BEHAbelt®
Made in Germany

Product Catalogue 2017/2018

Round- and V-belts | monolithic conveyor belts | flat belt accessories | welding equipment

Edition 2017/2018

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.

Content

BEHAbelt Made in Germany

ABOUT US

**Beha Innovation GmbH is a German company based in the heart of Europe.
We extrude a complete line of the highest quality Polyurethane and Polyester profiles and conveyor belts for transport and drive applications. True to the motto “smart conveying solutions”, we have been supplying innovative drive and conveying technology products since 1974.
We provide quick and accurate service through our main factory in Glottertal, Germany, our subsidiary located in USA, as well as our worldwide distribution network.**

BEHA – 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.

Smart Conveying Solutions

“We put innovative ideas into practice.”

Our success is based on knowledge of the market and serving our customers with a broad line of profiles and belts. Our strategy is to provide the best extruded profiles and homogeneous belts in the market today and lead the industry in new innovative products in the future. Our inhouse tool shop allows us to react quickly to changing demands in the market. This strategy has resulted in a complete range of high quality products where we hold International trade mark rights and patents.

We focus on our customers

Our customer service is linked closely with our customers in the market and works together with them to provide the fastest and most accurate handling of inquiries and orders. We employ a sophisticated logistic process that ensures highest quality of service – worldwide. All procedures and activities are conducted with the highest possible commitment to quality. We comply with the specification of the standard DIN EN ISO 9001.

Newsletter

Subscribe to our newsletter and always stay up to date on our latest innovations and products!

www.behabelt.com

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Technical consulting

BEHAbelt supports you with a competent team which has a solid foundation of technical knowledge.

Contact our experienced team for technical consulting and support concerning belt profiles, conveyor belts and welding technology!

Innovations

SPIKES AND NIPPLES · FDA/EC compliant

New belt surfaces designed for a gentle or high grip handling with the conveyed products up to a belt width of 750 mm.

starting on page 66

Flat belt stripes for sidewalls

BEHAbelt offers flat belt material cut to width and length, suitable for welding various height and thickness sidewalls directly to the conveyor belt.

The special flat belt material has excellent weldability with polyurethane and most PVC types.

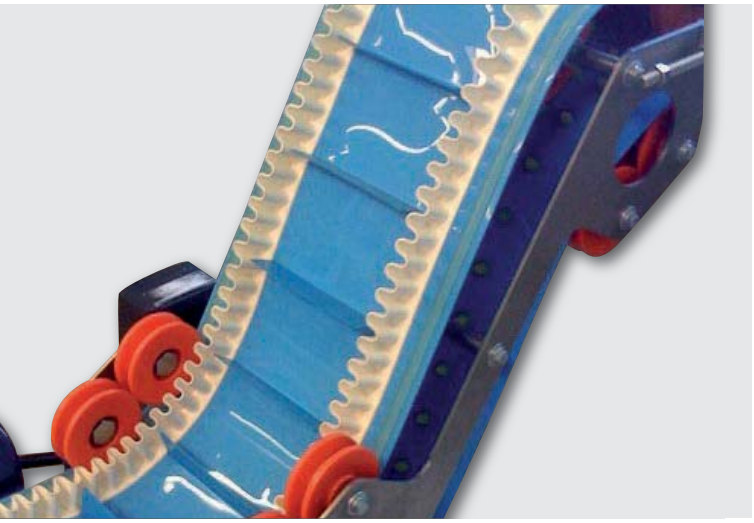
starting on page 82

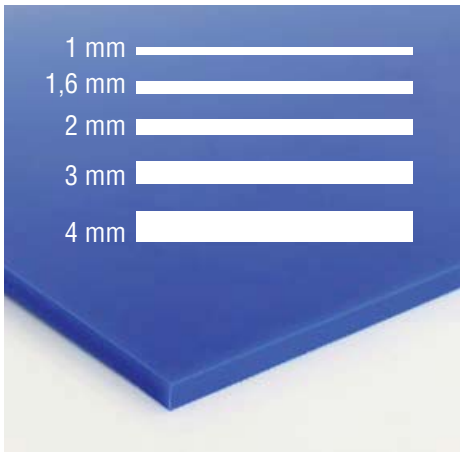
Guide clamp FZ02/3F for flat belts

For mobile welding of flat belt strips up to the width of 60 mm

This special version based on the proven design of the FZ02 series enables precise butt welding of belts over 1 mm belt thickness.

starting on page 97





Conveyor belt up to 4 mm material thickness

BEHAbelt now enhanced its flat belt portfolio to 4 mm material thickness from formerly 1 - 3 mm.

This enhancement now allows using still more rugged monolithic belts for particularly demanding applications.

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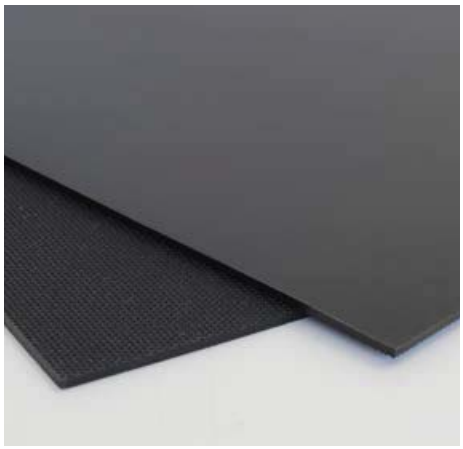

Black industrial belts

From now on a special PU belt product line of black design is available for using belts in the most diverse industrial fields for impact protection, cushioning, covering, etc.

The black industrial belt with thicknesses of 2/3/4/6/8 mm is available in two hardness degrees: Shore 85A and Shore 95A.

The surface comes with smooth and mat design on one side and a fine structure on the other, thus allowing for versatile application of the belts.

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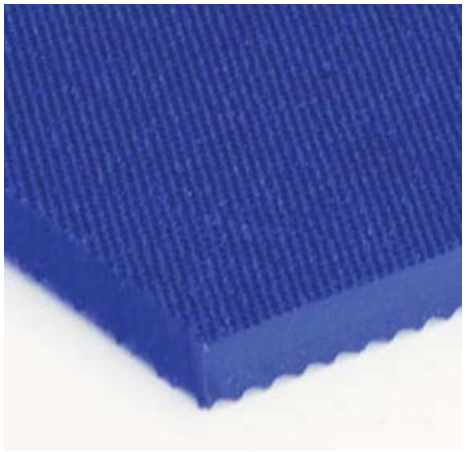

Slightly roughened belt surface

New belt surface with extra fine texture for gentle conveying but also non-slip transport of foodstuff.

Excellent release properties of the products at the belt transfer points. Improved cleaning of the belt surface using wipers compared to using negative profiles.

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Transparent conveyor belts for the detection of transport goods

Transparent conveyor belts with smooth and slightly roughened surface combinations in Shore 85A enable optimum use for detection of the transport goods during conveying.

The smooth glossy surface provides adequate adhesion to prevent slipping. The slightly roughened surface enables saving slide charging supported by the belt. In addition, the belt has sufficient transparency.

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Innovations

Friction welder RS02 as battery version

NEW: Battery version of the proven friction welding machine RS02

With exchangeable clamping jaws for various PU profiles

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PATENT

Cogged V-guides

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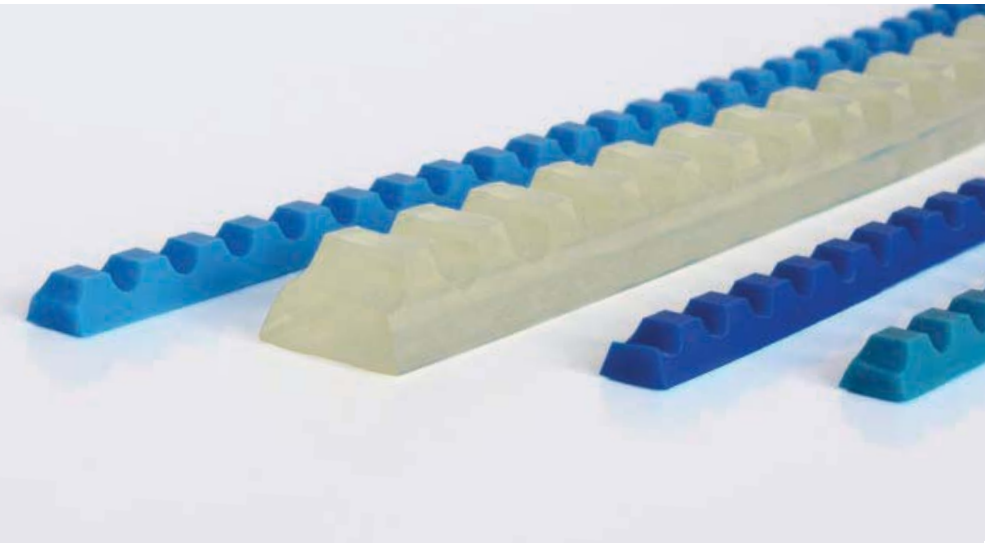
Flexible cogged V-guides with excellent weldability on PU belts and most PVC belts.



More grip: PU40A and PU50A coatings

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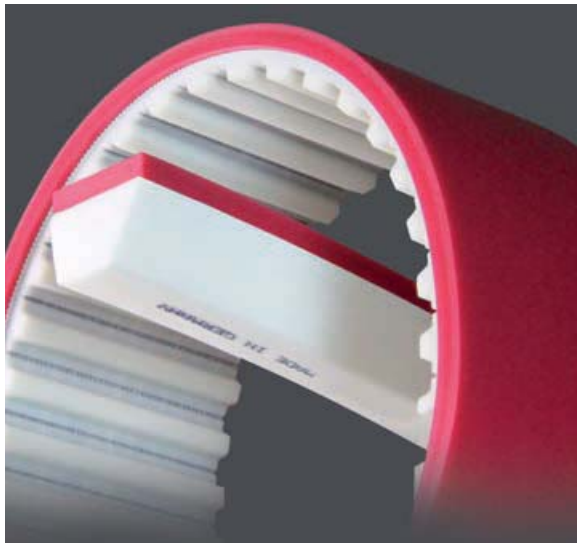
Our most recent extremely soft coating materials PU*grip* and PU*tex* soft offer excellent take-away properties.



Antistatic round belts

Our two antistatic round belts are used for environments where electrostatic charging is undesirable or impermissible such as for example fort conveying electronic components.

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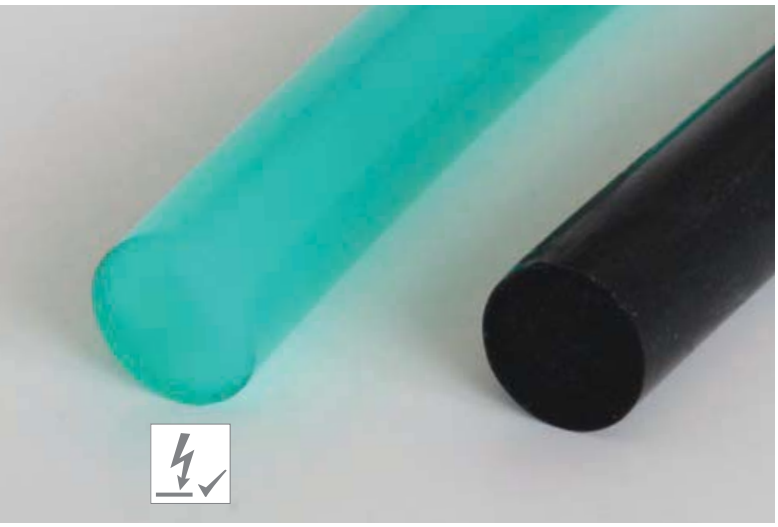
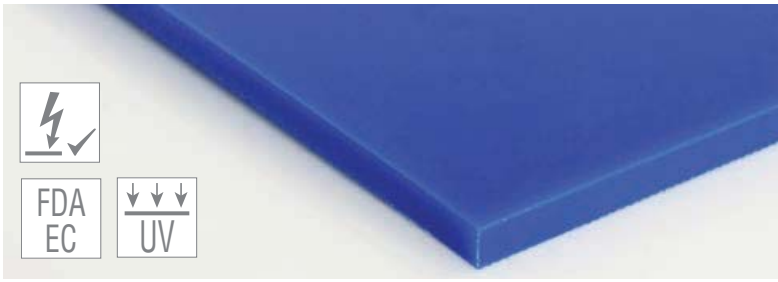


Antistatic and UV-C resistant conveyor belts for the food industry

UV-C resistant belts complement the new portfolio thus enabling long service lives of monolithic conveyor belts in the food industry for sterilization of the strip surface using UV-C light.

Antistatic belts for the food industry are used if static charging of the strip surface might cause disturbances of sensitive electronic components and assemblies, as weighing units for example.



Can Cables - special round belts for the canning industry

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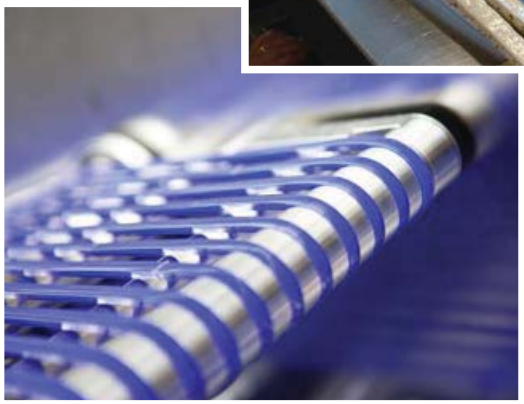
Our Can Cable product range offers a broad range especially for the canning industry.
We offer appropriate profiles for almost all conveying conditions in this segment.

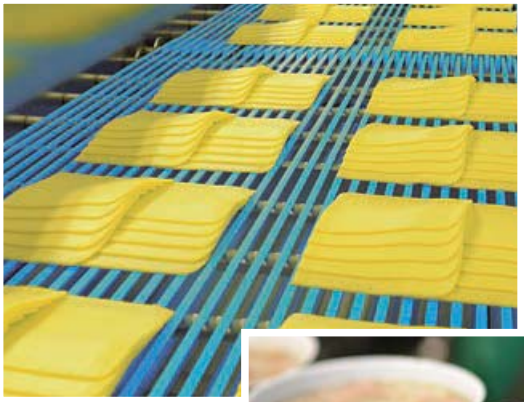
Product overview

Round- and V-belts (Ridge-top-V-belts, Twin-V-belts, V-ribbed belts etc.)

		GEOMETRY							
Product-quality	**Shore hardness**	**Round and V-belts (Standard)**	FDA EC **Round and V-belts**	**Round belts rough**	**Hollow round belts (Standard)**	FDA EC **Hollow round belts**	**Twisted round belts**	**V-ribbed belts**	
PU60A	65A		blue (PUsoft)						
PU70A	76A		ultramarine blue				sky blue		
PU75A	80A	red	skyblue		red	sky blue	orange (PU plus)		
PU80A	84A	transparent / orange	ultramarine blue	ultramarine blue (FDA)					
PU85A	88A	green	sapphire blue	green	yellow / green (rough)	sapphire blue		ultramarine blue (PU plus)	
PU90A	92A	white			white				
PU95A	95A	beige							
TPE40D	40D	beige							
TPE55D	55D	beige / blue							
TPE63D	63D	beige							



			CHARACTERISTICS				CONSTRUCTION			
	Ridge-top-V-belts	Twin-V-belts	PUsoft	PUplus	Metal detectable	Antistatic	weldable reinforce-ment	Reinforced Polyester	Reinforced Aramid	Reinforced Steel
			blue (Round belt)							
	transparent / white	red		orange			orange (V-belt)	light grey (V-belt)		
	transparent	orange			capri blue			orange		
	green / ultramarine blue	mint green		ultramarine blue (rough)		emerald green /black (Round belt)	ultramarine blue	sapphire blue /mint green (Twin-V-belt)	green	
								white		
	beige							beige	red (Can Cable)	
	beige							beige		
								beige / blue		beige (Can Cable)
								beige		



Product overview

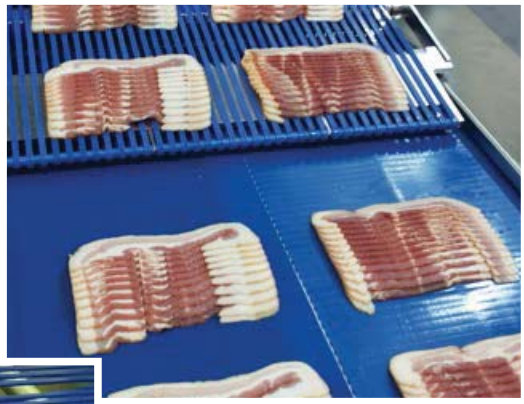
Elastic monolithic conveyor belts and coatings

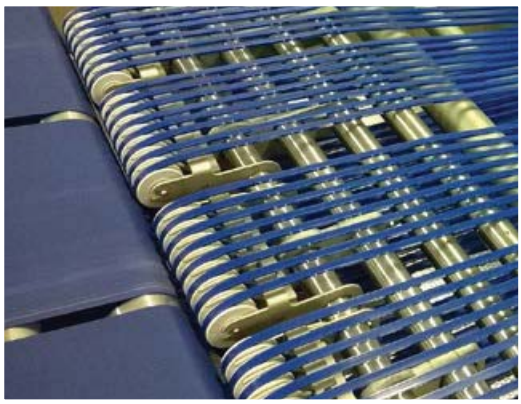
Product quality	Shore hardness	Coatings 140 mm	Flat belts 140 mm	Flat belts 140 mm for sidewalls	
PU40A	45A	transparent (PU*grip*)			
PU50A	55A	red (PU*tex* soft)			
PU60A	65A	transparent / red (PU*tex*)			
PU65A	72A	transparent (also ribbed)			
PU75A	80A	transparent	sky blue		
PU80A	84A	capri blue (detectable)	orange / capri blue (detectable)	white / green / sky blue / ultramarine blue / capri blue / blue green	
PU85A	88A	transparent	green		
PU90A	92A				
PU95A	95A				
TPE40D	40D				
TPE55D	55D				
TPE63D	63D				

Welding profiles

Product quality	Shore hardness	V-guides	Cleats	Sidewalls	Belt edges
PU60A	65A	transparent / sky blue / ultramarine blue			
PU70A	76A	transparent / sky blue / ultramarine blue / capri blue (detectable)			
PU75A	80A				emerald green / transparent
PU80A	84A		white / green / sky blue / ultramarine blue / capri blue (detectable)	white / green / sky blue / ultramarine blue / capri blue (detectable)	emerald green
PU85A	88A				emerald green
PU90A	92A		white / green / sky blue / ultramarine blue / capri blue (detectable)		

	Conveyor belts 750 mm	Belt surface 750 mm (top side)	Belt surface 750 mm (bottom side)	Metal detectable	Antistatic
	ultramarine blue	smooth gloss (SG)	Fabric impression (FI) / inverted diamond (ID) / smooth gloss (SG)		
	ultramarine blue / white	smooth matt (SM) / smooth gloss (SG)	Fabric impression (FI) / inverted diamond (ID) / smooth gloss (SG)		ultramarine blue (750mm)
	ultramarine blue / capri blue (detectable)	smooth matt (SM) / smooth gloss (SG) / Nipples (NI) / Spikes (SP) / slightly rough (SR), inverted diamond (ID)	Fabric impression (FI) / inverted diamond (ID) / smooth gloss (SG)	capri blue	ultramarine blue (750mm)
					emerald green (140mm)
	ultramarine blue / sky blue / white	smooth matt (SM) / smooth gloss (SG)	Fabric impression (FI) / inverted diamond (ID) / smooth gloss (SG)		
	ultramarine blue				





CONVEYOR BELT PROFILES MADE OF PU AND TPE

General explanation of the product tables

(3)

(4) approx. 88° Shore A

(5) Recommended pretension 1...2 %

PU85A green rough, reinforcement aramid (2)

(1) Order No.	(7) Diameter ∅ mm	(7) Diameter ∅ inch	(8) Cross section cm²	(9) approx. weight kg/100 m	(10) Standard Roll m	(10) Standard Roll ft	(11) Recommended Min. pulley∅ mm	(11) Recommended Min. pulley∅ inch	(12) Fmax/belt (Standard)* kg	(12) Fmax/belt (Standard)* lbs	(13) Fmax/belt (overlap) kg	(13) Fmax/belt (overlap) 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

(6) **Coefficient of friction µ:** Steel: approx. 0,45 | PE: approx. 0,35 | HDPE: approx. 0,30 * = coefficient of friction µ:0,5

Key

(1) BEHAbelt article/order number (availability, lead time and minimum order quantity upon request)

(2) BEHAbelt Material Type Quality

(3) Colour (caution, original colour may deviate from the graphic)

(4) Specified Shore hardness (Attention! BEHAbelt Material Type Quality doesn't match the Shore hardness of the belt)

(5) Recommended pretension to tighten the belt in the system (in %)

(6) Coefficient of friction µ on steel, PE and HDPE surfaces (Also see coefficient of friction values page 114)

(7) Profile geometry in mm

(8) Material cross-section of the profile (For further details on the calculation, see page 114)

(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) Approx. max. load of the belt at a coefficient of friction µ:0.5 (standard case) for butt welding (in kg/belt)

(13) Approx. max. load of the belt at a coefficient of friction µ:0.5 (standard case) for overlap welding (in kg/belt)
(hot-press method HP01, overlap length of 60 mm)

Symbols

Anti-static dissipative profile with outstanding mechanical properties

-30°C

Profile with exceptional low-temperature flexibility down to -30°C.

