

Conveyor belt Catalogue

Lixian Huadu Rubber Belts Co., Ltd.



Multi-Ply Conveyor Belt



Products Information

Products	Application groups
(1) Belt tensile strength : 100~2000(kN/m)	(1) General Purpose (7) Anti-Static
(2) Belt width : 300~2200mm	(2) Abrasion Resistance
(3) Minimum length : 50m	(3) Heat Resistance
	(4) Oil Resistance
	(5) Fire Resistance
	(6) Chemical Resistance

Material Quality

Nylon (NN)

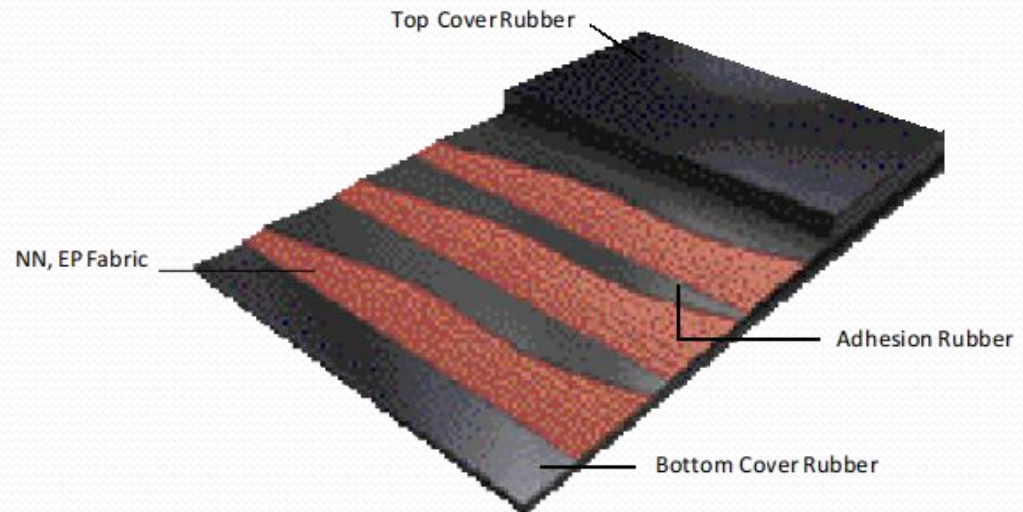
- Highly flexible.
- Highly resistant against impact.
- Highly bendable.

Polyester (EP)

- Less elongation.
- Less deformed by heat.
- Less affected by moisture.

Cotton (CC56)

- Good Price.





Cover rubber grade	8MPA,10MPA, 12MPA,15MPA,18MPA,20MAP,24MAP
Belt Width(mm)	500,600,650,700,800,1000,1200,1400,1500,1800,2000,2200,2400
Tensile strength	EP100, EP125, EP150, EP200, EP300, EP400 NN100, NN125, NN150, NN200, NN300, NN400
Top+Bottom thickness	3+1.5, 4+2, 4+1.5, 4+3, 5+1.5
Belt thickness	3mm,4mm,5mm,6mm,7mm,8mm,9mm,10mm,12mm,15mm,20mm,25mm
Belt length	10m,20m,50m,100m,200m,250m,300m,500m, customized
Belt edge type	moulded(sealed) edge or cut edge



JIS

Standard			JIS-P	JIS-G	JIS-S	JIS-A	JIS-L	JIS-D	JIS-H
Tensile test	Before Aging	Tensile Strength (MPa)	>8	>14	>18	>14	>15	>18	>24
		Elongation(%)	>300	>400	>450	>400	>350	>400	>450
	After Aging	Change rate of TS(%)	±40	±30	±25	±25	±25	±25	±25
		Change rate of EL(%)	±40	±30	±25	±25	±25	±25	±25
Abrasion test (mm ³)			<400	<250	<200	<150	<200	<100	<120
Ozone test			No Crack		No Crack				



DIN

Standard			DIN-W	DIN-X	DIN-Y	DIN-Z
Tensile test	Before Aging	Tensile Strength (MPa)	>18	>25	>20	>15
		Elongation(%)	>400	>450	>400	>350
	After Aging	Change rate of TS(%)	±25	±25	±25	±25
		Change rate of EL(%)	±25	±25	±25	±25
Abrasion test (mm ³)			<90	<120	<150	<250

RMA

Standard			RMA-1	RMA-2
Tensile test	Before Aging	Tensile Strength (MPa)	>25	>18
		Elongation(%)	>450	>400
	After Aging	Change rate of TS(%)	±25	±25
		Change rate of EL(%)	±25	±25
Abrasion test (mm ³)			<125	<200

AS

Standard			AS-N	AS-M	AS-A
Tensile test	Before Aging	Tensile Strength (MPa)	>17	>24	>17
		Elongation(%)	>400	>450	>400
	After Aging	Change rate of TS(%)	±20	±20	±20
		Change rate of EL(%)	±20	±20	±20
Abrasion test (mm ³)			<200	<125	<70

BS

Standard			BS-N17	BS-M24
Tensile test	Before Aging	Tensile Strength (MPa)	>17	>24
		Elongation(%)	>400	>450
	After Aging	Change rate of TS(%)	±25	±25
		Change rate of EL(%)	±25	±25

