

# A General Catalog of Conveyor Belts

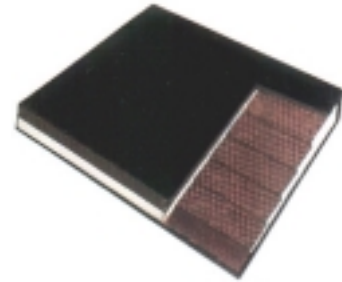
## Fabric Conveyor belt

The Fabric conveyor belt consists of a NN (NYLON/NYLON) Woven fabric or EP (POLYESTER/NYLON) Woven fabric, The body of belt is light thin, It has a High tensile strength impact resistance, excellent trough-ability and resistance to water. The EP fabric has a less stretch. There is heat resistant, Cold resistant, acid and alkali resistant, anti-static and rip resistant etc. besides general use.

## Section structure

### General Type

This is composed of top cover rubber, edge rubber, fabric and bottom cover rubber.



### Impact & rip proof Type

The impact and rip resistance type is detailed as top cover rubber, synthetic cord, skim coating or friction rubber, multiply of fabric and bottom cover rubber technical standard.



It conform to standard of GB7984-87 as well as ISO, DIN, AS, JIS, RMA, GOCT

## Specifications

Fabric materials	Fabric structure		Fabric code	No. of Fabric plies	Width (mm)	Length (mm)	Cover thickness(mm)	
	Warp	Weft					Top	Bottom
Nylon (NN)	Nylon	Nylon	NN-100	2-6	500~2000	200 Over	3~8	1.5~3
			NN-150	2-6	500~2000	200 Over	3~8	1.5~3
			NN-200	2-6	500~2000	200 Over	3~8	1.5~3
			NN-250	2-6	500~2000	200 Over	3~8	1.5~3
			NN-300	2-6	500~2000	200 Over	3~8	1.5~3
			NN-350	2-6	500~2000	200 Over	3~8	1.5~3
			NN-400	2-6	500~2000	200 Over	3~8	1.5~3
Polyester Nylon (EP, PN)	Polyester	Nylon	EP-100	2-6	500~2000	200 Over	3~8	1.5~3
			EP-150	2-6	500~2000	200 Over	3~8	1.5~3
			EP-200	2-6	500~2000	200 Over	3~8	1.5~3
			EP-250	2-6	500~2000	200 Over	3~8	1.5~3
			EP-300	2-6	500~2000	200 Over	3~8	1.5~3
			EP-350	2-6	500~2000	200 Over	3~8	1.5~3
			EP-400	2-6	500~2000	200 Over	3~8	1.5~3
			EP-500	2-6	500~2000	200 Over	3~8	1.5~3

## Ordering code

### 800 G 1000 3/1.5 (NN4)

- 800 - Belt strength
- G - Usage code
- 1000 - Belt width
- 3/1.5 - Top and Bottom cover rubber thickness
- (NN4) - Fabric category and plies



## Steel cord conveyor belt

With shock resistance, flexure resistance, high-tension resistance, fatigue resistance, less elongation and good trough-ability, the steel cord conveyor belt is used for long distance high-speed large capacity Conveying.

Type: ST630-6000

Width: 800-2200mm

Category: There is heat resistance, cold resistance and fire resistance except general use.

We can provide you with steel conveyor belt whose one or both side are crossly strengthened by synthetic fiber cords for resisting impact and tear.

## Section structure

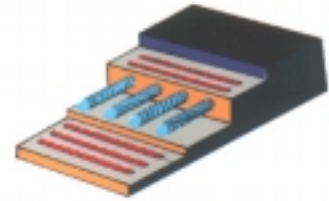
### General Type

As shown in figure, the general type comes with core rubber and steel cord.



### Impact resistance and rip proof Type

This type comes with Top cover rubber, core rubber, steel cord, synthetic cord and bottom cover rubber.



## Codes and standards

Physical and mechanical performance conform to GB9770-88 as well as ISO, DIN, AS, JIS, RMA, ΓOCT.

## Specifications

TYPE	ST630	ST800	ST1000	ST1250	ST1600	ST2000	ST2500	ST3150	ST4000	ST5000	T6000
Min. tensile strength (N/mm)	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6000
Max Cord diameter (mm)	3.0	3.2	4.0	4.5	5.0	5.7	7.2	7.6	9.1	10.05	12
Min Actual cord breaking load (KN)	7.49	9.35	13.56	17.91	24.36	27.08	41.74	53.6	76.33	96.20	115
Steel cord pitch (mm)	10	10	12	12	12	12	15	15	17	17	17
Belt thickness (mm)	13	14	16	17	17	20	22	25	25	29	32
Cover thickness top (mm)	5	5	6	6	6	8	8	8	8	10	12
Cover thickness bottom (mm)	5	5	6	6	6	6	6	8	8	8	8
Belt width (mm)	Number of steel cords										
800	75	75	63	63	63	63	50	50			
1000	95	95	79	79	79	79	64	64	56	55	55
1200	113	113	94	94	94	94	76	76	68	67	67
1400	133	133	111	111	111	111	89	89	79	78	78
1600	151	151	126	126	126	126	101	101	91	90	90
1800		171	143	143	143	143	114	114	103	102	102
2000			159	159	159	159	128	128	114	114	114

