POLYSKAN CONVEYOR BELTS

PVC - PU - TPE



SBK VIBORG A/S

POLYSKAN CONVEYOR BELTS

SBK A/S offers a broad range of synthetic conveyor belts in PVC, PU and TPE, both smooth and patterned belts. We supply belts tailored to specific applications, e.g. with cleats, corrugated sidewalls and guide profiles, and with high/low friction, hot/cold, vacuum, oiland fat-resistant, abrasion/cut-resistant, UV-resistant or antistatic/ flame-resistant properties. We also supply transmission and flat belts with a polyester or polyamide core and wear-resistant elastomeric textile cover, round belts, V-belts in PU/PES, toothed belts in a variety of materials, types and strengths, with or without steel reinforcement and with or without PAZ (polyamide tooth facing) surface. We offer standard belts or belts with special surfaces and endless woven belts to meet any purpose.

PRODUCT PROGRAM

POLYSKAN conveyor belts are produced on some of the industry's newest machinery. The belts have a uniform, wear-resistant quality that guarantees a long service life and low maintenance.

The range includes a wide variety of qualities – to meet many different applications. We supply everything from soft PVC to hard special polyester/Hytrel®.

SBK's strength lies in our know-how and years of experience of advising on belts and conveyors, including consultancy and engineering solutions for most applications.

We have more than 25 years of international experience in our field. We supply tailor-made solutions for several different industries. We supply a range of belts with different belt hardnesses and profiles, and a wide range of materials. In short, we have every means at our disposal to find the perfect solution.



High cleats - guidelists for straight run/drive



Sideways emptying designed cleats



Curvebelt with a possiblity for guideance control via ball bearings or buttons



Skanwall corrugated sidewalls are flexible S-shaped corrugated walls which ensure that the material conveyed stays on the belt. Skanwall is available in several different qualities, but supplied as standard in PVC and PU. The corrugated waves differ in size, depending on the height of the sidewall and width at the base. When using small diameter pulleys, the waves are smaller and more flexible. In combination with cleats, the sidewalls create a belt which can handle high load capacities even when changing direction. Skanwall corrugated sidewalls can run vertically but are normally used to elevate material at angles of up to 75°



Special designed chevron belts for inclined transport of vegetables ie. potatoes

We offer:

- Sealed-edge belts
 Heat-resistant Teflon belts and belts with fibreglass/
 Aramide weave
 Extra wear-resistant belts
- Heavy-duty belts with extra strength for use e.g. in
- light to medium-strength bucket elevators
 Polishing and grinding belts, e.g. for the timber and
 marble industries
- Endless woven belts (no splicing)

- Fat-, oil- and chemical-resistant belts Hydrolysis, PU, HACCP and EC food-grade belts which can withstand the effects of cleaning with chemical agents.

n general, all our belts are antistatic to some degree. However, most of our white belts are only slightly antistatic and antistatic properties must therefore be added by other means.

We offer antistatic belts in accordance with ISO 284.

Many of our belts are with low noise weave. The vast majority of our belts, including belts with antistatic textile (+CT) can be used with metal detectors.

188	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 111	11 11 11 11 11 11 11 11 11 11 11 11 11
- 15	
	\$ 2 mm
- 1	
- 1	
- 1	
	the same of the sa

Belt tolerances						
Width	Length					
From 10 mm - 300 mm: -+3 mm	From 500 mm - 1600 mm: +- 0,75 %					
From 300 mm - 700 mm: +- 5 mm	From 1601 mm - 3000 mm: +- 0,55 %					
From 701 mm - 1500 mm: +-6 mm	From 3001 mm - 6000 mm: +- 0,5 %					
From 1501 mm - 3000 mm: +- 10 mm	From 6001 mm - 12000 mm: +- 0,35 %					
	From 12001 mm: - +-0,25 %					

Standard PVC Belt types

Belt code	Nbr ply	Color	Total thickness	Coating stiffness Top/bottom- cover	Thickness Top/bottom- cover	Weight	Working tension	Pull for 1% elongation	Min. pulley Diameter Ø	Temp	FDA compliant	Troughing
			mm	Shore A	mm	Kg/ M ²	N/mm	N/mm	mm	оС		
1M12 V6 V8 B	1	Black	2.0	80/85	0.6/0.8	1.8	12	6	35	-15/+80	No	Yes
1M12 V6 V8 AG	1	Green	2.0	80/85	0.6/0.8	1.8	12	6	35	-15/+80	No	Yes
2M16 U0 V5 AG	2	Green	2.0	80/-	0.5/ -	2.4	16	8	30	-15/+80	No	No
2LN24 U0 V5 B	2	Black	2.0	80/-	0.5/ -	2.4	24	12	50	-15/+80	No	No
2M24 U0 V7 AG	2	Green	2.4	80/-	0.7/ -	2.7	24	12	40	-15/+80	No	No
2M24 V7 V8 AG	2	Green	3.1	80/85	0.7/0.8	3.2	24	12	50	-15/+80	No	No
2T24 V7 V8 AG	2	Green	3.1	80/85	0.7/0.8	3.2	24	12	50	-15/+80	No	Yes
2M24 V7 V8 B	2	Black	3.1	80/85	0.7/0.8	3.2	24	12	50	-15/+80	No	No
2M24 U0 V20 AG	2	Green	3.7	80/ -	2.0/ -	4.3	24	12	80	-15/+80	No	No
2M20 U0 V7 B - BW	2	Black	2.3	40/ -	0.7/ -	2.7	20	10	40	-20/+80	No	No
2M20 U0 V20 AG-SG	2	Green	5.3	40/ -	2.0	4.5	20	10	80	-20/+80	No	No
2M20 U0 V14 B- LG	2	Black	3.1	35/ -	1.4/ -	3	20	10	20	-20/+80	No	No
2M20 U0 V20 AG-ST	2	Green	4.2	55/ -	2.0/ -	4.1	20	10	60	-15/+80	No	No
3M36 V7 V8 AG	3	Green	4.6	80/85	0.7/0.8	4.9	36	18	100	-15/+80	No	No
3M36 U0 V10 G	3	Dark Green	3.9	80/ -	1.0/ -	4.3	36	18	100	-15/+80	No	No
2M10 U0 U0 GR	2	Grey	1.75	-/-	0.1/0.1	1.7	20	10	30	-10/+80	No	No