Heat Resistant Conveyor Belt

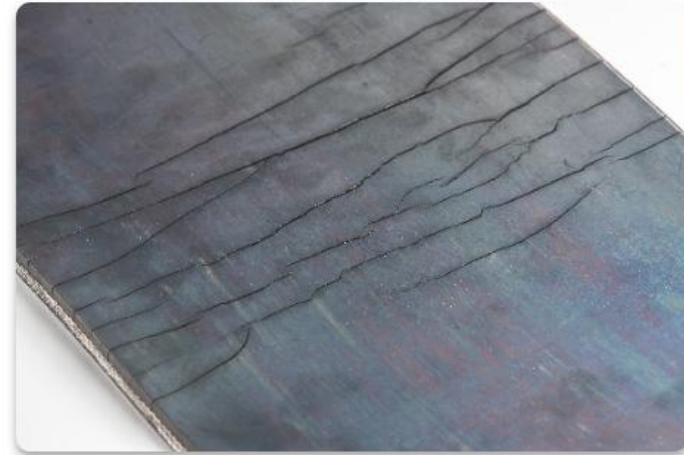


▶ Products Information

Heat resistant conveyor belt is made of the multi-ply rubber polyester cotton canvas covered with the high temperature or heat resistant rubbers, and it is applicable to conveying of the coke, cement, clinker and hot casting etc.

▶ Applicable

These heat resistant conveyor belts are well-suited for heat resistance applications, where the temperature of conveyed materials is over 80°C. Heat resistant conveyor belt is applicable to conveying of the coke, cement, clinker and hot casting etc. These Heat Resistant Conveyor Belt are also resistant to oils and minerals. Our range of Heat Resistant Conveyor Belt is made from optimum raw materials to assure high durability.



BELT CRACKING CAUSED BY
INSUFFICIENT RESISTANCE TO HEAT



▶ Types of Heat resistant conveyor belt

T1: Working Temperature 100°C, short up to 120°C

T2: Working Temperature 120°C, short up to 140°C

T3: Working Temperature 150°C, short up to 180°C

T4: Working Temperature 180°C, short up to 400°C

T5: Working Temperature 240°C, short up to 800°C

FLAME Resistant Conveyor Belt PVC and PVG



► Applicable

In underground mining and especially when it comes to coal mining, the solid woven belts are commonly used. We Industries provides PVC solid woven belts and PVG solid woven belts for sale.

► Products Information

PVC Type conveyor belt's top and bottom layers are PVC coating cover, Single-sided tape thickness $\geq 1.0\text{mm}$, inclined angel: $< 16^\circ$. Solid woven PVC conveyor belts are very suitable for use in coal mines, power stations, chemical and metallurgical industries and other conditions that require fire resistance and antistatic properties.

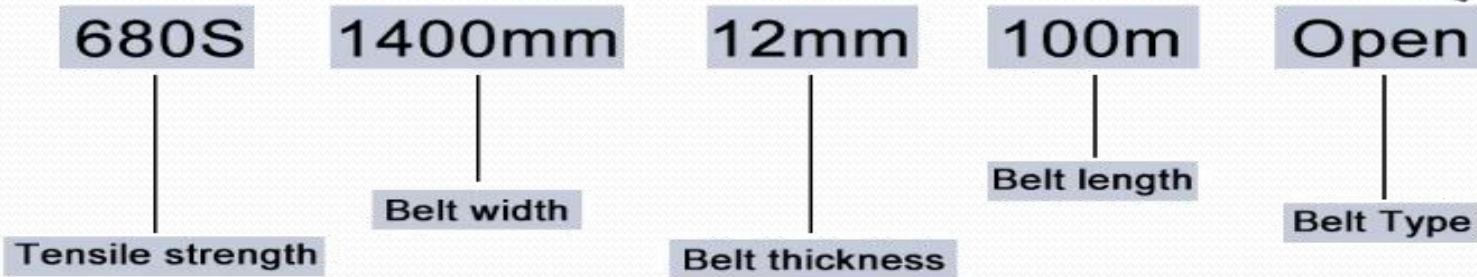


► Tech Datasheet

Applicable standard MT914-2008						Safety factor 10 (tensile strength*1/10)
Type	Grade	transporting angle $< 16^\circ$				Recommended minimum transmission drum diameter
		Tensile strength \geq , N/mm		Breaking elongation \geq , %		
		longitudinal	transverse	longitudinal	transverse	
680S	4	680	265	15	18	320
800S	5	800	280			400
1000S	6	1000	300			500
1250S	7	1250	350			500
1400S	8	1400	350			630
1600S	9	1600	400			750

Products Information

PVG Type conveyor belt's upper and lower layers are nitrile rubber and PVC, which have the feature of TPE, single-sided tape thickness: 1mm-3mm, inclined angel:<20°. PVG Solid woven conveyor belts are used to transport oily products, grains, feed, fertilizers and agricultural products.



