

STRONGFLEX



Heavy Duty Conveyor Belt →



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Add : No.88 Huaian West Road, Shijiazhuang, Hebei, China

Phone: 0086-311-87187255 / 87663100

Fax: 0086-311-87872393

E-mail: strongflex@yahoo.cn

MSN: strongflex@hotmail.com

Website: www.conveyor-belt.com.cn

www.conveyor-idler.com

www.bandas-transportadoras.com

STEEL CORD CONVEYOR BELT

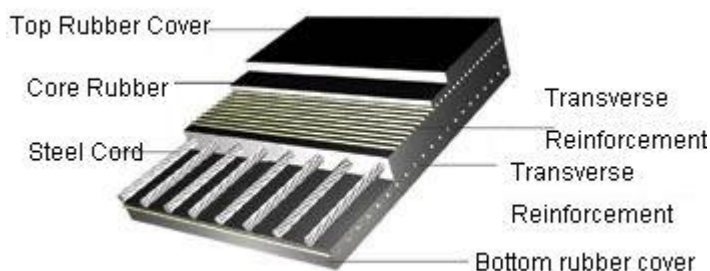
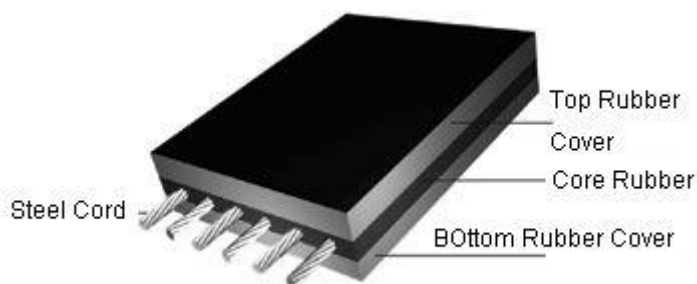
Standards: DIN22131, MT147, MT668, JISK6369, AS1333 etc.

Structure: The belt core is comprised of longitudinally and evenly arranged non-spinning galvanized wire ropes and high adhesive core rubber, with the upper side and lower side covered with rubber layer.

Features: High tensile strength, long service life, short elongation under service, good groove formation property and good anti-flexure property, suitable for conveying materials across long distance, with large volume and high speed.

Types: According to structure: General type, Impact resistance and Rip resistance transverse type. According to application: besides General-used steel cord belt, there are some kinds of Fire-retardant type, Cold-resistant type, Wear-resistant type, Heat-resistant type, Acid and alkaline resistant type, Oil-resistant type, High-grade type and etc.

Model: ST630,ST800,ST1000,ST1250,ST1600,ST2000,ST2500,ST3150,ST3500,ST4000,ST4500,ST5000,ST5400.



TECHNICAL PARAMETERS AS PER DIN22131

	ST1000	ST1250	ST1600	ST2000	ST2500	ST3150	ST3500	ST4000	ST4500	ST5000	ST5400
Longitudinal Tensile Strength (N/mm)	1000	1250	1600	2000	2500	3150	3500	4000	4500	5000	5400
Steel diameter (mm)	4.1	4.9	5.6	5.6	7.2	8.1	8.6	8.9	9.7	10.9	11.3
Space length Between Cords (mm)	12	14	15	12	15	15	15	15	16	17	17
Min. Cover Thickness	4	4	4	4	5	5.5	6	6.5	7	7.5	8
Width item (mm)	Steel cords Number										
500	39	34									
650	51	44	40	51	40	40	40	40	37		
800	64	55	50	64	50	50	50	50	46	43	43
1000	81	69	64	81	64	64	64	64	59	55	55
1200	97	84	77	97	77	77	77	77	71	66	66
1400	114	98	90	114	90	90	90	90	84	78	78
1600	131	112	104	131	104	104	104	104	96	90	90
1800	147	127	117	147	117	117	117	117	109	102	102
2000	164	141	130	164	130	130	130	130	121	113	113
2200	181	155	144	181	144	144	144	144	134	125	125
2400	197	169	157	197	157	157	157	157	146	137	137
2600	214	184	170	214	170	170	170	170	159	149	149
2800	231	198	170	214	170	170	170	170	159	149	149
3000	247	212	197	247	197	197	197	197	184	172	172
3200	264	227	210	264	210	210	210	210	196	184	184