FORMULA FOR CALCULATING THE NECESSARY BELT STRENGTH (N/MM)

For sliding bed and roller support

Total weight on the belt x 10 x the co-efficient of friction / divided with the belt width = minimum belt-

Tensioning
The tension normally lies between 0.3-0.7% of the length - maximum up to app. 2%
The tensioning system should be able to take up 3% of the belt length.
Belts should never be over-tightened - the belt should have just enough friction to run the drive and end pul-



Vacuum belt



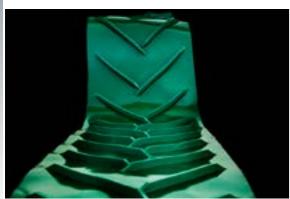
Special coating



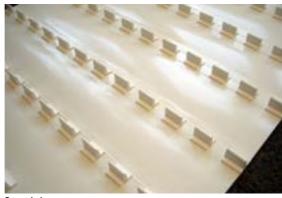
Special topcover profile



Polishing – grinding belt



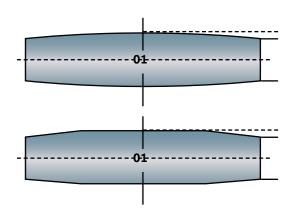
Chevron cleated belt



Parted cleats

PRODUCT PROGRAM

Recommeded guiding values – crowning of tapered – cylindrical part					
Pulley length	Scale A-B-A				
< 500 mm	1/3 - 1/3 - 1/3				
500 - 1000 mm	1/4 - 2/4 - 1/4				
1000 - 1200 mm	1/5 - 3/5 - 1/5				
1200 -	1/7 - 5/7 - 1/7				



Guiding crowning values in mm												
Centre distance		<1500				1500-3000				>3000		
Belt thickness mm	<1,5	1,5-3	3 - 5,5	> 5,5	<1,5	1,5-3	3-5,5	> 5,5	<1,5	1,5 - 3	3-5,5	> 5,5
Belt width mm												
125 mm	0,5	0,5	0,5	0,5	1	1	1	1	1	1	1	1
250 mm	0,5	1	1	1	1	1	1,5	2	1	1,5	2	2
400 mm	1	1	2	2	1,5	1,5	2	2	1,5	2	3	3
600 mm	1	1	2	2	1,5	2	3	3	1,5	2,5	3	4
900 mm	1,5	1,5	2	2	1,5	2	3	3	2	3	4	5
1200 mm	1,5	1,5	2,5	2,5	2	2,5	3,5	4	2	3	5	6
1500 mm	1,5	2	3	3	2	3	4	5	2	3,5	5	7
2000 mm	1,5	2	3	3	2	3	4,5	5	2,5	4	6	8



Gauze-belts Endless woven belts



	Friction against steel	
	Fabric back-side:	0,2
9.00	Impregnated fabric back-side:	02 = 0,4
	PVC with "diamond" profile:	0,45
	Smooth back-side:	0,73
	Friction against pulley lagging:	0,55



Positive driven belts Positive driven belts



HIGH-QUALITY POLYSKAN ELASTOMERIC AND PU-COVERED FLAT BELTS HAVE EXCELLENT ABRASION- AND IMPACT-RESISTANCE.

The belts comprise a polyester/polyamide or solid nylon core with a PU or elastomeric textile cover.

The elastomeric blend is oil/fat-resistant and suitable for wet and dry applications. It is extremely wear-resistant and has a long service life.

These belts are often used with motorised pulleys due to low elongation, long service life, and fast and efficient power transmission.

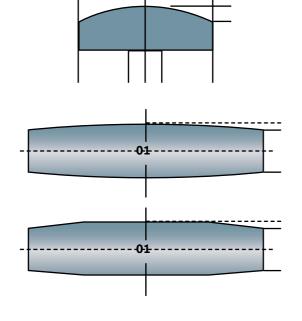
Flat belts are faster to fit, antistatic, and very flexible.

Applications: Cardboard and paper industries, printing houses, textiles, and as drive belts for roller conveyors.

