

# Belt Pioneer Group

*Belt Pioneer is an leading manufacturer of rubber conveyor belts. Our quality system has passed the certificate of ISO 9000:2001, which is further a testimony to the quality of our working and products. Factory located in Shandong. We have our own foreign trade department, set up in Qingdao. Name of Qingdao Haochuan Import & Export Limited.*

- *Steel Cord conveyor Belt*
- *EP(polyester) Conveyor Belt*
- *NN(Nylon) Conveyor Belt*
- *Sidewall conveyor Belt*
- *Heat Resistant Conveyor belt*
- *High Temperature Conveyor Belt*
- *Fire Retardant Conveyor Belt*
- *Chevron / Pattern Conveyor Belt*
- *Cold Resistant Conveyor Belt*
- *Oil Resistant Conveyor Belt*
- *Chemical Resistant Conveyor Belt*
- *Chevron Conveyor Belt*
- *Bucket Elevator Conveyor Belt*
- *PVC/ PVG conveyor belt*



## ■Steel Cord Conveyor Belt

### 钢丝绳芯输送带

#### ●用途

可广泛用于煤炭，矿山，港口，冶金，电力，化工等领域实现长距离、大运力、高速度输送物料。  
Application: Can be widely used in coal industry, mines, ports, metallurgical industry, power plant and chemical industry for conveying materials.

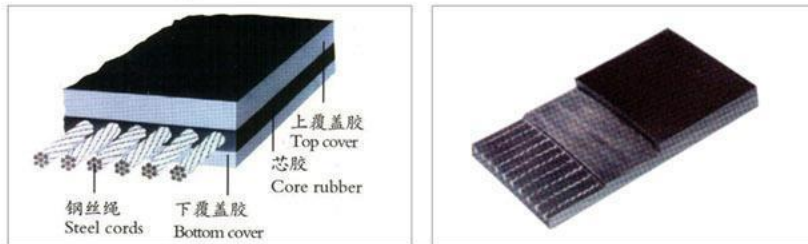
#### ●结构

由纵向均匀排列左、右交互捻向的开放式镀锌钢丝绳与粘性性能优异的芯胶组成带芯，上下两面覆以橡胶层，形成带体。  
Structure: The belt is comprised of longitudinally and evenly arranged non-spinning galvanized wire ropes and high adhesive rubber, with the top and bottom rubber cover.

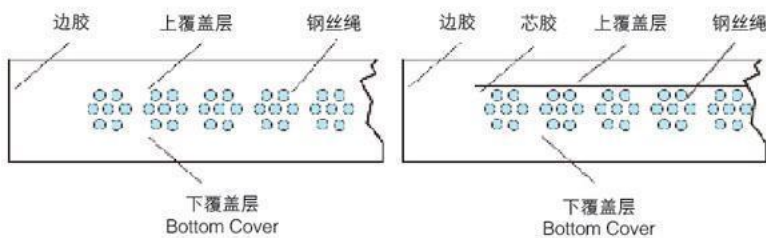
#### ●执行标准

我公司生产的钢丝绳芯输送带执行国标GB/T9770外，还可执行井下阻燃输送带执行MT668-2008标准、德国DIN22131标准、日本JISK6369标准、澳大利亚AS1333标准等其他国际标准。  
Standards: GB/T9770, MT147, MT668, DIN22131, JISK6369, AS1333 etc

Structure and Feature:  
Conventional Structure Type:



#### ●国标GB/T系列



### 国标GB/T9770系列钢丝绳芯输送带主要技术参数

The Technical Parameters Of Steel Cord Conveyor Belt According To GB/T9770

项目 item	St 630	St 800	St 1000	St 1250	St 1600	St 2000	St 2500	St 3150	St 3500	St 4000	St 4500	St 5000	St 5400
纵向拉伸强度 N/mm Longitudinal Tensile Strength	630	800	1000	1250	1600	2000	2500	3150	3500	4000	4500	5000	5400
钢丝绳最大公称直径,mm Cord Diameters	3.0	3.5	4.0	4.5	5.0	6.0	7.5	8.1	8.6	8.9	9.7	10.9	11.3
钢丝绳间距, ± 1.5mm Cord Pitch	10	10	12	12	12	12	15	15	15	15	16	17	17
上覆盖层厚度, mm Top Cover Thickness	5	5	6	6	6	8	8	8	8	8	8	8.5	9
下覆盖层厚度, mm Bottom Cover Thickness	5	5	6	6	6	6	6	8	8	8	8	8.5	9
宽度规格mm Width item	钢丝绳根数 Steel Cord Number												
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	121	113	113
2200							176	141	141	144	144	134	125
2400							193	155	155	157	157	146	137
2600							209	168	168	170	170	159	149
2800										184	184	171	161

### 覆盖胶性能、等级 Cover Rubber Property And Grades:

检测项目 Test items		Property indexes							
		GB/T9770				DIN22131			
		D	H	L	P	W	X	Y	K
拉伸强度 Tensile strength	Mpa ≥	18	25	20	14	18	25	20	20
扯断伸长率 Elongation break	% ≥	400	450	400	350	400	450	400	400
耐老化实验 Aging test (70°C, 7D)	%	-25~+25	-25~+25	-25~+25	-25~+25	-25~+25	-25~+25	-25~+25	-25~+25
拉伸强度变化率 change rate of tensile strength									
磨耗量 Abrasion mm <sup>3</sup>	≤	90	120	150	200	90	120	150	200