Tech Datasheet

Applicable standard MT914-2008 BS3289 HG2805

Safety factor 10
(tensile strength*1/10)

Type	Grade	transporting angle <16°				Recommended minimum transmission drum diameter
		Tensile strength ≥, N/mm		Breaking elongation ≥, %		
		longitudinal	transverse	longitudinal	transverse	
680S	4	680	265	15	18	400
800S	5	800	280			500
1000S	6	1000	300			630
1250S	7	1250	350			750
1400S	8	1400	350			750
1600S	9	1600	400			800

Oil Resistant Conveyor Belt



► Products Information

Oil resistant conveyor belt is used in greasy situation, conveying oily materials such as mineral oil, vegetable oil, animal oil, organic solvent in food processing plants or chemical factories.

► Technical date

After the aging test(70C*168h). at cover rubber rate of "tensile strength at breaking" and "elongation at breaking" the value change is not over 25% than before.

Grade	Breaking Strength (Mpa)	Elongation At Break (%)	Abrasion (mm3)
L	≥14.0	≥350	≤200
D	≥116.0	≥350	≤160

Note: L---Under the general oil resistant condition;
D----Under the high abrasion and oil resistant condition.



► Option

Meet standard MOR (medium oil resistant) , OR (oil resistant)

1.MOR belt only require certain oil resistance grade.

2.OR belts are used in situation which require a very high oil resistance grade

Oil Resistance Technical Date

Type	Operating Temperature	Suitable Oil Type	Oil Resistance Data(72 hrs)
MOR	-30°C-70°C	Mineral oil, organic solvent	distensibility ≤20%
OR	-30°C-70°C	Vegetable oil, animal fat	distensibility ≤5%

Acid and Alkali Resistant Conveyor Belt



▶ Products Information

Chemical Resistant Conveyor Belt is specially designed, which makes it highly resistant from acids and alkali high concentrations of various chemicals.

▶ Applicable

Chemical Resistant Conveyor belting solutions delivered feature use of superior rubber cover that is made from chemical resistant material and has fine anti-chemical corrosiveness. Also featuring optimum physical properties, these beltings are developed using materials that do not dissolve, expand as well as corrode the belt, thus making these suitable for conveying material with chemical corrosiveness in Chemical factory, Chemical fertilizer factory, Paper mills, Belting for Mining Industry, Fertilizer industry, Cement Industry, Belting In other areas requiring conveying of acid/alkali-forming materials.



Acid / Alkali Resistance Performance (Chemical Resistant Conveyor Belt) Specifications

Item		Mpa	Elongation at break /% =	Abrasion /mm ³ =	Hardness /(o)+10-5	Ozone deterioration	
Acid and alkali resistance cover rubber	Physical property	Before aging	14	400	250	60	No Cracks
		After aging	12	340	-	65	-
Acid and alkali resistance	Acid and alkali resistance	Class	Soak liquid	Density	Soak conditions	Change rate before and after soak	
					°C x h	Swelling rate	Change rate of tensile strength
		A1	HCL	10%	50°C x 96h	0.1	-0.1
		A2	H2SO4	50%	50°C x 96h	0.1	-0.1
	A3	NaOH	48%	50°C x 96h	0.1	-0.1	

Chevron Conveyor Belt



Products Information

Chevron conveyor belt is composed of belt carcass and pattern. Chevron shape and height (depth) may be different because of different conveyor material and gradient of conveyor. we can supply diamond, chevron, fishbone, herringbone, v6, U, and v patterned conveyor rubber belt for our customers.



Applicable

- Ports and transshipment operations
- Wood industry
- Smelteries
- Coal-fired power plants
- Coal industry
- Agriculture
- Recycling industry
- Sand and gravel industry
- Stone quarries
- Cement plants



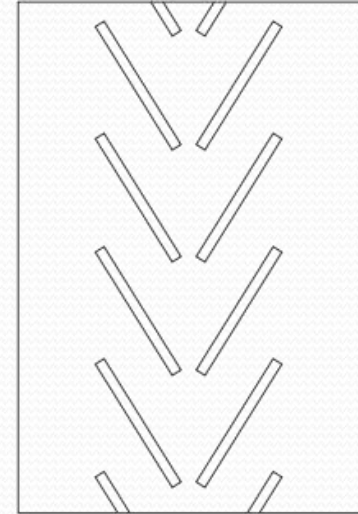
Type V3, V5, V6 and V10

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
chevron type V3			
3	600	100	600 – 800
chevron type V5			
5	620	100	620 – 820
5	300 – 1200	100	300 – 1200
chevron type V6			
6	500 – 1000	80	500 – 1200
6	500 – 1200	150	500 – 1200
6	650	100	650 – 900
6	1000	100	1000 – 1200
6	1200	100	1200 – 1600
chevron type V10			
10	600 – 1400	76	600 – 1400



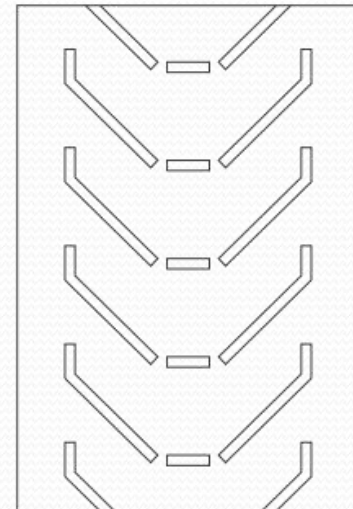
Type V15 – standard open

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
15	300	146	400 – 550
	380	250	450 – 850
	385	250	400 – 1000
	450	225	600 – 650
	600	328	700 – 1200
	600	250	650 – 1000
	750	250	800 - 1200



