geometries according to your specifications. Existing geometries in mm: 12,5x5, 15x5, 16x8, 18x6, 24x6,8, 25x5, 30x8, 38x2, 6x4x9, 21x8, 28x10, flat profile, square profile, U-profile, T-profile 10x6, 28x10

Recommended for use in combination with EErgo 60

For 90°-welding

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

Description	Order No.
Guiding clamp FZ02/3F	**FBWFZ02/3F**

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 in combination with EErgo 90

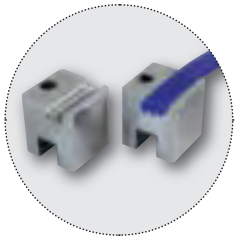
FZ01 Vario

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

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

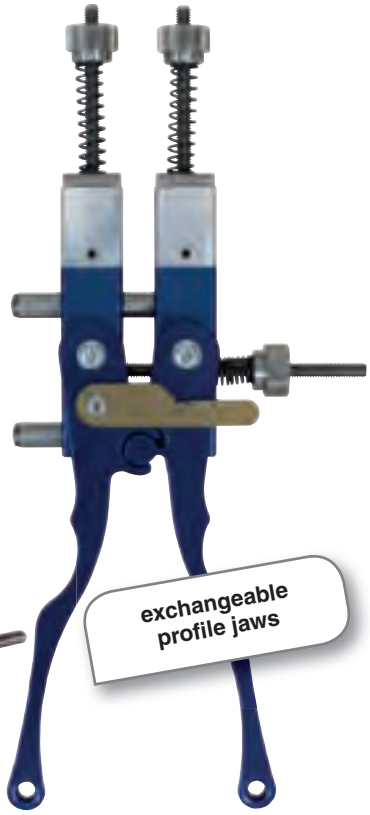
Highlights

- 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!



Profile jaws for special profiles

Convertible!
Can also be used without handle.



Quick clamp device for inserting the profiles.

Automatic unlocking starts off lateral pressure.

Precise welding thanks to constant pressure.

Dimensions:	240x125x50 mm 140x195x50 mm without handle
Weight:	approx. 365 g approx. 320 g without handle
Description FZ01 Vario	**Order No.** **FBWFZ01V**

FZ01

Handy and lightweight for round belts up to ∅ 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:	127x70x35 mm
Weight:	approx. 140 g
Description Guiding clamp FZ01	**Order No.** **FBWFZ01**

Heating plate dimensions: 120 x 60 mm

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.

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): 240x167x200 mm
Weight: approx. 4800 g

Description	Order No.
Standard Set HP01/Air cooling/230 V	**FBWHP011L230**

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	Order No.
Standard Set HP01/water cooling/230 V	**FBWHP011W230**

Scope of delivery:

1 pc. hot press HP01 WATER, 1 pc. Cooling unit 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

BEHAbelt
Made in Germany

Standard moulds for HP01 Hotpress

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

Mould for timing 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

Timing belts (width max. 50mm)

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 (W:50,8mm/2“)	FBWFZHO
Mould for timing belt L (W:50,8mm/2“)	FBWFZLO
Mould for timing belt RPP 8M	FBWFZRPP8MN

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

Mould for Twin V-belt

Mould for round belt

Before overlap welding
After overlap welding

Scope of delivery

1 pc. Belt cutter SH01, 1 pc. screwdriver,
1 pc. profile adapters at your choice,
1 pc. end wrench, 1 set washers

Adapters available for the following profiles:

- Round belts ∅ 6,0 - 20,0 mm
- V-belts 13x8 (A), 17x11 (B), 22x14 (C), bluepower

Dimensions (HxWxD): 200 x 80 x 45 mm
Weight: approx. 1,3 kg

Description	Order No.
Belt cutter SH01 with 1 profile adapter at your choice	**FBWSH1**

Profile adapter for round belts

Profile adapter for V-belts

inner and outer shell is supplied by the meter

Scope of delivery Joining-Set RH-2

1 pc. Nylon case
1 pc. crimping tool RH-2
3m respectively of polyester sleeves (outside/inside)
100 pc. CU crimps

Description	Order No.
Crimp Joining Set RH-2 ∅ 9,5 mm	**FBWRH2SET095**
Crimp Joining Set RH-2 ∅ 10 mm	**FBWRH2SET100**
Crimp Joining Set RH-2 ∅ 12 mm	**FBWRH2SET120**
Crimp Joining Set RH-2 ∅ 12,5 mm	**FBWRH2SET125**

SH01

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

Profile adapters for round belts

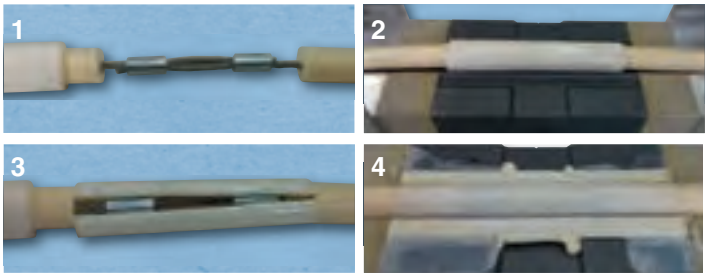
Order No.	Description	Dimension
FBWSH1R060	Profile adapters for round belts	∅ 6,0mm
FBWSH1R063	Profile adapters for round belts	∅ 6,3mm
FBWSH1R080	Profile adapters for round belts	∅ 8,0mm
FBWSH1R095	Profile adapters for round belts	∅ 9,5mm
FBWSH1R100	Profile adapters for round belts	∅ 10,0mm
FBWSH1R120	Profile adapters for round belts	∅ 12,0mm
FBWSH1R125	Profile adapters for round belts	∅ 12,5mm
FBWSH1R150	Profile adapters for round belts	∅ 15,0mm
FBWSH1R180	Profile adapters for round belts	∅ 18,0mm
FBWSH1R200	Profile adapters for round belts	∅ 20,0mm

Profile adapters for V-belts

Order No.	Description	Dimension
FBWSH1K10	Profile adapters for V-belts	10x6 (Z)
FBWSH1K13	Profile adapters for V-belts	13x8 (A)
FBWSHSK17BP	Profile adapters for V-belts bluepower	17 x 11,3
FBWSH1K17	Profile adapters for V-belts	17x11 (B)
FBWSH1K22	Profile adapters for V-belts	22x14 (C)
	Profile adapters for special profiles on request	

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.