		,						
Туре	Topcover	Bottom cover	Color	Total thickness	Temperature	Pull for 1% elongation	Drive – end pulley dia	Friction
POLYSKAN flat belts				mm		N/mm	Ø/mm	
3T10 15-01 G-Elas	1.5	0,1 impreg	Apple- green	3	-20° +70°	10	40	0.7
1PA1,5 01-01 G	0.1 impr	0,1 impreg	Apple- green	1.2	0° +100°	1.5	30	0.3
1PA4 02-02 G	0.2 impr	0,2 impreg	Apple- green	1.9	0° +100°	4	50	0.7
1PA6,5 1,3-1,3 LBL-Elas	1.3	1,3	Light blue	3	0° +100°	6.5	50	0.7
1PA6,5 1,45-1,45 LBL-Elas	1.45	1,45	Light blue	4	0° +100°	6.5	60	0.7
1PA6,5 1,9-1,9 LBL-Elas	1.9	1,9	Light blue	5.5	0° +100°	6.5	70	0.7
1PA6,5 2,2-2,2 LBL-Elas	2.2	2,2	Light blue	6	0° +100°	6.5	80	0.7
1PA10 04-01 LBL-Elas	0.4	0,1 impreg	Light blue	2.2	0° +100°	10	75	0.7
1PA10 10-10 LBL-Elas	1	1	Light blue	3	0° +100°	10	60	0.7
1PA10 1,5-1,5 LBL-Elas	1,5	1,5	Light blue	4	0° +100°	10	60	0.7

Crowning guidance acc to belt-width

Flat belts							
Pulley Ø dia mm	Crowning	Crowning					
	Less than 250 mm L	More than 250 mm L					
40-112	0,3 mm	0.3 mm					
125-140	0,4 mm	0.4 mm					
160-180	0,5 mm	0.5 mm					
200-224	0,6 mm	0.6 mm					
250-355	0,8 mm	0.8 mm					
400-500	1 mm	1 mm					
560-710	1.2 mm	1.2 mm					
800-1000	1.2 mm	1.5 mm					
1120-1400	1.5 mm	2 mm					
1600-2000	1.8 mm	2.5 mm					



TYPE DESCRIPTION/DE-CODING

NO. OF PLY/TEXTILE LAYERS

Polyester textiles:

= Cross-rigid

F = Flexible (trough bends)

PA = Nylon

GV = Fibreglass weave

S = Spun polyester

Force/pull for 1% elongation

TOP/BOTTOM COVER THICKNESSES AND SPECS.:

Bottom cover with profile "diamond profile" 0 = impreg = impregnated bottom fabric

- low friction

0 = fabric back side – low friction

SPECIAL PROPERTIES:

H = Hard (low friction/accumulation)

OTHER PROPERTIES:

M = Matt surface (antistatic textile)

(CT anti-static fabric) CT

FO (fat/oil)

FDA (Food contact material)

TOP COVER PROFILES:

(Longitudinal groove) IO (Inverted oval) SG (Supergrip) LN (Small nipple) LR (Longitudinal RP (Rice profile) BT (Sticky top (soft PVC) ribbed)

ST (Saw-tooth)

MK (Mini nipple) DA (Fabric impression) TR (Cross ribbed) RB (Rhombe) RK (Large diamond GS (Basket weave) NP (Diamond) profile)

LT (Small tooth)

COLOR:

HV = White G = Apple green PG = Petroleum/ BL = Blue blue Green LBL = Light blue S = Black BE = Beige MG = Dark grey MG = Dark green

GY = Grey









SKANCLEAT CLEATS

Skancleats are made in PVC/PU/TPE and are primarily used for conveying smaller items/products/powder on inclined or declined conveyors.

The cleats have a strong base and blade, and can therefore carry heavier loads. The blade is rounded at the top to avoid damaging the products. A sharp edge blade is more likely to cause damage.

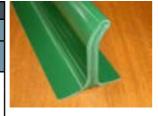
The cleats are available in three variant designs: T, C and TC, and can be textile-reinforced. C and TC cleats are used for inclined conveying from app 30 Degr and up.

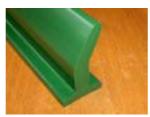
Heavy-duty fabric-reinforced cleats can be used to convey larger products or with smaller pulley diameters, etc.

We can supply tailor-made solutions, e.g. cleats used as sidewalls (cut up cleats in longitudinal direction) and we can supply "cushioning impact-dampening" cleats – made from 1 ply PVC belt or additionally - and possibly better – soft PU fingers that covers the entire topcover area – for transporting fragile products e.g. vegetables.

Diagonal and cut cleats can be used in connection with sideways discharge.

Skancleat	cleats:				
		Pulley Ø diameter min. mm		Inclination angle	
Туре	Height	PVC T,C,TC TW,CW,TCW	PU T, TC	Up to app.	
T 20	20	50			
T 30	30	80	40		
T 40	40	100	50	75° (0°	
T 50	50	100	50 60	35°-40°	
T 60	60	150	80		
T 80	80	190			
C30	30	80			
C 40	40	100			
C 50	50	100	100	60°	
C 60	60	150			
C 75	75	190			
TC 30	30	80			
TC 40	40	100	50	ca 60°	
TC 50	50	100	50 60	Can be used for steeper eleva-	
TC 60	60	150	75	tions	
TC 75	75	150	[











8

Chevron patterned belts for vegetables, e.g. potatoes and onions.

Fabric reinforced cleats can run over smaller pulley dia mm than Solid PVC/PU/TPE cleats - app. 30-80 mm

- T = straight/vertical cleats
- C = Angled cleat for inclined conveying
- TC = Straight and angled cleat for inclined conveying
- Fabric reinforced cleats are available in T,C and TC designs



5

6

The following configurations are available.