LOW

Patented blend of materials "PLUS" in order to optimise elongation for quality PU75A and PU85A for critical applications.

UV

Very good UV resistance.

Available in black and silver.

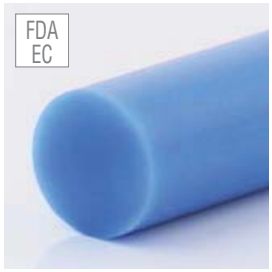
FDA EC | FDA EC USDA

FDA/EC conformity for hydrolysis-resistant conveying profiles with rough and finely textured surfaces.

EC/FDA/USDA conformity for smooth profiles.

METAL

Metal-detectable profiles for a high degree of food safety.



PU60A SOFT 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
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	100	328	70	2,7	9,4	20,7

approx. 65° Shore A

Recommended pretension 5...10 %

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

* = coefficient of friction μ:0,5

PU70A ultramarine 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
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

approx. 76° Shore A

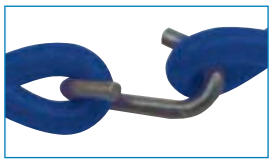
Recommended pretension 4...8 %

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

* = coefficient of friction μ:0,5

PU70A twisted round belts sky blue smooth

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

approx. 76° Shore A

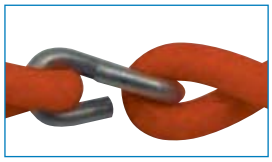
Recommended pretension 8...10 %

Coefficient of friction μ: Steel: approx. 0,75 | **FDA/EC/USDA compliant****

* = coefficient of friction μ:0,5

PU75A PLUS twisted round belts orange smooth (matt)

Order No.	Diameter ∅		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	inch	mm	inch	kg	lbs
FBXI3X2500G FBXI3X4500G	5,0	1/5	40	1,6	5,9	13,0



Available standard lengths of 250...710 mm

approx. 80° Shore A

Recommended pretension 6...8 %

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

* = coefficient of friction μ:0,5

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

Construction: 2 x ∅ 3 mm (∅ 5 mm)

**Limited suitability EC

PU75A sky 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
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

* = coefficient of friction µ:0,5

approx. 80° Shore A

Recommended pretension 4...8 %

Coefficient of friction µ	
Steel	approx. 0,70
PE	approx. 0,40
HDPE	approx. 0,35

FDA/EC/USDA compliant

PU75A red smooth

Order No.	Diameter ∅		Crosssection	approx. Weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	inch	cm²	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

* = coefficient of friction µ:0,5

approx. 80° Shore A

Recommended pretension 4...8 %

Coefficient of friction µ	
Steel	approx. 0,70
PE	approx. 0,40
HDPE	approx. 0,35

Brown on request

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
FBRI0200G	2,0	5/64	0,032	0,5	200	656	10	0,4	0,9	2,0
FBRI0300G	3,0	1/8	0,071	0,9	200	656	20	0,8	1,8	4,0
FBRI0400G	4,0	5/32	0,126	1,6	200	656	30	1,2	3,6	7,9
FBRI0480G	4,8	3/16	0,181	2,2	200	656	35	1,4	5,2	11,4
FBRI0500G	5,0	1/5	0,197	2,4	100	328	40	1,6	5,7	12,5
FBRI0600G	6,0	7/32	0,283	3,4	100	328	50	2,0	8,1	17,8
FBRI0630G	6,3	1/4	0,310	3,8	100	328	55	2,2	8,9	19,6
FBRI0700G	7,0	9/32	0,385	4,7	100	328	60	2,4	11,1	24,4
FBRI0800G	8,0	5/16	0,500	6,0	100	328	65	2,6	14,4	31,7
FBRI0950G	9,5	3/8	0,710	8,5	100	328	75	3,0	20,4	44,9
FBRI1000G	10,0	7/16	0,785	9,4	50	164	80	3,2	22,6	49,7

* = coefficient of friction µ:0,5

approx. 80° Shore A

Recommended pretension 3...6 %

Coefficient of friction µ

Steel	approx. 0,70
PE	approx. 0,40
HDPE	approx. 0,35

PU75A sky blue smooth hollow round belt

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

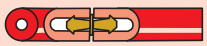
Coefficient of friction µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC/USDA compliant**

* = coefficient of friction µ:0,5

approx. 80° Shore A

Recommended pretension:
welded 4...8 %
Fitting connector max. 3...6 %

PU75A red smooth hollow round belt



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

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

* = coefficient of friction µ:0,5

approx. 80° Shore A

Recommended pretension:
welded 4...8 %
Fitting connector max. 3...6 %

For suitable fitting connectors and information how to use them please refer to page 62.

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

* = coefficient of friction µ:0,5

approx. 84° Shore A

Recommended pretension 4...8 %

Coefficient of friction µ	
Steel	approx. 0,65
PE	approx. 0,35
HDPE	approx. 0,30

FDA/EC/USDA compliant

PU80A ultramarine blue lightly 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

* = coefficient of friction µ:0,5

approx. 84° Shore A

Recommended pretension 4...8 %

Coefficient of friction µ	
Steel	approx. 0,55
PE	approx. 0,30
HDPE	approx. 0,25

FDA/EC compliant

PU80A SAFE capri 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
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

* = coefficient of friction µ:0,5

approx. 84° Shore A

Recommended pretension 3...6 %

Coefficient of friction µ	
Steel	approx. 0,65
PE	approx. 0,35
HDPE	approx. 0,30
FDA/EC/USDA compliant	

PU80A transparent 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
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

* = coefficient of friction µ:0,5

approx. 84° Shore A

Recommended pretension 4...8 %

Coefficient of friction µ	
Steel	approx. 0,65
PE	approx. 0,35
HDPE	approx. 0,30
FDA/EC/USDA compliant	

PU80A orange smooth

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	inch	cm^2	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
FBRP84A095	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

* = coefficient of friction µ:0,5

approx. 84° Shore A

Recommended pretension 4...8 %

Coefficient 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/ Riemen (Überlapp)	
	mm	inch	cm^2	kg/100 m	ft	(m)	mm	inch	kg	lbs	kg	lbs
FBRJ0600GA	6,0	7/32	0,283	3,4	100	30,48	55	2,2	9,0	19,8	18,9	41,6
FBRJ0630GA	6,3	1/4	0,310	3,8	100	30,48	60	2,4	10,1	22,1	21,2	46,5
FBRJ0700GA	7,0	9/32	0,385	4,7	100	30,48	65	2,6	12,4	27,3	25,4	55,9
FBRJ0800GA	8,0	5/16	0,500	6,0	100	30,48	80	3,2	16,1	35,3	33,8	74,3
FBRJ0950GA	9,5	3/8	0,710	8,5	100	30,48	90	3,6	22,7	49,9	47,7	104,9
FBRJ1000GA	10,0	7/16	0,785	9,4	100	30,48	100	4	25,3	55,6	53,1	116,8
FBRJ1200GA	12,0	15/32	1,130	13,5	100	30,48	110	4,4	36,4	80,0	76,5	168,3
FBRJ1250GA	12,5	1/2	1,230	14,8	100	30,48	115	4,6	39,4	86,6	82,8	182,2
FBRJ1430GA	14,3	9/16	1,605	21,0	100	30,48	130	5,2	49,4	108,8	104,0	228,7
FBRJ1900GA	19,0	3/4	2,83	31,0	100	30,48	170	6,8	91,0	200,1	191,3	420,8
FBRJ2000GA	20,0	25/32	3,14	40,0	100	30,48	190	7,6	100,6	221,3	211,5	465,3

* = coefficient of friction µ:0,5

approx. 84° Shore A

Recommended pretension 0,5...2 %

Coefficient 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	cm^2	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

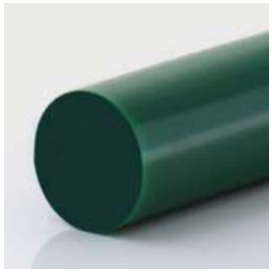
* = coefficient of friction µ:0,5

approx. 88° Shore A

Recommended pretension 4...8 %

Coefficient of friction µ	
Steel	approx. 0,60
PE	approx. 0,35
HDPE	approx. 0,30

FDA/EC/USDA compliant



PU85A green smooth

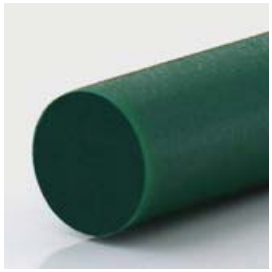
Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	inch	cm^2	kg/100 m	m	ft	mm	inch	kg	lbs
FBRP85A020	2,0	5/64	0,032	0,5	200	656	15	0,6	1,2	2,7
FBRP85A030	3,0	1/8	0,071	0,9	200	656	25	1	2,7	5,8
FBRP85A040	4,0	5/32	0,126	1,6	200	656	35	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

* = coefficient of friction µ:0,5

approx. 88° Shore A

Recommended pretension 4...8 %

Coefficient 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	cm^2	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

* = coefficient of friction µ:0,5

approx. 88° Shore A

Recommended pretension 4...8 %

Coefficient of friction µ

Steel	approx. 0,45
PE	approx. 0,30
HDPE	approx. 0,25

PU85A emerald green smooth, antistatic dissipative

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
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

* = coefficient of friction µ:0,5

approx. 88° Shore A

Recommended pretension 4...8 %

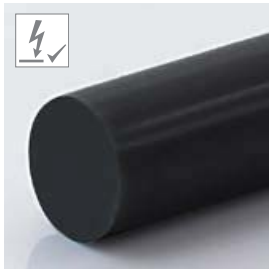
Conductivity approx. 10^9 Ω pro cm

ESD-suitable

Coefficient of friction µ

Steel	approx. 0,60
PE	approx. 0,35
HDPE	approx. 0,30

Belts for electrostatic discharge.



approx. 88° Shore A

Recommended pretension 3...6 %

Conductivity approx. 10^6 Ω pro cm

ESD-suitable

PU85A black smooth, antistatic conductive

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
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

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

* = coefficient of friction μ:0,5

Belts for electrostatic discharge.

approx. 88° Shore A

Recommended pretension 3...6 %

Coefficient of friction μ

Steel	approx. 0,45
PE	approx. 0,30
HDPE	approx. 0,25

PU85A PLUS blue rough

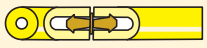
Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)*	
	mm	inch	cm^2	kg/100 m	m	ft	mm	inch	kg	lbs
FBRK020LR	2,0	5/64	0,032	0,5	200	656	15	0,6	1,3	2,9
FBRK030LR	3,0	1/8	0,071	0,9	200	656	25	1	3,0	6,6
FBRK040LR	4,0	5/32	0,126	1,6	200	656	35	1,4	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

* = coefficient of friction μ:0,5

approx. 88° Shore A

Recommended pretension:
welded 4...8 %
Fitting connector max. 3...6 %

PU85A yellow smooth hollow round belt

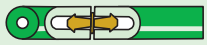


Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (Standard)*	
	Outside	Inside	cm^2	kg/100 m	m	ft	mm	inch	kg	lbs
FBHP85A048GE	4,8	1,8	0,147	1,8	200	656	35	1,4	5,3	11,7
FBHP85A063GE	6,3	2,5	0,261	3,2	100	328	55	2,2	9,4	20,6
FBHP85A080GE	8,0	3,2	0,420	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

Coefficient of friction μ: Steel: approx. 0,45 (rau), approx. 0,60 (glatt) | PE: approx. 0,35 | HDPE: approx. 0,30

* = coefficient of friction μ:0,5

PU85A green rough hollow round belt



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
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

approx. 88° Shore A

Recommended pretension:
welded 4...8 %
Fitting connector max. 3...6 %

Coefficient of friction μ: Steel: approx. 0,45 | PE: approx. 0,35 | HDPE: approx. 0,30 * = coefficient of friction μ:0,5

PU85A sapphire blue smooth hollow round belt

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
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

approx. 88° Shore A

Recommended pretension:
welded 4...8 %
Fitting connector max. 3...6 %

* = coefficient of friction μ:0,5

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

For suitable fitting connectors and information how to use them please refer to page 62.

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 %

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

* = coefficient of friction μ:0,5

PU85A ultramarine blue smooth, reinforced glass fiber PU

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
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

approx. 88° Shore A

Recommended pretension 0,5...2 %

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

* = coefficient of friction µ:0,5

PU85A ultramarine blue rough, reinforced glass fiber PU

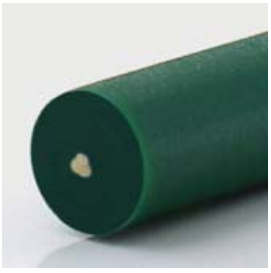
Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	inch	cm^2	kg/100 m	m	ft	mm	inch	kg	lbs
FBZRP85A080R	8,0	5/16	0,500	6,0	100	328	85	3,2	19,8	43,5
FBZRP85A095R	9,5	3/8	0,710	8,5	100	328	100	3,7	28,1	61,9
FBZRP85A100R	10,0	7/16	0,785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

approx. 88° Shore A

Recommended pretension 0,5...2 %

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

* = coefficient of friction µ:0,5



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	cm^2	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

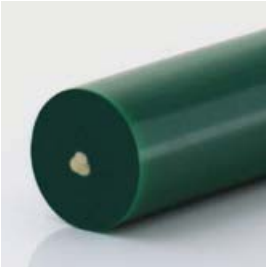
approx. 88° Shore A

Recommended pretension 0,5...2 %

Coefficient of friction µ

Steel	approx. 0,45
PE	approx. 0,30
HDPE	approx. 0,25

* = coefficient of friction µ:0,5



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

* = coefficient of friction μ:0,5

approx. 88° Shore A

Recommended pretension 0,5...2 %

Coefficient of friction μ

Steel	approx. 0,60
PE	approx. 0,35
HDPE	approx. 0,30

PU90A white 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
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

* = coefficient of friction μ:0,5

red on request

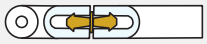
approx. 92° Shore A

Recommended pretension 3...5 %

Coefficient of friction μ

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

PU90A white smooth hollow round belts



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
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

approx. 92° Shore A

Recommended pretension:
welded 3...5 %
Fitting connector max. 2...4 %

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

* = coefficient of friction µ:0,5

For suitable fitting connectors and information how to use them please refer to page 62.

PU90A white 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
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	-	-	-	-

approx. 92° Shore A

Recommended pretension
0,5...2 %

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

* = coefficient of friction µ:0,5

Polyester TPE40D beige 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
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

* = coefficient of friction μ:0,5

Polyester TPE40D beige smooth with reinforcement on request

approx. 40° Shore D / 92° Shore A

Recommended pretension 2...4 %

Coefficient of friction μ	
Steel	approx. 0,50
PE	approx. 0,30
HDPE	approx. 0,25
FDA/EC/USDA compliant	

Polyester TPE55D beige 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
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

* = coefficient of friction μ:0,5

Further colours on request

approx. 55° Shore D / 100° Shore A

Recommended pretension 2...4 %

Coefficient of friction μ	
Steel	approx. 0,35
PE	approx. 0,20
HDPE	approx. 0,15
FDA/EC/USDA compliant	

55° Shore D · approx. 100° Shore A

Recommended pretension
0,5...2 %

Coefficient of friction µ	
Steel	approx. 0,35
PE	approx. 0,20
HDPE	approx. 0,15
FDA/EC/USDA compliant	

Polyester TPE55D beige smooth, reinforced polyester

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*		Fmax/belt (overlap)	
	mm	inch	cm^2	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	-	-	-	-

* = coefficient of friction µ:0,5

BEHAbelt Can Cables

BEHAbelt offers the appropriate can cable for you - no matter, whether you convey cans on short or very long conveyor sections, empty cans or filled cans, small or big cans.

Thanks to many years of experience in particular in this application range we are able to configure the optimum can cable for your case of application.

With our professional welding and joining technology problems of welding these products is a thing of the past.

approx. 95° Shore A

Recommended pretension
0,5...2 %

PU95A red smooth, reinforced aramid

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley∅**		Fmax/belt (Standard)*		Fmax/belt (overlap)	
	mm	inch	cm^2	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

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

*= coefficient of friction µ:0,5; **Overlap +30%

approx. 95° Shore A

Recommended pretension 0,5...2 %

PU95A red slightly rough, reinforced aramid

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley∅**		Fmax/belt (Standard)*		Fmax/belt (overlap)	
	mm	inch	cm^2	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

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

*= coefficient of friction µ:0,5; **Overlap +30%

55° Shore D · approx. 100° Shore A

Recommended pretension 0,5...2 %

Polyester 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	cm^2	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

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

*= coefficient of friction µ:0,5; **Overlap +30%

55° Shore D · approx. 100° Shore A

Recommended pretension max. 0,5 %

Polyester TPE55D beige smooth, reinforced steel

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley∅		Fmax/Riemen (CRIMP)* ★	
	mm	inch	cm^2	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

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

★ CRIMP Joining Set on page 92

* = coefficient of friction µ:0,5

CRIMP-CONNECTION for steel reinforced profiles

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

PU95A red smooth, reinforced steel

Order No.	Diameter ∅		Cross section	approx. weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (CRIMP)* ★	
	mm	inch	cm²	kg/100 m	ft	(m)	mm	inch	kg	lbs
FBRM095RG	9,5	3/8	0,71	8,5	500	152,4	380	15	225	495

approx. 95° Shore A

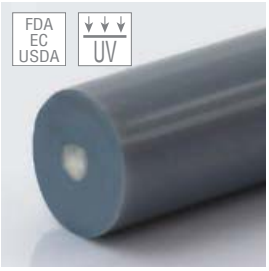
Recommended pretension 0,5...2 %

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

* = coefficient of friction μ:0,5

★ CRIMP Joining Set on page 92

Polyester 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

63° Shore D · approx. >100° Shore A

Recommended pretension 0,5...2 %

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

*= coefficient of friction μ:0,5; **Overlap +30%

Polyester 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

63° Shore D · approx. >100° Shore A

Recommended pretension 0,5...2 %

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

*= coefficient of friction μ:0,5; **Overlap +30%

Polyester 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 %

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

*= coefficient of friction μ:0,5; **Overlap +30%

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
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

approx. 80° Shore A

Recommended pretension 4...8 %

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

* = coefficient of friction μ:0,5

cogged design possible

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
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

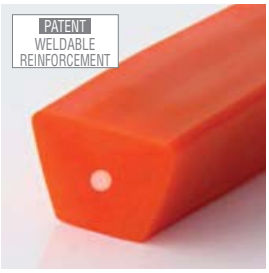
approx. 80° Shore A

Recommended pretension 4...8 %

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

* = coefficient of friction μ:0,5

cogged design possible



PU75A orange, 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
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 %

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

* = coefficient of friction μ:0,5

cogged design possible

PU75 A light grey, 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
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 %

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

* = coefficient of friction μ:0,5

cogged design possible

PU80A SAFE capri blue smooth

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
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 %

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

* = coefficient of friction μ:0,5

cogged design possible

PU80A transparent smooth

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
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 %

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

* = coefficient of friction μ:0,5

cogged design possible

PU80A orange smooth

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
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 %

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

* = coefficient of friction μ:0,5

cogged design possible

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	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	./.	./.

approx. 84° Shore A

Recommended pretension 0,5...2 %

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

* = coefficient of friction µ:0,5

cogged design possible

PU85A sapphire 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
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

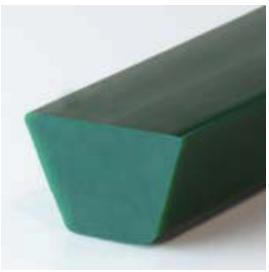
Recommended pretension 4...8 %

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

* = coefficient of friction µ:0,5

V-belt with reinforcement available on request

cogged design possible



PU85A green 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
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

approx. 88° Shore A

Recommended pretension 4...8 %

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

* = coefficient of friction µ:0,5

cogged design possible

PU85A PLUS blue matt

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

approx. 88° Shore A

Recommended pretension 3...6 %

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 * = coefficient of friction μ:0,5

cogged design possible

PU85A green, reinforced aramid

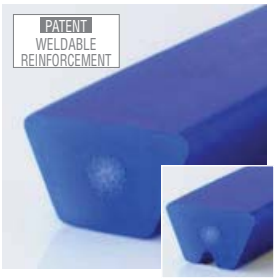
Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs	kg	lbs
FBZKP85A08A	8 x 5 (M)	0,32	4,0	100	328	60	2,4	11,6	25,6	25,7	56,4
FBZKP85A10A	10 x 6 (Z)	0,48	6,0	50	164	70	2,8	17,5	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
FBKK32DGGA	32 x 20 (D)	5,00	62,0	40	131	275	10,8	195,8	430,8	n/a	n/a

approx. 88° Shore A

Recommended pretension 0,5...2 %

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 * = coefficient of friction μ:0,5

cogged design possible



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	0,82	10,0	50	164	125	4,9	32,8	72,2
FBZKP85A17 (Nut)	17 x 11	1,46	18,0	50	164	180	7,1	55,4	122,0
FBZKP85A22 (Nut)	22 x 14	2,40	29,0	50	164	220	8,7	92,4	203,3

approx. 88° Shore A

Recommended pretension 0,5...2 %

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 * = coefficient of friction μ:0,5