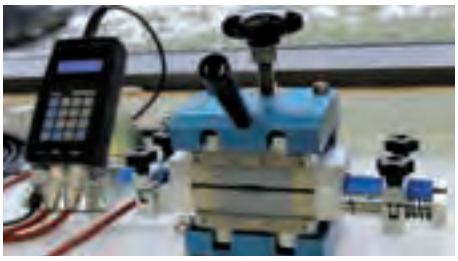
* Ferrules

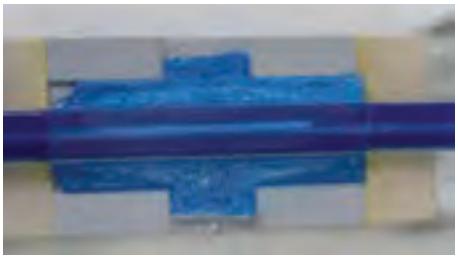
GENERAL

This welding technology provides perfect process control with the BEHA-belt 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.



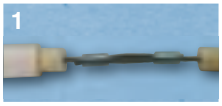


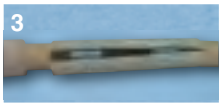
USE

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.





CRIMP CONNECTION

A special design variant is the connection of belts with steel reinforcements. In this case the bare reinforcement is jointed by crimps and the resulting interspace at the joint is filled with material inlays, pressed using a mould and a hot press, and jointed with the remaining material. Our joining set RH-2 is available for this purpose and offers you the entire equipment and material for producing such a joint.

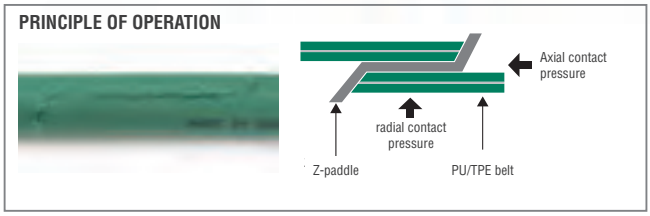
TIMING BELTS AND FLAT BELTS

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.

available July 2019

FZ03/1 & EErgo Z

Overlap welding set consisting of guide unit and EErgo Z



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

Paddle welding tool EErgo with Z-paddle

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 6x4mm 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

Scope of delivery:

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

Description	Order No.
FZ03/1-Set 8,0 kg, approx. 550 x 210 x 350 mm (WxDxH)	**FBWFZ03/1A**
EErgo Z 450 g, approx. 210 x 210 x 55 mm (WxDxH) Leistung: 240 W	**FBWEE026**
FZ03/1 guide unit 3,3 kg, approx. 210 x 250 x 70 mm (WxDxH)	**MBWFZ03/1A**

Spare parts

Spare paddle EERGO Z
Order No. **FBWEE024**
Dimensions (BxTxH):
approx. 100 x 65 x 6 mm

Clamping pieces for FZ03/1

1 set of clamping pieces consists of 2 parts

for round belts

for V-belts

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.

HS 400 & 800

Specially developed heating 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 highgly 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
- Welding unit delivered in a mobile, stable transport box for easy use on site

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)

Description	Order No.
HS400 Welding set in case 35,0 kg, approx. 50 x 95 x 30 cm (WxLxH)	**FBWHS400**
HS800 Welding set in case 48,0 kg, approx. 50 x 135 x 30 cm (WxLxH)	**FBWHS800**

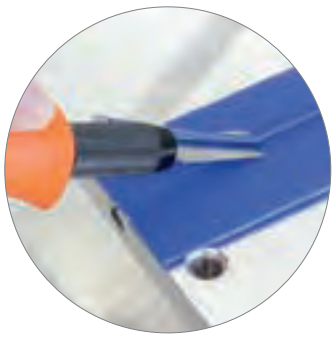
Individual components can also be purchased individually:

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) 1,7 kg, approx. 8 x 100 x 17 cm (WxLxH) Power: 3,2 kW / 230 V AC	**FBWHS800S01**
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**

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

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.

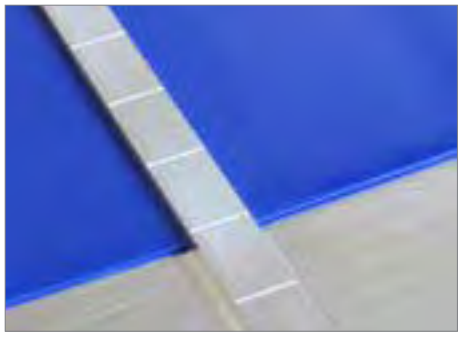
Optional adapter plates ensure precise positioning and clamping of the butt ends to be welded.

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

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.

A robust aluminium bar supports the precise insertion of the belt ends and ensures a high repeat accuracy (included in the standard scope of delivery).



Precise and aligned insertion of the belt ends.

