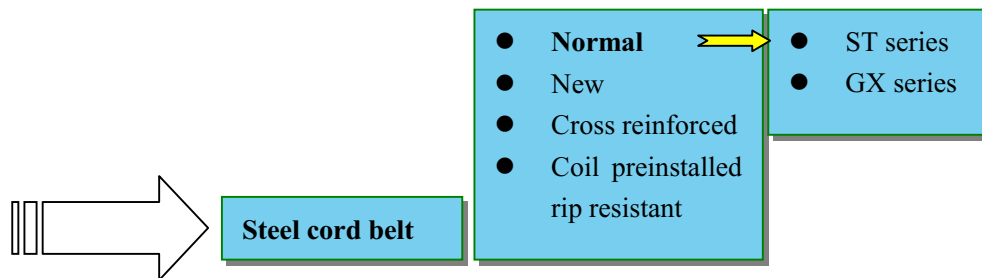


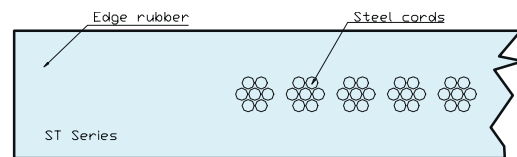
## Steel cord conveyor belt

### Category



### Structure and features

#### Normal structure

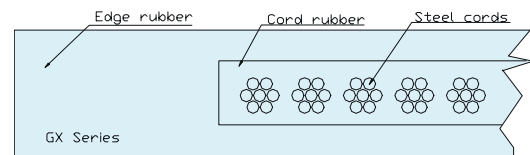


#### ST series

This structure includes edge rubber, top and bottom rubber and steel cords.

#### GX series

This structure includes cord rubber besides all above ST series components.



#### Features:

- Large tensile strength,
- Long life,
- Less elongation,
- Good troughability,
- Excellent flexibility.
- Suitable for long distance, heavy load, high speed feeding.

#### New structure

##### New features added to normal structure:

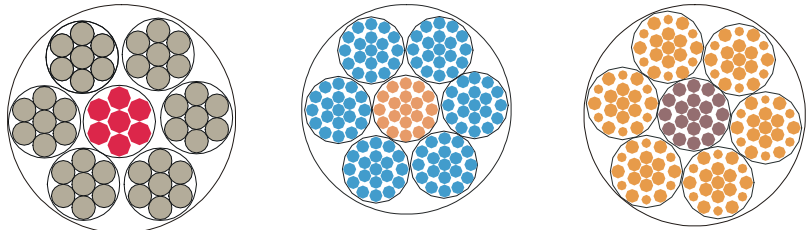
Wires in steel cords are well soaked with cord rubber, which,

- increased bind force between cords and rubber,
- More rust proof,
- Excellent dynamic fatigue resistance,

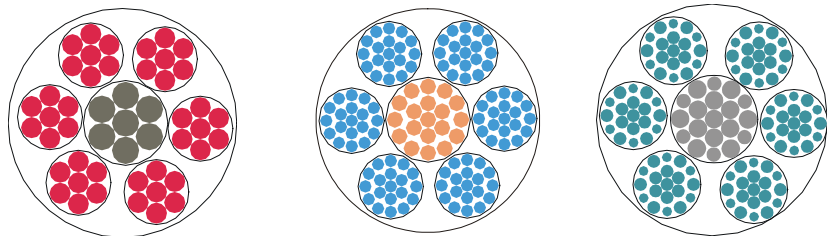
- Lessened shear and torque between wires,
- Increased service life.

## Comparison of the cord between normal and new structure belt

### Normal



### New



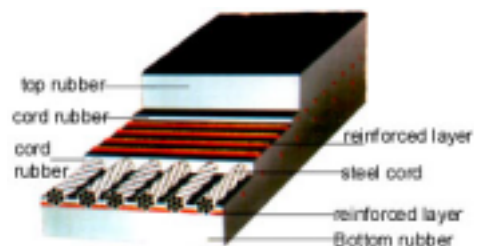
## Cross reinforced structure

### Structure

Besides the vertical steel cords, A layer or double of cross steel cords, cord fabric, fiber cords, fabric cloth crossly laid evenly.

### Features

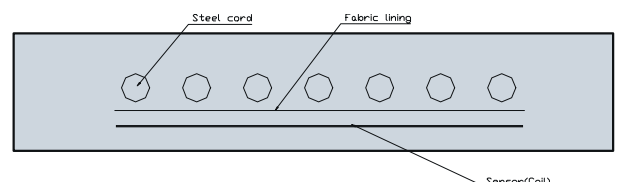
- Good impact resistance.
- Excellent rip resistance.



## Coil preinstalled rip resistant

### Structure

Coils which has sensing ability are buried between cord rubber and bottom rubber layers. Coil rings are laid evenly on rubber lining cloths layer which has good adhesive force.



### Features

- High sensitivity,
- Sound or light alarm or belt stop by control device within one second when rubber ripped,
- Excellent interference resistance.