PU90A white smooth

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
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 %

Coefficient of friction µ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25 * = coefficient of friction µ:0,5

cogged design possible

PU90A white, reinforced polyester

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

Coefficient of friction µ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25 * = coefficient of friction µ:0,5

PU90A white, reinforced polyester, with cogged bottom

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
FBZKP90A13PV	13 x 8	0,82	10,0	50	164	90	3,5	32,6	71,8
FBZKP90A17PV	17 x 11	1,46	18,0	50	164)	120	4,7	58,8	129,3
FBZKP90A22PV	22 x 14	2,40	29,0	50	164	175	7,0	97,9	215,4

approx. 92° Shore A

Recommended pretension 0,5...2 %

Coefficient of friction µ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25 * = coefficient of friction µ:0,5

approx. 95° Shore A

Recommended pretension 0,5...2 %

PU95A beige, 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
FBKM13ABGA	13 x 8	0,82	10,0	50	164	130	5,0	40,0	88,0	67,5	148,5
FBKM17BBGA	17 x 11	1,46	18,0	50	164	175	6,8	72,0	158,4	120,0	264,0
FBKM22CBGA	22 x 14	2,40	29,0	50	164	250	9,7	120,0	264,0	202,0	444,4

Coefficient of friction μ: Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20 * = coefficient of friction μ:0,5

approx. 95° Shore A

Recommended pretension 0,5...2 %

PU95A beige, 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
FBZKP95A13PV	13 x 8	0,82	10,0	50	164	100	3,9	34,0	74,8
FBZKP95A17PV	17 x 11	1,46	18,0	50	164	130	5,0	61,2	134,6
FBZKP95A22PV	22 x 14	2,40	29,0	50	164	190	7,4	102,0	224,4

Coefficient of friction μ: Steel: approx. 0,45 | PE: approx. 0,25 | HDPE: approx. 0,20 * = coefficient of friction μ:0,5

40° Shore D · approx. 95° Shore A

Recommended pretension 2...4 %

Polyester TPE40D beige 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
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

Coefficient of friction μ: Steel: approx. 0,50 | PE: approx. 0,25 | HDPE: approx. 0,20 | **FDA/EC/USDA compliant**

* = coefficient of friction μ:0,5

cogged design possible

55° Shore D · approx. 100° Shore A

Recommended pretension
2...4 %

Polyester TPE55D beige 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
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

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

* = coefficient of friction µ:0,5

cogged design possible

55° Shore D · approx. 100° Shore A

Recommended pretension
2...4 %

Polyester TPE55D 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
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

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

* = coefficient of friction µ:0,5

cogged design possible

55° Shore D · approx. 100° Shore A

Recommended pretension
0,5...2 %

Polyester TPE55D beige, 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
FBKH55D10P	10 x 6	0,48	6,0	50	164	110	4,4	48	105,6	70	154
FBKH55D13P	13 x 8	0,82	10,0	50	164	130	5,2	80	176	110	242
FBKH55D17P	17 x 11	1,46	18,0	50	164	180	7,2	146	321,2	180	396
FBKH55D22P	22 x 14	2,40	29,0	50	164	250	10	240	528	300	660

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

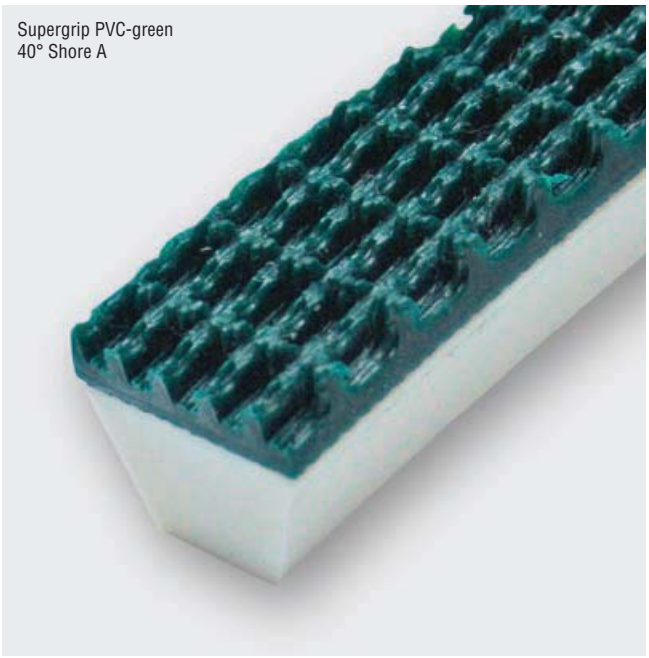
* = coefficient of friction µ:0,5

cogged design possible

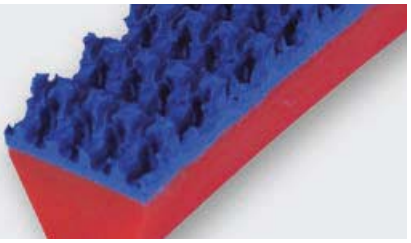
Top covers

PUtex (Alternative for Linatex)

Supergrip PVC-green
40° Shore A



Supergrip rubber blue
70° Shore A



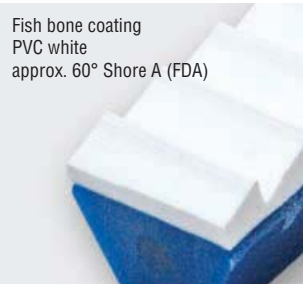
Supergrip PVC-white
40° Shore A (FDA)

Porol black
cell rubber

Linatex red
38° Shore A

Saw tooth coating
PVC white
approx. 60° Shore A (FDA)

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



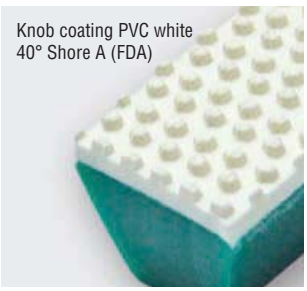
Brushed
V-belt
TPE55D

Sylomer L green
PU-foam

RP 400 rubber
35° Shore A

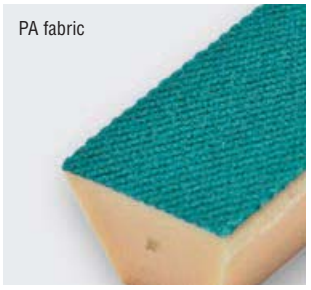
PU ribbed transparent
72° Shore A

Knob coating PVC white
40° Shore A (FDA)

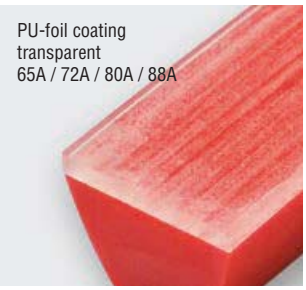


Slide-PU smooth
(Alternative for Teflon)

PA fabric



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



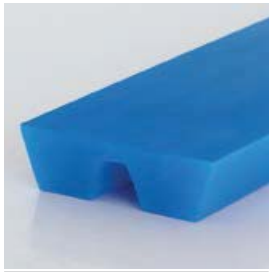
approx. 80° Shore A

Recommended pretension 3...6 %

PU75A red smooth

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
FBSP75A21X8	21 x 8	1,2	13,9	30	98,4	60	2,3	23,0	50,6

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 * = coefficient of friction μ:0,5



approx. 80° Shore A

Recommended pretension 3...6 %

PU75A sky blue smooth

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
FBSI30X8LG	30 x 8	1,9	22,4	50	164	60	2,3	45,5	100,1

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 * = coefficient of friction μ:0,5

approx. 84° Shore A

Recommended pretension 3...6 %

PU80A orange smooth

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
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

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

* = coefficient of friction μ:0,5

approx. 84° Shore A

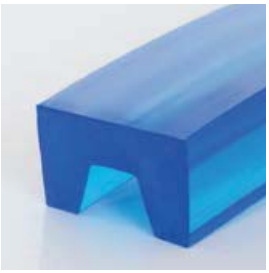
Recommended pretension 0,5...2 %

PU80A orange smooth, reinforced polyester

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
FBSJ21X8OGA	21 x 8	1,2	14,4	50	164	80	3,1	28,8	63,4
FBSJ30X8OGD	30 x 8	1,9	22,4	50	164	80	3,1	45,6	100,3

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

* = coefficient of friction μ:0,5



PU85A (15 x 10 mm) sapphire blue

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
FBSK15X10LG	15 x 10	1,2	14	100	30,48	100	3,9	41,0	90,2

approx. 88° Shore A

Recommended pretension 4...8 %

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

* = coefficient of friction µ:0,5

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 %

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

* = coefficient of friction µ:0,5

PU95A (12 x 8 mm) 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
FBSM12X8BG	12 x 8	0,67	7,9	50	164	120	4,7	32,7	71,9

approx. 95° Shore A

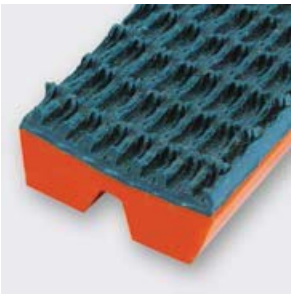
Recommended pretension 3...5 %

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

* = coefficient of friction µ:0,5

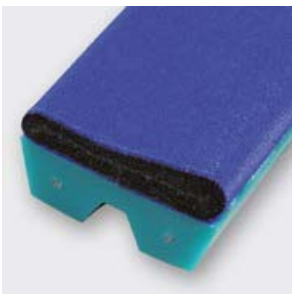
Coated Twin-V-belts

PVC Supergrip Coating



PU 75 A Twin-B-belt (24x6,8 mm) with PVC Supergrip coating.

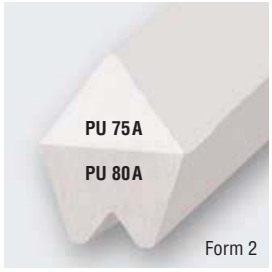
Neopren Coating



PU 85 A Twin-B-belt (30x8mm) with reinforced polyester and neoprene coating. Especially for PET bottle transport / guide.

Ridge-top-V-belts for the building materials and brick & tiles industry

High abrasion resistance for heavy and abrasive construction materials and different Shore hardness levels for variable conveyor sections. BEHAbelt belts are made of 100 % PU or TPE and have an excellent weldability.



2 compound extrusion | Form 2 with notch

2K, PU75A / PU80A

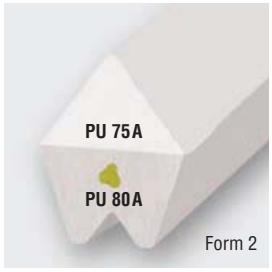
Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	cm^2	kg/100 m	m	ft	mm	inch	kg	lbs
FBSP85A17K2	17 x 19	2,0	24,4	30	98,4	160	6,4	48,0	105,6
FBSP85A22K2	22 x 25	3,5	42,3	30	98,4	200	8,0	84,0	184,8

approx. 80/84° Shore A

Recommended pretension: 3...6 %

* = coefficient of friction µ:0,5

Coefficient of friction µ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30



2 compound extrusion | Form 2 with notch

2K, PU75A / PU80A reinforced aramid

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
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 %

* = coefficient of friction µ:0,5

Coefficient of friction µ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

Form 2

PU80A transparent

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
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 %

* = coefficient of friction µ:0,5

Coefficient of friction µ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

Form 2

approx. 84° Shore A

PU80A transparent, reinforced polyester

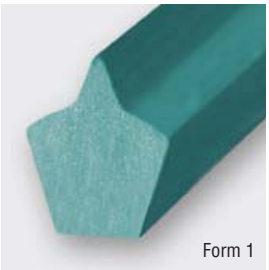
Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBBJ22X25TGA	22 x 25	3,65	43,8	30	98,4	210	8,4	87,6	192,7

Recommended pretension: 0,5...2 %

* = coefficient of friction μ:0,5

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

Form 1



approx. 88° Shore A

PU85A green

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

Recommended pretension: 3...6 %

* = coefficient of friction μ:0,5

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

Form 2

approx. 88° Shore A

PU85A green

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

Recommended pretension: 3...6 %

* = coefficient of friction μ:0,5

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

Form 2

approx. 88° Shore A

PU85A green, reinforced polyester

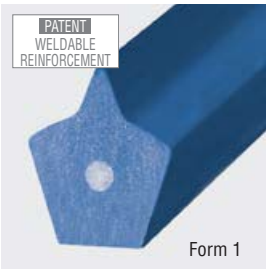
Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBBK17X19GGA	17 x 19	2,13	25,6	30	98,4	190	7,6	59,0	129,8
FBBK22X25GGA	22 x 25	3,65	43,8	30	(98,4)	240	9,6	100,7	221,6

Recommended pretension: 0,5...2 %

* = coefficient of friction μ:0,5

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

Form 1



approx. 88° Shore A

PU85A blue, reinforced glass fibre PU

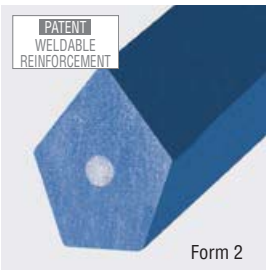
Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBZSP85A17ON	17 x 19	1,95	23,63	30	98,4	240	9,6	78,0	171,6
FBZSP85A22ON	22 x 25	3,26	39,1	30	98,4	280	11,2	130,4	286,9

Recommended pretension: 0,5...2 %

* = coefficient of friction µ:0,5

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

Form 2



approx. 88° Shore A

PU85A blau, reinforced glass fibre PU

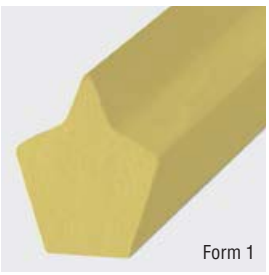
Order No.	Profile dimension	Cross section	approx. weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBBK17X19LGA	17 x 19	2,13	25,6	30	98,4	260	10,4	85,2	187,4
FBBK22X25LGA	22 x 25	3,65	43,8	30	98,4	300	12	146,0	321,2

Recommended pretension: 0,5 - 2 %

* = coefficient of friction µ:0,5

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

Form 1



approx. 95° Shore A

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

Recommended pretension: 3...5 %

* = coefficient of friction µ:0,5

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

Form 2

approx. 95° Shore A

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

Recommended pretension: 3...5 %

* = coefficient of friction µ:0,5

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

T-Profile PU70A ultramarine blue smooth (9 x 4 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
FBTH9X4GL	9 x 4	0,23	2,8	50	164	25	1,0	4,5	9,9

* = coefficient of friction μ:0,5

approx. 76° Shore A

Recommended pretension 4...8 %

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

T-Profile PU80A ultramarine blue smooth (9,5 x 3,5 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
FBTJ95X35L	9,5 x 3,5	0,2	2,4	30	98,4	30	1,2	5,2	11,4

* = coefficient of friction μ:0,5

approx. 84° Shore A

Recommended pretension 4...8 %

Coefficient 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)

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

* = coefficient of friction μ:0,5

approx. 88° Shore A

Recommended pretension 3...6 %

Coefficient 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)

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

* = coefficient of friction μ:0,5

approx. 84° Shore A

Recommended pretension 4...8 %

Coefficient 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

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
FBTJ12X5L	12 x 5	0,34	4,1	50	164	40	1,6	8,2	18,0
FBTJ15X5L	15 x 5	0,40	4,8	50	164	40	1,6	9,6	21,1

* = coefficient of friction μ:0,5

approx. 84° Shore A

Recommended pretension 4...8 %

Coefficient 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)

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

* = coefficient of friction μ:0,5

approx. 84° Shore A

Recommended pretension 3...6 %

Coefficient 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)

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

* = coefficient of friction μ:0,5

approx. 84° Shore A

Recommended pretension 3...6 %

Coefficient 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

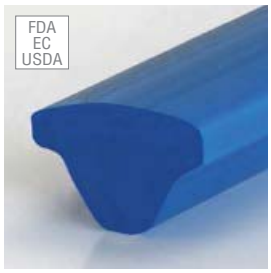
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBTJ192X55OG	19,2 x 5,5	0,65	7,8	30	98,4	40	1,6	15,6	34,3

* = coefficient of friction μ:0,5

approx. 84° Shore A

Recommended pretension 3...6 %

Coefficient 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)

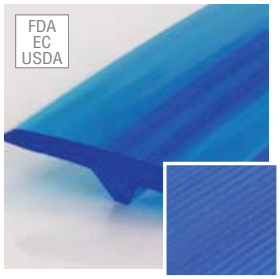
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBSP75A8X5HI	8 x 5	0,25	3,1	40	131	30	1,2	6,0	13,2

* = coefficient of friction μ:0,5

approx. 80° Shore A

Recommended pretension 4...8 %

Coefficient 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** (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 (gerillt)	25 x 5	0,59	7,3	30	98,4	50	2,0	15,2	33,4

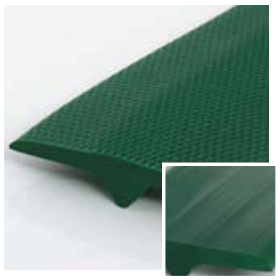
**

* = coefficient of friction μ:0,5

approx. 88° Shore A

Recommended pretension 3...6 %

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



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

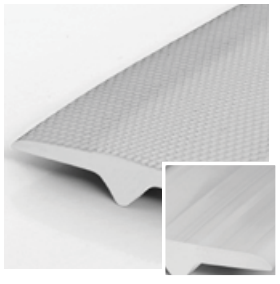
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	cm²	kg/100 m	m	ft	mm	inch	kg	lbs
FBTK25X5GW01 (gepr.)	25 x 5	0,58	7,0	50	164	50	2,0	16,0	35,2
FBSP85A25X5 (glatt)	25 x 5	0,58	7,0	50	164	50	2,0	16,0	35,2

approx. 88° Shore A

Recommended pretension 3...6 %

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

* = coefficient of friction μ:0,5



T-Profile PU85A white embossed / smooth (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
FBTK25X5WW01 (gepr.)	25 x 5	0,58	7,0	50	164	50	2,0	16,0	35,2
FBSP85A25X5A (glatt)	25 x 5	0,58	7,0	50	164	50	2,0	16,0	35,2

approx. 88° Shore A

Recommended pretension 3...6 %

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

* = coefficient of friction μ:0,5

T-Profile PU85A white (20 x 8 mm)

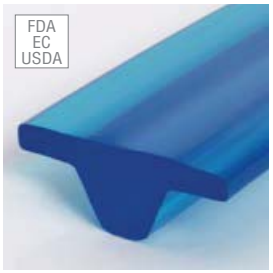
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley∅		Fmax/belt (Standard)*	
	mm	cm^2	kg/100 m	m	ft	mm	inch	kg	lbs
FBSP85A20X8W	20x8	0,83	10,0	30	98,4	100	4,0	21,4	47,1

* = coefficient of friction μ:0,5

approx. 88° Shore A

Recommended pretension 3...6 %

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



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

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
FBSP85A20X8	20x8	0,83	10,0	30	98,4	100	4,0	21,4	47,1

* = coefficient of friction μ:0,5

approx. 88° Shore A

Recommended pretension 3...6 %

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

PU75A ultramarine blue smooth with vaulted top

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
FBSP75A0865U	8 x 6,5 (M)	0,39	4,6	50	164	40	1,6	10,0	22,0

* = coefficient of friction μ:0,5

approx. 80° Shore A

Recommended pretension 4...8 %

Coefficient 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

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
FBSP80A0865U	8 x 6,5 (M)	0,39	4,6	50	164	50	2,0	11,0	24,2

* = coefficient of friction μ:0,5

approx. 84° Shore A

Recommended pretension 4...8 %

Coefficient 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

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
FBSP85A0865U	8 x 6,5 (M)	0,39	4,6	50	164	55	2,2	13,2	29,0

* = coefficient of friction μ:0,5

approx. 88° Shore A

Recommended pretension 4...8 %

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

approx. 84° Shore A

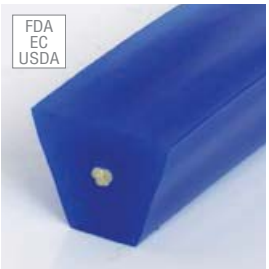
PU80A V-belt ultramarine blue (10 x 8 mm)

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
FBKJ10X8BGA	10 x 8	0,58	6,9	100	328	80	3,1	18,6	40,9