RS02-Adapter

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

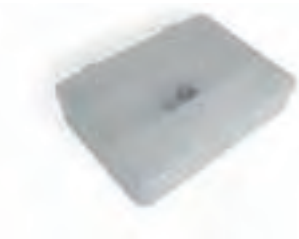
Description	Order No.
RS02-Adapter plastic	**FBWAPRS02**
RS02-Adapter Alu	**FBWAPRS02A**

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	Order No.
O-Rings for clamping jaws (10 pcs.)	**MNORING01**



Assortment box

Assortment box for clamping jaws for RS02 / RS02 AKKU

with 9 pockets, transparent Box

Description	Order No.
Assortment box	**FBWSORT9**

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.

Description	Order No.
RSH01 (450mm)	**FBWRSH01**
RSH02 (900mm)	**FBWRSH02**

Torque wrench

RS Torque wrench 7 / 4Nm

Description	Order No.
Torque wrench	**FBWSW7X85**

Protective cap for clamping lever RS02

For external thread of clamping lever on RS02 and RS02 CORDLESS

Description	Order No.
Protective cap for clamping lever	**MFKKB01**

Battery for RS02 CORDLESS

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

Description	Order No.
RS02 Battery	**FBWRS02AK18V**

Charging unit for RS02 CORDLESS

Charging unit 4A / 230V for RS02 CORDLESS

Description	Order No.
LG4A Charging unit	**FBWRS02LG4A2**

EM01 Deburring knife set and spare blades

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

Description	Order No.
Deburring knife set	**FBWEM001**
Spare blades (10 pcs.) W 12 mm	**FBWEM001B12**

SH01 Spare blade

Spare blade for belt cutter SH01

Description	Order No.
SH01 spare blade	**MREKSH01**

AS02

Scissors small with stop

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

Description	Order No.
AS02	**FBWAS02**

AS03

Scissors big with stop

For 90° cut and angle cut.

Description	Order No.
AS03	**FBWAS03**

AS04

Scissors big with angular stop (movable)

Scissors with movable angular stop

For 45°, 60°, 75°, 90°, 105°, 120° and 135° cuts.

Description	Order No.
AS04	**FBWAS04**

SE02

Edge cutter with special blade

to remove the welding bead accurately.

Description	Order No.
SE02	**FBWSE02**

SZ01

Pliers for fitting connectors

Description	Order No.
SZ01	**FBWSZ01**

FZ01 knurled nut

Plastic or metal replacement nut (M5)

Description	Order No.
FZ01 nut plastic	**MDFZ01001**
FZ01 nut metal	**MDFZ01002**

Paddle (MultiTC)

Spare paddle for welding tool „MultiTC“

Dimensions (HxWxD):
35 x 35 x 2 mm

Description	Order No.
Spare paddle MultiTC incl. assembly paste	**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 incl. assembly paste	**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 incl. assembly paste	**FBWTC72**

Paddle (SG02/03)

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

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

Description	Order No.
Spare paddle SG02/03 incl. assembly paste	**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 incl. assembly paste	**FBWEE002**

Paddle (EErgo 90)

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

Dimensions (HxWxD):
43 x 90 x 6 mm

Description	Order No.
Spare paddle EErgo 90 incl. assembly paste	**FBWEE025**

Paddle EErgo Z

Spare paddle Z for paddle welding tool „EErgo“

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

Description	Order No.
Spare paddle EErgo Z incl. assembly paste	**FBWEE024**

Carrying bags

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

Description	Order No.
Carrying bag „M“	**FCT000000002**
Carrying bag „XL“	**FCT000000003**

KS75

Bench vise with ball joint for paddle welding tools

Mount your paddle welding tool on a flexible, ball bearing holder.

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**

BEHAbelt
Made in Germany

Our PPuls Controllers are part of a vulcanizing and hotpress system, designed to replace standard large control cabinets.
The main function is to control the vulcanizing cycle with temperatures and cycle time.
The compact size of the controller along with the broad functionality of the unit makes the PPULS controller a good option when replacing controllers on just about any press.

PLEASE SEND TO:
Fax: +49 (0) 7684 / 907-101
E-Mail: tech@behabelt.com

			Element	**Extended**	**Extended 30A**	**Relaisbox**
Operating voltage of the heating						
A	115 V	☐	●	●	●	
B	208 V	☐	●	● (1)	● (1)	●
C	230 V	☐	●	●	●	● (1)
D	400 V	☐		● (1)	● (1)	●
E	480 V	☐				●
F	600 V	☐				●
☐ Different instructions:						
Power consumption per heating plate and **per Phase**						
G	≤ 5A	☐	●	●	●	●
H	≤ 9A	☐		●	●	●
I	≤ 16A	☐		● (2)	●	●
Internal interconnection of the heating						
J	single phase	☐	●	●	●	●
K	3-phase star connection (center connection accessible)	☐	● (4)	● (3)	● (3)	●
L	3-phase star connection (center connection not accessible)	☐				●
M	3-phase delta connection	☐				●
Mains connection						
N	„Schuko“ (3-pole)	☐	●	● (5)	● (5)	●
O	NEMA 5-15 (3-pole)	☐	● (6)			
P	CEE 16A (5-pole)	☐		●		●
Q	CEE 32A (5-pole)	☐			●	●
R	NEMA L6-30 (3-pole)	☐			●	●
S	NEMA L15-30 (4-pole)	☐			●	●
☐ Different instructions:						
Sensor-Type						
T	PT100	☐	●	●	●	●
U	Type-K thermocouple	☐	●	●	●	
U	Type-J thermocouple	☐	●	●	●	

(1) Only in combination with J
(2) Only in combination with A or C
(3) Only if the total current of all phases ≤ 16A and A or C
(4) Only if the total current of all phases ≤ 5A and A or C
(5) With adapter FBEC11 and only if the total current of all phases ≤ 16A and C
(6) Only in combination with A

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 each are 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 platens. 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, dehumidifi ers, etc. Model 704 is delivered in a single package with one additional heavy spring.