STEEL CORD CONVEYOR BELT

MIN. PULLEY DIAMETER:

Type	St1000	St1250	St1600	St2000	St2500	St3150	St3500	St4000	St4500	St5000	St5400
Min. Pulley Diameter	630	800	1000	1000	1250	1400	1500	1600	1600	1800	1800

ACCORDING TO STANDARDS:

Type	According to Standards
Ultra-high abrasion resistant	Shore abrasion $\leq 70 \text{ mm}^3$
High abrasion resistant	AS1333 A, DIN22131 W, GB9770 D
Impact and abrasion resistant	DIN22131 X Y, AS1333 M N, JIS K6369 D H, GB/T9770 H L
Heat resistant	ISO 4195, HG/T2297, GB/T20021
Flame resistant & Anti static general use	DIN 22131 K
Flame resistant & Anti static for coal mine use	MT 668, MT147, AS1333 F
Oil resistant	HG/T3714
Acid/alkali resistant	HG/T3782
Cold resistant	HG/T3647
Ozone resistant	RMA (ASTM D1171)

COVER RUBBER PROPERTY AND GRADES:

Cover Type	Tensile strength in N/mm^2 min.	Breaking elongation in % min.	Abrasion in mm^3 max
W	18	400	90
X	25	450	120
Y	20	400	150
Z	15	350	250

BELT NOMENCLATURE EXAMPLE:

ST2000-1800-8+6 $\varnothing 5.4$ DIN X

ST: Code of steel cord belt

2000: Tensile strength in warp direction (N/mm)

1800: belt width is 1800mm

6+2: Thickness of top and bottom cover rubber

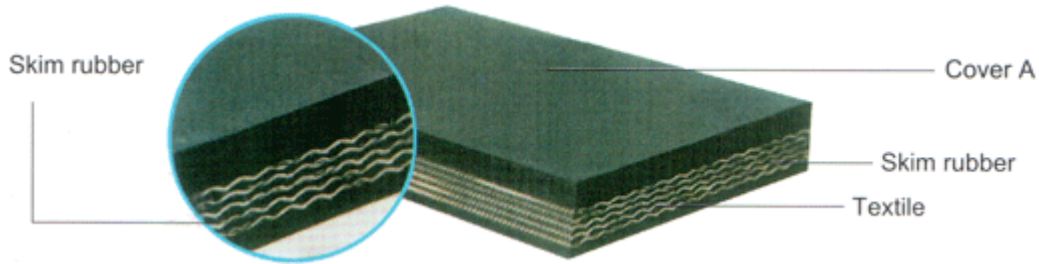
DIN X: Cover rubber grade (According to DIN-X)

ADHESION OF STEEL CORD:

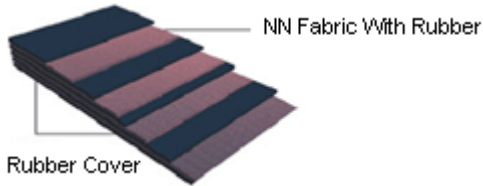
Strength	St1000	St1250	St1600	St2000	St2500	St3150	St3500	St4000	St4500	St5000	St5400
Adhesion N/mm DIN22131-88	80	95	105	105	130	140	145	150	165	175	180



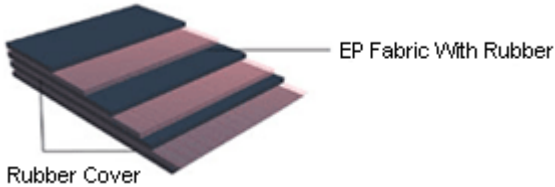
MULTI-PLY FABRIC CONVEYOR BELT



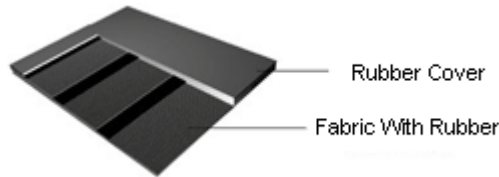
Fabric Conveyor Belts are named according to different carcass: Nylon conveyor belt, EP conveyor belt, Cotton conveyor belt. The following standards are usually applied: GB7984/GB10822, DIN 22102, AS 1332, JISK6322, serving in opening mines, power stations, cement plants, coal mines, ports and metallurgical and chemical industries.