\* The thickness of belt and cover can be agreed upon

## Ordering code

### ST-1250 G 1200 Φ4.5 6/6

- ST - Steel cord conveyor belt symbol
- 1250 - Tensile strength
- G - Cover rubber property symbol
- 1200 - Belt width
- Φ4.5 - Steel cord diameter
- 6/6 - Top and bottom cover rubber thickness



## Edge-up Belt

### Right angle edge up belt



#### Description

There are right angle side fences at both sides of the belt with height of 10 ~ 30mm.

#### Usage

Used for handling of powder, particle, paste and liquid.

### Wedge edge up belt

#### Description

There are disconnected wedges higher than the belt thickness at both sides of the belt with height of 20 ~ 80mm.

#### Usage

Used for handling scatter-able powder, particle and small gravel.

### Wavy edge up belt

#### Description

There are continuous wavy side fences at both sides of the belt with height of 60 ~ 300mm.

#### Usage

Used for handling scatter-able powder, particle, small gravel, paste and liquid.

## Specification

Belt width  $\leq$  2400mm

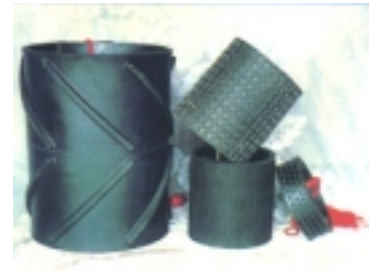
Available in normal, heat proof ( $\leq$ 120°C), anti-freeze ( $\geq$ -40°C), acid and alkali resistant, anti static, extra heat proof ( $\leq$ 150°C) and sanitary types.

Also welcome for customized order.



## Pattern belt

Patterned belt consists of belt and pattern. The pattern comes in different shapes and depths to choose for specific material handled and conveyor angle designed.



## Chevron belt

There are open type and closed type; each type has high, medium and low pattern.

Used for handling powder, particle, small gravel and bags of materials on conveyor with angle of less than 40°.

## Cleated belt

There are different spans between bars. Each bar comes with three choice of height, high, medium, low.

Used for handling packed materials on conveyors at  $\leq 30^\circ$  or horizontal. It has same function as chevron belt on troughing idlers.

## Rough top belt

There are convex dots or concave pits on the belt. Convex dots are used to handle soft packing or non slippery shipping such as carton while concave pits particles on conveyors at less than 45°.

Specification

Belt width  $\leq 2400\text{mm}$

## Narrow V belt

### Structure

Among V shape belt series, when the ratio of tope width (b) and height (h) equals to 1.1 ~ 1.3, the V belt is called narrow V belt which has some good features.



### Features

Its tensile layer is composed of EP threads to make the belt strong, heat resistant and less extendable. The belt is mainly composed of chloroprene rubber, which gives the belt comprehensive feature such as heat, oil, wear proof and age proof.

### Model and section

The belt comes in two series which are sp series (metric standard) and V series (BS standard).

Figure	Dimension	Metric				BS		
		SPZ	SPA	SPB	SPC	9N(3V)	15N(5V)	25N(8V)
	B	10.0	13.0	17	22	9.0	15.0	25.0
	Bp	8.5	11.0	14	19	--	--	--
	Belt height	8.0	10.0	14	18	8.0	13.0	23.0
	He	2	2.8	3.5	4.8	--	--	--
	$\alpha$	40°						

### Ordering code

#### Metric

**SPA 1800**

SPA -- Model SPA

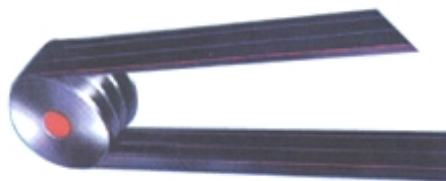
1800 -- Pitch perimeter

#### BS

**15N (5V) 900**

15N (5V) -- Model, 15N (5V)

900 -- effective outer circumference=90"



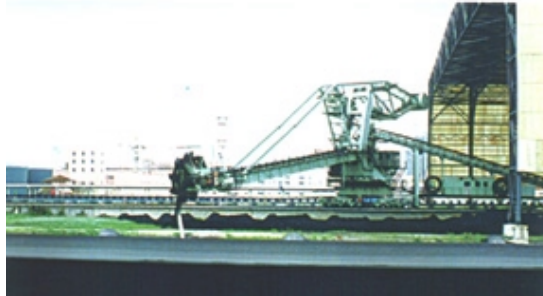
## Specialized conveyor belt

To be used for various special materials under harsh conditions.