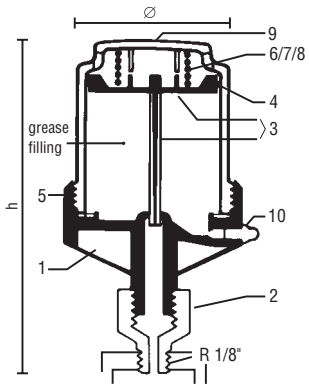
Area of operation: -25...+230° C

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

	low	medium	strong	extra strong
Type	**Spring resilience N tensioned/unstressed**			
202, 205, 260	26/13 N 30/15 N 84/42 N	40/20 N 44/22 N 130/65 N	54/27 N 72/36 N 140/70 N	98/49 N 90/45 N 156/78 N
302 305 360	26/13 N 30/15 N 84/42 N	40/20 N 44/22 N 130/65 N	54/27 N 72/36 N 140/70 N	98/49 N 90/45 N 156/78 N
302 305 360	26/13 N 30/15 N 84/42 N	40/20 N 44/22 N 130/65 N	54/27 N 72/36 N 140/70 N	98/49 N 90/45 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 +80°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 'Sinnerscher 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.

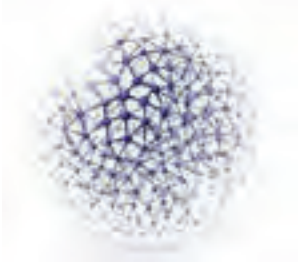
For critical applications, a detailed resistance test considering both swelling and the affect on mechanical properties is recommended.

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 infl uences. The FDA has prepared a review "Title 21: Code of Federal Regulations" in respect of their approval of raw materials in a processed or fi nished 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 Vetinary 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

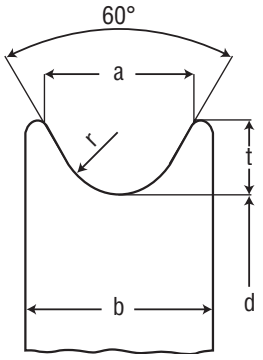
„What impact has the pulley diameter on the belt?“

The diameter of pulleys have an important influence on the lifetime of belts. The catalogue values for minimum pulley diameters should be considered. Diameters below recommendation, usually reduce the service life of the belt due to an increased number of bending cycles, that accelerates material fatigue. Our minimum pulley diameter indications are based on the neutral layer of the belt, at 180° wrap angle. This is the contact angle, on which the belt is guided around the pulley.

Our values are recommendations and may allow slight variation in specific circumstances. Durability and material fatigue are influenced by the conveyor design, bending frequency and the actual application/process environment.

Our recommendations are based on the assumption of a bending every 4 seconds on a conveyor with 2m center-distance and constant speed of 0.5m/s. For specific calculation support, please contact our application engineers or hand in a dully filled technical inquiry form.

Pulleys for round belts

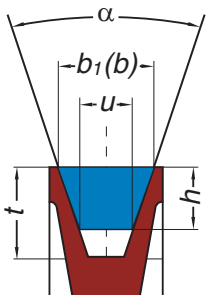


Belt ∅	2	3	4	4,8	5	6	6,3	7	8	9,5	10	12	12,5	15	18	20
a (mm)	4,5	5,5	7	8	8	10	10	11	12	14,5	15	18	18,5	23	28	30
b (mm)	6,5	8	10	12	12	14	14	15	16	19	19	22	23,0	27	32	36
t (mm)	2,5	3	3,5	4	4	5	5	5,5	6	7	7,5	9	9	12	14	15
r (mm)	1,4	1,9	2,5	3	3	3,5	3,5	4	4,5	5,5	5,5	6,5	7	8	9,5	11

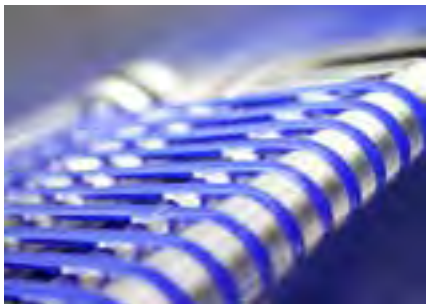
Please select the appropriate minimum pulley diameter according to the different PU/Polyester qualities The best qualified materials for pulleys are steel, high-alloyed steel, aluminium or Polyamid when it comes to plastic. Please keep in mind the low friction coefficient μ when using plastic material.

Recommended pulleys for V-belts

Profile acc. 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 α	∠ 34 - 38°						
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						

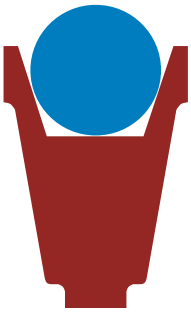


For BEHAbelt V-belts according to DIN 2215 / ISO 4184 pulleys for V-belts according to DIN 2217/ ISO 4183 have to be used.



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

For the sake of conveyor design simplicity these are often the same pulleys as used for V-belts. However, V-belt pulleys are not ideal as the dedicated grooves can literally clamp a round belt and lead to premature damages. Therefore, a special round belt pulley is recommended. Different to a V-belt, round belts need to contact the flank and the bottom of the groove, which must be considered when manufacturing respective pulleys.