Special sidewalls Belt with fall-cushioning cleats

SKANWALL CORRUGATED SIDEWALLS

Skanwall corrugated sidewalls are flexible S-shaped corrugated walls which ensure that the material conveyed stays on the belt. Skanwall is available in several different qualities, but supplied as standard in PVC and PU. The corrugated waves differ in size, depending on the height of the sidewall and width at the base. When using small diameter pulleys, the waves are smaller and more flexible.

In combination with cleats, the sidewalls create a belt which can handle high load capacities even when changing

In combination with cleats, the sidewalls create a belt which can handle high load capacities even when changing direction. The user can easily adjust in-feed and discharge distances on the belt/conveyor and switch to elevator conveying without transferring to a different belt.

Skanwall corrugated sidewalls can run vertically but are normally applied to elevate material at angles of up to 75°. The corrugated waves are easy to clean. This applies in particular to PU sidewalls, due to the stability and homogeneity of the PU material.

Skanwall is also available in FDA compliant, fat- and oil-resistant, and moderately fat- and oil-resistant qualities. Special corrugated waves can be made to order, e.g. in PU foam and other thermoplastic materials.

Skanwall	Skanwall PVC/PU corrugated sidewalls							
PVC	Height	Footbase width	Min Ø dia mm	PU	Height	Footbase width	Min Ø dia mm	
20/35	20	35	50	20/20	20	20	50	
30/35	30	35	75	30/20	30	20	50	
40/35	40	35	100	40/20	40	20	80	
40/50	50	50	100	50/20	50	20	100	
50/50	50	50	125	40/30	40	30	80	
60/50	60	50	150	50/30	50	30	125	
70/50	70	50	175	60/30	60	30	150	
80/50	80	50	200	60/50	60	50	150	
90/50	90	50	225	80/50	80	50	200	
100/50	100	50	250	100/50	100	50	150	

The pulley diameters apply to driven pulleys. On conveyors with up/down-turn deflections – D2 Ø in mm must be at least 4 x wave height.

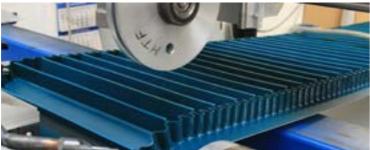
When using stub rolls in/for D2, radius must be 1.25 x deflection wheel diameter in mm.

Corrugated sidewalls available in heights of up to 120 mm.

Subject to alterations.

How to calculate free zone to Skanwall corrugate sidewalls					
0 - 500 mm:	Beltwidth + sidewall height x 10%				
501 - 800 mm:	Beltwidth + sidewall height + 11%				
801 - 1200 mm:	Beltwidth + sidewall height + 12%				
1201 - 1500 mm:	Beltwidth + sidewall height + 13%				
When using stub rolls at helt deflections, the nulley radius must					

When using stub rolls at belt deflections, the pulley radius must be at least 1.25 x minimum deflection diameter in mm (see table). If you choose a narrower free zone, very good cross-rigidity in the base belt is required. Contact SBK A/S

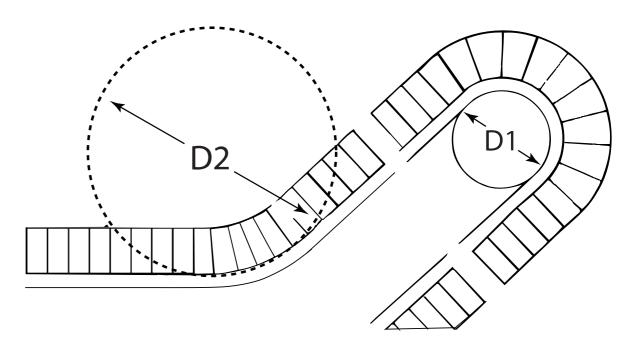


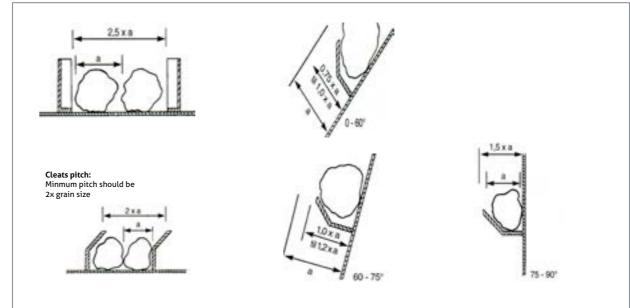


Influence of product/grain size on the cleats.

Cleat gate: Pitch of cleats Useful width: Effective cleat length

Product/grain size relative to angle of elevation Inclination 0°-60°: At least 0.75 - 1.0 x grain size Inclination 60°-75°: Minimum 1.0 - 1.5 x grain size



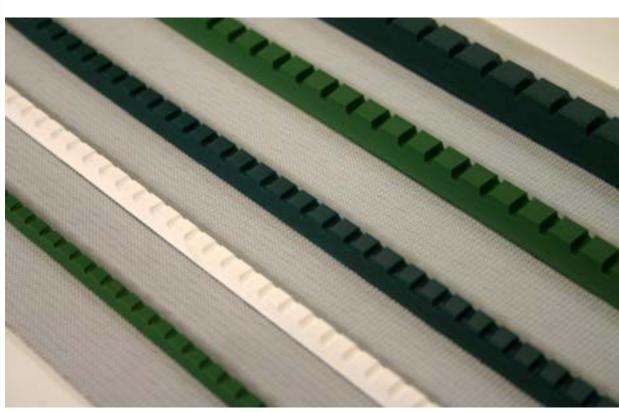


SKANTRACK

Skantrack guide/edge lists are used to control the straight run of belts - or as edge lists to prevent spilling or as cleats. The lists can be vulcanised to both top and bottom cover/fabric. We offer standard V/trapezoidal shape guide profiles with full or Notched profile. We also offer profiles designed for specific applications. We also offer special profiles for specific applications, e.g. chevron pattern, U-shaped or sideways/across for special discharging. These belts are often used in the fruit and vegetables handling sector. When using guide lists, we recommend that the following tolerances are applied.