德国钢丝绳芯输送带标准DIN22131主要技术参数  
The Technical Parameters of Steel Cord Conveyor Belt According to DIN22131

项目 item	St 1000	St 1250	St 1600	St 2000	St 2500	St 3150	St 3500	St 4000	St 4500	St 5000	St 5400
最低拉伸强度 Longitudinal Tensile Strength ( N/mm )	1000	1250	1600	2000	2500	3150	3500	4000	4500	5000	5400
钢丝绳最大直径 Cord Diameters ( mm )	4.1	4.9	5.6	5.6	7.2	8.1	8.6	8.9	9.7	10.9	11.3
钢丝绳绳距 Cord Pitch ( mm )	12	14	15	12	15	15	15	15	16	17	17
最小覆盖胶厚度Min, Cover Thickness	4	4	4	4	5	5.5	6.5	7	7.5	8	9
宽度Width item(mm)	钢丝绳根数 Steel Cord Number										
500	39	34									
650	51	44									
800	64	55	50	64							
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 钢丝绳牵引输送带

### ●用途

广泛应用于煤矿、矿山等领域输送物料。

### ●结构

沿胶带横向铺设方钢条，其间以橡胶填充，以贴胶的帆布包裹成为带芯并加上上、下覆盖橡胶，两边为耳槽。

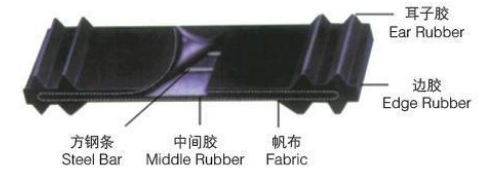
### ●特点

靠钢丝绳牵引运行。带体只承载物料，不承受拉伸力，带体刚度大，不伸长，抗冲击，耐磨损，适用于长距离、高载量条件下输送物料。

Application: Widely Used in coal industry and mines etc for conveying materials.

Construction: Lay transversely steel bars along the belt. Fill rubber compound into each place between bars. Then wrapped these bars with skimmed fabric to form the reinforcement. On the top and bottom of the bars, covered with a layer of rubber compound.

Feature: The belt runs by means of the traction of steel cable. Belt itself only supports conveying materials, not bear pulling strength. Belt rigidity is big with little elongation. Belt is of impact resistant and anti-abrasion. It is suitable for conveying materials under a long distance and heavy load.



## 钢丝绳牵引输送带规格系列 Specification Of Steel Cable Conveyor Belt

输送带规格 Bell Size	方钢条规格 ( mm ) Size of steel bar(mm)	钢丝绳直径 ( mm ) Dia of steel cord(mm)	钢条间距(mm) Pitch of steel bars(mm)	备注 Remark
864X2PX(4.5+5+2.5)	5X5X840	28.0	35、45、55、65	上、下耳胶对称
926X2PX(3+5+2)	5X5X880	30.0	50	上、下耳胶对称
1055X2PX(3+5+2)	5X5X1034	28.5	35、45、55	上、下耳胶对称
1070X2PX(3+5+1.5)	5X5X1034	40.0	35、45、55	上、下耳胶不对称
1070X2PX(3+5+1.5)	5X5X1034	40.0	35、45、55	上、下耳胶对称
1070X2PX(3+5+1.8)	5X5X1034	40.0	35、45、55	上、下耳胶不对称
1070X2PX(3+5+2)	5X5X1034	28.5	35、45、55	上、下耳胶不对称
1070X2PX(3+5+2)	5X5X1034	28.5	35、45、55	上、下耳胶对称，两边出60mm扶手边
1090X2PX(5+5+5)	5X5X1055	40.5	35、45、55	上、下耳胶对称
1126X2PX(3+5+2)	5X5X1080	40.0	35、45、55	上、下耳胶不对称
1126X2PX(3+5+3)	5X5X1080	40.0	50	上、下耳胶对称
1290X2PX(3+6+3)	6X6X1250	40.0	40	上、下耳胶对称
1290X2PX(5+6+2)	6X6X1250	37.0	38	上、下耳胶对称
1290X2PX(5+6+2.6)	6X6X1250	37.0	36	上、下耳胶对称
1300X2PX(5+7+5)	7X7X1250	40.5	40	上、下耳胶对称

注：1、覆盖胶有普通型和阻燃型 2、帆布材质有棉帆布或聚酯帆布。  
1、Rubber Cover: Conventional, Fire-resistant 2、Fabric: EP,CC

●输送带m<sup>2</sup>计量方法  $m^2 = \text{带宽} \times (\text{布层数} + \frac{\text{带体总厚度mm} - \text{单层布厚mm} \times \text{布层数}}{1.5\text{mm}}) \times \text{带长m} + \text{耳胶折算m}^2$