NN BELT: under condition of middle/ long distance. Heavy loading capacity, high speed, strong lash and high vulnerability.



EP BELT: under condition of middle/long distance, heavy loading capacity, high speed conveying, good flexing capacity, trough-ability, heat resistant, low lad elongation.



CC BELT: suitable for middle/ short distance conveying.

TECHNICAL SPECIFICATIONS FOR REFERENCE:

Belt Type	Fabric Type	Single Fabric Strength (N/mm)	Single Fabric Thickness (mm)	Cover Thickness(mm)		Ply	Width Range (mm)	Length(m/Roll)
				Top Rubber	Bottom Rubber			
CC Belt	CC-56	56	1.10	3-16	0-10	3-12	300-7400	20-1000
NN Belt	NN100	100	0.70	3-16	0-10	2-10	300-7200	20-1000
	NN150	150	0.75					
	NN200	200	0.90					
	NN250	250	1.15					
	NN300	300	1.25					
	NN400	400	1.50					
EP Belt	EP100	100	0.75	3-16	0-10	2-8	300-7200	20-1000
	EP150	150	0.85					
	EP200	200	1.00					
	EP250	250	1.20					
	EP300	300	1.35					
	EP350	350	1.50					
	EP400	400	1.65					

MULTI-PLY FABRIC CONVEYOR BELT

BELT NOMENCLATURE EXAMPLE:

EP630/4-1200-6+2 AS M

EP: Basic strength material is EP fabric

630/4: Tensile strength in warp is 630N/mm, with 4 plies EP fabric

1200: belt width is 1200mm

6+2: Thickness of top and bottom cover rubber 6mm, 2mm

AS M: Cover rubber grade (According to AS-M)

ACCORDING TO STANDARDS:

Type	According to Standards
Ultra-high abrasion resistant	Shore abrasion \leq 70mm ³
High abrasion resistant	AS1332 A, DIN22102 W
Impact and abrasion resistant	DIN22102 X Y, AS1332 M N, JIS K6322 A S, GB/T7984 H D
Heat resistant	ISO 4195, HG/T2297, GB/T20021
Flame resistant & Anti static general use	DIN 22102 K
Flame resistant & Anti static for coal mine use	DIN22109 V
Oil resistant	HG/T3714
Acid/alkali resistant	HG/T3782
Cold resistant	HG/T3647
Ozone resistant	RMA (ASTM D1171)

APPLICATION:

Widely used in mining, harbor, coal, metallurgy, chemical etc. field for conveying materials.

Type: Base on the rubber cover, the multi-ply conveyor belt can be clarified as follow: Normal standard, Heat-resistant, Flame-retardant, Abrasion-resistant, Normal fire-resistant, Static-transmission, Acid-alkali resistant, Oil-resistant and Food type .

Type	Feature and application
Conventional	Generally used for powder, grain block material
Oil/fat resistant	Oil, fat material
Acid & alkali resistant	PH4-10 material
Heat resistant	T1 \leq 100 $^{\circ}$ C , T2 \leq 125 $^{\circ}$ C
temperature resistant	T3 \leq 150 $^{\circ}$ C , T4 \leq 180 $^{\circ}$ C , Fire Resistant: 200-600 $^{\circ}$ C
Flame retardant	T3 \leq 150 $^{\circ}$ C, T4 \leq 180 $^{\circ}$ C, Fire Resistant: 200-600 $^{\circ}$ C
Cold resistant	Cold up to -40 $^{\circ}$ C
Abrasion resistant	Anti-shock for shaped material



SOLID WOVEN (PVC/PVG) CONVEYOR BELT

Product Features:

The product consists of solid woven fabric dipped in PVC paste and adding PVC or PVG cover which are combined together by vulcanizing. The belt has good flame resistant and anti-static properties, with high tensile strength in proportion to weight, good integrity and no delimitation, excellent impact and rip resistance. The belt is much suitable to service in the conditions needing fire resistant and antistatic properties as coal mines, power stations, chemical and metallurgy industries.

Note: The following standards are usually applied: DIN22109, AS4606, BS3289, BC158.

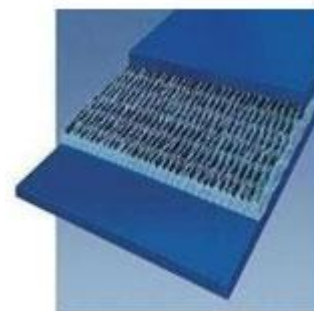
Classification of solid woven belt:

PVC stands for the solid woven belt with PVC cover.