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 parallel V-belts, a distinction is made between the use as a drive conveyor belt or as spreader belt.

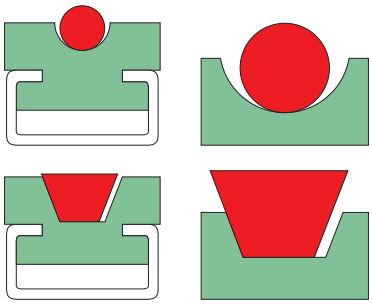
In the case of a drive, the pulley design must be in such a way that the power is transmitted by the flanks.

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.

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 eaqual 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 Ra = 1,6 µ - 3,2 µ - 6,3 µ.

Drive pulley design conveyor belt: Calculation

Length of cylindrical area b_C

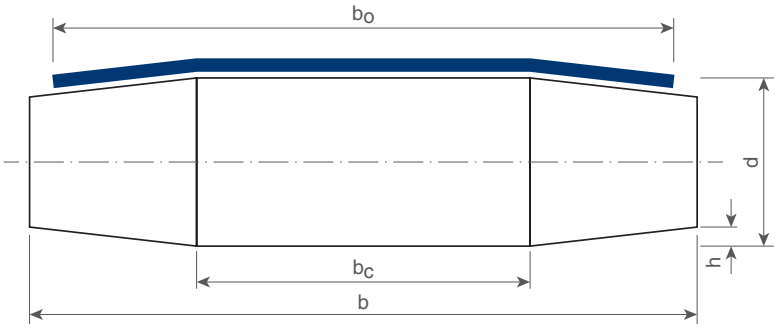
$b_C = b_O / 2$

Pulley width **b**

$b = b_O \times 1{,}1$

Crown bow **h**

$h = (d + 100) / 450$ mm



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 instillation 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 pretention for each belt to reduce premature wear and failure on your bearings. Common ways to properly tension a belt are as follows:

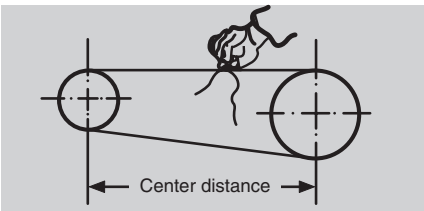
- cut the belt to a shorter length than the measured length of the conveyor system
- use a take up pulley or a deflection pulley with a counter weight or a mechanical screw movement
- the drive motor is moved in slotted mounting holes via an adjustment screw
- tensioning sled (the drive motor is mounted 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

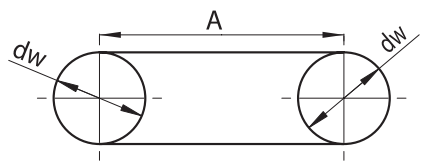
Use a string or steel tape to make measurements after reducing take-up (if installed) to the minimum. Distance between pulleys should remain fixed. To obtain good driving strength and good belt life, the belt pretension should be 0,5% to maximum 10%, based on hardness and length of the belt.

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.



BEHAbelt
Made in Germany

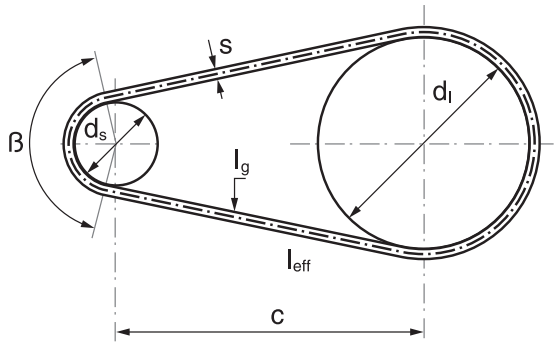
Calculation of belt length



$L_{f1} = dw \times \pi + 2 \times A$

dw = effective diameter (position of the neutral fiber of belt)
A= center distance
for round belts: dw = *bottom of groove + diameter of belt*

The recommended pretension has to be considered in addition!

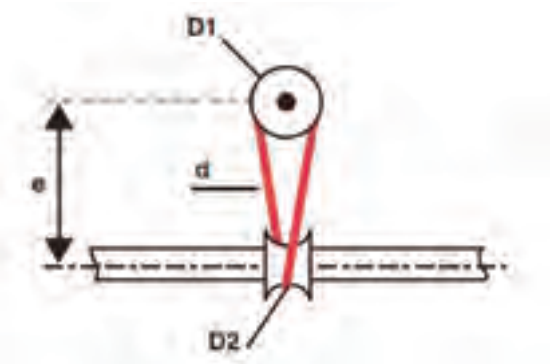


$$l_{eff} = 2c \cdot \sin\left(\frac{ß}{2}\right) + \frac{\pi}{2}\left[d_s + d_l + 2s + \frac{(dl - ds)\,(180 - ß)}{180}\right] \text{ [mm]}$$

$$ß = 2 \arccos\left(\frac{d_l - d_s}{2c}\right) [°]$$

c = center distance [mm]
d_s = Diameter of the small pulley [mm]
d_l = Diameter of the big pulley [mm]
ß = 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 (e): 4 x 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

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 if Li is determined or known	La = Li +	25	31	38	50	69	88	126
	La = Lw +	10	12	16	20	29	30	51
La = outside length Lw = effective length / cut length Li = inside length	Lw = Li +	15	19	22	30	40	58	75
	Lw = La -	10	12	16	20	29	30	51

The recommended pretension has to be considered in addition

Quick guide for belt calculation

The following tables provide information on the most important parameters for designing a conveyor belt as a function of the belt thickness, material quality and preload applied. By means of the following formulas and the belt width you use, you can quickly and easily determine the preload force, shaft load and maximum transport weight.