$m^2 = \text{Width(m)} \times (\text{Ply Number} + \frac{\text{Belt thickness} - \text{Single Fabric thickness} \times \text{Ply Number}}{1.5\text{mm}}) \times \text{Length(m)} + \text{Ear Rubber Concertion(m}^2)$

### ●品种 Type

按覆盖胶的不同可分为普通型(Conventional)和阻燃型(Fire-resistant)。

## General conveyor belt

### 普通输送带

普通输送带由多层橡胶棉（涤棉）帆布粘合在一起，且上下有覆盖胶，产品执行GB/T7984-2001标准。

输送带是胶带输送机的主要部件，起承载物料的作用，它广泛用于钢铁、煤炭、冶金、化工、电力、建材、粮食等行业。

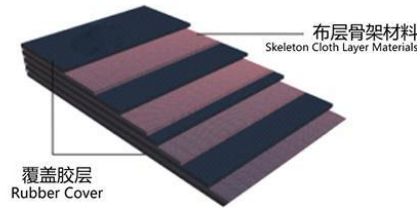
使用输送带作为运输载体和其它运输方式相比具有操作安全、使用方便、维修容易、运费低廉且可实现连续化。

此种输送带适用于一般条件下输送无特殊腐蚀性常温块状、粒状、粉状物料

品种：按覆盖胶的性能可分为强划裂型、强磨损型、一般型。

计算方法：

$$\text{普通输送带平方米} = \text{带宽} \times \left( \text{布层数} \frac{\text{上胶} + \text{下胶}}{1.5} \right) \times \text{带长}$$



#### 1、覆盖层物理机械性能

覆盖层性能级别	代号	拉伸强度Mpa≥	拉断伸长率%≥	磨耗量mm³≥	70°C×168h老化后，强度和拉断伸长变化率%
强划裂型	H	24.0	450	120	-25 ~ +25
强磨损型	D	18.0	400	100	-25 ~ +25
一般型	L	15.0	350	200	-25 ~ +25

#### 2、全厚度拉伸性能：

- 带的纵向拉伸强度不低于如下标称值160、200、250、315、400N/mm。
- 带的全厚度纵向拉断伸长率不小于10%。带的全厚度纵向参考力伸长率应不大于4%。

#### 3、层间粘合强度

项目	布层间N/mm	覆盖层与带芯之间	
		覆盖层厚度 ≤1.5mm	覆盖层厚度 >1.5mm
全部试样平均值，N/mm，≥	3.2	2.1	2.7
全部试样最低峰值，N/mm，≥	2.7	1.6	2.2

#### 4、推荐输送机使用最小传动滚筒直径

帆布层数 最小传动滚筒直径mm	帆布型号	3	4	5	6	7	8
帆布层数	帆布型号						
	CC-56	400	500	600	800	1000	1250

## General conveyor belt

### 普通输送带

The general conveyor belt is made Of EP,NN or Cotton tabric and finished lthrough the processes of calendering, tirming and vulcanizing, etcGeneral conveyor belt is suitable for conveying in normal temperature various non-corrosive pointless lumps, granular or powders Such as coal,coke, sand and cement in bulk or packagedWe could offer belt with cover grade in accordance to International standard such as DIN 22102 RMA, AS 1332, SABS 1173/2000, IS 1891, BS 490, JIS K 6322. etc.

Specification and lechnical data of nylon conveyor belt and polyester conveyor belt.

#### 1.Cover properties of the belts

Cover grade	Tensile strength≥	Elongation≥	Abrasion≤	Change Rate of tensile strength and elongation after aging
	Mpa	%	mm³	%
Heavy (H)	24.0	450	120	-25 ~ +25
Medium (M)	18.0	400	100	-25 ~ +25
Light (L)	15.0	350	200	-25 ~ +25

- Belt longitudinal elongation must be bigger than the following data: 160 200 250 315 400 600N/m  
Longitudinal elongation at break must be %≥10. Longitudinal elongation at reference load must he %≤40

Belt carcass	Adhesive strngth		
	Between piles	N/mm Between rubber and carcass	
		Rubber thickness≤1.5mm	Rubber thickness>1.5mm
Cotton and T/C canvas	≥3.2	≥2.1	≥2.7
EP canvas	≥2.7	≥3.20	≥2.2

#### 3.Recommended minimum conveyor roller diameter

minimum roller diameter	Carcass type	Carcass ply	3	4	5	6	7	8
	CC-56		400	500	600	800	1000	1250

## ■Nylon conveyor belt/EP conveyor belt 尼龙输送带及聚酯输送带

尼龙输送带和普通棉布芯输送带相比具有强力高、弹性好、耐冲击、自重轻、成槽性好等优点，它可以有效的降低输送成本，实现高速、大跨度、长距离输送。

聚酯输送带除具有尼龙输送带的诸多优点外，还具有伸长小，湿态强度完全不降低的独特优点。这对于长距离输送和潮湿的工作条件尤为重要。

尼龙帆布、聚酯帆布可供选用的强度规格有：100N/mm、150N/mm、200N/mm、250N/mm、300N/mm。

普通型符合标准GB/T7984-2001。

尼龙输送带和聚酯输送带的物理机械性能如下：

### 1、覆盖层物理机械性能

普通用途覆盖层性能级别	代号	拉伸强度Mpa $\geq$	拉伸伸长率% $\geq$	磨耗量mm <sup>3</sup> $\leq$	70°C×168h老化后，拉伸强度和拉伸伸长变化率%
强划裂型	H	24.0	450	120	-25 ~ +25
强磨损型	D	18.0	400	100	-25 ~ +25
一般型	L	15.0	350	200	-25 ~ +25