- ✓ **Non pressed PVC type** is suitable for applications in dry conditions at a slope angle of no greater than 16 degrees. The belt is non-pressed with cover no more than 0.8mm.
- ✓ **Pressed PVC type**, both top and bottom covers are PVC, thickness of each side can be up to 4mm, the belt has much more advantages than non pressed PVC belt on impact resistance, water soaking, with longer service life, higher fastener holding.

Features:

- Low stretch
- Low maintenance
- Anti-static
- Flexible
- Lightweight
- Impervious to moisture, acids, oils, gases, sunlight
- Excellent fastener holding
- Excellent resistance to tearing, peeling and impact
- Endless belt splicing
- Special wear resistant edge design

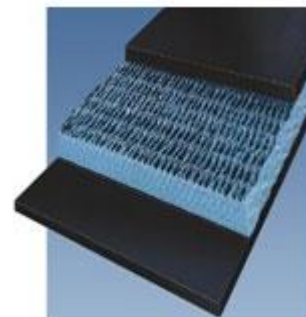


PVG stands for the solid woven belt with PVG cover (Nitrile Rubber)

- ✓ **PVG type** is covered with covers mainly composed of rubber, which further improves the trough-ability, resistance to wetness and slip, resistance to low temperature, elongation and wear resistance of the belt. Both top and bottom cover are PVG, the belt can be used to carry materials mixing some water at the slope no more than 20 degree, elongate life of belt

Characteristics:

- Anti slide caused by wetness good climbing capacity
- Low-temperature resistant
- Good elasticity, anti-impact
- Low elongation at rated load, suitable for long distance conveying
- Tear resistant, good flexing capacity
- Long service life



ACCORDING TO STANDARDS:

Item	Min. Tensile strength(N/mm)		Carcass thickness (mm)	Carcass weight (Kg/m ²)	Cover grade and recommended thickness(mm)		Belt width (mm)	Recommended min pulley diameter(mm)
	Warp	Weft			Pressed PVC	PVG		
680/1	680	265	6.5	8.5	1.5+1.5	1.5+1.5	500-2200	400
800/1	800	320	6.9	9	1.5+1.5	1.5+1.5		500
1000/1	1000	350	7.5	9.7	2+1.5	2+1.5		630
1250/1	1250	350	8.5	11	2+2	2+1.5		750
1400/1	1400	350	9	11.5	3+2	2.5+1.5		750
1600/1	1600	450	9.5	12.3	3+2	2.5+1.5		800
1800/1	1800	450	10	13	3+2	3+2		800
2000/1	2000	450	10.5	13.6	3+2	4+2		1000
2500/1	2500	450	12.5	14.5	3+2	5+3		1200
3100/1	3100	450	17	17	Chosen based on conveyor systems			1500
3500/1	3500	500	20	19				
4000/1	4000	500	25	22				

CORRUGATED SIDEWALL CONVEYOR BELT

Feature:

Corrugated sidewall conveyor belt is one of the most effective ways of elevating materials in a confined space. The economy is achieved by single belt operation, wide range material can be handled, less space requirement, no transfer point, low maintenance and big capacity. Corrugated sidewall belt can be designed into a set of complete transportation system according to application.

Base Belt Structure:

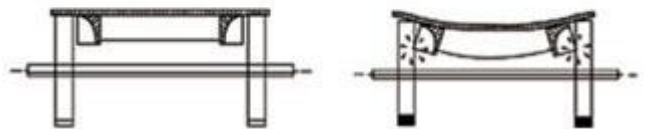
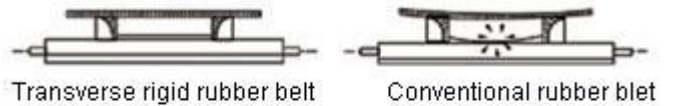
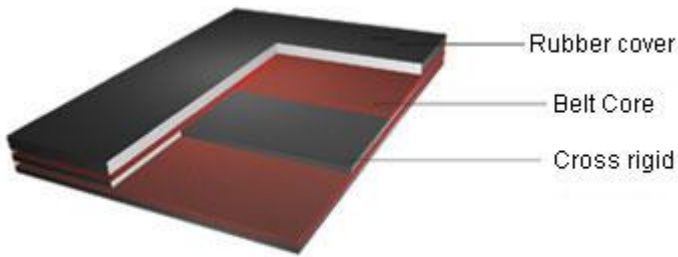
Four parts: Top cover rubber; Bottom cover rubber; Reinforced core; Cross rigid.