Pretension force (N)	Axle load (N)	max. transport weight (kg)
Table value x belt width used (mm)	Value from table x actual belt width used (mm) / number of axes (shafts)	Table value x bandwidth used (mm) x 0,05

For belt designs not listed, check the k1% value on the respective data sheets and determine the necessary parameters using the general formulas on the next page.

Belt thickness mm	Quality	Hardness Shore	k1% N/mm	Table values (at x% pretension) 0,5%	1,0%	1,5%	2,0%	2,5%	3,0%	3,5%	4,0%	4,5%	5,0%
1,0	PU65A	72A	0,08	0,08	0,16	0,24	0,32	0,40	0,48	0,56	0,64	0,72	0,80
	PU75A	80A	0,15	0,15	0,30	0,45	0,60	0,75	0,90	1,05	1,20	1,35	1,50
	PU80A	84A	0,20	0,20	0,40	0,60	0,80	1,00	1,20	1,40	1,60	1,80	2,00
	PU80Asafe	84A	0,18	0,18	0,36	0,54	0,72	0,90	1,08	1,26	1,44	1,62	1,80
	PU95A	95A	0,50	0,50	1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00
	TPE55D	55D	0,75	0,75	1,50	2,25	3,00	3,75	4,50	5,25	6,00	6,75	7,50

Belt thickness mm	Quality	Hardness Shore	k1% N/mm	Table values (at x% pretension) 0,5%	1,0%	1,5%	2,0%	2,5%	3,0%	3,5%	4,0%	4,5%	5,0%
1,2	PU65A	72A	0,10	0,10	0,20	0,30	0,40	0,50	0,60	0,70	0,80	0,90	1,00
	PU75A	80A	0,18	0,18	0,36	0,54	0,72	0,90	1,08	1,26	1,44	1,62	1,80
	PU80A	84A	0,24	0,24	0,48	0,72	0,96	1,20	1,44	1,68	1,92	2,16	2,40
	PU80Asafe	84A	0,22	0,22	0,44	0,66	0,88	1,10	1,32	1,54	1,76	1,98	2,20
	PU95A	95A	0,60	0,60	1,20	1,80	2,40	3,00	3,60	4,20	4,80	5,40	6,00
	TPE55D	55D	0,90	0,90	1,80	2,70	3,60	4,50	5,40	6,30	7,20	8,10	9,00

Belt thickness mm	Quality	Hardness Shore	k1% N/mm	Table values (at x% pretension) 0,5%	1,0%	1,5%	2,0%	2,5%	3,0%	3,5%	4,0%	4,5%	5,0%
1,6	PU65A	72A	0,13	0,13	0,26	0,39	0,52	0,65	0,78	0,91	1,04	1,17	1,30
	PU75A	80A	0,24	0,24	0,48	0,72	0,96	1,20	1,44	1,68	1,92	2,16	2,40
	PU80A	84A	0,32	0,32	0,64	0,96	1,28	1,60	1,92	2,24	2,56	2,88	3,20
	PU80Asafe	84A	0,29	0,29	0,58	0,87	1,16	1,45	1,74	2,03	2,32	2,61	2,90
	PU95A	95A	0,80	0,80	1,60	2,40	3,20	4,00	4,80	5,60	6,40	7,20	8,00
	TPE55D	55D	1,20	1,20	2,40	3,60	4,80	6,00	7,20	8,40	9,60	10,80	12,00

Belt thickness mm	Quality	Hardness Shore	k1% N/mm	Table values (at x% pretension) 0,5%	1,0%	1,5%	2,0%	2,5%	3,0%	3,5%	4,0%	4,5%	5,0%
1,8	PU65A	72A	0,14	0,14	0,28	0,42	0,56	0,70	0,84	0,98	1,12	1,26	1,40
	PU75A	80A	0,27	0,27	0,54	0,81	1,08	1,35	1,62	1,89	2,16	2,43	2,70
	PU80A	84A	0,36	0,36	0,72	1,08	1,44	1,80	2,16	2,52	2,88	3,24	3,60
	PU80Asafe	84A	0,32	0,32	0,64	0,96	1,28	1,60	1,92	2,24	2,56	2,88	3,20
	PU95A	95A	0,90	0,90	1,80	2,70	3,60	4,50	5,40	6,30	7,20	8,10	9,00
	TPE55D	55D	1,40	1,40	2,80	4,20	5,60	7,00	8,40	9,80	11,20	12,60	14,00

Belt thickness mm	Quality	Hardness Shore	k1% N/mm	Table values (at x% pretension) 0,5%	1,0%	1,5%	2,0%	2,5%	3,0%	3,5%	4,0%	4,5%	5,0%
2,0	PU65A	72A	0,16	0,16	0,32	0,48	0,64	0,80	0,96	1,12	1,28	1,44	1,60
	PU75A	80A	0,30	0,30	0,60	0,90	1,20	1,50	1,80	2,10	2,40	2,70	3,00
	PU80A	84A	0,40	0,40	0,80	1,20	1,60	2,00	2,40	2,80	3,20	3,60	4,00
	PU80Asafe	84A	0,36	0,36	0,72	1,08	1,44	1,80	2,16	2,52	2,88	3,24	3,60
	PU95A	95A	1,00	1,00	2,00	3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00
	TPE55D	55D	1,50	1,50	3,00	4,50	6,00	7,50	9,00	10,50	12,00	13,50	15,00