Type C15 – standard

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
15	500	340	550 - 800

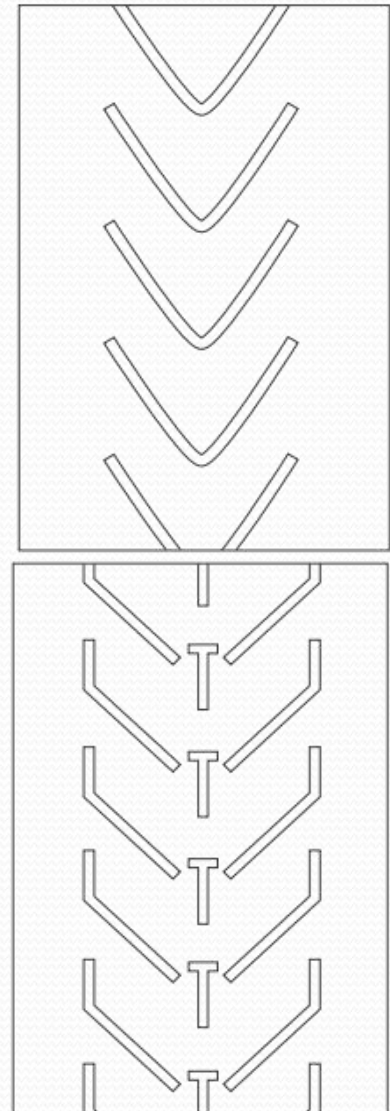


Type V15 – standard closed

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
15	330	250	400 – 800
	450	300	500 - 1000

Type CT25

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
25	450	250	500 – 800
	550	250	600 – 1200
	450	330	600 – 800
	550	330	600 – 800

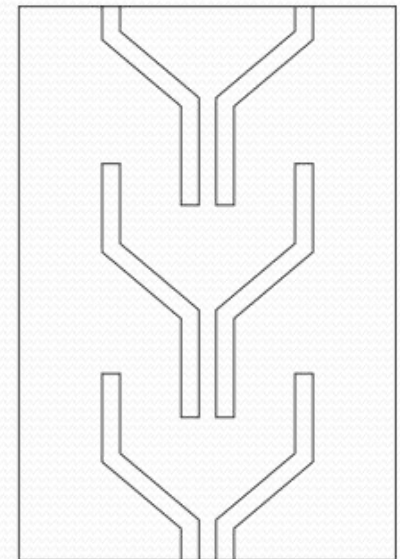


Type V15 – wide

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
15	300 - 1200	125	300 - 1200

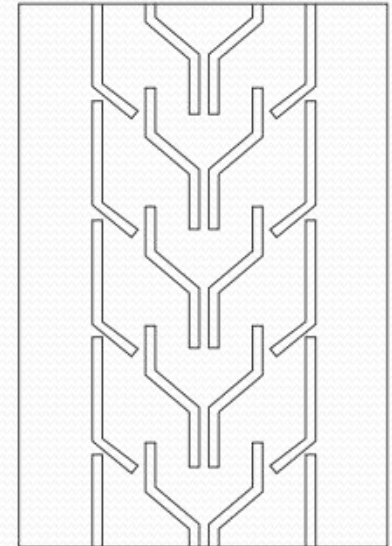
Typ Y17

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
17	300	330	400 – 800



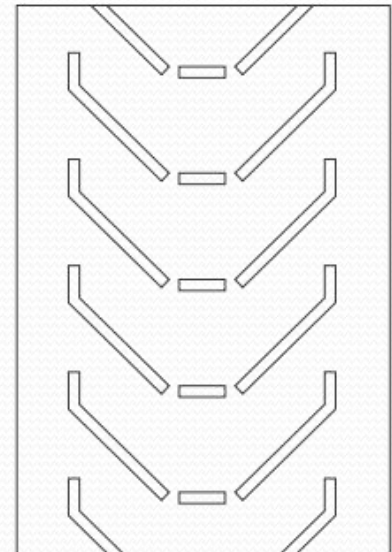
Typ Y17

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
17	440	330	500 – 1000
	550	330	600 – 1000
	630	330	700 – 1000
	750	330	850 – 1200
	950	330	1050 - 1400



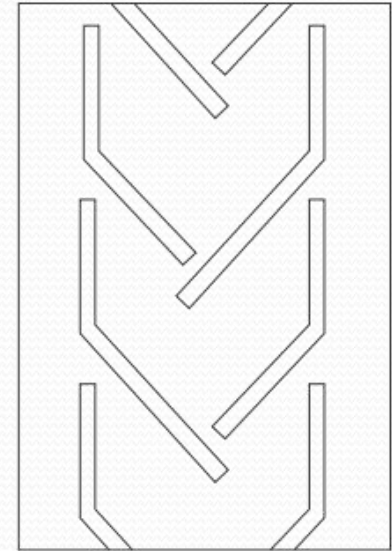
Type C25

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
25	450	330	500 – 1000
	550	330	600 – 1000
	750	330	850 – 1200