Thickness of top cover rubber: 3-6mm;

Thickness of bottom cover rubber: 1.5-4.5mm.

Belt core: Cotton, Nylon, EP or Steel Cord

The Width is the same as normal belt. The standard meets with GB/T7984-2001.



XST-SC



XE-SC+2



XE+2



XE

Cleat:

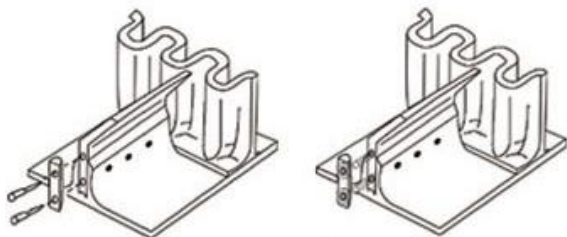
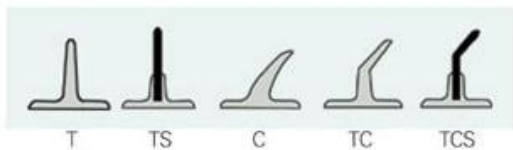
Cleat types: T, TS, C, TC and TCS

The cleat is made of enforced fabric, solid, anti-shock to avoid distortion.

"TS" and "TCS" cleat are normally used for abrasion condition.

"T" and "TS" cleat are normally used up to 40°,

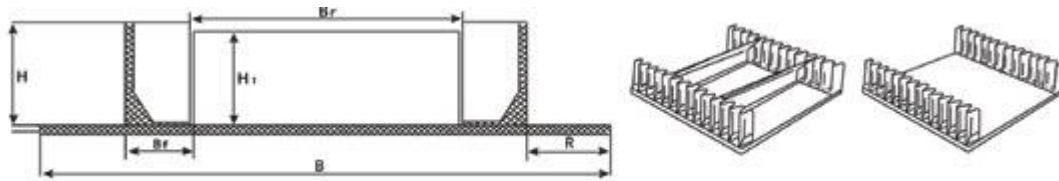
"TC" and "TCS" are normally used from 40° to 90°.



Type	N					S				ES				
Sidewall														
Height	40	60	80	100	120	120	160	200	240	300	400	500	630	
Structure														
Type	TC					TC				TC				
Height	35	55	75	90	110	110	140	180	220	280				
Structure														
Type	T					T				TS				
Height	35	55	75	90	110	110	140	180	220	280	360	460	580	
Structure														
Type	C					C				TCS				
Height	55	75	90	110	110			180	220	280	360	460	580	

Not-standard of sidewall: S136 S220 S270 S360

CORRUGATED SIDEWALL CONVEYOR BELT



Base Belt Width (mm)	Sidewall Height (mm)	Cleat height H1(mm)	BF(mm)	Br(mm)	R(mm)
300	40	35	25	180	35
	60	55	50	120	40
	80	75			
400	60	55	50	180	60
	80	75			
	100	90			
500	80	75	50	250	75
	100	90			
	120	110			
650	100	90	50	350	100
	120	110			
	160	140	75	300	120
800	120	110	50	460	
	160	140			
	200	180	75	410	
1000	160	140	75	550	150
	200	280			
	240	220			
1200	160	140	75	690	180
	200	180			
	240	220	105	630	
	300	280			
1400	200	180	75	830	210
	240	220			
	300	280	105	770	
	400	360			
1600	200	180	75	970	240
	240	220			
	300	280	105	910	
	400	360			
1800	240	220	75	1110	270
	300	280			
	400	360	105	1050	
	500	460			



CHEVRON CONVEYOR BELT

Chevron conveyor belt is composed of belt carcass and pattern, Pattern shape and height (depth) may be different, because of different conveyed material and gradient of conveyor. On surface of the belt, there is chevron pattern higher than the belt body. The pattern may be either open-end or closed. Each kind of pattern includes three types of high, medium and low. It can convey powered, granulated and small lump materials. It can also convey packaged materials. We can produce all kinds chevron conveyor belt according you need.