Types, features and applications

Belt category	Feature	Application
Heat resistance	$\leq 120^{\circ}\text{C}$	To handle material at $\leq 120^{\circ}\text{C}$
High temp. Resistance	$\leq 150^{\circ}\text{C}$	To handle material at $\leq 150^{\circ}\text{C}$
Anti-freeze belt	$\geq -40^{\circ}\text{C}$	To handle material at $\geq -40^{\circ}\text{C}$
Anti static belt	To eliminate electrostatic from conveyor system	To use at system likely to cause electrostatics.
Acid and alkali proof belt	PH value at $7 \pm 3$	To handle material at PH value at $7 \pm 3$ .
Heat proof & acid, alkali resistant belt	PH value = $7 \pm 3$ at $\leq 140^{\circ}$	Hot, acid, alkali materials and conveyor system for P - fertilizer production.
Food conveying belt	Non toxic, pollution free.	Unpacked food and drugs.
Wear resistance belt	Wear $\leq 0.40 \text{ CM}^3/1.6\text{KM}$	Transfer or discharging line.
Impact resistance belt	Stronger impact resistance	Large gravel & high lift.
Flame retardant belt	Upto standard for flame retardant	Used at inflammable area.
Oil resistant belt	No problem when soaked in oil.	To handle oily material.

\* Customized conveyor belts are welcomed.



## Ring type conveyor belt



### Description

Ring type conveyor belt is the belt made to be a closed circle out of factory. The main advantage is that the strength at cord connection is 90% of that of the belt. The belt also runs stable with less elongation.

### Structure

The belt cord is made of quality cotton or cotton mixed with canvas. 2 - 6 layers in general. It also comes with NN-200 or EP as reinforcement layer, 2 - 6 layers totally.

Max width is 2400mm

Available in normal, heat resistant ( $\leq 120^{\circ}$ ), anti-freeze (not less than  $-40^{\circ}\text{C}$ ), acid, alkali resistant, anti-static, high temperature resistance ( $\leq 150^{\circ}\text{C}$ ) and sanitary type.

### Table of length and max tolerance

Length m	Max tolerance mm
Less than 15	$\pm 50$
15 - 20	$\pm 75$
Longer than 20	$\pm 0.5\%$

## PVCR Flame Retardant Conveyor belt

Flame retardant conveyor belt not only has the feature of fire precaution such as electrostatic elimination, low heat increase by friction, it stops burning itself when fire source moves away from the belt.

### Safety property

(Conforms to [BS3289](#))

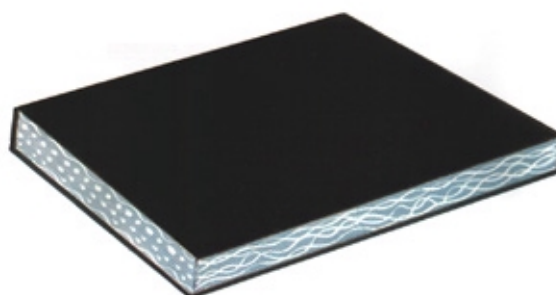
#### 1)Anti-static property:

Surface resistance (average)  $\leq 3 \times 10^8 \Omega$

#### 2)Fire resistance:

The burning time of the whole belt for the duration of flame and non-reappearance of flame  $\leq 3$ sec, single one  $\leq 10$ sec.

The burning time of the belt without covers for the duration of flame and non-reappearance of flame  $\leq 5$  sec, single one  $\leq 15$  sec.



#### 3)Roller friction test:

The temperature of roller Surface  $\leq 325^\circ \text{C}$ .

#### 4)Propane burning test at channel:

Normal: Undamaged length of whole width after test piece burning  $\geq 250$ mm.

## Specifications

Belt code		3	4	5	6	7
Belt Type		580s	680s	800s	1000s	1250s
Belt thickness (min mm)		7.5	8	8.5	8.5	9
$\geq \text{N/mm}$ Breaking load of the belt	warp	580	680	800	1000	1250
	Weft	245	265	280	300	350
Minimum Elongation at break	Warp	17	17	15	-	-
	Weft	18	18	18	18	18
Maximum working tensions		58	68	80	100	125
Adhesive strength Cover and Carcass		3.15	3.15	3.15	3.15	3.15
Belt Width (mm)		800~1200	800~1200	800~1200	800~1200	800~1200
Kg/m <sup>2</sup> Belt weight (consult)		11.0	12.0	12.7	12.7	13.3

\* Specifications are subject to change without notice.

## Contact information



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