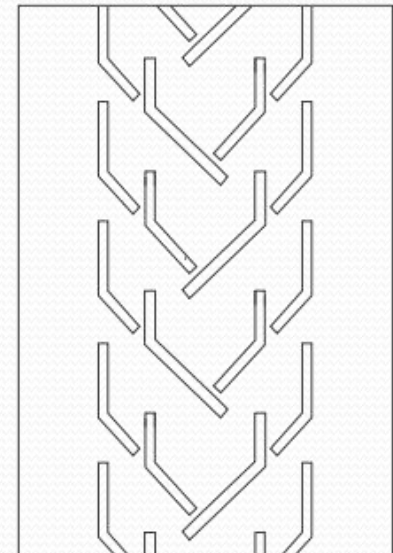
Type C32 – slim

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
32	460	330	550 - 1000



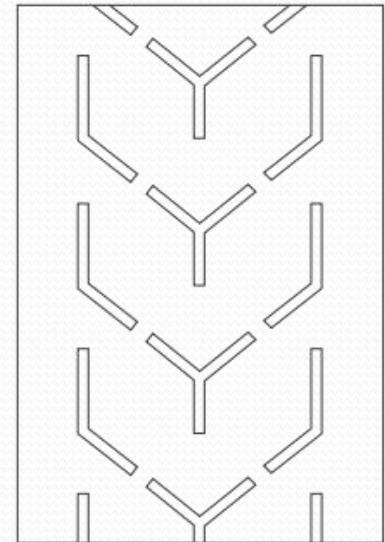
Type C32

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
32	580	330	600 – 800
	630	330	650 – 900
	750	330	850 - 1400



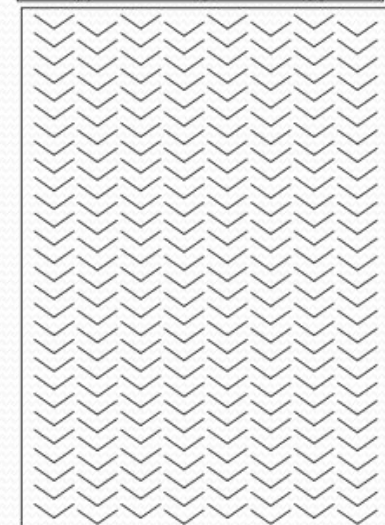
Type Y32

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
32	450	255	500 - 800
	600	330	700 - 1000
	800	330	900 - 1200



Type Multi-V6

height of chevron (mm)	width of chevron (mm)	dist. betw. chev. (mm)	width of belt (mm)
6	600 - 1400	76	600 - 1400



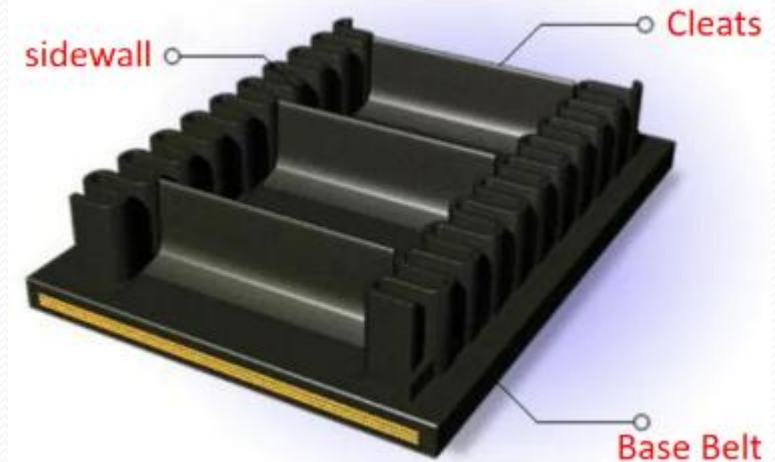
Corrugated Sidewall Conveyor Belt

► Products Information

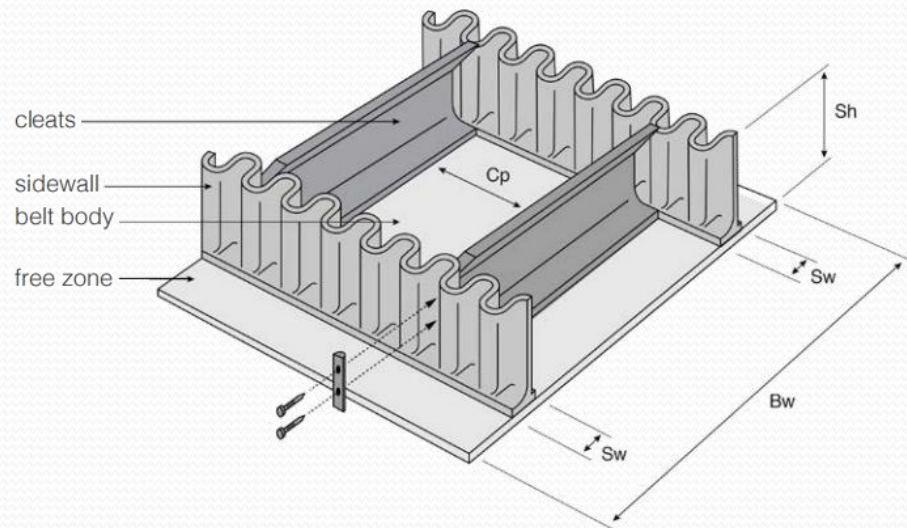
Sidewall Conveyor Belt

--Sidewall conveyor belt is composed of three parts: sidewall, cleats, base belt.