Recommended pretension: 3...6 %

* = coefficient of friction μ:0,5

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



approx. 88° Shore A

PU85A V-belt ultramarine blue (10 x 8 mm), 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
FBKK10X8LGA	10 x 8	0,58	6,9	50	164	85	3,3	19,9	43,8

Recommended pretension: 0,5...2 %

* = coefficient of friction μ:0,5

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

approx. 88° Shore A

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 %

* = coefficient of friction μ:0,5

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

approx. 88° Shore A

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 %

* = coefficient of friction μ:0,5

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

*

approx. 84° Shore A

Recommended pretension 3...6 %

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

* = coefficient of friction μ:0,5

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

approx. 84° Shore A

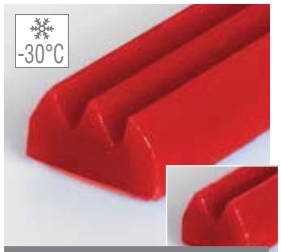
Recommended pretension 4...8 %

PU80A orange 3-ribbed

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
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

* = coefficient of friction μ:0,5

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



approx. 88° Shore A

Recommended pretension 3...6 %

PU75A, PJ2/PJ3, V-ribbed belt, red

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
FBPUIPJ2R	PJ2	4,8 x 4	0,16	1,96	200	656	30	1,2	6,3	13,9
FBPUIPJ3R	PJ3	7 x 4	0,24	2,93	200	656	30	1,2	9,1	20,0

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 * = coefficient of friction μ:0,5

approx. 88° Shore A

Recommended pretension 3...6 %

PU85A PLUS, PJ2/PJ3, V-ribbed belt, ultramarine blue

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

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 * = coefficient of friction μ:0,5

approx. 84° Shore A

Recommended pretension 3...6 %

PU80A Double V-belt black (17x13,5 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

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 * = coefficient of friction μ:0,5

approx. 88° Shore A

Recommended pretension 3...6 %

PU85A Double V-belt black (17x13,5 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
FBSK17X13SG	17 x 13,5	1,92	2,3	50	164	160	6,3	69,7	153,3

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 * = coefficient of friction μ:0,5

approx. 84° Shore A

Recommended pretension 0,5...2 %

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

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

* = coefficient of friction μ:0,5

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

approx. 88° Shore A

Recommended pretension 4...8 %

PU85A Rectangle Profile (22 x 8 mm) ultramarine blue

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
FBFK22X8LG	22 x 8	1,76	21	50	164	95	3,8	63,8	140,4

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

* = coefficient of friction μ:0,5

approx. 92° Shore A

Recommended pretension 0,5...2 %

PU90A T-V-belt red, reinforced aramid

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
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

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

* = coefficient of friction μ:0,5

cogged design possible

55° Shore D · approx. 100° Shore A

Recommended pretension 2...4 %

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

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
FBSR22X16BG	22 x 16	3,12	37	50	164	280	11,0	299,5	659,9

* = coefficient of friction μ:0,5

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

55° Shore D · approx. 100° Shore A

Recommended pretension
2...4 %

TPE55D bluepower smooth (roller conveyor)

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

* = coefficient of friction μ:0,5

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

55° Shore D · approx. 100° Shore A

Recommended pretension
0,5...2 %

TPE55D bluepower 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
FBKBLP1711W3	17 x 11,3	1,49	18,0	100	328	180	7,1	119,2	262,2	150,0	330,0

* = coefficient of friction μ:0,5

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

55° Shore D · approx. 100° Shore A

Recommended pretension
2...4 %

TPE55D beige smooth with chamfer (roller conveyor)

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

* = coefficient of friction μ:0,5

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

55° Shore D · approx. 100° Shore A

Recommended pretension
0,5...2 %

TPE55D beige smooth with chamfer, 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
FBKS17115BGA	17 x 11,4	1,45	18,0	100	328	180	7,1	116,0	255,2	150,0	330,0

* = coefficient of friction μ:0,5

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

CUSTOM-MADE PROFILES

If a standard profile is no longer sufficient for the demands of your application, then BEHAbelt offers you the unique option of developing a customised product.

According to your specifications and your design!

Your custom-made profile

BEHAbelt offers you fast and exclusive realisation of your desired profile or conveyor belt!

Ask our customer support (page 5) for your personal offer.

Tell us more about your application!

FAST REALISATION (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
- Optimisation of your application through the perfect profile
- Improved service life and functionality
- Appropriate welding technology

NOTE

For special profiles there is always a minimum order quantity and possibly tooling costs required.

Our in-house tool manufacturing

Our responsible project management

Our manufacturing expertise

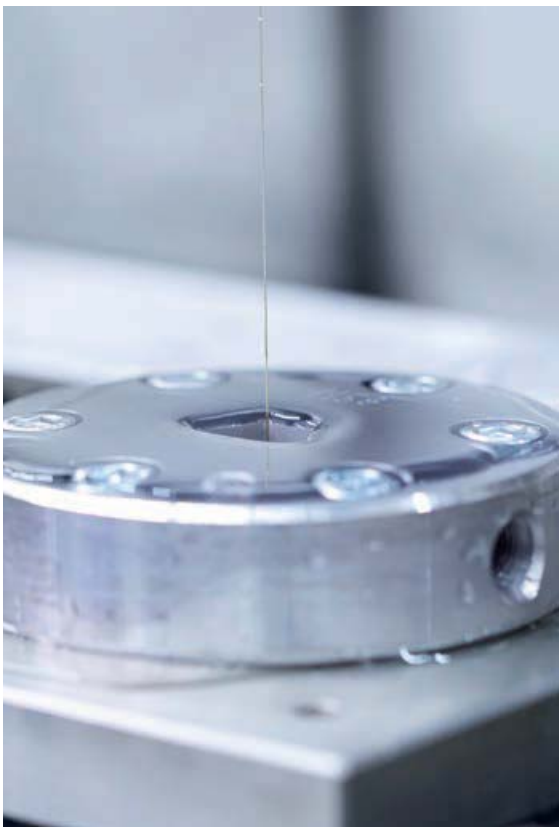
YOUR IDEA

Our product quality

Our strong cooperation with suppliers and universities

Our technical support

Thanks to our in-house tool manufacturing shop with state-of-the-art equipment, we are able to produce custom profiles for you with extremely short lead times in order to meet your needs.



Technical inquiry

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 / belt length	
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**

FABRICATION/ENDLESS BELTS

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 105

Versatile

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

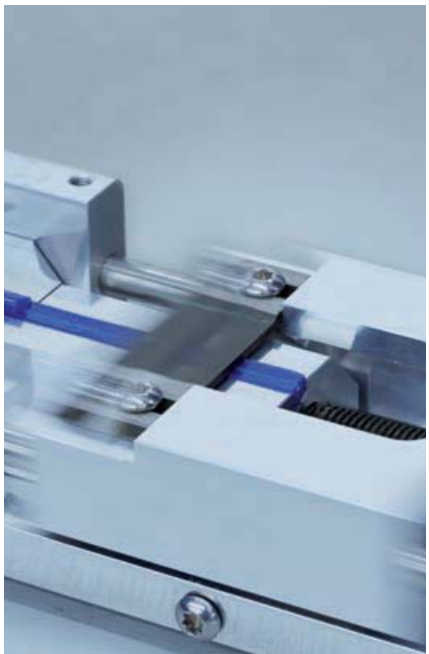
Welding of all belt geometries and coated belts!

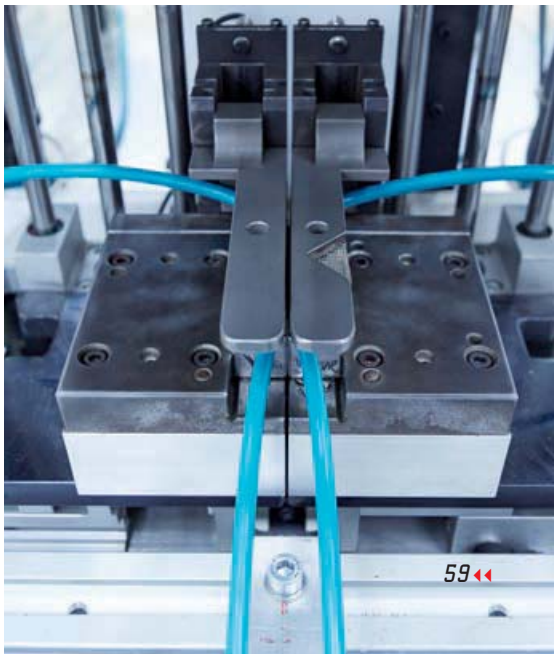
Flexible

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 - we optimized machine set-up times and lead times.

Automated

An automated welding process ensures consistent quality.

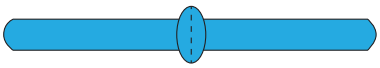




Connection methods: Profiles

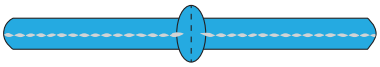
Regardless of whether you are using unreinforced belts or reinforced belts, we distinguish the following connection methods: butt and overlap welding.

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.



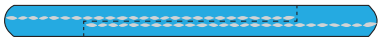
Butt welding without reinforcement

(Standard)



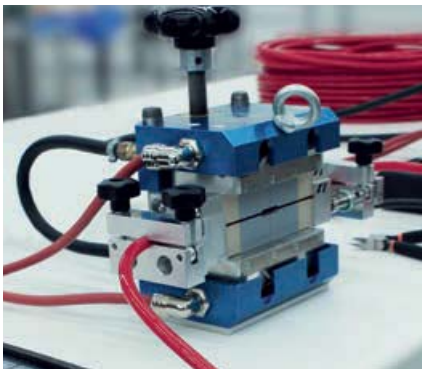
Butt weldding with reinforcement

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

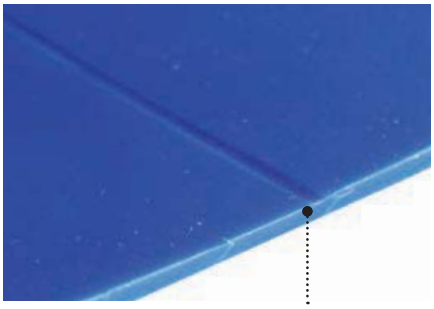


Overlap welding with reinforcement

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

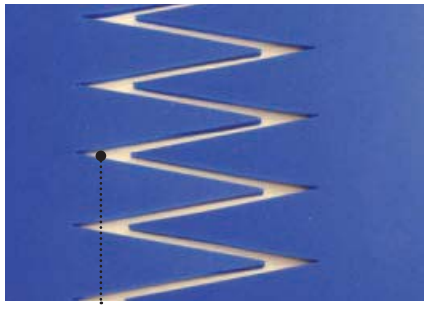


Connection methods: elastic conveyor belts



„Butt welding hot paddle“ (preferred standard)

Welding by means of electrodes for mobile use



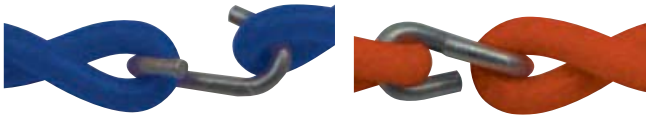
„Finger-joint hot press“ (option)

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).



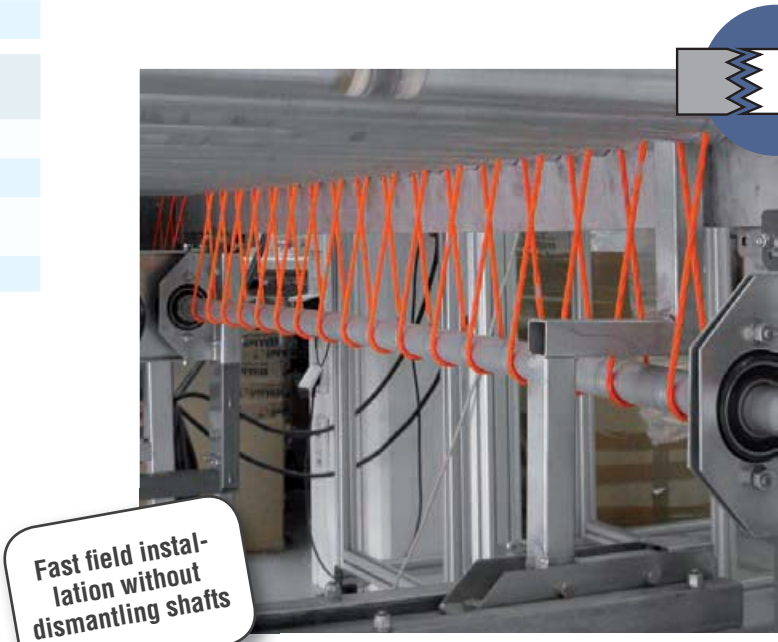
Construction: 2 x ∅ 3 mm (∅ 5 mm)

Product	PU 70 A	PU 75 A PLUS
Shore	76 A	80 A
Colour	sky blue	orange
FDA/EC	yes, smooth	no, smooth (matt)
CoF (Steel) - µ	approx. 0,75	approx. 0,70
Pretension	8-10%	6-8%

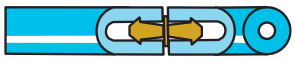
Diameter	Pulley diameter	Fmax/ belt*		Pulley diameter	Fmax/ belt*	
mm	mm	daN	lbs	mm	daN	lbs
∅ 5,0	40	2,6	5,8	40	5,9	13,0
Order No.: FBXH3X250LG…FBXH3X450LG				Order No.: FBXI3X2500G…FBXI3X4500G		
Available standard lengths of 250-710 mm						

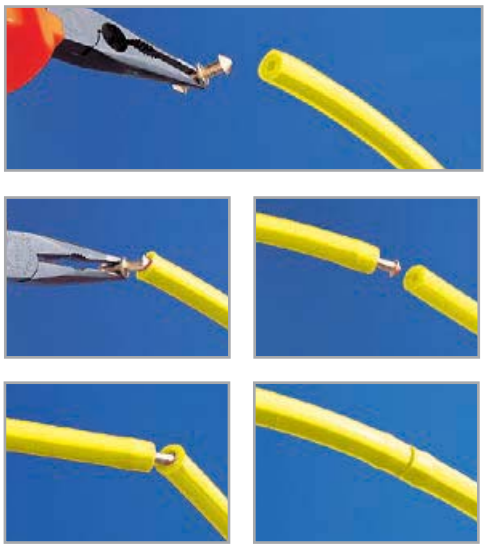
* = coefficient of friction µ:0,5

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



Fast field installation without dismantling shafts





Fitting connectors for hollow round belts

Fitting connectors for quick repairs

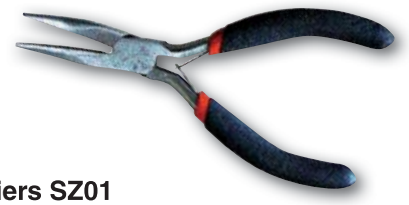
Hollow round belts should be welded just like solid belts. In the case of a breakdown, fitting connectors can be used for a quick repair, until the belt can be welded once again. Another advantage is the flexibility of the belt for small pulley diameters. The hollow round belts can be connected via metal connectors, as shown in the picture.
Hollow rounds belts with connectors can also be used in many applications when the belts are not subject to heavy loads or high speeds. In these cases this type of joining represents a good alternative to the welded joint (Make sure that the minimum pulley diameter and the pulley form are correct.) When applying the metal nipple, special care has to be taken not to damage the belt with the sharp metal edges. This would reduce the tensile strength of the joint. Therefore we recommend the use of pointed pliers.

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

Order No.	For hollow round belts (outer-∅)	
	mm	inch
FBN048	4,8	3/16
FBN063	6,3	1/4
FBN080N	8,0	5/16
FBN095	9,5	3/8
FBN0125	12,5	1/2
FBN0150	15,0	19/32

Brass fitting

Pliers for fitting connectors



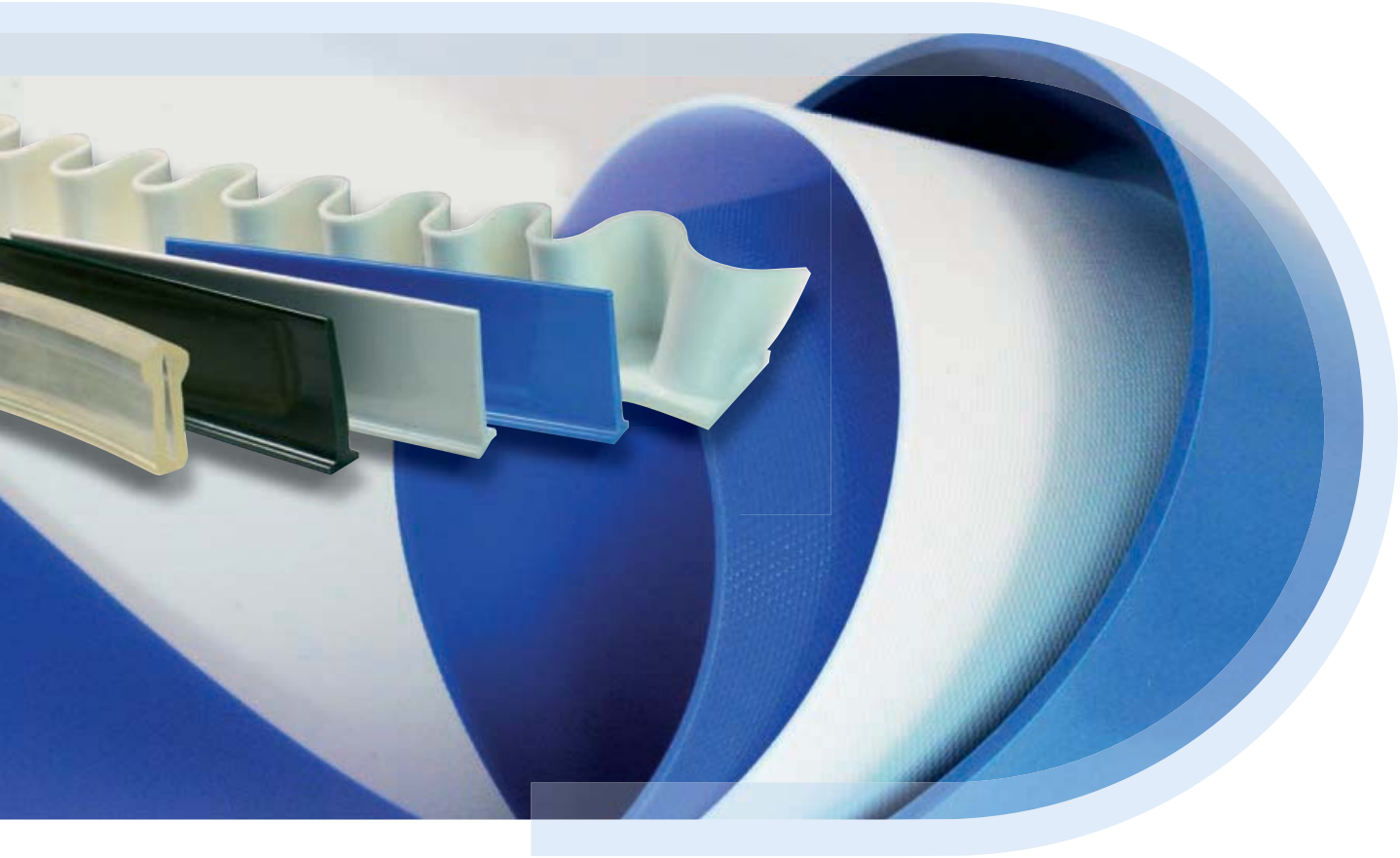
Pliers SZ01

Pliers SZ01 for inserting fasteners in hollow round belts.

Description	Order No.
Pliers SZ01	**FBWSZ01**

ELASTIC CONVEYOR BELTS & TRACKING PROFILES

Elastic monolithic conveyor belts
and accessories for belt finishing



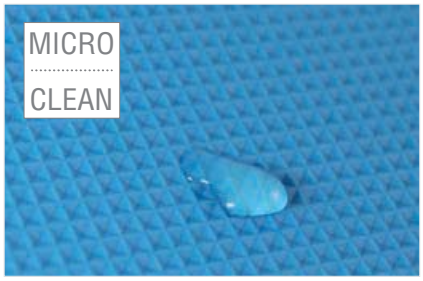
BEHAbelt offers the following products in the conveyor belts product range:

- **Elastic monolithic conveyor belts**
  Hygiene and support of your HACCP policy
- **V-guides**
  Weldability on PU and PVC belts
  Flexible thanks to cogged **and** uncogged design
- **Cleats**
  Weldability on PU **and** PVC belts
- **Sidewalls**
  Small pulley diameter,
  weldability on PU **and** PVC belts
- **Belt edges**
  High flexibility and low abrasion
- **Coatings**
  Optimum grip properties and excellent weldability

Main areas of application

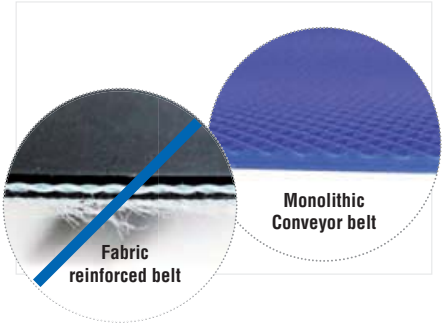
- Food industry
- Pharmaceutical industry
- Packaging industry
- Check weighers

All advantages of elastic BEHAbelt conveyor belts at a glance



Cleanliness

Our belts for the food industry are very hygienic due to their non-porous surfaces. In particular the BEHAbelt MICROclean surface allows a better and faster cleaning of the belt surface due to the special surface design, which can only be seen with a magnifying glass, as well as a better or easier detachment of the transported products, especially when the product is handed over to the next transport section.