Guide profiles are recommended for use with short, wide belts.

Roller surface: **Pulley lagging** is another way to control the straight run of belts, as it increases the friction between the pulley and the belt. (better grip – avoid slipping).



Skantrack							
Guide/edge profiles	As cleat/edge profile	As guide profile					
Type (Br x H x D-Br)	Min tromle Ø dia mm	Min Ø dia mm					
K/V 6x4x3	40	30					
K/V 8x5x4	60	60					
K/V10x6x6	80	60/70					
K / V 13 x 8 x 8,5	100	70/80					
K / V 17 x 11 x 9,5	120	90/100					
K / V 22 x 14 x 11,5	130	140					
Special profiles up to 30x16 mm are available – made to order. PU profiles have 10-25 mm smaller diameters.							

Usage of guide lists – tolerances in the pressed out longitudinal grooving in the pulleys.

olerances:

Ca + 3 mm in the bottom and 5 mm on each side of the profile.

SKANFINGER – fingercleats are used within conveying of fragile and wet products e.g. fruits/vegetables. There are 3 types/shapes of finger-cleats, T, C, or TC.

The same principles for inclinations apply for the fingers (same as for cleats) LF/T up to app. 35° , and SF/C and KF/TC above and up to app 75° .

Skanfinger				
Fingercleat height	Foot Ø dia.	Design shape	Pitch mm	Min. Pulley Ø dia mm
LF 50 (T)	23,5	90° straight	27,2	60
LF 65 (T)	24	90° straight	27,2 / 35	75
LF 120 (T)	29	90° straight	35	120
KF 110 (TC)	29	90°/35° straight- angled	35	100
SF 110 (C)	14	60° angled	25/35	100









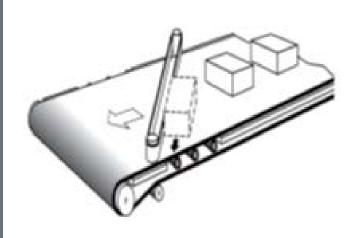
Subject to alterations.

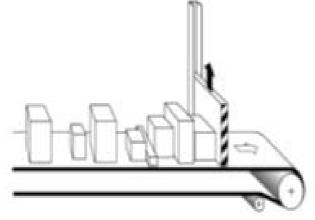
SIDEWAYS DISCHARGING AND ACCUMULATION

When using pushers/diverters, we recommend that the belt has a low-friction cover; either a belt with a high shore A (90) cover or without a cover (using the fabrics - raw or impregnated).

ACCELERATION BELT

When using an acceleration belt, it is often required that the topcover has high friction to ensure that the topcover has high grip to the product (40-65 Sh A hardness).

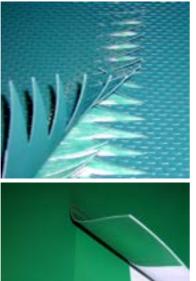




BELT SPLICING / JOINTS - METHODS

Finger splicing (single, double or triple) is the strongest and most flexible method.





SPLICING OF BELTS....continued

Belt fasteners are a fast and easy way to join a belt. They are strong and can be be dismantled/opened when having to service the conveyor or belt (maintenance, cleanin ect.)





Flexible belt fasteners are hot-welded into the ends of the belt and are therefore integrated into the belt fabric.

Belt fasteners are strong and the same thickness as the belt. They are easy and fast to dismantle the belt when/for servicing the conveyor and/or belt (maintenance, repairwork etc.)

We recommend flexible belt fasteners.

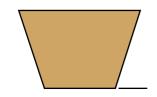


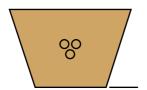
V-SHAPED PROFILES IN PU AND POLYESTER, SHORE A 85/32D, 92 A/40D, A 100/D55

PU Sh 85 A / 32 D					
Туре	WxH	W x H Ø dia mm		Tensioning member, material	Max. working tension
VU 10	10 x 6 mm	63	1,5 - 3,0 %	PU	35
VU 13	13 x 8 mm	80	1,5 - 3,0 %	PU	60
VU 17	17 x 11 mm	100	1,5 - 3,0 %	PU	100
VU 22	22 x 14 mm	140	1,5 - 3,0 %	PU	170
VU PF 10	10 x 6 mm	140	0-5 - 1,0 %	Polyester	85/280
VU FP 17	17 x 11 mm	180	0-5 - 1,0 %	Polyester	100/320
VU FP 22	22 x 14 mm	200	0-5 - 1,0 %	Polyester	170/350

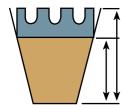
VU 10-22:

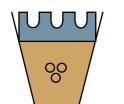
Supergrip/SG profile available in 10, 17 and 22 mm \emptyset dia mm