### 2、全厚度拉伸性能：

- a、带的纵向拉伸强度应不低于如下标称值：315 400 500 600 800 900 1000N/mm。  
b、带的全厚度纵向拉伸伸长率不小于10%。带的全厚度纵向参考伸长率应不大于4%。

### 3、层间粘合强度

项目	布层间N/mm	覆盖层与带芯之间	
		覆盖层厚度 $\leq 1.5$ mm	覆盖层厚度 $> 1.5$ mm
全部试样平均值，N/mm， $\geq$	4.5	3.2	3.5
全部试样最低峰值，N/mm， $\geq$	3.9	2.4	2.9

注：全部试样最高峰值不得超过20N/mm

### 4、推荐输送机使用最小传动滚筒直径

帆布层数 最小传动滚筒直径mm 帆布型号	2	3	4	5	6
NN或EP-150	300	400	500	630	800
NN或EP-200	400	500	630	800	1000
NN或EP-300	500	630	800	1000	1250
NN或EP-400	600	800	1000	1250	1400



## ■Nylon conveyor belt/EP conveyor belt 尼龙输送带及聚酯输送带

Conveyor belts with nylon canvas inside have the characteristics of thin belt body, high tensile strength, good shock resistance, good trough ability, high adhesion between plies, splendid flexibility and long working life. Nylon conveyor belts are suitable for medium, long-distance and heavy-load transportation of materials, widely used in mining, metallurgical industry and architectural industry, ports and etc...

Polyester conveyor belts, have the characteristics of low elongation in warp and good trough ability in weft, good water resistance, good wet strength, no mould, suitable and be important for medium, long-distance and heavy-load transportation of materials.

BELT CANVAS SERIES: 100N/mm、150N/mm、200N/mm、250N/mm、300N/mm。

STANDARDS: GB/T7984-2001

Specification and technical data of nylon conveyor belt and polyester conveyor belt

### 1. Cover properties of the belts

Cover grade	Tensile strength $\geq$	Elongation $\geq$	Abrasion $\leq$	Change Rate of tensile strength and elongation after aging
	Mpa	%	mm <sup>3</sup>	%
Heavy (H)	24	450	120	-25 ~ +25
Medium (M)	18	400	100	-25 ~ +25
Light (L)	15	350	200	-30 ~ +30

2. Belt longitudinal elongation must be bigger than the following data: 315 400 500 600 800 900 1000N/mm. Longitudinal elongation at break must be  $\geq 10\%$ . Longitudinal elongation at reference load must be  $\leq 4\%$

Belt carcass	Adhesive strength		
	Between piles	N/mm Between rubber and carcass	
		Rubber thickness $\leq 1.5$ mm	Rubber thickness $> 1.5$ mm
EP canvas	$\geq 4.50$	$\geq 3.20$	$\geq 3.50$
Cotton and T/C canvas	$\geq 3.9$	$\geq 2.4$	$\geq 2.9$

### 3. Recommended minimum conveyor roller diameter

minimum roller diameter	Carcass type	Carcass ply	2	3	4	5	6
	NN或EP-150		300	400	500	630	800
	NN或EP-200		400	500	630	800	1000
	NN或EP-300		500	630	800	1000	1250
	NN或EP-400		600	800	1000	1250	1400

## Heat conveyor belt

### 耐热输送带

采用棉帆布或耐热型聚酯帆布为带芯，选用耐热性优异的特种橡胶及专用配合剂制成覆盖层，根据输送物料的温度不同，耐热输送带可分为三个等级：

The carcass of the heat resistant conveyor belt selects cotton canvas or EP canvas as skeleton material. This kind of conveyor belt adopts ethylene-propylene rubber or styrene butadiene rubber as coating with good heat resistance. The rubber compound used in the cover has been designed to avoid premature aging due to contact with any source of heat.

It can be divided into four types according to working temperature range:

耐热等级 Grade	温度 Temperature	最高间歇运行温度 Maximum intermittent operation temperature
T1型	≤100℃	140℃
T2型	≤125℃	170℃
T3型	≤150℃	220℃

#### 1、覆盖层耐热试验后的物理性能符合表中规定：Technical indexes

项目 Items	型号	1型			2型			3型		
		变化范围 Change Range Allowed								
硬度 Hardness	老化后与老化前之差 (1RHD) Difference before and after aging(1RHD)	20			20					
	老化后的最大值 (1RHD) Maximum value after aging(1RHD)				85					
拉伸强度 Tensile strength	性能变化率降低%≤ Change rate after aging%	25	30				30			
	老化后的最低值Mpa Maximum value after aging/Mpa	12	10				5			
拉伸伸长率 Elongation at break	性能变化率%≤ Change rate after aging%	50			55					
	老化后的最低值% Maximum value after aging%	200			180					