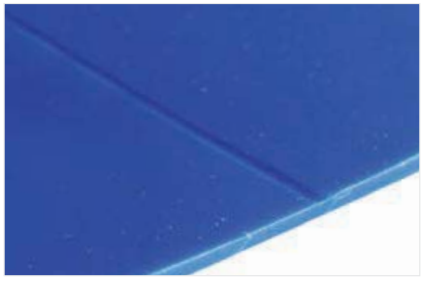


FDA/EC-compliant

BEHAbelt conveyor belts can be used throughout the entire food industry – for transport as well as in the processing area. Our food industry belts comply with the requirements of the applicable international standards regarding direct contact of food with plastics (FDA/EC). Monolithic conveyor belts bring down the contamination risk caused by microbial growth when compared to fabric-reinforced belt designs thus offering the appropriate solution for your HACCP strategy.

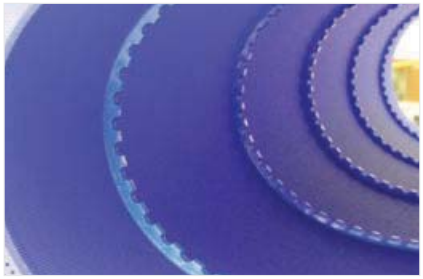
Durability, cut and abrasion resistance

Fabric inserts are redundant with monolithic PU/TPE belts. This eliminates the risk of the fabric taking up liquids. In the most unfavourable case this will cause the layers to separate and lead to premature failure of the belt. We only use high-quality raw materials for manufacturing our conveyor belts. These materials are characterised by excellent resistance against hydrolytic degradation and many other chemical contact media.



Easy installation

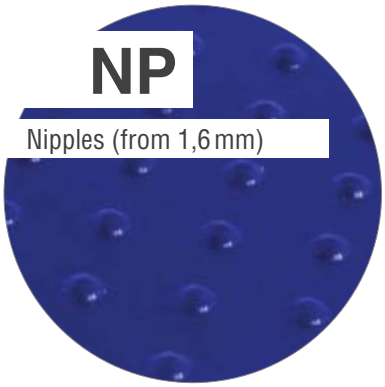
Installation is very easy. Your belt can be easily welded to the conveyor system by using a welding paddle device or a hot-air welding unit (electrode) on site for butt welding.
For most conveyor belt widths one technician is sufficient to safely operate the tools. In the workshop area you can also use hot presses if necessary.



Individuality/welded-on products

The elasticity of BEHAbelt conveyor belts enables you to easily cut the belts to the desired width. BEHAbelt conveyor belts can be easily supplemented with our accessories such as corrugated sidewalls, cleats, V-guides and other weld-on profiles and provide robust and long-lasting connections due to their excellent weldability.

Top side



Bottom side

Coefficient of friction μ for belt surfaces on steel

Quality	smooth gloss (SG)	smooth matt (SM)	fabric impression (FI)	inverted diamond (ID)	slightly rough (SR)
PU 65 A	0,85	0,80	0,70	0,65	0,70
PU 75 A	0,70	0,65	0,55	0,50	0,55
PU 80 A	0,65	0,60	0,50	0,45	0,50
PU 95 A	0,45	0,40	0,30	0,25	0,30
TPE 55 D	0,35	0,30	0,25	0,20	n/a

UV-C RESISTANCE

In the food industry belt surfaces are, in addition to physicochemical cleaning even at continued process, also exposed to UV-C radiation to reduce nucleation on the belt surfaces. If no protection is used, this kind of radiation causes embrittlement and discolouration of the belt surface or even the products conveyed get stained by the belt. By admixture of such UV-C protection agent in our belt qualities, we guarantee the long service life and safe use in such conditions. Please do not hesitate to let us have your inquiry for checking whether your belt can be equipped with such UV-C resistance.

ANTISTATIC CONVEYOR BELTS

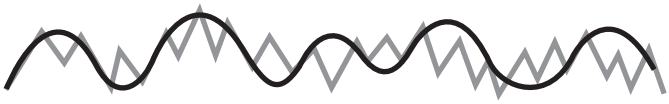
Belts with antistatic dissipative properties are also required in the food industry for particularly sensitive process sections with electronic measuring and control units such as check weighers (online weighing processes) to rule out disturbances or measurement errors. Please do not hesitate to let us have your inquiry for checking whether your belt can be equipped with such antistatic dissipative features to protect your machine in the best possible way.

MICRO*clean* BELT SURFACE

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.



Belt surface smooth gloss (SG)

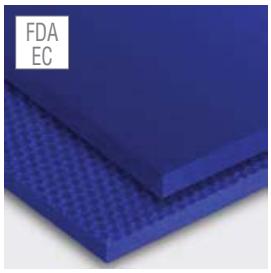
Belt surface MICRO*clean* smooth matt (SM)

The graphic representation illustrates the functional principle of the 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).

HIGHLIGHTS

- Optimum release properties despite the smooth belt surface
- Best cleanability thanks to the rounded-off belt structure
- Efficient use of belt scrapers is possible
- Option of conveying in accumulation mode due to the low coefficient of friction



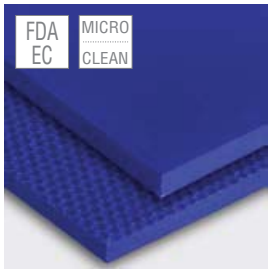
PU65A ultramarine blue smooth gloss (SG) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFG750X20LA	2,0	5/64	12	0,50	1,8	50	164	0,16	0,90

approx. 72° Shore A

FDA/EC compliant (Limited suitability EC)

* band width 750 mm with calendered belt edge



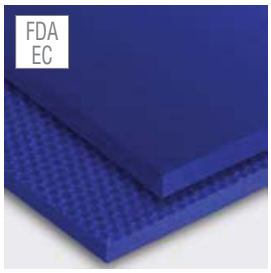
PU75A ultramarine blue smooth matt (SM) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFI750X10LA	1,0	2/50	10	0,40	0,90	50	164	0,15	0,85
FBFI750X16LA	1,6	1/16	15	0,60	1,40	50	164	0,24	1,30
FBFI750X20LA	2,0	5/64	20	0,80	1,80	50	164	0,30	1,70
FBFI750X30LA	3,0	1/8	30	1,20	2,70	50	164	0,45	2,50

approx. 80° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge



PU75A ultramarine blue smooth gloss (SG) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFI750X16LB	1,6	1/16	15	0,60	1,40	50	164	0,24	1,30
FBFI750X20LB	2,0	5/64	20	0,80	1,80	50	164	0,30	1,70

approx. 80° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge

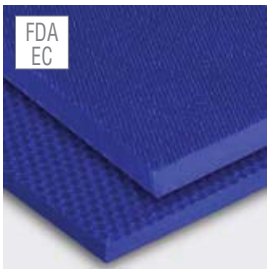
PU75A white smooth matt (SM) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFI750X10WA	1,0	2/50	10	0,40	0,90	50	164	0,15	0,85
FBFI750X20WA	2,0	5/64	20	0,80	1,80	50	164	0,30	1,70

approx. 80° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge



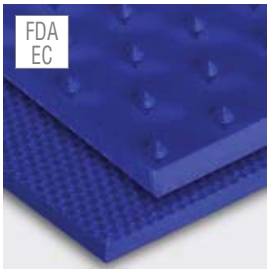
PU80A ultramarine blue slightly rough (SR) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFJ750X12L	1,2	3/64	10	0,4	1,0	50	164	0,25	1,2
FBFJ750X16L	1,6	1/16	15	0,6	1,4	50	164	0,32	1,8
FBFJ750X20L	2,0	5/64	20	0,8	1,8	50	164	0,40	2,25

approx. 84° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge



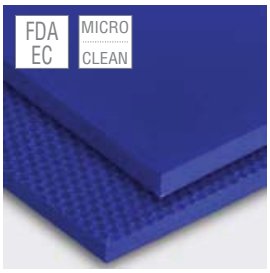
PU80A ultramarine blue Spike (SP) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFJ750X2LG	2,0	5/64	25	1,0	2,0	50	164	0,4	2,25
FBFJ750X3LG	3,0	1/8	35	1,4	2,9	50	164	0,6	3,35

approx. 84° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge



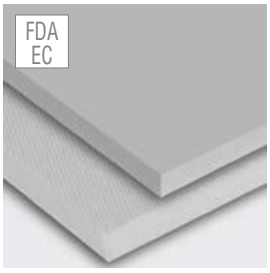
PU80A ultramarine blue smooth matt (SM) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFJ750X10LD	1,0	2/50	10	0,40	0,9	50	164	0,20	1,10
FBFJ750X16LD	1,6	1/16	15	0,60	1,4	50	164	0,32	1,80
FBFJ750X20LD	2,0	5/64	20	0,80	1,8	50	164	0,40	2,25

approx. 84° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge



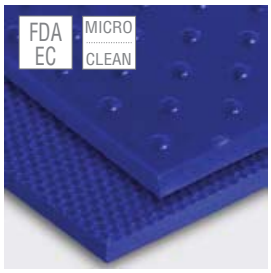
PU80A transparent smooth gloss (SG) / slightly rough (SR)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFJ750X16T	1,6	1/16	15	0,60	1,40	50	164	0,32	1,80

approx. 84° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge



PU80A ultramarine blue nipples (NP) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFJ750X16LF	1,6	1/16	15	0,60	1,35	50	164	0,32	1,80
FBFJ750X20LF	2,0	5/64	20	0,80	1,35	50	164	0,40	2,25

approx. 84° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge

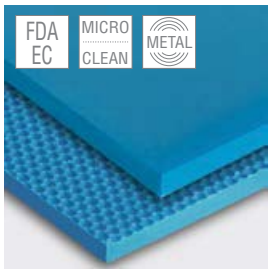
PU80A ultramarine blue inverted diamond (ID) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFJ750X2LB	2,0	5/64	20	0,80	1,70	50	164	0,40	2,25

approx. 84° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge



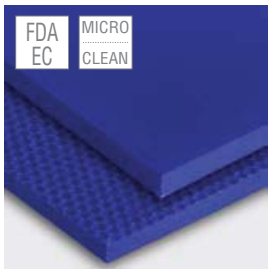
PU80A capri blue smooth matt (SM) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFJ750X16LE	1,6	1/16	15	0,60	1,70	50	164	0,29	1,60
FBFJ750X20LE	2,0	5/64	20	0,80	2,20	50	164	0,36	2,00
FBFJ750X30LE	3,0	1/8	30	1,20	3,30	50	164	0,54	3,0

approx. 84° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge



PU95A ultramarine blue smooth matt (SM) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFL750X16LA	1,6	1/16	25	1,00	1,4	50	164	0,8	4,5
FBFL750X20LA	2,0	5/64	35	1,40	1,8	50	164	1,0	5,6
FBFL750X30LA	3,0	1/8	50	2,00	2,7	50	164	1,5	8,4
FBFL750X40LA	4,0	5/32	75	3,00	3,6	50	164	2,0	11,2

approx. 95° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge

PU95A ultramarine blue inverted diamond (ID) / smooth gloss (SG)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFM750X2LC	2,0	5/64	35	1,40	1,80	50	164	1,00	5,60
FBFM750X3LC	3,0	1/8	50	2,00	2,70	50	164	1,50	8,40

approx. 95° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge

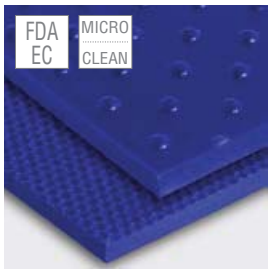
PU95A sky blue inverted diamond (ID) / smooth gloss (SG)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFM750X2LD	2,0	5/64	35	1,40	1,80	50	164	1,00	5,60
FBFM750X3LD	3,0	1/8	50	2,00	2,70	50	164	1,50	8,40

approx. 95° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge



PU95A ultramarine blue nipples (NP) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFM750X20LB	2,0	5/64	40	1,6	2,0	50	164	0,4	2,25

approx. 95° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge

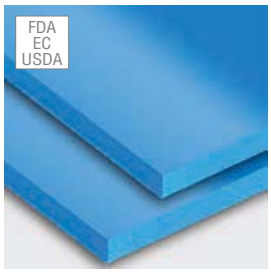
PU95A ultramarine blue smooth gloss (SG) / smooth gloss (SG)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFL750X20LC	2,0	5/64	35	1,40	1,80	50	164	1,0	5,6
FBFL750X30LC	3,0	1/8	50	2,00	2,70	50	164	1,5	8,4
FBFL750X40LC	4,0	5/32	75	3,00	3,60	30	100	2,0	11,2

approx. 95° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge



PU95A sky blue smooth gloss (SG) / smooth gloss (SG)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFL750X20LG	2,0	5/64	35	1,4	1,8	50	164	1,0	5,6
FBFL750X30LG	3,0	1/8	50	2,0	2,7	50	164	1,5	8,4
FBFL750X40LG	4,0	5/32	75	3,0	3,6	30	100	2,0	11,2

approx. 95° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge

PU95A white smooth matt (SM) / fabric impression (FI)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFL750X16WA	1,6	1/16	25	1,0	1,4	50	164	0,8	4,5
FBFL750X20WA	2,0	5/64	35	1,4	1,8	50	164	1,0	5,6
FBFL750X30WA	3,0	1/8	50	2,0	2,7	50	164	1,5	8,4

approx. 95° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge

TPE55D ultramarine blue inverted diamond (ID) / smooth gloss (SG)

Order No.	Profile thickness		Recommended Min. pulley ∅		Weight* per Meter	Standard Roll		Pull force for k1% pretension	
	mm	inch	mm	inch	approx. kg	m	(ft)	kg/cm	lbs/inch
FBFS750X20L	2,0	5/64	65	2,6	1,8	50	164	1,5	8,4

55° Shore D · approx. 100° Shore A

FDA/EC compliant

* band width 750 mm with calendered belt edge

PU/TPE-Electrodes for flat belt welding

Welding electrodes made of PU or TPE (6x6 mm) for belt thicknesses of 2...4 mm for connecting with a hot air gun.

Description	Order No.
Hot air gun with welding attachment	**on request**
Welding electrode (PU95A) 6x6 mm	**FBSEM6X6...**
Welding electrode (TPE55D) 6x6 mm	**FBSES6X6...**

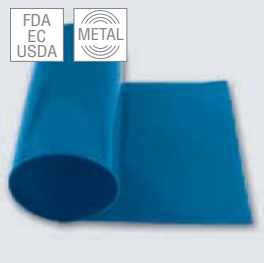
PU75A sky blue smooth

Order No.	Profile thickness		max. Profile width		approx. weight*	Standard Roll		Recommended Min. pulley ∅		Pull force for pretension of 1%	
	mm	inch	mm	inch	kg/100m	m	(ft)	mm	inch	kg/cm	lbs/inch
FBFI150X1LG	1,0	3/64	140	5,5	18,0	50	(164)	10,0	0,4	0,15	0,85
FBFI150X16LG	1,6	1/16	140	5,5	28,8	50	(164)	15,0	0,6	0,24	1,3
FBFI150X2LG	2,0	5/64	140	5,5	36,0	50	(164)	20,0	0,8	0,30	1,7
FBFI150X3LG	3,0	1/8	140	5,5	54,0	50	(164)	25,0	1	0,45	2,5
FBFI150X4LG	4,0	5/32	140	5,5	72,0	50	(164)	35,0	1,4	0,60	3,4

approx. 80° Shore A

Recommended pretension 2...5 %

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



PU80A SAFE capri blue smooth

Order No.	Profile thickness		max. Profile width		approx. weight*	Standard Roll		Recommended Min. pulley ∅		Pull force for pretension of 1%	
	mm	inch	mm	inch	kg/100m	m	(ft)	mm	inch	kg/cm	lbs/inch
FBFJ150X2LGM	2,0	5/64	140	5,5	43,2	50	164	20	0,8	0,36	2,0
FBFJ150X3LGM	3,0	1/8	140	5,5	64,8	50	164	30	1,2	0,54	3,0

approx. 84° Shore A

Recommended pretension 2...5 %

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC/USDA compliant**

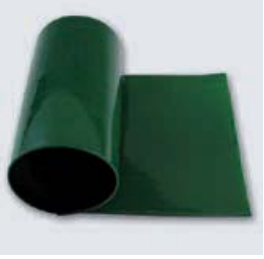
PU80A orange smooth

Order No.	Profile thickness		max. Profile width		approx. weight	Standard Roll		Recommended Min. pulley ∅		Pull force for pretension of 1%	
	mm	inch	mm	inch	kg/Gebinde	ft	(m)	mm	inch	kg/cm	lbs/inch
FBFJ150X16OG	1,6	1/16	140	5,5	28,8	100	(30,48)	15	0,6	0,32	1,8
FBFJ150X24OG	2,4	3/32	140	5,5	42,0	100	(30,48)	25	1,0	0,48	2,7
FBFJ150X32OG	3,2	1/8	140	5,5	56,0	100	(30,48)	30	1,2	0,64	3,6

approx. 84° Shore A

Recommended pretension 2...5 %

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,3 | **FDA/EC/USDA compliant**



PU85A green smooth

Order No.	Profile thickness		max. Profile width		approx. weight*	Standard Roll		Recommended Min. pulley ∅		Pull force for pretension of 1%	
	mm	inch	mm	inch	kg/100m	m	(ft)	mm	inch	kg/cm	lbs/inch
FBFK150X1GG	1,0	3/64	140	5,5	18,0	50	(164)	15,0	0,6	0,23	1,3
FBFK150X16GG	1,6	1/16	140	5,5	28,8	50	(164)	20,0	0,8	0,37	2,1
FBFK150X2GG	2,0	5/64	140	5,5	36,0	50	(164)	30,0	1,2	0,46	2,6
FBFK150X3GG	3,0	1/8	140	5,5	54,0	50	(164)	35,0	1,4	0,69	3,9
FBFK150X4GG	4,0	5/32	140	5,5	72,0	50	(164)	45,0	1,8	0,92	5,2

approx. 88° Shore A

Recommended pretension 2...5 %

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

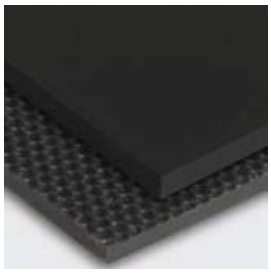
Industrial belts 700 mm

Aprons as cut protection

BEHAbelt industrial belts

From now on a special PU belt product line of black design is available for using belts in the most diverse industrial fields for impact protection, aprons, cushioning, covering, etc.

The surface comes with smooth and matt design on one side and a fine structure on the other, thus allowing for versatile application of the belts.



PU80A and PU95A

black smooth matt / fabric impression

Quality	color	Shore hardness	Profile thickness		Weight* per Meter	Standard Roll	
			mm	inch	approx. kg	m	(ft)
PU80A	black	84 A	2,0	5/64	1,60	30	100
			3,0	1/8	2,50	30	100
			4,0	5/32	3,30	30	100
			6,0	7/32	5,00	30	100
			8,0	5/16	6,70	30	100
PU95A	black	95 A	2,0	5/64	1,60	30	100
			3,0	1/8	2,50	30	100
			4,0	5/32	3,30	30	100
			6,0	7/32	5,00	30	100
			8,0	5/16	6,70	30	100

* Band width 700 mm

Impact protection

Pellet stock

Garden shredders

BEHAbelt Coatings

We offer a variety of transparent polyurethane coatings with outstanding welding characteristics. In addition, a lot of coatings are FDA / EC compliant thus offering a wide range of applications.

A particular highlight is the PUtex & PUtex soft material. Similar to a rubber coating but fully weldable it offers excellent properties against delamination of the coating.