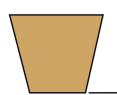




Sh A 100/55 D	Sh A 100/55 D				
Туре	WxH	Ø dia mm	Pre-tension	Tensioning member, material	Мах. working tension
PES H 8	8 x 5 mm	71/80/90	1,5 - 3,0 %	Polyester	45/90/110
PES H 10	10 x 6 mm	90/100/112	1,5 - 3,0 %	Polyester	70/140/170
PES H 13	13 x 8 mm	112/125/140	1,5 - 3,0 %	Polyester	120/240/285
PES H 17	17 x 11 mm	140/160/180	1,5 - 3,0 %	Polyester	210/420/490
PES 20	20 x 12,5 mm	180/200/224	1,5 - 3,0 %	Polyester	290/580/680
PES 22	22 x 14 mm	200/224/250	1,5 - 3,0 %	Polyester	350/700/820
PES 25	25 x 16 mm	224/250/280	1,5 - 3,0 %	Polyester	450/900/1050







PU Sh 85 A / 3	2 D				
Туре	WxH	Ø dia mm	Pre-tension	Tensioning member, material	Max. working tension
PES 8	8 x 5 mm	56/63/71	1,5 - 3,0 %	Polyester	30/45/55
PES 10	10 x 6 mm	71/80/90	1,5 - 3,0 %	Polyester	50/70/85
PES 13	13 x 8 mm	90/100/112	1,5 - 3,0 %	Polyester	80/120/145
PES 17	17 x 11 mm	125/140/160	1,5 - 3,0 %	Polyester	140/210/250
PES 19	19 x 12 mm	140/160/180	1,5 - 3,0 %	Polyester	160/250/300
PES 20	20 x 12,5 mm	140/160/180	1,5 - 3,0 %	Polyester	190/290/350
PES 22	22 x 14 mm	160/180/200	1,5 - 3,0 %	Polyester	230/350/420
PES 25	25 x 16 mm	180/200/224	1,5 - 3,0 %	Polyester	300/450/540
PES 32	32 x 20 mm	224/250/280	1,5 - 3,0 %	Polyester	500/700/900
PES FA 13	13 x 8 mm	140	0,3 - 0,5 %	Aramid	300
PES FP 13	13 x 8 mm	140	0,5 - 1,0 %	Polyester	120/300
PES FA 17	17 x 11 mm	160	0,3 - 0,5 %	Aramid	320
PES FP 17	17 x 11 mm	160	0,5 - 1,0 %	Polyester	210/330
PES FP 22	22 x 14 mm	180	0,5 - 1,0 %	Polyester	380

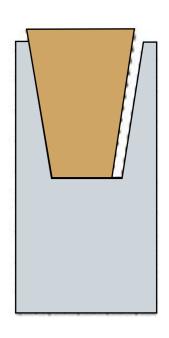




Coefficient of friction/ material hardness	85 Sh	87 Sh A	92 Sh A	100 Sh A
Aluminum	0,65	0,55	0,5	0,4-0,45
Smooth polished PE	0,35	0,3	0,23	0,15-0,2
Polished steel	0,6	0,6	0,45	0,35-0,4
Stainless steel	0,7	0,7	0,55	0,5

When using guidelist, please notice the tolerance recommended for the groove in the pulleys or when used on the outerside of the pulleys.

Distance/tolerances in presset out groove: App +3 mm in the bottom and 5 mm on each side of the profile.



Subject to alterations.

POLYSKAN V & ROUND BELTS

Round and V belts in wear resistant Polyester and PU are available in the following shore A hardness:

85, 87, 92 og 100

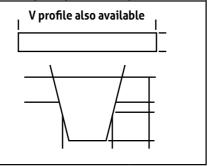
Fast and easy to integrate/charge. Fat/oil and chemical resistant.

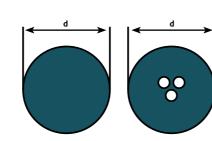
Min. pulleys/disc Ø	mm for ro	ound-belt			Γ
Ø round belt mm	b1 mm	b2 mm	r mm	h mm	
2	4,5	6,5	1,4	2,5	J
3	5,5	8	1,9	3	ļ
4	7	10	2,5	3,5	
5	8	12	3	4	
6	10	14	3,5	5	
6,3	10	14	3,5	5	Ì
7	12	16	4	5,5	J
8	12	16	4,5	6	j
9	14	19	5,5	7	
9,5	14,5	19	5,5	7	
10	15	20	5,5	8	
12	18	22	7	9	Ì
12,5	18,5	23	7	9	J
15	23	27	8	12	
18	27	32	10	14	
20	30	36	11	15	

20		30	36	11 1		15		
Round and	l flat helts							
Туре	Material	Ø dia	mm	Ø dia	a mm	Pre-tension	Tensioning member	Max. working tension
PU 2	PU	2		18		1,5-3%	PU	2
PU 3	PU	3		22		1,5-3%	PU	5
PU 4	PU	4		30		1,5-3%	PU	9,5
PU 5	PU	5		35		1,5-3%	PU	12
PU 6	PU	6		45		1,5-3%	PU	19
PU 6,3	PU	6,3		45		1,5-3%	PU	19
PU 7	PU	7		50		1,5-3%	PU	26
PU 8	PU	8		60		1,5-3%	PU	35
PU 9	PU	9		70		1,5-3%	PU	44
PU 9,5	PU	9,5		70		1,5-3%	PU	48
PU 10	PU	10		70		1,5-3%	PU	53
PU 12	PU	12		90		1,5-3%	PU	80
PU 12,5	PU	12,5		90		1,5-3%	PU	80
PU 15	PU	15		100		1,5-3%	PU	125
PU 18	PU	18		120		1,5-3%	PU	170
PU 20	PU	20		145		1,5-3%	PU	210
PU FP 8	PU	8		100		0,5-1,0 %	Polyester	50
PU FP 10	PU	10		120		0,5-1,0 %	Polyester	75
PU FP 12	PU	12		145		0,5-1,0 %	Polyester	120
PU FP 15	PU	15		160		0,5-1,0 %	Polyester	175
PU FP 15	PU	15		160		0,5-1,0 %	Polyester	175