-- Special treated steel mesh inserted into both top cover and bottom cover, creating an excellent combination of longitudinal flexibility and transverse rigidity.



Belt model







Sh = sidewall height
Bw = belt width
Cp = cleats pitch
Sw = sidewall-foot with



Technical data sidewall

model	type	height (Sh)	sidewall-foot width (Sw)	pitch (P)	weight (kg/m)
	standard	40	30	25	0,58
		60	50	40	1,55
		80			1,82
		100			2,20
		120			2,65
	textile reinforced	120			75
		160	4,76		
		200	6,45		
		240	7,50		
		250	6,37		
		280	8,90		
		300	9,33		
	HD	300	100	83	12,10
		400			18,72
500		16,80			

Technical data cleats

model	type	height (mm)	foot width (mm)
 C	C55	55	75
	C75	75	90
	C90	90	110
	C110	110	110
 T	T40	40	70
	T55	55	80
	T75	75	100
	T90	90	110
	T110	110	110
	T140	140	160
	T180	180	160
 TC	TC75	75	85
	TC90	90	110
	TC110	110	110
	TC140	140	150
	TC180	180	150
	TC230	230	160
	TC280	280	160
 TCS	TCS230	230	105
	TCS280	280	105
	TCS360	360	200
	TCS470	470	200

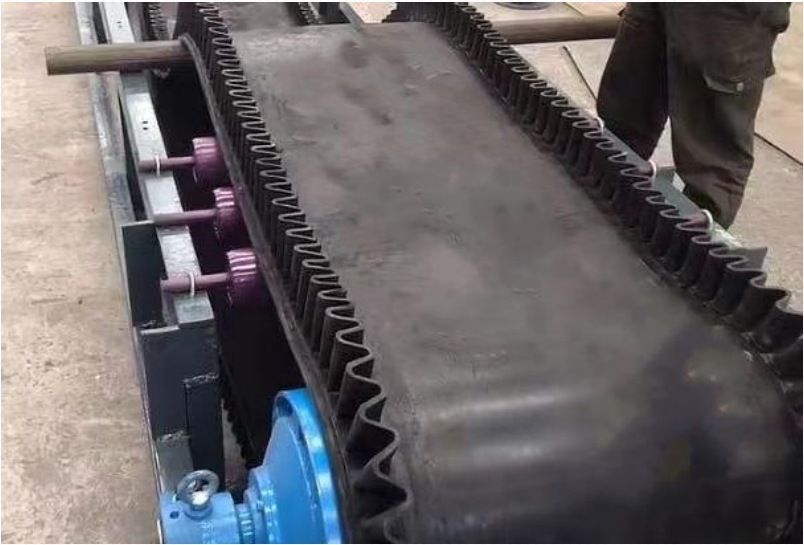
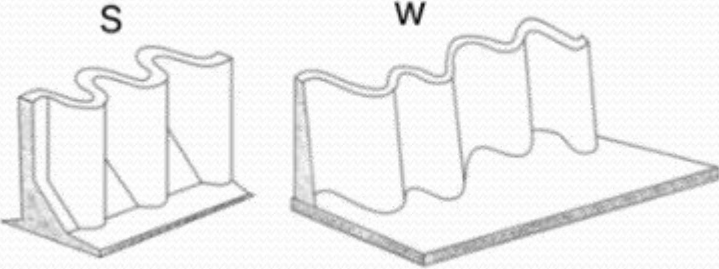
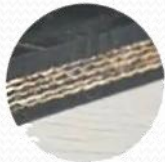
Sidewall Conveyor Belt Without Cleats



▶ Products Information

- 1. Belt Core material: CC56; NN; EP; ST
- 2. Width: 300-2400mm
- 3. Ply: 2-10
- 3. Core rubber:
 - top cover: 1.5-10mm
 - bottom cover: 1.5-10mm

▶ Sidewall type



Steel Cord Conveyor Belt



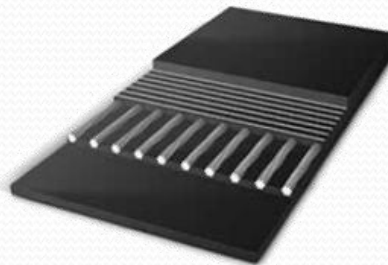
Products Information

Steel cord conveyor belts have proved to be a very reliable and cost-efficient mode of bulk material handling in long distance conveyors. we provide transverse reinforcement and, embedded sensor coil and normal type steel cord belt conveyor belt.