BEHAbelt PUtex is the perfect alternative of rubber.

approx. 45° Shore A

PU40A PUgrip transparent

Order No.	Profile thickness		max. Profile width		approx. weight*	Standard Roll		Impact on min. pulley ∅	
	mm	inch	mm	inch	kg/100m	m	(ft)	mm	inch
FBFD140X2TG	2,0	5/64	140	5,5	31,5	50	164	+10	0,4
FBFD140X3TG	3,0	1/8	140	5,5	47,3	50	164	+15	0,6
FBFD140X4TG	4,0	5/32	140	5,5	63,0	50	164	+20	0,8

Coefficient of friction µ: Steel: approx. 1,30 | PE: approx. 1,0 | HDPE: approx. 0,90 * Band width 140 mm

approx. 55° Shore A

PU50A PUtex soft red

Order No.	Profile thickness		max. Profile width		approx. weight*	Standard Roll		Impact on min. pulley ∅	
	mm	inch	mm	inch	kg/100m	m	(ft)	mm	inch
FBFE140X2RM	2,0	5/64	140	5,5	31,5	50	164	+15	0,6
FBFE140X3RM	3,0	1/8	140	5,5	47,3	50	164	+20	0,8
FBFE140X3RM	4,0	5/32	140	5,5	63,0	50	164	+30	1,2

Coefficient of friction µ: Steel: approx. 1,0 | PE: approx. 0,70 | HDPE: approx. 0,65 * Band width 140 mm

approx. 65° Shore A

PU60A PUtex red

Order No.	Profile thickness		max. Profile width		approx. weight*	Standard Roll		Impact on min. pulley ∅	
	mm	inch	mm	inch	kg/100m	m	(ft)	mm	inch
FBFF150X2BM	2,0	5/64	140	5,5	31,5	50	(164)	+ 20,0	+ 0,8
FBFF150X3BM	3,0	1/8	140	5,5	47,3	50	(164)	+ 30,0	+ 1,2
FBFF150X4BM	4,0	5/32	140	5,5	63,0	50	(164)	+ 40,0	+ 1,6

Coefficient of friction µ: Steel: approx. 0,90 | PE: approx. 0,55 | HDPE: approx. 0,50 | **FDA/EC compliant** (Limited suitability EC) * Band width 140 mm

approx. 65° Shore A

PU60A transparent smooth

Order No.	Profile thickness		max. Profile width		approx. weight*	Standard Roll		Impact on min. pulley ∅	
	mm	inch	mm	inch	kg/100m	m	(ft)	mm	inch
FBFF150X16TG	1,6	1/16	140	5,5	28,8	50	(164)	+ 15,0	+ 0,6
FBFF150X2TG	2,0	5/64	140	5,5	36,0	50	(164)	+ 20,0	+ 0,8
FBFF150X3TG	3,0	1/8	140	5,5	54,0	50	(164)	+ 30,0	+ 1,2
FBFF150X4TG	4,0	5/32	140	5,5	72,0	50	(164)	+ 40,0	+ 1,6

Coefficient of friction µ: Steel: approx. 0,90 | PE: approx. 0,55 | HDPE: approx. 0,50 * Band width 140 mm

Coatings made of PU (up to 140 mm)

PU65A transparent smooth

Order No.	Profile thickness		max. Profile width		approx. weight*	Standard Roll		Impact on min. pulley ∅	
	mm	inch	mm	inch	kg/100m	m	(ft)	mm	inch
FBFG150X1TG	1,0	3/64	140	5,5	18,0	50	(164)	+ 10,0	+ 0,4
FBFG150X16TG	1,6	1/16	140	5,5	28,8	50	(164)	+ 15,0	+ 0,6
FBFG150X2TG	2,0	5/64	140	5,5	36,0	50	(164)	+ 20,0	+ 0,8
FBFG150X3TG	3,0	1/8	140	5,5	54,0	50	(164)	+ 30,0	+ 1,2
FBFG150X4TG	4,0	5/32	140	5,5	72,0	50	(164)	+ 40,0	+ 1,6

approx. 72° Shore A

Coefficient of friction µ: Steel: approx. 0,85 | PE: approx. 0,5 | HDPE: approx. 0,45 | **FDA/EC/USDA compliant (Limited suitability EC)**

* Bandbreite 140 mm

PU65A transparent, surface ribbed**

Order No.	Profile thickness		max. Profile width		approx. weight*	Standard Roll		Impact on min. pulley ∅	
	mm	inch	mm	inch	kg/100m	m	(ft)	mm	inch
FBFG150X26TW	2,6	1/10	140	5,5	46,8	50	(164)	+ 25,0	+ 1,0
FBFG150X3TW	3,0	1/8	140	5,5	54,0	50	(164)	+ 30,0	+ 1,2

** Rib shape according to DIN 7867/ISO 9982

approx. 72° Shore A

Coefficient of friction µ: Steel: approx. 0,85 | PE: approx. 0,50 | HDPE: approx. 0,45 | **FDA/EC/USDA compliant (Limited suitability EC)**

* Bandbreite 140 mm

PU75A transparent smooth

Order No.	Profile thickness		max. Profile width		approx. weight*	Standard Roll		Impact on min. pulley ∅	
	mm	inch	mm	inch	kg/100m	m	(ft)	mm	inch
FBFI150X1TG	1,0	3/64	140	5,5	18,0	50	(164)	+ 15,0	+ 0,6
FBFI150X16TG	1,6	1/16	140	5,5	28,8	50	(164)	+ 20,0	+ 0,8
FBFI150X2TG	2,0	5/64	140	5,5	36,0	50	(164)	+ 25,0	+ 1,0
FBFI150X3TG	3,0	1/8	140	5,5	54,0	50	(164)	+ 40,0	+ 1,6
FBFI150X4TG	4,0	5/32	140	5,5	72,0	50	(164)	+ 50,0	+ 2,0

approx. 80° Shore A

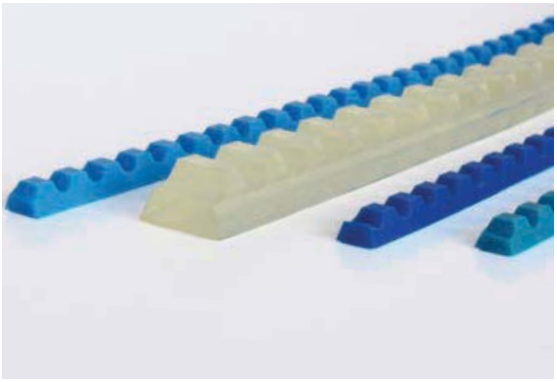
Coefficient of friction µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC/USDA compliant** * Bandbreite 140 mm

PU85A transparent smooth

Order No.	Profile thickness		max. Profile width		approx. weight*	Standard Roll		Impact on min. pulley ∅	
	mm	inch	mm	inch	kg/100m	m	(ft)	mm	inch
FBFK150X1TG	1,0	3/64	140	5,5	18,0	50	(164)	+ 20,0	+ 0,8
FBFK150X16TG	1,6	1/16	140	5,5	28,8	50	(164)	+ 30,0	+ 1,2
FBFK150X2TG	2,0	5/64	140	5,5	36,0	50	(164)	+ 40,0	+ 1,6
FBFK150X3TG	3,0	1/8	140	5,5	54,0	50	(164)	+ 50,0	+ 2,0
FBFK150X4TG	4,0	5/32	140	5,5	72,0	50	(164)	+ 70,0	+ 2,7

approx. 88° Shore A

Coefficient of friction µ: Steel: approx. 0,60 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC/USDA compliant** * Bandbreite 140 mm



BEHAbelt V-guides

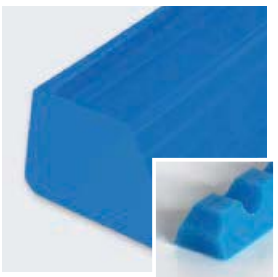
- All profiles are made from PU and can be supplied in various colours upon request.
- Approved for use in food contact applications in compliance with FDA/EC (PU70A)
- **Excellent connection with PU or PVC belts** by means of hot air or high frequency welding **(PU70A)**.

PU60A transparent V-guide smooth

Order No.		Profile dimension	Standard Roll		Recommended Min. pulley ∅	
uncogged	cogged	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

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

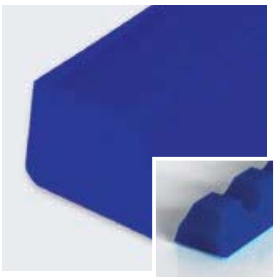


PU60A sky blue V-guide smooth

Order No.		Profile dimension	Standard Roll		Recommended Min. pulley ∅	
uncogged	cogged	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

Coefficient 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 ∅	
uncogged	cogged	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

Coefficient 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∅	
uncogged	cogged	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

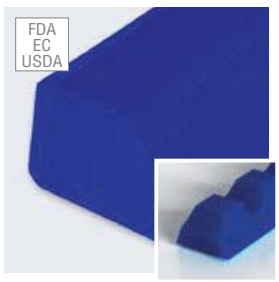
Coefficient of friction μ: Steel: approx. 0,75 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC/USDA compliant***

PU70A sky blue V-guide smooth

Order No.		Profile dimension	Standard Roll		Recommended Min. pulley∅	
uncogged	cogged	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

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

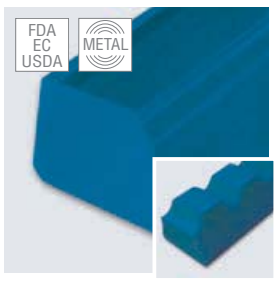


PU70A ultramarine blue V-guide smooth

Order No.		Profile dimension	Standard Roll		Recommended Min. pulley∅	
uncogged	cogged	mm	m	(ft)	mm	inch
FBKH6YLGB	FBKH22CLGC	6 x 4 (Y)	150	(492)	30,0	1,2
FBKH8MLGB	FBKH8MLGBC	8 x 5 (M)	150	(492)	35,0	1,4
FBKH10ZLGB	FBKH10ZLGBC	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

Coefficient 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∅	
uncogged	cogged	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

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

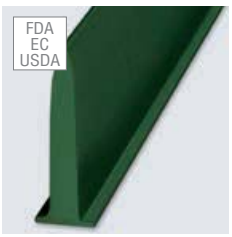
*Limited suitability EC

Type: feathered foot weldable on PU and PVC belts

approx. 84° Shore A

PU80A white

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 Roll
FBCJ025WUS	25,00	1,00	12,50	0,50	154,00	3,00	80 pcs. = 240m
FBCJ038WUS	38,00	1,50	12,50	0,50	228,00	3,00	50 pcs. = 150m
FBCJ050WUS	50,00	2,00	12,50	0,50	302,00	3,00	40 pcs. = 120m



approx. 84° Shore A

PU80A green

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

approx. 84° Shore A

PU80A ultramarine blue

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Foot width (inch) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ025LGUS	25,00	1,00	12,50	0,50	154,00	3,00	80 pcs. = 240m
FBCJ038LGUS	38,00	1,50	12,50	0,50	228,00	3,00	50 pcs. = 150m
FBCJ050LGUS	50,00	2,00	12,50	0,50	302,00	3,00	40 pcs. = 120m

approx. 84° Shore A

PU80A sky blue

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

approx. 84° Shore A

PU80A SAFE capri blue

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

Type: narrow foot weldable on PU belts

approx. 92° Shore A

PU90A white

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

approx. 92° Shore A

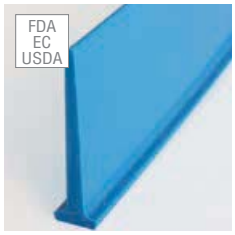
PU90A green

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

approx. 92° Shore A

PU90A ultramarine blue

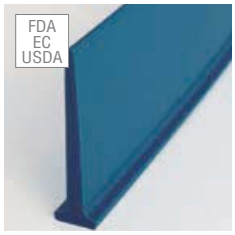
Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ020LG	20,00	0,79	10,0	75,00	3,0	80 pcs. = 240 m
FBCJ030LG	30,00	1,18	10,0	109,00	3,0	60 pcs. = 180 m
FBCJ040LG	40,00	1,57	10,0	129,00	3,0	40 pcs. = 120 m
FBCJ050LG	50,00	2,00	10,0	235,00	3,0	40 pcs. = 120 m
FBCJ060LG	60,00	2,40	10,0	280,00	3,0	30 pcs. = 90 m



approx. 92° Shore A

PU90A sky blue

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



approx. 92° Shore A

PU90A SAFE capri blue

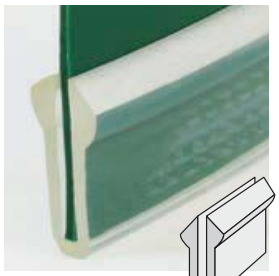
Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ020LC	20,00	0,79	10,0	75,00	3,0	80 pcs. = 240 m
FBCJ030LC	30,00	1,18	10,0	109,00	3,0	60 pcs. = 180 m
FBCJ040LC	40,00	1,57	10,0	129,00	3,0	40 pcs. = 120 m
FBCJ050LC	50,00	2,00	10,0	235,00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

BEHAbelt belt edges

For stabilizing and guiding curved belts so called belt edges are used. In most cases the profiles are stitched or glued on the curved belt. Through the profile bead the curved belt can be supported on the edges when running.

Advantages:

- High tear resistance
- High flexibility
- Low abrasion
- Individual colours possible



approx. 80° Shore A

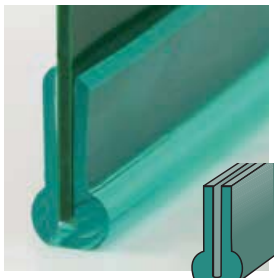
PU75A Belt edge 13 x 26 mm, transparent

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll	
	mm	cm^2	kg/100 m	m	(ft)
FBSP80A13X26	13 x 26	1,49	17,9	30,0	(98,4)

approx. 80° and 88° Shore A

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

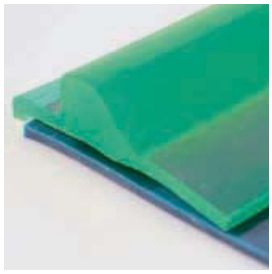
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll	
	mm	cm^2	kg/100 m	m	ft
FBSP75A14X28	14 x 28	1,9	22,8	30,0	98,4
FBSP85A14X28	14 x 28	1,9	22,8	30,0	98,4



approx. 80° Shore A

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

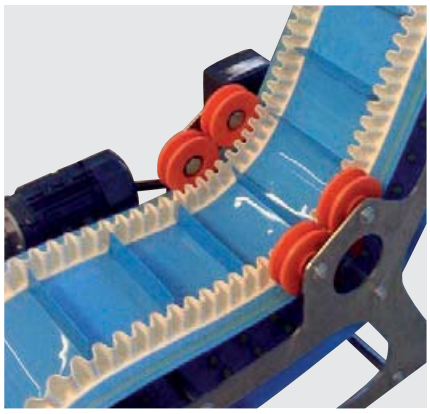
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll	
	mm	cm^2	kg/100 m	m	ft
FBSP80A88X18	8,8x 18	0,62	7,4	30,0	98,4



approx. 84° Shore A

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

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll	
	mm	cm^2	kg/100 m	m	ft
FBSP80A35X37	3,5 x 37	1,2	14,3	30,0	98,4



BEHAbelt PUflex belt material

PUflex belt material for sidewalls

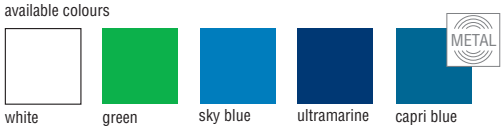
Flat belt strips for direct welding onto the conveyor belt

- Extremely flexible material with good abrasion and cut resistance
- Excellent and easy **weldability on PU and PVC belts** (using hot air or bonding cement)
- Approved for use in food contact applications in compliance with FDA/EC
- For your individual sidewall finishing implementation

PU80A Cut-to-width flat belts (140 mm) for sidewalls

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

available colours

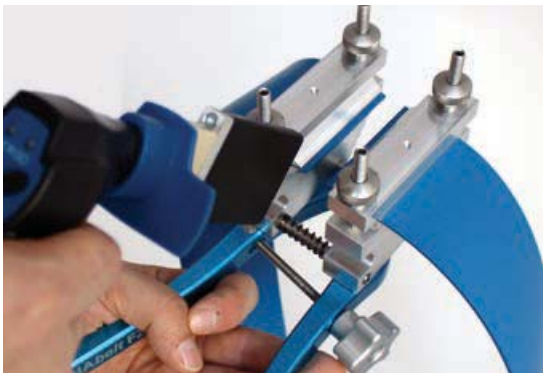


weldable on PU and PVC

approx. 84° Shore A

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

*Further belt thicknesses on request



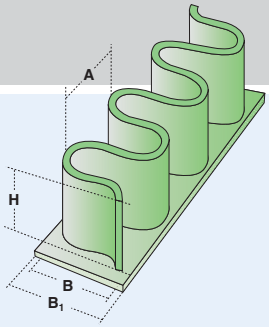
Welding tools for extending the trimmed flat belts

The BEHAbelt FZ02/3F guide clamp in combination with a welding paddle provides a simple method for extending trimmed flat belts up to a width of 60 mm.
In addition, 100% of the remnants can also be used in this manner.

BEHAbelt PUflex sidewalls

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

approx. 84° Shore A

FDA/EC/USDA compliant

PU80A white

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	100	125	130
FBVFH100W	100,00	3,94	45,00	55,00	50,80	642	100	155	160
FBVFH120W	120,00	4,72	45,00	55,00	50,80	741	50	170	185

approx. 84° Shore A

FDA/EC/USDA compliant

PU80A green

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	100	125	130
FBVFH100G	100,00	3,94	45,00	55,00	50,80	642	100	155	160
FBVFH120G	120,00	4,72	45,00	55,00	50,80	741	50	170	185

approx. 84° Shore A

FDA/EC/USDA compliant

PU80A sky blue

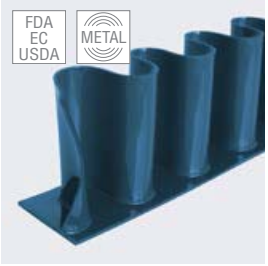
Order No.	Height (mm) H	Height (inch) H	Wave width (mm) B	Base width (mm) B1	Pitch off waves (mm) A	Approx. Weight (g/m)	Standard Roll (m)	Min. pulley diameter ∅ (mm)	Recomm. pulley ∅ (mm)
FBVFH020L	20,00	0,79	23,00	32,00	25,40	174	100	35	70
FBVFH030L	30,00	1,18	23,00	32,00	25,40	220	100	55	80
FBVFH040L	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	100	125	130
FBVFH100L	100,00	3,94	45,00	55,00	50,80	642	100	155	160
FBVFH120L	120,00	4,72	45,00	55,00	50,80	741	50	170	185

approx. 84° Shore A

FDA/EC/USDA compliant

PU80A ultramarine blue

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)
FBVFH020LG	20,00	0,79	23,00	32,00	25,40	174	100	35	70
FBVFH030LG	30,00	1,18	23,00	32,00	25,40	220	100	55	80
FBVFH040LG	40,00	1,57	23,00	32,00	25,40	265	100	75	90
FBVFH050LG	50,00	1,97	23,00	32,00	25,40	310	100	80	100
FBVFH060LG	60,00	2,36	45,00	55,00	50,80	445	100	90	110
FBVFH080LG	80,00	3,15	45,00	55,00	50,80	544	100	125	130
FBVFH100LG	100,00	3,94	45,00	55,00	50,80	642	100	155	160
FBVFH120LG	120,00	4,72	45,00	55,00	50,80	741	50	170	185



approx. 84° Shore A

FDA/EC/USDA compliant

PU80A SAFE capri blue

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	100	125	130
FBVFH100LA	100,00	3,94	45,00	55,00	50,80	642	100	155	160
FBVFH120LA	120,00	4,72	45,00	55,00	50,80	741	50	170	185

WELDING TOOLS & ASSEMBLY

FRICTION WELDING TECHNOLOGY FOR PU

The patented 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.

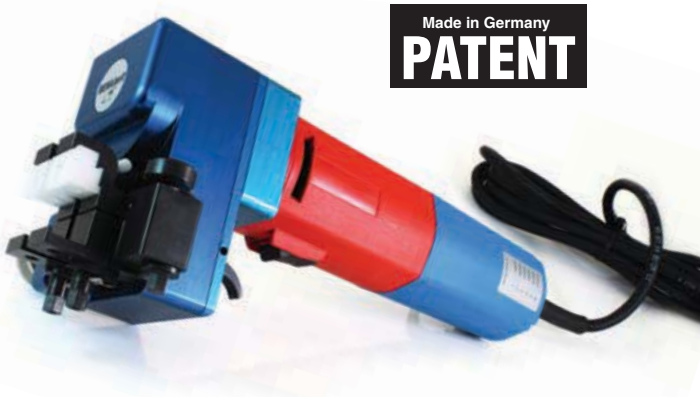
An exception is the patented weldable glass fibre reinforcement of BEHAbelt where this working step is unnecessary.

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.