#### 2、覆盖层磨耗量：Cover Abrasion

项目 Items	磨耗量 (cm <sup>3</sup> /1.61km) Abrasion		
	1型	2型	3型
等级合格品 Rate product	0.8	1.0	1.0
合格品 Qualified product	1.0	1.2	1.2

#### 3、层间粘合强度：Adhesion Cover to Ply

项目 Item	布层间(N、mm) Between plies	覆盖层与布层间 (N/mm) Between rubber and carcass	
		覆盖层厚度≤1.5mm	覆盖层厚度>1.5mm
纵向试样平均值≥ Average Value of Longitudinal test piece	3.0	2.2	2.6
纵向试样最低平均值≥ Smallest Permitted Maximum of Longitudinal test piece	2.0	1.6	2.0

## Oil conveyor belt

### 耐油输送带

覆盖胶采用高丙烯腈含量的丁腈胶为主体材料，采用棉帆布，尼龙帆布或聚酯帆布为强力层。适用于输送含油性物料或接触各种油性工作的环境中。

具有体积变化率低，强度保持率高，适用范围广等优点。

Oil resistant conveyor belt carries parts and components coated with machine oil, heavy-oil treated coal in cooking plants and electric power generating plants, soybean druff, fish meat and other oily materials. Materials containing non-polar organic solvents and fuel.

Oil resistant conveyor belt compounded of Oil resistant synthetic rubber with good resistance to the damaging effects encountered when conveying oil contaminated or treated materials.

#### 耐油输送带覆盖胶物理机械性能：Cover Rubber physical and mechanical properties

指标名称 Name of index	指标 Index
硬度 (邵尔A) 度 Haraness	65 ± 5
磨耗量 (cm <sup>3</sup> /1.6km) Abrasion	1.20
拉伸强度 Mpa ≥ Tensile strength	10.0
拉伸伸长率 % ≥ Elongation at break	300
耐油体积变化率 % ≤ (50℃, 24h20#航空润滑油) Oil resistant volume rate	10

## Chemical Resistant conveyor belt

### 耐酸、耐碱输送带

适用于和酸碱接触的工作环境，如磷肥制造，海水晒盐。覆盖胶采用橡塑共混并填充酸碱性优异的情性材料，骨架材料采用聚酯帆布，比棉帆布芯带耐酸碱性更加可靠。

The core of Acid Alkali Resistant Conveyor Belt is made of cotton canvas, nylon canvas or polyester canvas. It has good elastic belt body and good grooving performance and low elongation rate-The cover rubber is made of acid and alkali resistant material.

APPLICATION: It is suitable for conveying acid and alkali materials. It is widely used for corrosive materials in chemical factories, chemical fertilizer factories, paper mills and industry.

#### 耐酸碱输送带性能 Technical Index:

覆盖胶层 Cover Rubber Ply	指标名称 Name of index		指标 Index
	拉伸强度 Tensile strength		
拉伸伸长率 Elongation at break			≥400%
硬度 (邵尔A) 度 Haraness			65 ± 5
耐酸系数 (1.5-25℃, 24h40%H <sub>2</sub> SO <sub>4</sub> ) Acid-resisting			≥0.8
磨耗量 Abrasion			≤1.2cm <sup>3</sup> /1.61km
层间粘合强度 Adhesion Cover to Ply	覆盖胶与布粘合强度 Adhesion Cover rubber to carcass	盖胶 Cover rubber > 1.5mm	≥3.2N/mm
		盖胶 Cover rubber ≤ 1.5mm	≥2.8N/mm
胶布层间 (纵平均) 粘合强度 Adhesion between plies			≥3.2N/mm

## Heat conveyor belt

### 耐热输送带

采用棉帆布或耐热型聚酯帆布为带芯，选用耐热性优异的特种橡胶及专用配合剂制成覆盖层，根据输送物料的温度不同，耐热输送带可分为三个等级：

The carcass of the heat resistant conveyor belt selects cotton canvas or EP canvas as skeleton material. This kind of conveyor belt adopts ethylene-propylene rubber or styrene butadiene rubber as coating with good heat resistance. The rubber compound used in the cover has been designed to avoid premature aging due to contact with any source of heat.