- (1) Belt elongation: ST500~ST5000(kN/m)
- (2) Belt width: 600~2200mm
- (3) Minimum length: 100m

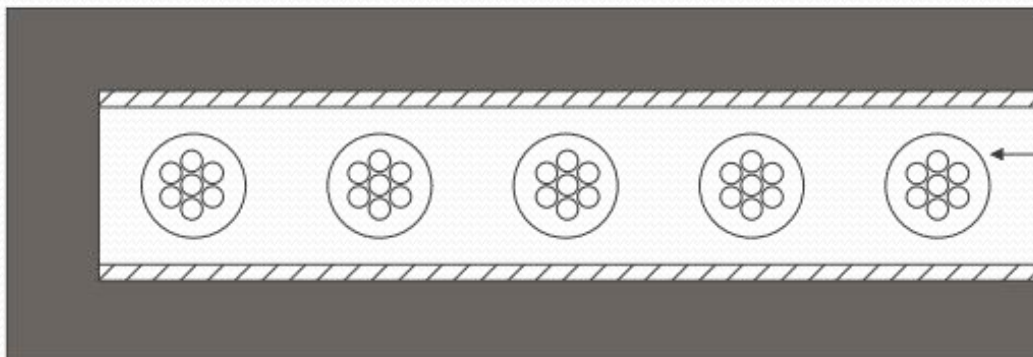


Steel cord with textile breakers



Steel cord with steel breakers

Belt model



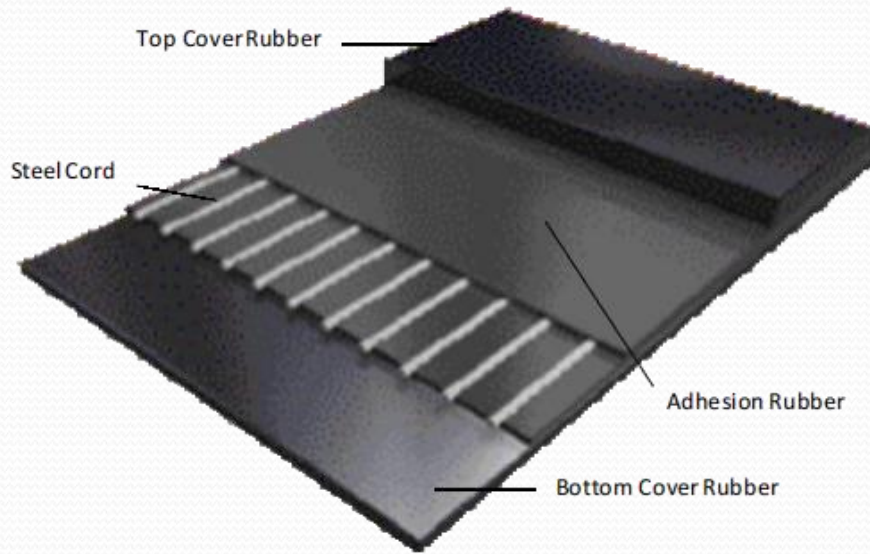
- ← upper cover plate
- ← metal or textile breaker (optional)
- ← steel cords
- ← intermediate rubber
- ← metal or textile breaker (optional)
- ← lower cover plate



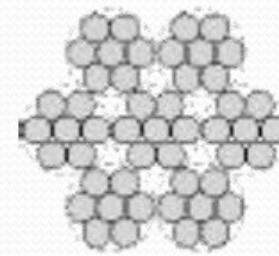
Applicable

- (1) General Purpose
- (2) Abrasion Resistance
- (3) Heat Resistance
- (4) Oil Resistance
- (5) Fire Resistance