RS02

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



Features at a glance

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

Scope of delivery:

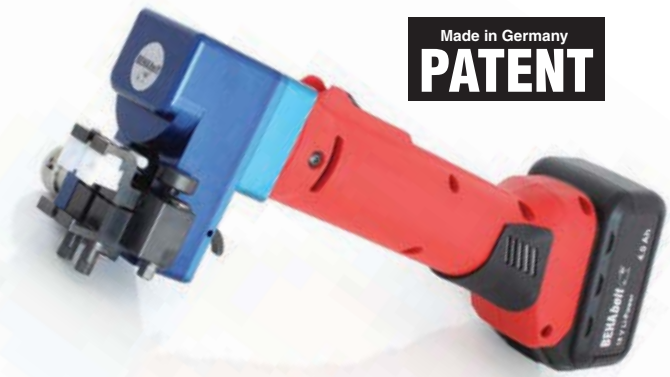
- 1 pc. Friction welding machine RS02
- 1 set standard profile jaws at your choice
- 1 pc. Torque wrench
- 1 pc. Scissors AS02
- 1 pc. Edge cutter SE02
- 1 pc. Carrying case with durable and predective foam inlay

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

Description	Order No.
230 Volt	**FBWRS022230V**

RS02 AKKU

Battery-operated, patented friction welding machine RS02 AKKU 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


Charger


Battery pack

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

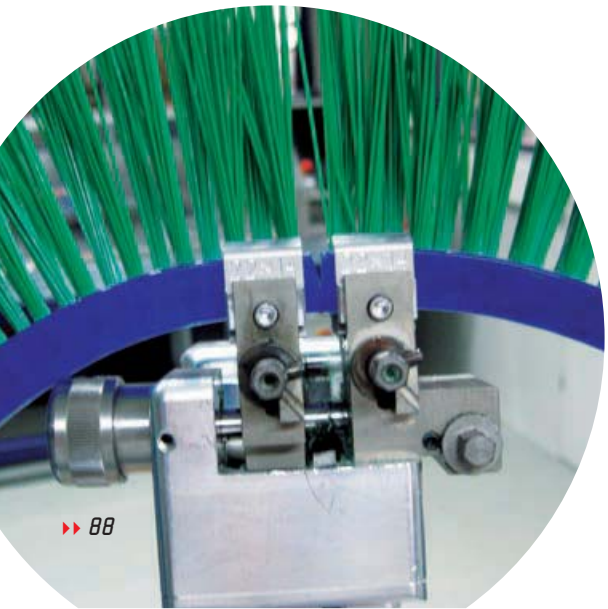
- Please note each belt profile requires a matching set of jaws.
- Therefore, please select the appropriate clamping jaws for the required profile geometry.
- **On request, we also manufacture clamping jaws for PU special profiles.**

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

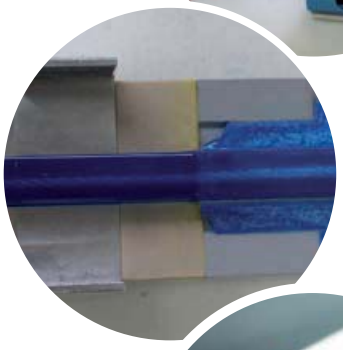
RS Clamping jaws Twin-V-belt 21X8mm	FBWSBK21X8
RS Clamping jaws Twin-V-belt (Z) 24X6,8mm	FBWSBK24X68
RS Clamping jaws Twin-V-belt 30X8mm	FBWSBK30X8

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



GENERAL

This welding technology provides perfect process control with the BEHAbelt 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

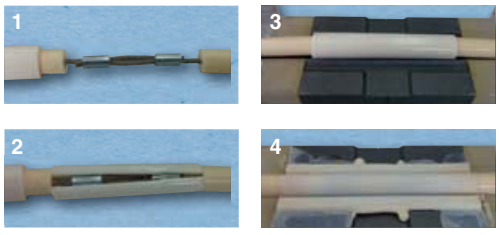
OVERLAP JOINTS

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.

Heating plate dimensions:
120 x 60 mm

Scope of delivery:

1 pc. Hot press HP01 AIR, 1 pc. Controller HP01,
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 Volt	**FBWHP011L230**

HP01 AIR

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

Features at a glance

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

Description	Order No.
Standard Set HP01/Water cooling/230 Volt	**FBWHP011W230**

Scope of delivery:

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

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

Shaft for HP01 to use with torque wrench
available as accessory
FBWHPSD12

Standard moulds for HP01 Hotpress

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

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

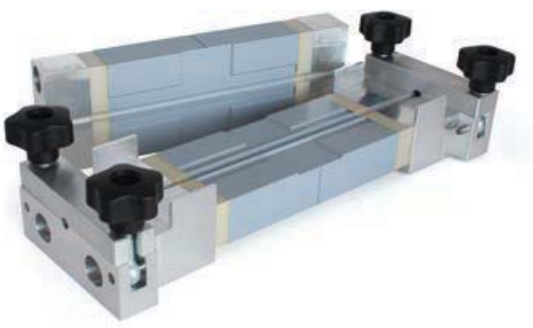
V-belts

Mould (Z) 10X6 mm	FBWFS100X060
Mould (A) 13X8 mm	FBWFS130X080
Mould (B) 17X11 mm	FBWFS170X110
Mould (C) 22X14 mm	FBWFS220X140

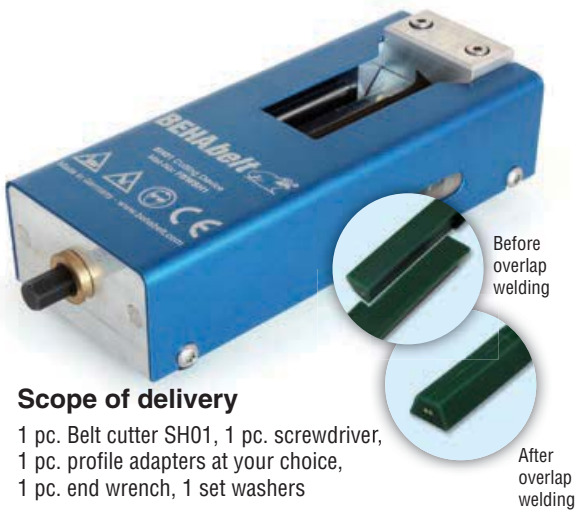
Mould for V-belt

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 round belt



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.
Joining set RH2	**FBWZRH2SET1**
Polyester sleeves inside (3 m)	**on request**
Polyester sleeves outside (3 m)	**on request**
CU crimps 2 mm (100 pc.)	**on request**

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
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
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

* Ferrules

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

EERGO

The first welding tool specifically developed for joining of PU and TPE profiles.
Designed with practicable use in mind.

PATENT

INDUSTRIE PREIS 2014 BEST OF

Features at a glance

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

Highlights

Heating-up time: less 2 minutes.

Innovative safety rest for safe placement on the work surface.

ERGO

Ergonomic design for a natural working position.

TPE PU

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

Constant welding temperature at different ambient temperatures.

Specifically developed welding tool for PU and TPE

Scope of delivery:

1 pc. EErgo welding tool
1 pc. Carrying bag

Dimensions: 185 x 210 x 55 mm (HxWxD)
Weight: approx. 380 g
Power: 240 W

Description	Order No.
EErgo 230 V	**FBWEE001**

Spare parts

Spare paddle for EERGO
Best.-Nr. **FBWEE002**
Dimensions (HxWxD): 43 x 65 x 6 mm

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

EERGO-Set „small“

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“

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

Description	Order No.
EErgo-Set „universal“ 230 V	**FBWEE004**
EErgo-Set Vario „universal“ 230 V	**FBWEE014**

EERGO-Set „universal“

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“

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

Multi TC

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

Polyurethane PU 290 °C
Polyester TPE 240 °C

Continuously temperature control

Features at a glance

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

Scope of delivery:

1 pc. Multi TC welding tool

Temperature-controlled welding tool for two temperature ranges: PU 290 °C / Polyester 240 °C

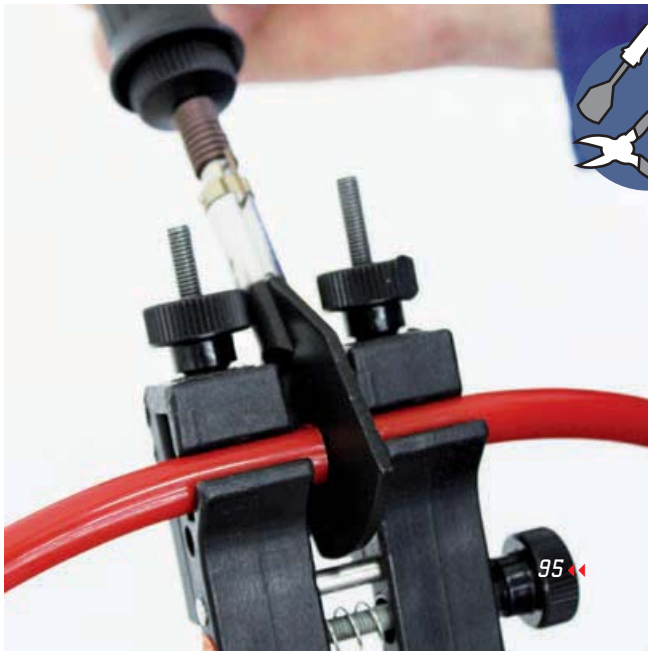
Dimensions: 295 x 35 x 25 mm (HxWxD)
Weight: approx. 250 g
Heating time: approx. 5 Minuten
Temperature range: continuously 200...300 °C
Power: 75 W

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



Paddle welding tool

SG02 / SG03

Very cost-effective.
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) 290 °C - 300 °C
or
1 pc. SG03 welding tool
for Polyester (TPE) 215 °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

FZ02/3 and FZ02/2

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

Guide clamp FZ02/2 customized adapter
Customized adapter for the guide 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

For 90°-welding

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

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

FZ02/3F

Guide clamp FZ02/3F for flat profiles
Robust and accurate for flat profiles.
Width max. 60 mm and Height 1,6 - 5 mm.

For 90°-welding

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

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

Convertible!
Can also be used without handle.

Profile jaws for special profiles

FZ01 Vario

Guide 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 and PJ3 ribbed V-belts.
- ➜ Your choice for standard and customized profiles!

Dimensions (HxWxD):	240x125x50 mm 140x195x50 mm without handle
Weight:	approx. 365 g approx. 320 g without handle

Description	Order No.
FZ01 Vario	**FBWFZ01V**

Quick clamp device for inserting the profiles.

Automatic unlocking starts off lateral pressure.

Precise welding thanks to constant pressure.

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 (HxWxD):	127x70x35 mm
Weight:	approx. 140 g

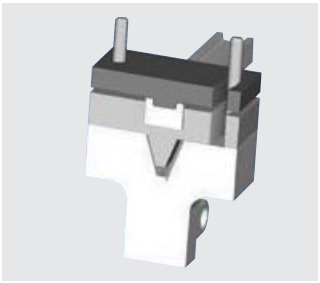
Description	Order No.
Guide clamp FZ01	**FBWFZ01**

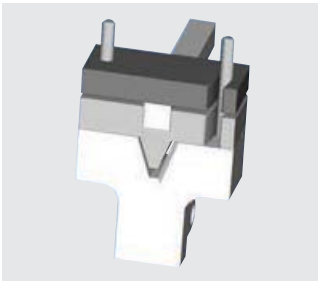
RSH01 & RSH02

Belt tensioner for tensioning of round and V-belts

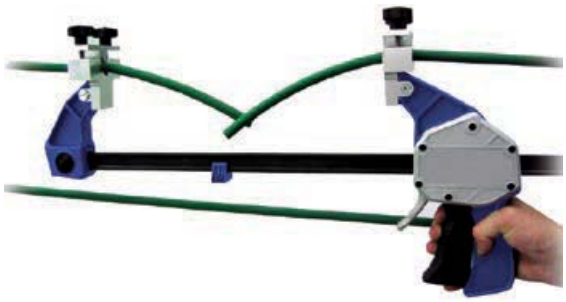
RSH01 450 mm (18“) clamp travel, suitable to >1 m belt length.

RHS02 900 mm (35“) clamp travel, suitable to >2m belt length.





Special editions for U- and square-profiles (please refer to page 50)



Small:
Dimensions (HxWxD): 690 x 320 x 90 mm
Weight: approx. 1930 g

Big:
Dimensions (HxWxD): 1150 x 320 x 90 mm
Weight: approx. 2420 g

Description	Order No.
RSH01 (450 mm)	**FBWRSH01**
RHS02 (900 mm)	**FBWRSH02**

KS 75

Bench vise with ball joint for paddle welding tools

Mount your paddle welding tool on a flexible, ball-bearing mounted holder to simplify stationary connecting of your belt profile.

NOTES

- Be careful not to over tighten the jaws to avoid damage to the body of the paddle welding tool.
- When setting up, make sure that the cable is not pinched.
- Sufficiently tighten the ball joint and table fixing so that the adjusted position remains fixed.

Dimensions (HxWxD): 280 x 80 x 150 mm
Weight: approx. 854 g

Description	Order No.
KS 75	**FBWKS75**

Accessories / Spare parts

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**

Torque wrench

RS Torque wrench 7 / 4Nm

Description	Order No.
Torque wrench	**FBWSW7X85**

Assortment box

Assortment box for clamping jaws for RS02 / RS02 AKKU

with 9 pockets, transparent box

Description	Order No.
Assortment box	**FBWSORT9**

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**

Paddle (MultiTC)

Spare paddle for welding tool „MultiTC“

Dimensions (HxWxD):
35 x 35 x 2 mm

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

Paddle (MultiTC)

Spare paddle for flat profiles for welding tool „MultiTC“

Dimensions (HxWxD):
25 x 70 x 2 mm

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

Paddle (SG02/03)

Spare paddle for welding tools „SG02/03“

Dimensions (HxWxD):
35 x 35 x 2 mm

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

Paddle (SG02/03)

Spare 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	**FBWTC76**

Paddle (EErgo)

Spare paddle for welding tool „EErgo“

Dimensions (HxWxD):
43 x 65 x 6 mm

Description	Order No.
Spare paddle EErgo	**FBWEE002**

FZ01 knurled nut

Plastic or metal replacement nut (M5)

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

RS02-Adapter

Adapter for clamping jaws white for friction welding machines RS02 and RS02 AKKU

Description	Order No.
RS02-Adapter	**FBWAPRS02**

SH01-Spare blade

Spare blade for belt cutter SH01

Description	Order No.
SH01-Spare blade	**MREKSH01**

Battery

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

Description	Order No.
RS02 spare battery	**FBWRS02AK18V**

LG4A

Charger 4A / 230V for RS02 Akku

Description	Order No.
LG4A Charger	**FBWRS02LG4A2**

Controllers for vulcanizing

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

Manual lubrication is subject to many variables. You have to set up a fixed schedule and stick to that schedule. It is easy to forget about the schedule when you are busy. When you manually lubricate your equipment you run the additional risk of applying too much or not enough lubrication. Too much lubrication will cause over heating of the bearings. Too little lubrication will make the bearings run dry. With the high cost of lube oil and high costs of repairs and labour, analysis have shown that it is possible to reduce the overall cost of operating your equipment by using automatic lubricators. A steady oil flow is applied only when the bearing drive is running and thus avoids running dry and over lubrication.

LubeSite® automatic lubricator is characterised by:

- NO over or under lubrication of the bearing
- Resulting in longer bearing life
- Cost savings both in labour and materials through longer lubricating Intervals
- Possibility to refill again with all lube oils (consistency 0...4 NLGI)
- Easy to maintain and environmentally-friendly construction
- Extensive program for nearly all applications

Application areas:

- Automotive industry
- Transport and aviation
- Car wash plant
- Wastewater treatment plant
- Feedingstuff production
- Fertiliser production
- Food industry
- Dairy production
- Printing plants
- Ceramic industry
- Paper manufactures
- Textile industry
- Wood industry
- Tobacco production
- Beverage production
- Mining industry
- Oil production
- Chemical plant
- Air conditioning systems
- Conveyor systems

Adapter

LubeSite® lubricators can be used for all antifriction units or fl oating bearings. The consistent lubrication of the bearing can be achieved by the spring pressure and the bevelled lengthwise slotted plunger.

A decreasing spring pressure on the aperture results in an increase at the plunger. Because of the low pressure (below 0,7 bar), the lubricant only flows when the bearing moves.

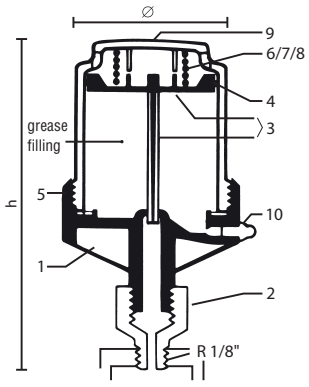
LubeSite® lubricators will help you lower your maintenance costs by replacing your manual lubrication with lubricators that can be refilled.

The refill interval depends on the application and bearing condition of each unit:

small (Type 202, 302, 502) 3:1;

medium (Type 205, 305, 505) 6:1;

large (Type 260, 360, 560) 12:1.



1 Body 2 screwed plug
3 Plunger and rod
4 O-tRing 5 Plunger and rod
6 Low spring 7 Medium spring
8 Strong spring
9 Clear case 10 Grease fitting

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.

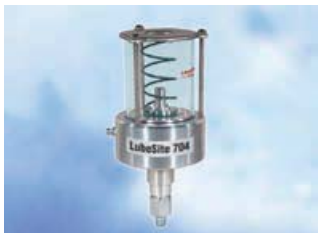
The 500 series is a tried and tested product for many years in the chemical, food and nuclear industry.

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

Technical data LubeSite® springs




	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	–

For further information,
please visit: www.behabelt.com

KNOW-HOW

PU and TPE material properties

Conveyor belts made of Polyurethane and Polyester

Our mission

Over 40 years BEHA has produced high quality thermoplastic weldable belts made of Polyurethane and Polyester. Those belts are used for drive applications and conveying.
We use only the very best raw materials and combine them with our experience in the extrusion field to provide time tested and proven products. New products are added to the line only after they have been tested in the laboratory and in the field.
Our mission is to supply our customers with the highest level of quality and innovation in the thermoplastic extrusion industry worldwide. In the following pages, you will find all the important information about material properties, purposes, technical data and joining methods.

Very good properties

The excellent melting ability of the material enables easy welding in order to obtain endless belts. This does not only result in the simplified installation of belts but also enables for reduced inventory as it is no longer necessary to store belts in different lengths.
In the majority of cases when a common drive belt has to be changed, machine and conveyor systems have to be disassembled for the belt replacement. This is not the case if you use BEHAbelt products. BEHAbelt drive and conveyor belts can be installed and endlessly finished without the need of disassembly and in a short period of time. BEHA Innovation GmbH develops and manufactures handy joining tools, which can be used for this purpose. When our homogeneous materials are properly joined with BEHAbelt equipment, the splice is the same strength as the belt.

Material qualities

BEHAbelt profile belts and homogeneous flat belts are produced in different compounds in PU 60 A (approx. 65° Shore A) - 95 A (approx. 98° Shore A) and TPE 40 D (approx. 40° Shore D) up to TPE 63 D (approx. 63° Shore D). The selection of materials should be based on application requirements.

Material properties

- 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

Chemical characteristics of PU and TPE

General

Thermoplastic material can be used in a variety of applications where there is interaction with various chemicals.

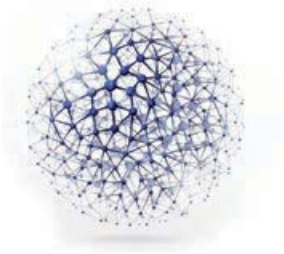
Chemical resistance depends on the period of exposure, the temperature, the quantity, the concentration and the type of the chemical substance. It is therefore difficult in any case to make a clear distinction between the effects described below. In the case of chemical degradation of polyurethane the 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

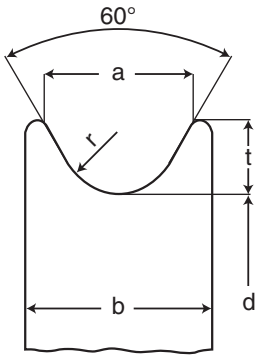
Pulleys for round belts and V-belts
“What impact has the pulley diameter on the belt?”

The drive pulley and idler pulley should be designed according to DIN 2217 (refer to BEHAbelt recommendation on following page). Please choose the minimum pulley diameters according to the values listed in tables. We have selected an appropriate shore hardness for conveying at slow speeds (one Meter per second). It is recommended to always place the drive pulley when possible at the head of the conveyor so the product is pulled through the system.

The pulley diameter has a major impact on the lifetime of a belt. The minimum pulley diameters or larger as specified in this BEHAbelt delivery programme should be followed. If the pulley diameter is too small this always reduces lifetime considerably due to resulting extreme bending cycles leading to early material fatigue.

The specified minimum pulley diameters always refer to a 180° wrap. The wrap angle indicates by how many degrees the belt will be guided around the pulley and thus has contact with the pulley.