It can be divided into four types according to working temperature range:

耐热等级 Grade	温度 Temperature	最高间歇运行温度 Maximum intermittent operation temperature
T1型	≤100℃	140℃
T2型	≤125℃	170℃
T3型	≤150℃	220℃

#### 1、覆盖层耐热试验后的物理性能符合表中规定：Technical indexes

项目 Items	型号	1型			2型			3型		
		变化范围 Change Range Allowed								
硬度 Hardness	老化后与老化前之差 (1RHD) Difference before and after aging(1RHD)	20			20					
	老化后的最大值 (1RHD) Maximum value after aging(1RHD)				85					
拉伸强度 Tensile strength	性能变化率降低%≤ Change rate after aging%	25	30			30				
	老化后的最低值Mpa Maximum value after aging/Mpa	12	10			5				
拉伸伸长率 Elongation at break	性能变化率%≤ Change rate after aging%	50			55					
	老化后的最低值% Maximum value after aging%	200			180					

#### 2、覆盖层磨耗量：Cover Abrasion

项目 Items	磨耗量 (cm <sup>3</sup> /1.61km) Abrasion		
	1型	2型	3型
等级合格品 Grade合格品	0.8	1.0	1.0
合格品 Qualified product	1.0	1.2	1.2

#### 3、层间粘合强度：Adhesion Cover to Ply

项目 Item	布层间(N、mm) Between plies	覆盖层与布层间 (N/mm) Between rubber and carcass	
		覆盖层厚度≤1.5mm	覆盖层厚度>1.5mm
纵向试样平均值≥ Average Value of Longitudinal test piece	3.0	2.2	2.6
纵向试样最低平均值≥ Smallest Permitted Maximum of Longitudinal test piece	2.0	1.6	2.0

## Oil conveyor belt

### 耐油输送带

覆盖胶采用高丙烯腈含量的丁腈胶为主体材料，采用棉帆布，尼龙帆布或聚酯帆布为强力层。适用于输送含油性物料或接触各种油性工作的环境中。

具有体积变化率低，强度保持率高，适用范围广等优点。

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		盖胶 Cover rubber ≤ 1.5mm	≥2.8N/mm
胶布层间 (纵平均) 粘合强度 Adhesion between plies			≥3.2N/mm

## Pattern conveyor belt

### 花纹输送带

花纹输送带是由工作面为花纹状的覆盖胶和非工作面为平面的覆盖胶与带芯构成的倾角输送带。

特点：适用于倾角为。0—40°。物料的输送，防止物料下滑。

花纹形式：人字型，凹坑型，u型。

花纹高：5，10，15，20，25，30mm

花纹间距：125，200，250，300，400，500mm

注：花纹形状可根据用户要求设计

计算方法：

$$\text{花纹带总平方数} = \text{带宽} \times \left( \frac{\text{花高} + \text{布层数} + \text{上胶} + \text{下胶}}{5} \right) \times \text{带长} \times 1.5$$



Patterned conveyor belt is obliquity belt composed of belt carcass and pattern .

Characteristics: It can convey materials at the gradient of no more than 40°. avoid material slowing down

Pattern Shapes: "V" pattern, "V" pattern and "U" pattern

Pattern Height: 5, 10, 15, 20, 25, 30mm

Pattern space: 125, 200, 250, 300, 400, 500mm

Note: The style of pattern also can be designed as customers' request

Method Of Calculation:

$$\text{Total square of belt} = \text{Width} \times \left( \frac{\text{Pattern Height}}{5} + \text{No. of Ply} + \frac{\text{T.T} + \text{B.T}}{1.5} \right) \times \text{Length}$$

## Endless Conveyor Belt

### 环形输送带

◆产品特点 我公司生产环形输送带带芯采用单层骨架织物缠绕成型。整体无接头。定型硫化出的环形带。带体两端周长尺寸标准。无喇叭口，皮带上机不跑偏。覆盖胶采用高强度耐磨橡胶配方，使用寿命长。带体厚度均匀，平面光滑、运行平稳，计量准确。

Fabric: Twining no joint. Rubber Cover: Abrasion Resistant Rubber Cover. Long-life.

Endless Belt: Clean and Smooth Surface. Accurate Measurement.



## Cold Conveyor Belt

### 耐寒输送带

#### ◆产品特点

选用棉帆布、尼龙帆布或聚酯帆布做带芯，覆盖胶采用天然橡胶与顺丁橡胶的并用胶，具有弹性高，耐冲击、耐寒等特点，能在零下40℃以上的环境下正常使用。

#### ◆用途

适用于寒冷地区露天或冷冻仓库等场合输送物料。

#### ◆技术指标

1、耐寒输送带根据覆盖胶性能分为耐裂型(H)、耐磨型(D)、一般型(L)三种类型。

2、根据耐寒性能分为C1和C2两种级别。C1使用环境温度为-45℃~+50℃；C2使用环境温度为-60℃~+50℃。

#### 1 Characteristics

The product selects cotton canvas, nylon canvas or EP canvas as the carcass. Cover rubber selects a blend of NR and BR, which has the property of high elasticity, shock resistance, cold resistance etc. It can work normally under the conditions of -40℃.

#### 2. Application

It is suitable for conveying materials outdoors in freezing area, cold storage etc.

#### 3. Technical index

◆ Cold resistant conveyor belt can be divided into three types according to the properties of cover:

Laceration resistant type (H), Anti-abrasive type (D), Ordinary type (L)

◆ According to the different cold resistance, it can be divided into two types of C1 and C2. C1: working temperature: -45℃~+50℃; C2: working temperature: -60℃~+50℃.