Flat belts - hard	Flat belts - hard Polyester , Sh A 100 / 55 D							
Type- measurement	Ø dia mm	Pre-tension	Max. working tension					
PES 25x1,0	15	1,5 - 3,0 %	62					
PES 18x1,2	18	1,5 - 3,0 %	54					
PES 25X1,2	25	1,5 - 3,0 %	75					
PES 30x1,2	30	1,5 - 3,0 %	90					
PES 25x1,5	24	1,5 - 3,0 %	90					
PES 50x1,5	24	1,5 - 3,0 %	180					
PES 20x1,7	26	1,5 - 3,0 %	85					
PES 10x1,9	30	1,5 - 3,0 %	47					
PES 15x1,9	30	1,5 - 3,0 %	70					
PES 18x1,9	30	1,5 - 3,0 %	85					
PES 20x1,9	30	1,5 - 3,0 %	95					
PES 25x2,0	30	1,5 - 3,0 %	125					
PES 30x2,0	30	1,5 - 3,0 %	150					
PES 100x2,0	30	1,5 - 3,0 %	500					





Applications:

Machinery for the wood prcessing industry

Tiles and cerimics and stones in general

Glass - many kinds Cans - many kinds

Packing machinery

Driver roller conveyors Textile industry

General conveying of lighter-medium light materials.

Can be used for many purposes either as power transferring item or as a conveyor belt.

Good wear properties.

Low friction properties.

Small drum Ø mm diam. result in small conveyor transitions.











TOOTHED BELTS

Toothed belts made of PU-H with or without reinforcement (steel or Aramid/Kevlar), provided by the metre or as endless woven belts (flex toothed belts). We also supply the following metric pitch:

For a very flexible, all-round solution for conveying and transmission, toothed belts with a hard PU surface are an excellent choice. Positive drive with teeth keep the belts running straight and reduce the risk of ripping as well as other types of damage. Synchronised movement is achieved by simple mechanics, i.e. via the teeth on the toothed belt discs. Low elongation and uniform drive by means of steel- or Kevlar/ Aramid-reinforcements enable belts to run at high speed and with a long service life.

Velocity up to 18 m/s

High degree of transmission force/power - up to 98%

Toothed belts are available for purchase by the metre. We splice belts to measure or can provide endless woven belts with no splice, or molded lengths of belting. We offer many different variants and designs of cleats.

High friction topcovers are available for positioning control of products. Low maintenance

Long service life, uniform thickness

High-efficiency/degree of transmission force/power – up to 98%

Double belts

Special cleats available on request

Properties and advantages

High abrasion- and impact-resistance

Very flexible

Low noise level

Quick to fit and replace

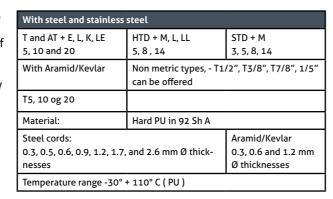
Good chemical resistance (fat, oil, acid, alcohol, ozone, UV, sulphur) Good for small tolerances (lengths – widths)

Engage well with discs even at high speed

Good synchronisation speed

Impervious to moisture/steam

Belts meet DIN 7721 / DIN-ISO 5296 standards



PAR and PAZ coverings are available.

MATERIAL:

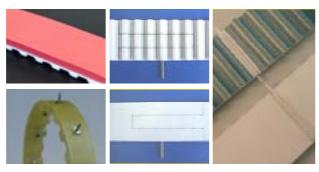
Polyamid available for lower friction.

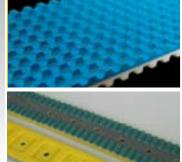
ADVANTAGES:

Better wear resistance against steel, lower noise, accumulation possible.



Coefficient friction values	Steel	Aluminum	Plastic
PAR/PAZ	0.3 - 0.4	0.3 - 0.35	0.18 -0.35
PU - without PAR/PAZ	0.6 - 0.8	0.6 - 0.75	0.25 - 0.5





POSSIBLE TOPCOVER POSSIBILITIES - ON TOOTHED BELTS:

Small nipple in white FDA approved PVC – 65 Sh A – medium friction PU-transparent, app. 80 Sh A (wear resistant) – medium friction PVC – soft app 40 Sh A, petroleum green - high friction Cell rubber - soft - high friction

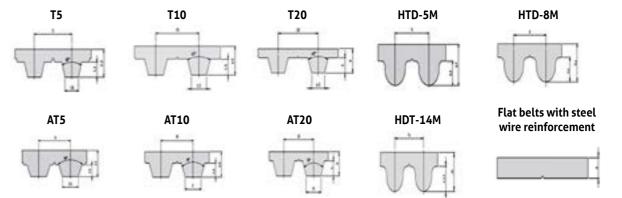
Linatex rubber - good wear resistant - high friction PVC - SG (supergrip profile) soft - high friction Nitrile rubber - wear resistant - high friction PVC - white FDA, 65 SH A - medium friction