Pulleys for round belts



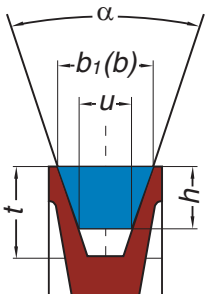
Recommended pulley dimensions – dimensions in mm

Belt ∅	2	3	4	4,8	5	6	6,3	7	8	9,5	10	12	12,5	15	18	20
a	4,5	5,5	7	8	8	10	10	11	12	14,5	15	18	18,5	23	28	30
b	6,5	8	10	12	12	14	14	15	16	19	19	22	23,0	27	32	36
t	2,5	3	3,5	4	4	5	5	5,5	6	7	7,5	9	9	12	14	15
r	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, aluminum or Polyamid when it comes to plastic. Please keep in mind the low friction coefficient μ when using plastic material.

Pulleys for V-belts

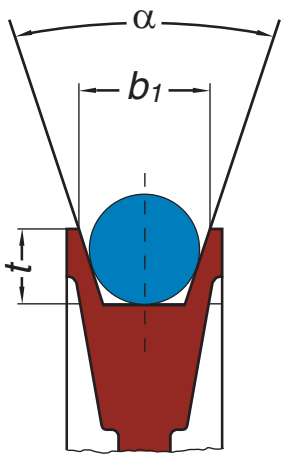
Profile acc. to DIN 2215	6	8	10	13	17	22	32
Global standard acc. to ISO 4184	Y	M	Z	A	B	C	D
Upper width b (mm)	6	8	10	13	17	22	32
Height h (mm)	4	5	6	8	11	14	20
Lower width u (mm)	3,3	4,55	5,9	7,5	9,4	12,35	18,25
Pulley angle α	∠ 34 - 38°						
Groove width b1	6	8	10	13	17	22	32
	→ depending on how much 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 V-belt pulleys for round belts

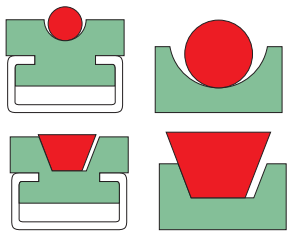
In the field it is common to see round belts being run in V-belt pulleys. You need to know that this is not a perfect combination regarding geometry and that it is always recommended to use round belt pulleys instead.
The disadvantage of this “combination” is a typical wear in the belt flank where the belt is in contact with the pulley. There is also a risk that the round belt will be clamped by the V-shape of the pulley and thus stick in the V-shape.
This often can lead to additional belt elongation causing the belt to skip or wobble. Under such conditions lifetime of the belt will always be reduced. If you decide to use V-belt pulleys anyhow please choose a V-belt pulley design that allows the round belt also to touch the bottom of the pulley groove to minimize problems.
Regarding selection of pulley material we recommend in general to use for the drive pulleys steel or aluminum to have good grip with the TPU/TPE belts. Then you have the best conditions to transmit maximum power to drive the belt.
Please note that non-coated aluminum pulleys can lead to a discolouring of the belts. For supporting and deflection pulleys and supporting or guide rails we recommend using low friction materials like PE or HDPE to minimize friction. Please refer also to page number 96 in our catalogue where you can find an overview table stating the coefficient of friction of TPU/TPE with various materials.



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.



Pulleys for flat belt

Pulley crowning
In order to prevent the flat belts from tracking off, at least one of the pulleys must be crowned, preferably the larger pulley or the pulley with the largest wrap angle.

A uniform, symmetrical curvature is recommended. Do not use any pulleys with a conical or cylindrical-conical shape and avoid sharp edges under all circumstances.

Commercially available pulleys are usually crowned according to ISO 22. The higher the wrap angle, the greater the tracking effect of crowned pulleys.

Pulley width
The width of the pulleys should be at least 1.05 to 1.1 times the belt width.

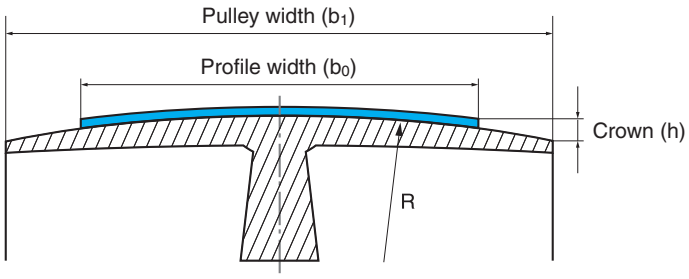
Pulley running surface
Clean and smooth running surfaces increase the efficiency and service life of drive belts.

Due to the risk of slip-stick and noise, the running surfaces of driving pulleys must be neither too smooth nor too rough (no knurled surfaces!), since this would lead to excessive belt wear and premature belt failure.

We recommend using running surfaces with a roughness of Ra=3.2 µ - 6.3 µ

Pulleys for flat belt: Table and calculation

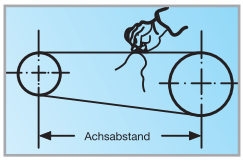
Pulley diameter	Crown bow (h)
< 5,01 mm	0,10...0,16 mm
< 10,01 mm	0,12...0,18 mm
< 30,01 mm	0,14...0,22 mm
< 50,01 mm	0,17...0,28 mm
< 60,01 mm	0,20...0,32 mm
< 80,01 mm	0,24...0,40 mm
< 100,01 mm	0,30...0,50 mm
< 200,01 mm	0,60...1,00 mm



Calculation

Manufacture radius (R) $= \frac{h}{2} + \frac{b_1^2}{8 \times h}$

Crown bow (h) = Pulley diameter x 0,003

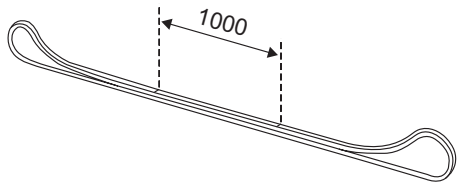


Working out the correct belt length

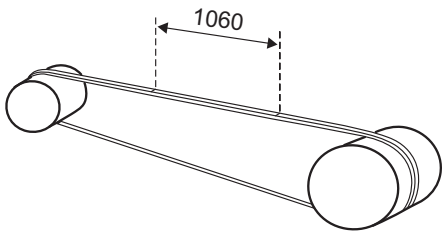
Use a string or steel tape to make measurements after reducing take-up (if installed) to the minimum. Distance between pulleys should remain fixed. To obtain good driving strength and good belt life, the belt pretension should be 0,5% to maximum 10%, based on hardness and length of the belt. To verify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

Pretension

Suitable pretension of TPU or TPE belts is required to ensure functional operation.
We recommend pre-tensioning belts between 0,5 % - 10 % depending on the shore hardness of the belt and the length of the system.



Prior to joining the belt, place it on a flat surface and mark two lines 1000 mm apart (for shorter belts, the distance can be reduced to 100 mm)



Mount the belt on the pulleys and tension it to increase the distance between the two marks. Elongate the belt until the distance reaches the requested value according to the marks. At a pretension of e.g. 6%, the marks have to be 1060 mm apart.

Pretension and bearing load

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.

What are the 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.

Conveyor belt calculations (k 1%)

Please use our simplified formular to calculate the required tensioning forces, axle loads, or max. weight of conveyed goods for our belts. The central variable for elastic belts is value k 1% indicating the required force per 1% belt elongation and thus also giving a statement on the belt elasticity.

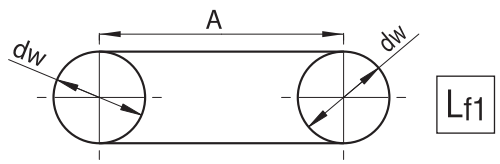
Required belt tensioning force at X % pretension and/or axe load

$$F_{Pretension\ (daN)} = k\ 1\%\ (kg/cm) + Band\ width\ (cm) \times Pretension\ (\%) \times 2 = F_{Bearing\ (daN)}$$

Maximum weight of conveyed goods

$$F_{trans\ (daN)} = \frac{k\ 1\%\ (kg/cm) + Band\ width\ (cm) \times Pretension\ (\%)}{Coefficient\ of\ friction\ (\mu)\ of\ bottom\ side}$$

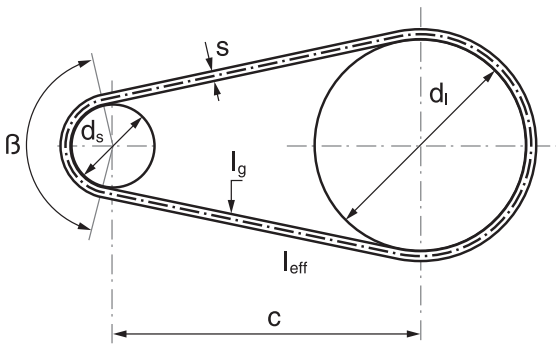
Calculation of belt length



L_{f1} = dw x π + 2 x 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!

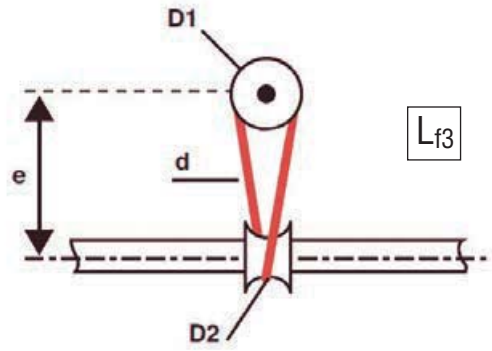


$$l_{eff} = 2c \cdot \sin\left(\frac{ß}{2}\right) + \frac{\pi}{2}\left[d_s + d_l + 4s + \frac{(d_l - d_s)(180 - ß)}{180}\right] \text{ [mm]}$$

$$ß = 2 \arccos\left(\frac{d_1 - d_s}{2c}\right) [°]$$

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)

$L_{f3} = [(D1 + d) + (D2 + d)] \times \pi / 2 + 2 \times \sqrt{[(D1+d)^2 / 4 + e^2]}$

remm. min. center axis distance

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 w (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 the inner length Li is determined or known	**La = Li +**	25	31	38	50	69	88	126
	La = Lw +	10	12	16	20	29	30	51
	Lw = Li +	15	19	22	30	40	58	75
	Lw = La -	10	12	16	20	29	30	51

Coefficient of friction

Coefficient of friction μ for smooth surfaces (G)

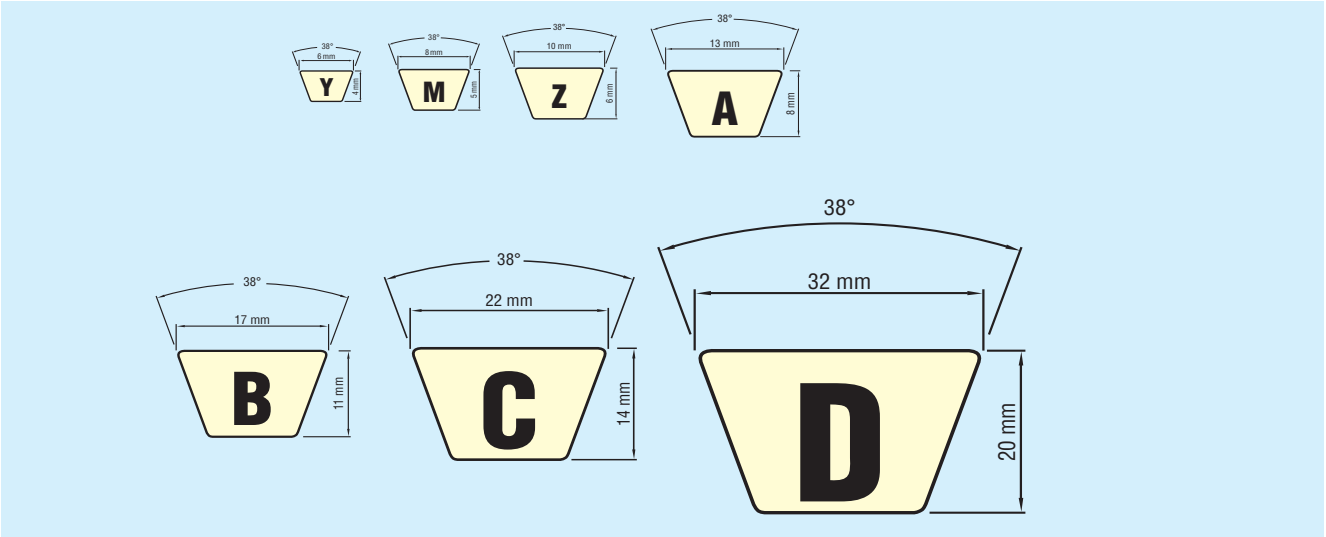
Quality	Alu	Steel	Glass	Wood (veneer)	PE	HDPE
PU60A	0,95	0,90	0,75	0,80	0,55	0,50
PU65A	0,90	0,85	0,65	0,70	0,50	0,45
PU70A	0,85	0,75	0,60	0,70	0,40	0,35
PU75A	0,85	0,70	0,50	0,65	0,40	0,35
PU80A	0,80	0,65	0,45	0,60	0,35	0,30
PU85A	0,75	0,60	0,40	0,50	0,35	0,30
PU85A rough	0,55	0,45	0,45	0,45	0,30	0,25
PU90A	0,70	0,50	0,30	0,50	0,30	0,25
PU95A	0,65	0,45	0,25	0,45	0,25	0,20
TPE40D	0,70	0,50	0,30	0,45	0,25	0,20
TPE55D	0,45	0,35	0,30	0,35	0,20	0,15
TPE63D	0,45	0,35	0,30	0,35	0,20	0,15

Coefficient of friction μ flat belt surfaces on steel

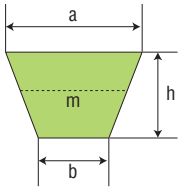
Quality	smooth gloss (SG)	smooth matt (SM)	fabric impression (FI)	inverted diamond (ID)	slightly rough (SR)
PU65A	0,85	0,80	0,70	0,65	0,70
PU75A	0,70	0,65	0,55	0,50	0,55
PU80A	0,65	0,60	0,50	0,45	0,50
PU95A	0,45	0,40	0,30	0,25	0,30
TPE55D	0,35	0,30	0,25	0,20	n/a

V-belt dimensions according to DIN 2215 and ISO 4184

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

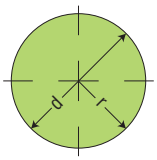


Calculation of round belt and V-belt cross section



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

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



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

$U = \pi \times d$

Working tension for 1% elongation (k)

Profile

Quality	Shore	(kp) kg/cm²
PU 60 A	65A	0,60
PU 65 A	72A	1,00
PU 70 A	76A	1,25
PU 75 A (blue line)	80A	1,50
PU 75 A	80A	1,60
PU 75 A plus	80A	2,40
PU 80 A (blue line)	84A	1,90
PU 80 A	84A	2,00
PU 80 A SAFE	84A	2,00
PU 85 A (blue line)	88A	2,15
PU 85 A	88A	2,30
PU 85 A plus	88A	3,45
PU 85 A glass fibre	88A	10,00
PU 90 A	92A	4,80
PU 95 A	95A	5,00
TPE 40 D	40D	7,50
TPE 55 D	55D	10,00
TPE 63 D	63D	14,00

Flat belt (belt thickness 1,0 mm)

Quality	Shore	(kb) kg/cm
PU65A	72A	0,10
PU75A	80A	0,15
PU80A	84A	0,20
PU80A SAFE	84A	0,18
PU95A	95A	0,50
TPE55D	55D	1,00

Calculation formulas for max. loads of profiles and flat belts

max. load capacity (Profiles) =

$$\frac{\text{Tension 1\% kp (kg/cm}^2\text{) x Material cross section (cm}^2\text{) x Applied preload (\%)}}{\text{Coefficient of friction of running base } \mu}$$

max. load capacity (Flat belts) =

$$\frac{\text{Tension 1\% } k_b \text{ (kg/cm) x Profile thickness (mm) x Profile width (cm) x Applied preload (\%)}}{\text{Coefficient of friction of running base } \mu}$$

max. tangential force (Profile) =

Tension 1% kp (kg/cm²) x Profile thickness (cm²) x Applied preload (%)

max. tangential force (Flat belts) =

Tension 1% kb (kg/cm) x Profile thickness (mm) x Profile width (cm) x Applied preload (%)

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

Description	Dimension mm	Tolerance ≈ mm
Round belts		
Type PU 75 A/80 A	∅ 2 - ∅ 8	± 0,2
Type PU 75 A/80 A	∅ 9 - ∅ 15	± 0,3
Type PU 85 A/90 A/95 A	∅ 2 - ∅ 8	± 0,2
Type PU 85 A/90 A/95 A	∅ 9 - ∅ 15	± 0,3
Type PU 85 A/90 A/95 A	∅ 18 - ∅ 20	± 0,5
Type TPE 40 D/55 D	∅ 3 - ∅ 8	± 0,2
Type TPE 40 D/55 D	∅ 9 - ∅ 15	± 0,3
Type TPE 63 D	∅ 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-Breite	Höhe
Type PU 65 A	6 - 8 - 10 - 13 - 17 - 22	(Y - M - Z - A - B - C)	– 0,5	+ 0,5
Type PU 75 A	6 - 8 - 10 - 13 - 17 - 22 - 32	(Y - M - Z - A - B - C - D)	– 0,5	+ 0,5
Type PU 80 A	6 - 8 - 10 - 13 - 17 - 22 - 32	(Y - M - Z - A - B - C - D)	– 0,5	+ 0,5
Type PU 85 A	6 - 8 - 10 - 13 - 17 - 22 - 32	(Y - M - Z - A - B - C - D)	– 0,5	+ 0,5
Type PU 90 A	8 - 10 - 13 - 17 - 22 - 32	(M - Z - A - B - C - D)	– 0,5	+ 0,5
Type TPE 40 D	8 - 10 - 13 - 17 - 22	(M - Z - A - B - C)	– 0,5	+ 0,5
Type TPE 55 D	8 - 10 - 13 - 17 - 22	(M - Z - A - B - C)	– 0,5	+ 0,5

Description	Dimension mm	Tolerance ≈ mm
Flat belt		
Belt thickness	1,0 / 1,6 / 2,0 / 3,0	+ / - 0,1
Belt width cut	700	+ / - 1,0

Manufacturing tolerances for tailoring

Production lengths (lf)	Tolerance
150 - 1000 mm	± 2 mm
1001 - 4000 mm	± 3 mm
4001 - 10000 mm	± 5 mm
over 10000	± 10 mm

Production lengths (lf)	Tolerance
< 10 mm	± 0,5 mm
< 100 mm	± 0,5 mm
> 100 mm	± 1 mm

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

Contact customer service if more strict tolerances are required.

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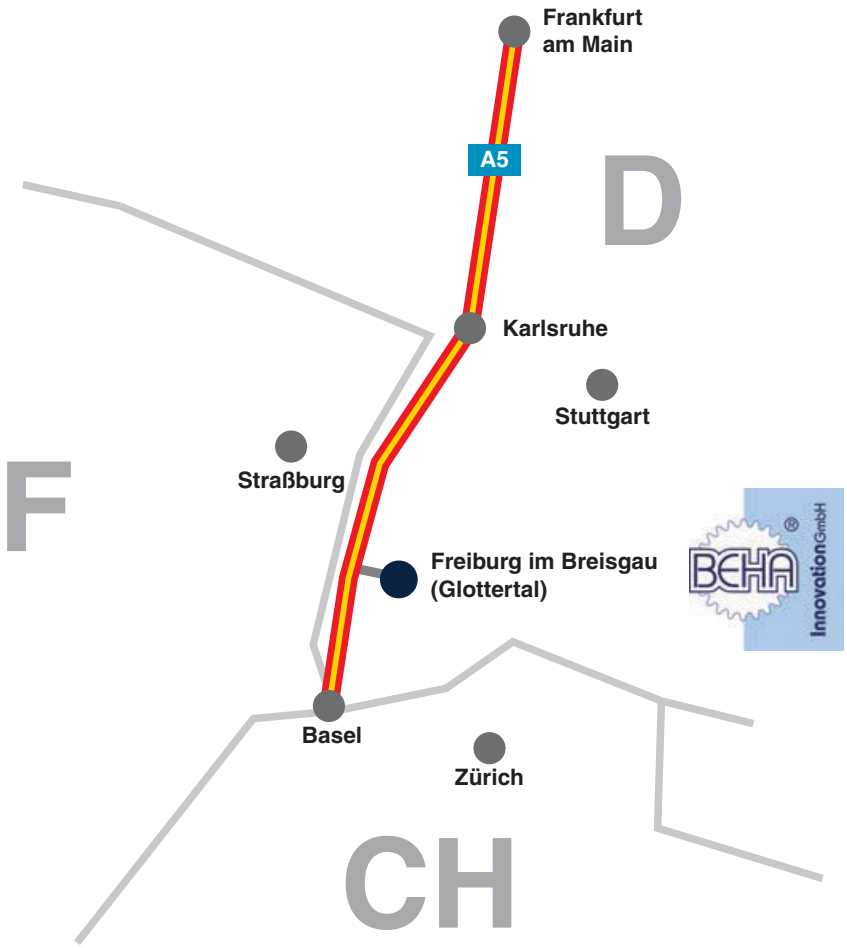

BEHAbelt products are available at your specialist dealer or our area representives

Your specialist dealer / system supplier

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