Belt thickness mm	Quality	Hardness Shore	k1% N/mm	Table values (at x% pretension) 0,5%	1,0%	1,5%	2,0%	2,5%	3,0%	3,5%	4,0%	4,5%	5,0%
3,0	PU65A	72A	0,24	0,24	0,48	0,72	0,96	1,20	1,44	1,68	1,92	2,16	2,40
	PU75A	80A	0,45	0,45	0,90	1,35	1,80	2,25	2,70	3,15	3,60	4,05	4,50
	PU80A	84A	0,60	0,60	1,20	1,80	2,40	3,00	3,60	4,20	4,80	5,40	6,00
	PU80Asafe	84A	0,54	0,54	1,08	1,62	2,16	2,70	3,24	3,78	4,32	4,86	5,40
	PU95A	95A	1,50	1,50	3,00	4,50	6,00	7,50	9,00	10,50	12,00	13,50	15,00
	TPE55D	55D	2,25	2,25	4,50	6,75	9,00	11,25	13,50	15,75	18,00	20,25	22,50

Belt thickness mm	Quality	Hardness Shore	k1% N/mm	Table values (at x% pretension) 0,5%	1,0%	1,5%	2,0%	2,5%	3,0%	3,5%	4,0%	4,5%	5,0%
4,0	PU65A	72A	0,32	0,32	0,64	0,96	1,28	1,60	1,92	2,24	2,56	2,88	3,20
	PU75A	80A	0,60	0,60	1,20	1,80	2,40	3,00	3,60	4,20	4,80	5,40	6,00
	PU80A	84A	0,80	0,80	1,60	2,40	3,20	4,00	4,80	5,60	6,40	7,20	8,00
	PU80Asafe	84A	0,72	0,72	1,44	2,16	2,88	3,60	4,32	5,04	5,76	6,48	7,20
	PU95A	95A	2,00	2,00	4,00	6,00	8,00	10,00	12,00	14,00	16,00	18,00	20,00
	TPE55D	55D	3,00	3,00	6,00	9,00	12,00	15,00	18,00	21,00	24,00	27,00	30,00

General calculation formulas for belt design

Pretension force (N)
k1% (N/mm) x belt width (mm) x pretension (%) x 2

Axle load (N)
k1% (N/mm) x belt width (mm) x pretension (%) x 2 / number of axes

max. transport weight (kg)
k1% (N/mm) x belt width (mm) x pretension (%) x 0,1

Coefficient of friction μ for smooth surfaces (G)

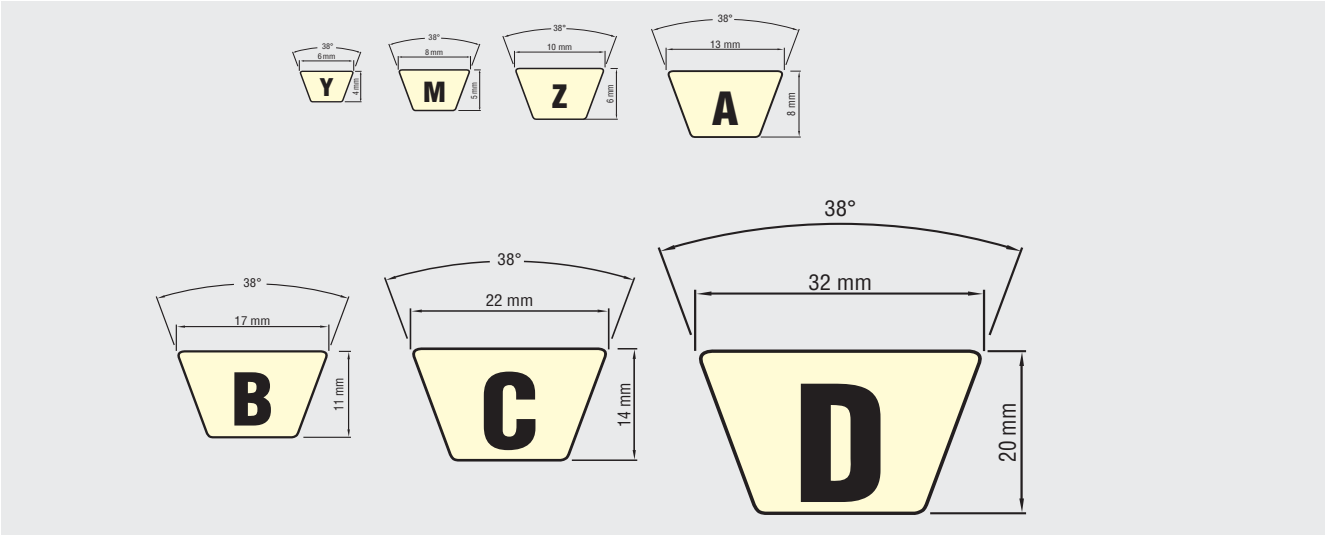
Quality	Alu	Steel	Glass	Wood (veneer)	PE	HDPE
PU60A	0,95	0,90	0,75	0,80	0,55	0,50
PU65A	0,90	0,85	0,65	0,70	0,50	0,45
PU70A	0,85	0,75	0,60	0,70	0,40	0,35
PU75A	0,85	0,70	0,50	0,65	0,40	0,35
PU80A	0,80	0,65	0,45	0,60	0,35	0,30
PU85A	0,75	0,60	0,40	0,50	0,35	0,30
PU85A rau	0,55	0,45	0,45	0,45	0,30	0,25
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 μ for flat belt surfaces on steel (dry)