Belt Structure



Cord Structure



7x7

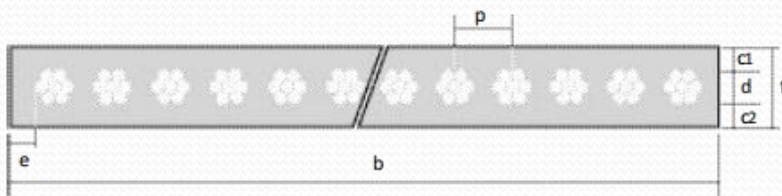


7x19

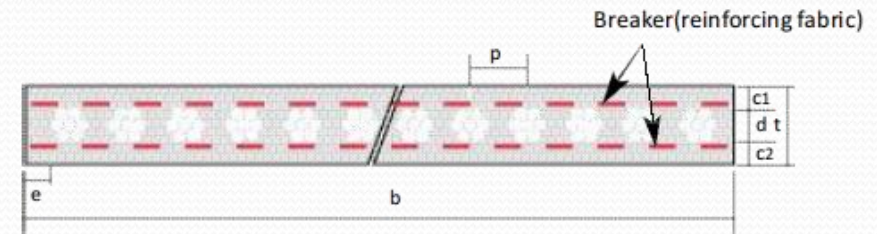
7x7 : Applied to low tension lines

7x19 : Applied to high tension lines

General Structure

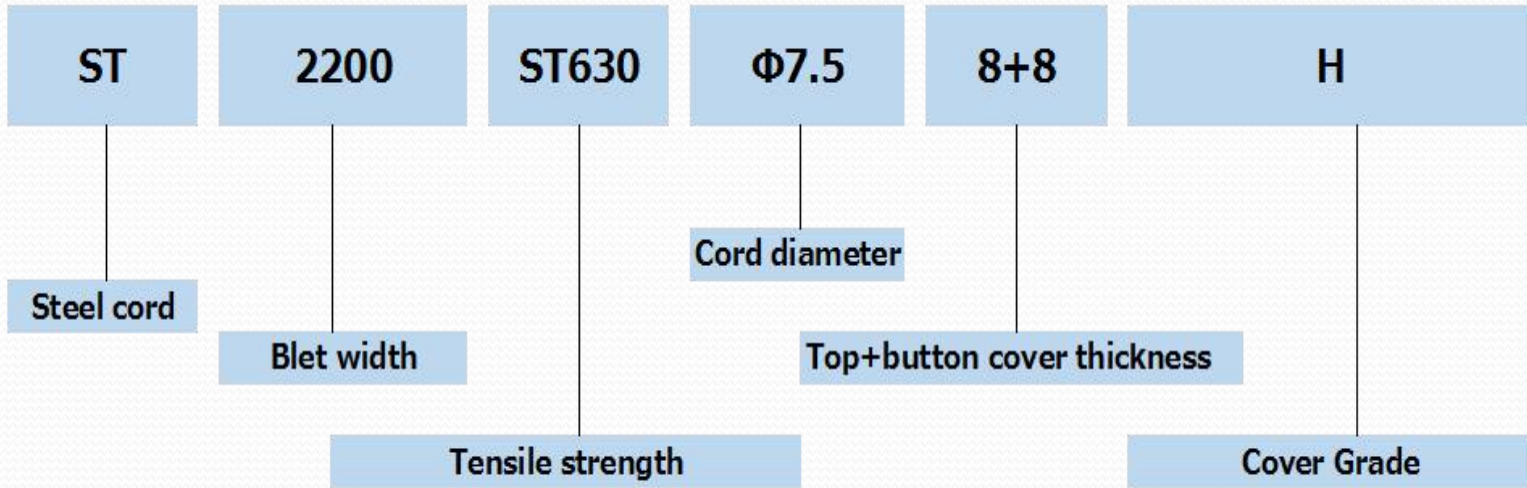


b : Belt width
 c_1 : Top cover rubber thickness
 c_2 : Bottom cover rubber thickness
 d : Cord diameter
 e : Edge rubber width
 p : Cord pitch
 t : Total belt thickness



b : Belt width
 c_1 : Top cover rubber thickness
 c_2 : Bottom cover rubber thickness
 d : Cord diameter
 e : Edge rubber width
 p : Cord pitch
 t : Total belt thickness

► Tech Datasheet



Item	St630	St800	St1000	St1250	St1600	St2000	St2500	St3150	St3500	St4000	St4500	St5000	St5400
Tensile Strength	630	800	1000	1250	1600	2000	2500	3150	3500	4000	4500	5000	5400
Cord diameter(mm)	3.0	3.5	4.0	4.5	5.0	6.0	7.2	8.1	8.6	8.9	9.7	10.9	11.3
Cord pitch(mm)	10±1.5	10±1.5	12±1.5	12±1.5	12±1.5	12±1.5	15±1.5	15±1.5	15±1.5	15±1.5	16±1.5	17±1.5	17±1.5
Top Rubber(mm)	5	5	6	6	6	8	8	8	8	8	8	8.5	9
Bottom Rubber(mm)	5	5	6	6	6	6	8	8	8	8	8	8.5	9

Width (mm)	Pcs of steel cord												
	St630	St800	St1000	St1250	St1600	St2000	St2500	St3150	St3500	St4000	St4500	St5000	St5400
800	75	75	63	63	63	63	50	50	50				
1000	95	95	79	79	79	79	64	64	64	64	59	55	55
1200	113	113	94	94	94	94	76	76	77	77	71	66	66
1400	133	133	111	111	111	111	89	89	90	90	84	78	78
1600	151	151	126	126	126	126	101	101	104	104	96	90	90
1800		171	143	143	143	143	114	114	117	117	109	102	102
2000			159	159	159	159	128	128	130	130	120	113	113
2200						176	141	141	144	144	134	125	125
2400						193	155	155	157	157	146	137	137
2600						209	168	168	170	170	159	149	149
2800									194	194	171	161	161



Gade	tensile Strength Mpa	Elongation rate at break	Abrasion value
D	18	400	90
H	25	450	120
L	20	400	150
P	14	350	200

Note: D-Wear resistance; H-tear resistant; L- normal; P- oil resistant, acid resistant, alkali-resistant, cold resistant and fire resistant

Bucket elevator belt

► Products Information

Elevator-belt is composed of rubber beh and elevator-bucket. The core of belt has two kinds of structures, fabric core and steal 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 cord or polyester(polyester fiber)canvas as strength ply of belt.



1. Steel cord elevator-bucket belt
Intensity: 630N/mm~4000N/mm

2 Fabric core elevator-bucket belt
Intensity: 500N/mm~3150N/mm

3 Customers may select the width of elevator-buckebelt with steel cable core and elevator-bucket with polyester canvas core.