## Main technical data for ST series steel cord

Item	Belt strength code												
	ST630	ST800	ST1000	ST1250	ST1600	ST2000	ST2500	ST3150	ST4000	ST4500	ST5000	ST5400	ST6300
Long. Tensile strength N/mm	630	800	1000	1250	1600	2000	2500	3150	4000	4500	5000	5400	6300
Nominal dia. Of steel cord mm	3.0	3.5	4.0	4.5	5.0	6.0	7.5	8.1	9.1	9.7	10.9	11.3	12.3
Normally used steel cord mm	2.8	3.2	4.0	4.5	4.9	5.7	6.8	7.6	9.1	9.7	10.9	11.3	12.3
Distance between cords mm	10	10	12	12	12	12	15	15	17	16	17	17	18
Top rubber thickness mm	5	5	6	6	6	6	8	8	8	8	8.5	9	10
Bottom rubber thickness mm	5	5	6	6	6	6	6	8	8	8	8.5	9	10
Reference weight kg/m <sup>2</sup>	18	19.5	21.5	22.2	26.1	33.1	35.3	41.1	45	51	59	62	65
Belt width mm	Number of wires in steel cords												
800	75	75	63	63	63	63	50	50					
1000	95	95	79	79	79	79	64	64	56	60	56	56	54
1200	113	113	94	94	94	94	76	76	68	72	68	68	63
1400	133	133	111	111	111	111	89	89	79	84	79	79	74
1600	151	151	126	126	126	126	101	101	91	96	91	91	85
1800		171	143	143	143	143	114	114	103	107	103	103	96
2000			159	159	159	159	128	128	114	120	114	114	107
2200							176	141	141	125	133	125	118
2400							193	155	155	137	146	137	129
2600							209	168	168	148	158	148	140
2800									160	170	160	160	151

\* Rubber weight varies as top rubber thickness and density changes.

\*\* Conveyor belt comes in standard length 100 ~ 350mm. Actual length shall be discussed with client according to conditions such as rubber thickness, width, transportation and erection.



## Main technical data for GX Series steel cord belts

Item	Strength code													
	GX630	GX800	GX1000	GX1250	GX1600	GX2000	GX2500	GX3000	GX3500	GX4000	GX4500	GX5000	GX5500	GX6000
	Belt thickness													
	6+7+6	6+7+6	6+7+6	6+7+6	7+9+7	7+9+7	8+11+8	8+12+8	8+12+8	8+13+8	8+14+8	8+14+8	8+16+8	8+16+8
Tensile strength N/mm	630	800	1000	1250	1600	2000	2500	3000	3500	4000	4500	5000	5500	6000
Max dia of steel cord mm	4.5	4.5	4.5	4.5	6.0	6.0	7.2	8.3	8.7	9.1	9.7	10.9	11.3	12.3
Cords distance mm	20	17	13.5	11	20	16	17	18	18	17	16	17	17	18
Belt thickness mm	19	19	19	19	23	23	27	28	28	29	30	30	32	32
* Reference weight kg/m <sup>2</sup>	23.9	21.3	25	25.7	32.2	33.7	40.2	41.9	43.6	46.6	49.8	51.8	55.9	57.9
Belt width mm	Number of wires in steel cords													
800	38	45	56	69	38	47	44	43						
1000	48	56	70	87	48	60	56	53	53	56	60	56	56	54
1200		68	86	104	58	72	68	64	64	68	72	68	68	63
1400			100	122	66	84	78	74	74	79	84	79	79	74
1600			116	140	76	95	90	86	85	90	96	91	91	85
1800			127	157	86	108	102	96	96	101	107	103	103	96
2000			142	173	96	120	113	107	107	113	120	114	114	107
2200						132	125	118	118	125	133	125	125	118
2400						146	177	129	129	137	146	137	137	129
2600						158	148	140	140	148	158	148	148	140
2800						170	160	151	151	160	170	160	160	151

\* Reference weight means the belt weight of dimension 1m x 1m.

Recommended minimum pulley diameter used with the belts

ST series

Belt code	ST630	ST800	ST1000	ST1250	ST1600	ST2000	ST2500	ST3150	ST4000	ST4500	ST5000	ST5400	ST6300
Min diameter of pulley mm	500	500	630	800	1000	1000	1250	1400	1600	1600	1800	1800	1800

GX series

Belt code	GX630	GX800	GX1000	GX1250	GX1600	GX2000	GX2500	GX3000	GX3500	GX4000	GX4500	GX5000	GX5500	GX6000
Min diameter of pulley mm	800	800	800	800	1000	1000	1250	1400	1600	1600	1800	1800	2000	2000



## Calculation method of areas of conveyor belts

$$Area = Width(m) \times \frac{Belt \text{ Thickness}(mm)}{1.5mm} \times Length(m)$$

## Ordering code

Example:

ST series	ST	1000	800	φ 3.5	5 x 5*	L	Zhanghua	8808
	Steel cord	Rubber strength	Belt width	Max dia of steel cord	Top & bottom rubber	Belt Basic feature code	Trade mark	Manufacture date

\* the alphabet T shall be added after top & bottom rubber for cross reinforced type.

ST series	GX	1000	800	(6+7+6)*	L	Zhanghua	8808
	Steel cord	Rubber strength	Belt width	Top + cord + bottom rubber	Belt Basic feature code	Trade mark	Manufacture date

\* the alphabet T shall be added after top & bottom rubber for cross reinforced type.

## Categories and standards

Category	Standard and main technical data
* Normal	GB9770
High grade	Q/02XJLC 122      DIN 22131 X Class
Flame retardant	HG2539 II Type      MT147
Normal flame retardant	Q/02XJLC 37      HG 2539 I Type
Heat resistant	HG2297
Wear resistant	Wear ≤ 90mm <sup>3</sup>
Heat & wear resistant	Heat ≤ 125 °C      wear ≤ 150mm <sup>3</sup>
Acid, alkali, oil resistant	Q/02XJLC 52
Cold resistant	Hardening temperature -20 ~ -50°C
Ozone resistant	Density of ozone 50 x 10 <sup>-6</sup> m <sup>3</sup> /m <sup>3</sup> no turtle cracks within 40°C/72h
New structure	Q/02XJLC 122      DIN 22131

\* ST series conforms to GB9770, GX Series Q/QD 439 Standards of Shandong province.

## Contact information

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