## Common Flame Resistant Conveyor Belt 一般难燃输送带

### ◆特性及用途

本产品由全棉帆布、尼龙帆布、聚酯帆布，经过压延、成型、硫化等工序精制而成：该产品适合于煤矿井上等易燃易爆环境下输送非腐蚀性的无尖刺的块状、粒状、粉末状的多种物料，如煤炭等散料或成件物品。

### CHARACTERISTICS AND USAGE

The product is made of cotton canvas, nylon canvas or EP canvas and finished through the processes of pressing, shaping, vulcanizing etc. It is suitable for conveying various non-corrosive and thornless materials in blocks, ingrain or in powder, such as coal in bulk or in bales, under the condition of easily burn or easily explosive environment above coal mine wells.



### ◆覆盖层性能

#### Cover Rubber Characteristics

拉伸强度Tensile strenght	Mpa≥10
扯断伸长率Elongation at break%	≥350

### ◆安全性能

#### Safety property

难燃性能J Flame Resistant Property	难燃且防静电性能K Flame resistant and anti-static electricity property
三个纵向全厚度试样的火焰持续时间的平均值不大于60S且任何一个单个结果均无复燃现象。 Ave rage value of duration of flame of threefull thickness test pieces dose not exceed 60S and there is no reappearance of flame for any individual test result	难燃性能要求同J，防静电性能：不大于 $3 \times 10^8 \Omega$ The flame retardant property is tne same as J, and anti-static property shall not exceed $3 \times 10^8 \Omega$

## Steel Mesh Cord Conveyor Belt 金属网输送带

### ●用途

广泛用于冶金、水泥、铸造、化工等领域输送物料。可用作耐高温、耐灼烧输送带、抗撕裂输送带、耐酸碱油型输送带等。

Steel mesh cord belt is widely used in metallurgy, cement, casting, chemical indUsly, and could be used as heat resistant, fire resistant, tear resistant and acid oil resistant belt.

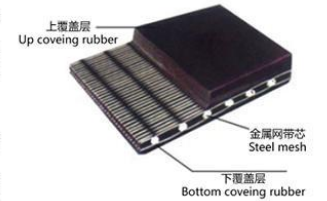
### ●特点

带芯是金属螺旋网整体带芯，耐高温、耐烧灼、抗撕裂、拉伸强度高、伸长率小。具有良好的成型性、而且接头效率高。操作方便。

The carcass is steel network, the belt is heat-resistant, fire resistant, tear-resistant, high tensile strength, low elongation. With good troughability, easy to make splica and operate.

### ●特点规格系列

规格	Specification	SN400	SN630	SN800	SN1000	SN1125
纵向全厚度拉伸强度N/mm	Tensile strength	400	630	800	1000	1250
金属网带芯厚度mm	Thickness of network	5.5	5.5	7.0	7.0	9.0
推荐上覆盖层厚度mm	Top rubber thickness	6	8	9	10	10
推荐下覆盖层厚度mm	Bottom rubber thickness	3	3	3	3	3
覆盖层与带芯粘强度 (纵向试样平均值)	常温	≥10N/mm				
	160℃	≥4.0N/mm				
10%定负荷纵向伸长率	Elongation at 10% load	≤2%	≤2%	≤2%	≤2%	≤2%
胶带宽度mm	Belt width	300-800				



### ●输送带表示方法 Styel of making

耐高温型金属网芯输送带 Heat Resistant steel mesh cord conveyor belt	SN630	800	(8+5.5+3)	100米
覆盖层性能 Performance of covering	带芯材质代号 胶带强度 Belt symble tensile strength	带宽 Width	上覆盖层厚度 金属网带芯厚度 下覆盖层厚度 Thickness of up rubber, steel mesh and bottom rubber	长度 Length

### ●品种及执行标准 Ttye & Standard

按覆盖层性能可分为：耐烧灼型、耐高温型、耐酸碱油型等品种。

Covering Rubber Types: Fire Resistant, Heat resistant, Acid oil Resistant.

### ●覆盖胶的执行标准和主要指标：

品种 Type	标准及主要指标Slandard
耐酸碱油型 Acid & Oil Resistant	HZ/Q05-2009
耐热耐高温型 Heat Resistant	HG/T 2297
耐烧灼型 Fire Resistant	HZ/Q06-2009

### ●金属网输送带m<sup>2</sup>计量方法

$$m^2 = \text{带宽}m \times \left( \frac{\text{上覆盖层厚度}mm + \text{下覆盖层厚度}mm + \text{金属网带芯厚度}mm}{1mm} \right) \times \text{带长}m$$

### ●金属网芯输送带质量计量方法

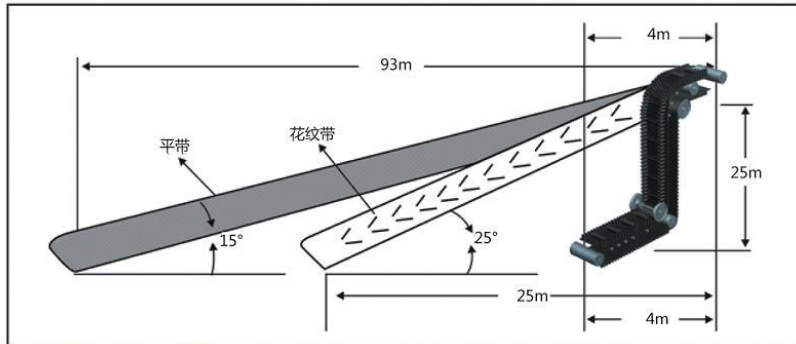
$$kg = [(\text{上覆盖层厚度}mm + \text{下覆盖层厚度}mm) \times \text{每毫米厚度胶料质量}kg/m^2 + \text{带芯质量}kg/m^2] \times \text{带宽}m \times \text{带长}m$$