Feature:

Suitable for bulk material packed in bag conveying up to 45° , slide resistant and high conveying capacity.

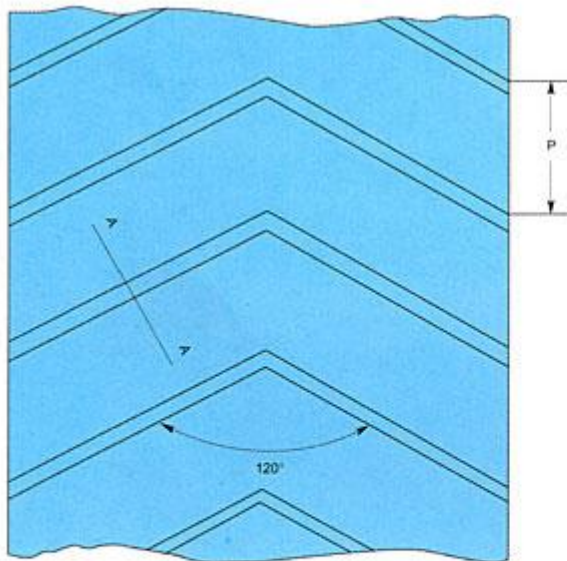
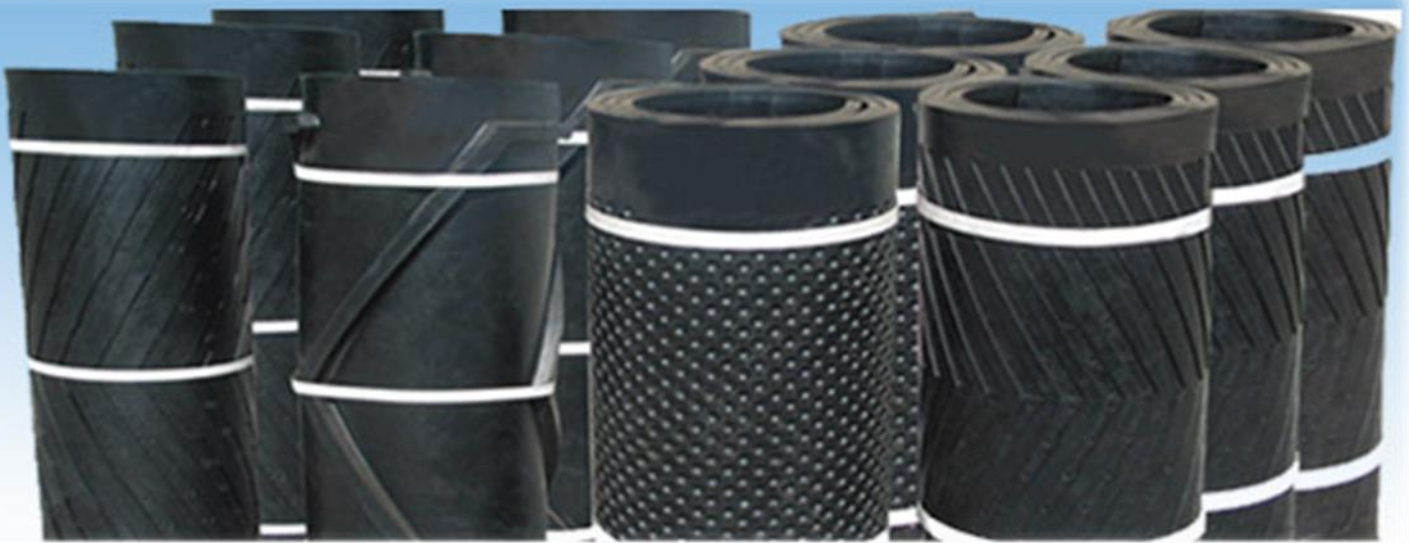
Format:

Chevron shape, cleat shape, U shape, herringbone shape, cylinder pattern

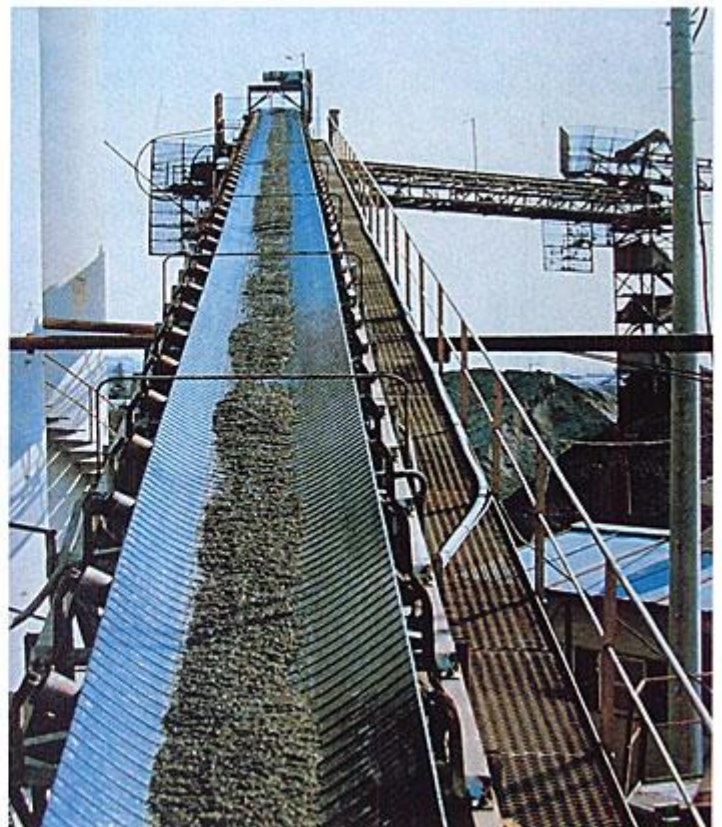
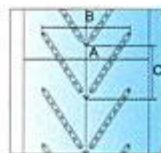
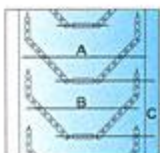
Width of Belt: 300 (mm)—2200 (mm)

Height of Pattern: 5, 10, 15, 20, 25, 30 (mm)

Pattern Pitch: 125, 200, 250, 330, 400, 500 (mm)



A-A 截面图





Configuration

Elevator-bucket belt is composed of rubber belt and elevator-bucket. The core of belt has two kinds of structure fabric core and steel cord, which can be used for vertical elevated conveying. The requirements need the belt with high strength and low elongation, thus the elevator-bucket belt uses steel cords or polyester (polyester fiber) canvas as strength ply of belt.

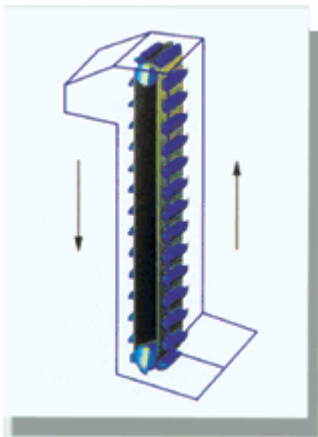
Application:

Suitable for conveying material vertically, widely used in building, mining, chemical, light industry, power station and grain etc, field.

Feature:

Low elongation, great conveying capacity, steady running, convenient maintenance, suitable for conveying bulk material

Belt Type	Belt Type	Fabric Type	Cover Thickness (mm)		Width Range(mm)
			Top Rubber	Bottom Rubber	
Belt type	Cotton canvas belt	CC-56	1.5 3.0	1.5 3.0	300-2200
	Nylon belt	NN100-EP400			300-2200
	EP belt	EP100-EP400			300-2200
Belt type	Cotton canvas belt	CC-56	4.5 6.0	4.5 6.0	300-2200
	Nylon belt	NN100-NN400			
	EP belt	EP100-EP400			
	Steel cord conveyor belt	ST630-ST5000			

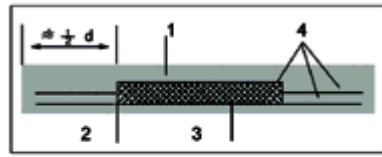


The belt is made of either anti-tearing EP canvas or steel core as center material with anti-tearing rubber cover, good application capability, steady running, low maintenance



Bucket Elevator Splicing Kits

PIPE CONVEYOR BELT



Belt Structure



Pipe Type

Structure : 1: Top Rubber Cover. 2: Middle Rubber. 3: Bottom Rubber Cover. 4: Carcass

The basic strength material is single or multi plied textile, special design is applied on the belt edges, that enables the belt have proper lateral stiffness to form the pipe shape indefatigably. The belt is in pipe shape to carry materials that can protect the materials, serving in many cement plants, ports, power stations, fertilizer plants.