PU-soft, yellow - good wear resistance - high friction Elastomer - green - good wear resistance - high friction

Fishbone profile - white FDA app 65 SH A - medium friction PAR - polyamide textile cover - low friction (accumulation possible) PAZ - polyamide textile cover - lower friction - on the toothed side

FDA/EU food complient belts are available





METRIC - TYPE - DESCIPTION - DECODING

25 AT 10/2.500 M/Steel / PAZ

Type decoding 25 AT 10 / 2500 M / Steel / PAZ

Length Pitch

Width

Meter - running/by the meter

Endless woven (V)

Endless joined: (Flex)

Tensioning/power transmission menmber (PU, steel, Aramid/

kevlar)

Topcover coating or profile

Minimum length 500 mm for "by the meter/running meter"
Minimum length 1500 mm for endless made belts (Flex)
Molded endless length available from Ø 300 dia mm

PU cleats - app. 90 Sh A hardness in various designs and height. The required cleat design is decided acc. to the product conveyed, the necessary pitch and pulley Ø diam. etc.



APPLICATIONS EXAMPLES

Parcel/package handling/internal transport

and logistic systems

Food industry - general

Tire and rubber manufacture

Textile industry

Automobile industry

Paper and printing industry

Chemical industry

Tobacco

Packaging material industry

TENSION – AND INSTALLATION

The toothed belts must not be excessively tensioned - that means only to the extend that the belt is having positive drive and conveys the material. Excessive tensioning can cause shorter belt-life.

The teeth must have a positive grip/engagement with the toothed pulley.

Maximum shear between the drive discs is 1.5 mm/mtr.

CABLE PULLING BELTS

We are offering various covers for such belts/applications. The covers are heavy -build and have high friction.



They can be tailor made acc. to the nature and size of the material.

The fabric can be made "endless woven" for maximum belt-strength.



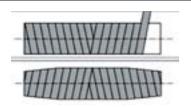
Min. pulley Ø dia mm - foot-width of cleats - mm									
Туре	2	4	6	8	10	11	12	14	16
T5, XL	16	21	39	63	79	95			
T10, AT10, L	49	49	55	78	110	145	190	285	320
T20, AT20	112	112	112	112	112	112	118	175	220
Н	55	55	55	72	100	140	160	245	322
XH	125	125	125	125	125	125	132	210	245
HTD5, STD5	23	23	39	63	79	95			
HTD8, STD8	50	50	60	75	100	126	139	152	
HTD14	122	122	122	122	122	130	130	140	220
PES 15x1,9	30	1.5 - 3.0 %	70	PES 15x1.9	30	1.5 - 3.0 %	70	1.5 - 3.0 %	70

BELT TRACKING



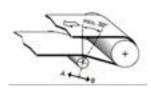
TRACKING VIA CROWNED PULLEYS

If the belt is reversible, we recommend crowning acc. to table page 7 in both ends (drive and end pulleys)



TRACKING VIA PULLEY LAGGING

High friction against the belt increases the grip and thereby facilitates a straight run as the belt will not mistrack/wander off the centerline/pulleys



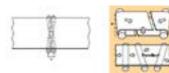
TRACKING VIA SNUB PULLEYS

App. 30° for better arch of contact. Also making the roller- sideways adjustable 8°-10° will increase contact and tracking control



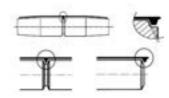
TRACKING VIA ADJUSTABLE ROLLER ON THE RETURN PLIN/SIDE

The rollers should be adjustable 5°-10° (height) and 8°-10° (sideways)



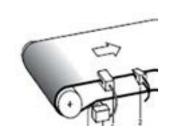
ADJUSTABLE ROLLERS BOTH TOP AND BOTTOM SIDE

Rollers must be sideways adjustable 8°-10° The belt will run toward the first point of contact



GUIDE LISTS

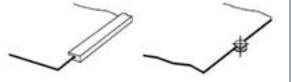
Either vulcanised in the center or on sides. (See chart page 14 - 3 mm and 5 mm tolerance)



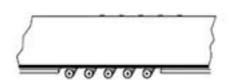
TRACKING VIA SENSORS ON SIDES/EDGES OF THE CONVEYOR AND BELT

Electronic controlled solution

TRACKING VIA EDGE LISTS (METAL/PLASTIC) OR SIDE ROLLS (CONCAVE)



TRACKING VIA FRICTION ROLLS (LAGGED)



POSITIVE DRIVEN BELTS

If a toothed belt is hotvulcanised to the bottom of the belt, it is possible to obtain a positive driven belt; The teeth will engage in the toothed driving/end pulleys thereby avoiding mistracking.

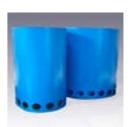




The effect is comparable to molded plastic belts from Volta/Mafdel etc. but with better/lower elongation features

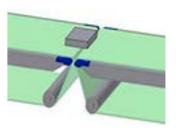
POSITIVE DRIVEN BELTS

By punching/drilling holes in the sides of the belts, a positive drive - on one side or on both sides - can be achieved. The holes can engage in a pulley alike pulleys for modular belting, which suits the holes



KNIFE-EDG

When running belts over knife-edges, it is recommended that 2 pulleys are mounted under the knife-edge to avoid unnessary tension and friction heat build up. If the pulleys are made sideways adjustable it will also help the tracking of the belt



If the conveyor has knife-edges in both ends, it is recommended to install center take-up tension on the returnside