## ■ Corrugated Sidewall Conveyor Belt

### 波状挡边输送带

波状挡边输送带被广泛应用于港口、冶金、矿山、电力、煤炭、铸造、建材、粮食、化工等领域物料输送。能使各种散装物料以0-90度作任意倾角连续输送、可从很小的粒度到400mm的大粒度，输送量可从1立方米/小时到6000立方米/小时。具有输送倾角大、使用范围广、占地面积小、无转运点、减少土建投资、维护费用低、输送量大等特点，解决了普通输送带或花纹输送带所不能达到的输送角度。波状挡边输送带可根据要求设计成一套完整输送系统，避免了间断输送和复杂输送的提升系统。

Corrugated sidewall conveyor belt is widely used in seaport, metallurgy, mining, power, coal, casting, cement and chemical industry. Sidewall belt can convey bulk material at an incline of 0°-90°, and granular diameter up to 400mm. It 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.



#### 大倾角胶带场地节约示例

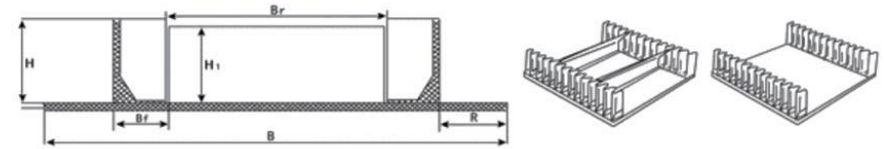
Illustration of ground, saving ability of the Vertical conveyor system



钢厂高炉90° 提升 基带：钢丝绳芯基带

港口装船机

用于港口：带宽2000mm 挡边高500mm 基带：钢丝绳芯基带



#### 波状挡边带组合数 Sidewall and Cleat

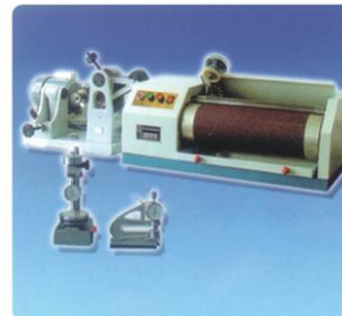
基带宽B Base Belt Width B(mm)	挡边高H Sidewall Height H(mm)	横隔板高H1 Cleat height H1(mm)	Bf (mm)	Br (mm)	R (mm)
300	40	35	25	180	35
	60	55	50	120	40
	80	75			
400	60	55	50	180	60
	80	75			
	100	90			
500	80	75	50	250	75
	100	90			
	120	110			
650	100	90	50	350	100
	120	110			
	160	140			
800	120	110	50	460	120
	160	140			
	200	180			
1000	160	140	75	550	150
	200	180			
	240	220			
1200	160	140	75	690	180
	200	180			
	240	220			
1400	300	280	105	630	210
	200	180			
	240	220			
1600	300	280	105	770	240
	400	360			
	240	220			
1800	240	220	75	1110	270
	300	280			
	400	360			
2000	500	460	125	1010	300
	400	360			
	240	220			
2200	300	280	105	1250	330
	400	360			
	500	460			
2400	630	600	145	1150	360
	400	360			
	500	460			
2400	400	360	105	1330	360
	500	460			
	630	600			
2400	400	360	125	1430	360
	500	460			
	630	600			



钢丝绳芯胶带动态粘合强度试验机  
STEEL WIRE ROPE CORE BELT DYNAMIC  
ADHESION STRENGTH TESTING MACHINE



钢丝绳芯胶带动态粘合强度试验机  
STEEL WIRE ROPE CORE BELT DYNAMIC  
ADHESION STRENGTH TESTING MACHINE



滚筒磨损试验机  
THE ROLLER WEAR TESTING MACHINE



老化试验箱  
AGING TESTING CHAMBER



输送带酒精喷灯燃烧性能试验箱  
CONVEYOR BELT ALCOHOL LAMP  
COMUSTION CHAMBER



巷道丙烷燃烧性能试验装置  
PROPANE COMBUSTION  
PERFORMANCE TEST MACHINE



电子拉力试验机  
ELECTRONIC TENSILE TESTING MACHINE



橡胶拉力试验机  
RUBBER TENSILE TESTING MACHINE



输送带滚筒摩擦试验机  
CONVEYOR BELT ROLLER  
FRICTION TESTING MACHINE



钢丝绳芯胶带渗透性试验机  
STEEL WIRE ROPE CORE BELT  
PERMEABILITY TESTING MACHINE



耐臭氧试验机  
OZONE TEST MACHINE



无转子硫化仪  
ROTOR-CURING MACHINE



**Production  
equipment**