Nominal pipe dia.	Width	Size of overlap	Actual pipe dia.	Loading area at 70%	Capability at speed 2m/s	Lump size (Max.)
100	430	115	100.27	0.005	40	40
150	600	129	143.24	0.011	81	80
200	750	122	186.21	0.019	137	100
250	1000	215	279.18	0.028	208	130
300	1100	158	286.48	0.045	325	150
350	1300	201	343.77	0.064	468	180
400	1500	244	401.07	0.088	637	200
450	1650	237	458.37	0.115	832	220
500	1900	330	507.5	0.145	850	230
600	2250	366	609	0.205	1020	250



Features:

- 1) Suitable rigidity, flexibility, be keeping stable circle.
- 2) Good sealing at connection point, fatigue resistant, abrasion resistant, stable conveying.
- 3) Close conveying, no spillage, no dust.
- 4) Bending, steep angle, reverse conveying.



Applications :

Widely used in material conveying in mining, power, building material and chemical industry

STANDARDS AND COVER RUBBER GRADE

GENERAL PURPOSE BELTS:

Cover Type	Standard & Grade	Minimum Tensile Strength (Mpa.)	Minimum Elongation At Break (%)	Maximum Abrasion Loss (mm)	Application Characteristics	Reference Material
General	DIN -X	25	450	120	It has high tensile strength. Suitable for conveying large lumps, sharp edged rugged materials	Iron Ore, coal, Lignite, Copper Ore, Limestone, Blast Furnace, Slag, Stone, Rock etc.
	AS-M	24	450	125		
	IS-M-24	24	450	150		
	BS-M24	24	450	150		
	SANS-M	24	450	120		
	SANS-N	20	400	150	Suitable for conveying moderately abrasive material	Sand, Cement, Slaked Lime, Wood Chips, Pulp (Dry)
	DIN-Y	20	400	150		
	AS-N	17	400	150		
	IS-N 17	17	400	200		
	BS-N 17	17	400	150		
	RMA 1	17	450	150		
	JIS-S	18	450	200		
High & Super Abrasion Resistant	DIN-W	18	400	90	Super Resistant Belt suitable for conveying high abrasive material	Lime Stone, Metal Ore, Stag, Iron, Glass etc
	AS-A	17	400	70		

HEAT RESISTANT BELTS:

Cover Type	Standard & Grade	Minimum Tensile Strength (Mpa.)	Minimum Elongation At Break (%)	Maximum Abrasion Loss (mm)	Maximum Temperature	Reference Material
Heat Resistant	DIN -T	13.0	350	150	Upto125 Coarse material and 100 °C for fines	Hot Coke, Foundry Sand, Iron Pellets, Sintered ore, Hot lime stone, Cement Clinker and Soda Ash
	IS-HR(T1)	13.0	350	150		
	DIN-T	12.5	350	180	Upto150 Coarse material and 125°C for fines	
	IS-HR(T2)	12.5	350	180		
	ORIL-UHR (T3)EPDM rubber based	10	300	200	Upto200 Coarse material and 180°C for fines	

FIRE RESISTANT CONVEYOR BELT

Cover Type	Standard & Grade	Minimum Tensile Strength (Mpa.)	Minimum Elongation At Break (%)	Maximum Abrasion Loss (mm)	Application Characteristics	Reference Material
Fire Resistant	SANS-F	17	350	180	Excellent resistance to flame Propagation and has very low burning rate.	Materials with fire hazards ,e.g. coal
	ISO-340	17	350	180		
	DIN-S	17	350	180		
	DIN-K	17	350	180		
	AS-F	14	300	200	Good Resistance to flame propagation and has low burning rate	
	CAN/CSA	17	350	200		
	Type-C					
	IS-FR	17	350	200		
	MSHA	17	350	200		

STRONGFLEX

Add : No.88 Huaian West Road, Shijiazhuang, Hebei, China

Phone: 0086-311-87187255 / 87663100

Fax: 0086-311-87872393

E-mail: strongflex@yahoo.cn

MSN: strongflex@hotmail.com

Website: www.conveyor-belt.com.cn

www.conveyor-idler.com

www.bandas-transportadoras.com

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