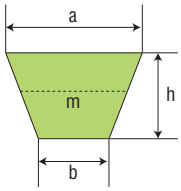
Quality	smooth gloss (SG)	smooth matt (SM)	fabric impression (FI)	Inverted diamond (ID)	Slightly rough (SR)
PU65A	0,85	0,80	0,70	0,65	0,70
PU75A	0,70	0,65	0,55	0,50	0,55
PU80A	0,65	0,60	0,50	0,45	0,50
PU95A	0,45	0,40	0,30	0,25	0,30
TPE55D	0,35	0,30	0,25	0,20	n/a

V-belt dimensions according to DIN 2215 and ISO 4184

All V-belts are produced with a small radius at the edges

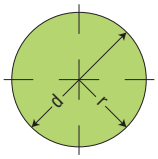


Calculation of round belt and V-belt cross section



$$A_{cm^2} = \frac{a+b}{2} \times h = m \times h$$

$$m = \frac{a+b}{2}$$



$$A_{cm^2} = \frac{\pi}{4} \times d^2 \approx 0{,}785 \times d^2$$

$$U = \pi \times d$$

Manufacturing tolerances BEHAbelt round- and V-belts/conveyor belts

Description	Dimension mm	Tolerance ≈ mm
Round belts		
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	
V-belts DIN 2215			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
Flat belt		
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)	Tolerance
150 - 1000 mm	± 2 mm
1001 - 4000 mm	± 3 mm
4001 - 10000 mm	± 5 mm
über 10000	± 10 mm

Production width	Tolerance
< 300 mm	± 1,0 mm
> 300 mm	± 1,5 mm

Weld thickness	Tolerance
0,9 / 1,0 / 1,2 / 1,6 / 2,0 / 3,0 / 4,0 mm	± 10% of the belt thickness

Contact customer service if more strict tolerances are required.

Technical request

Project		Phone	
Name		E-mail	
Address			

☐	**A**	I'm looking for a replacement of an existing product. What performance would you like to improve:
☐	**B**	I'm looking for a technical design support.

PLEASE SEND TO:

Fax: +49 (0) 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	☐ smooth ☐ matt ☐ rough ☐ textured ☐ other:	
Color		
Special product properties (FDA/EC, antistatic, UV, etc.)		
Supply of sample	☐ yes ☐ 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/ take up amount	☐ yes, inch, ☐ no
Max. belt load		numbers of belts that convey the load	

Environmental conditions			
What chemical requirements must the belt withstand?			
What is your cleaning procedure?			
Humidity / water	☐ normal ☐ high ☐ Belt in water	UV-radiation	☐ yes ☐ no
Is your belt subject to high abrasion?	☐ yes, due to:	☐ no	
Environmental temperature (°C/°F)		Others	

Needs assessment			
Order quantity (ft/pc.)		Annual requirement (ft/pc.)	
Target Price		Standard coil length (ft)	
Packaging / coil form	☐ Wooden reel ☐ Coil ☐ Box ☐ Cut to length ☐ Special winding		

This form (including explanatory notes) is also available online at: **www.behabelt.com.** We are happy to advise you by phone: **+49 (0) 7684/907-0**

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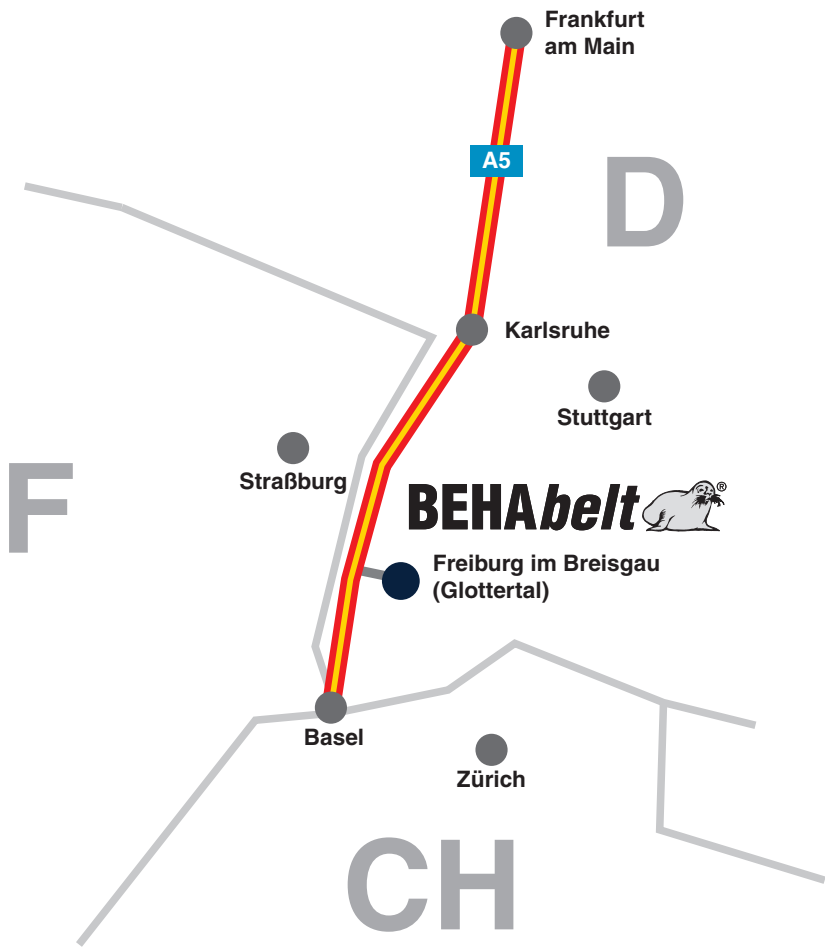
You can find us here



BEHAbelt products are available at your specialist dealer or our area representives

Your specialist dealer / system supplier

PBEPM0000096 · 04/19

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