GRANDRUBBER®

Engineered for Endurance

PRODUCT MANUAL

CONVEYOR BELTS

Sidewall belts / Specialized belts / Selection inputs

QINGDAO GRAND RUBBERS CO.,LTD

PRODUCT SELECTION & APPLICATIONS
Conveyor products for industrial bulk material handling.
Specifications, application guidance and inquiry information.

COMPANY OVERVIEW

Industrial rubber. Practical selection.

GRAND RUBBER supplies industrial conveyor belts, rubber sheets, rubber linings, cow mats and related rubber products for international B2B customers.

01 Start with the application

Share material, temperature, load, belt speed and site conditions so that the specification can be reviewed against the operating requirements.

02 Define the specification

Identify dimensions, construction, cover grade, quantity, packing and required documents. Agree the final specification and commercial terms before placing the order.

APPLICATION-FOCUSED SUPPLY

This manual covers product construction, selection inputs, application examples and conveying-system accessories. Contact our team with your operating conditions, drawings and required quantity.

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01

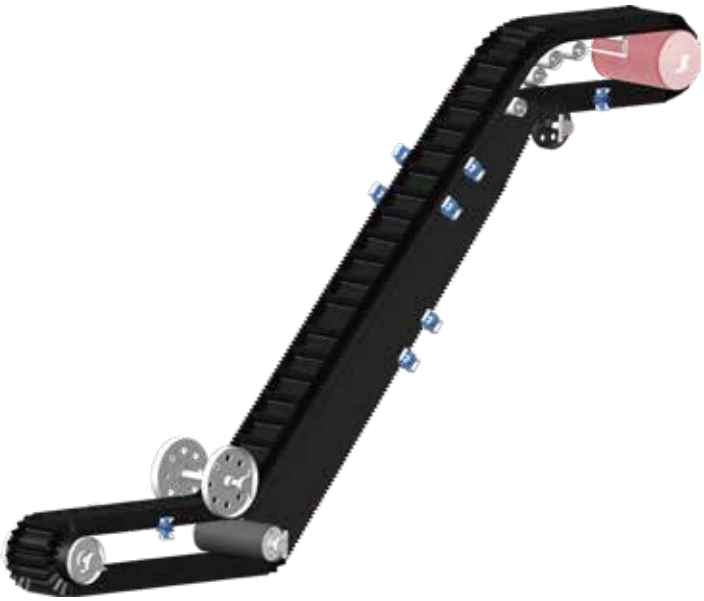
SIDEWALL CONVEYOR BELTS

Base belt / Sidewall / Cleat / Inquiry forms

Sidewall Conveyor Belt

Benefits

- Steep incline conveying from 0~90°
- Wide range of applications for conveying materials
- Large conveying capacity, high elevation range
- Small footprint
- Stable operation, long service life
- Low investment and maintenance costs



Applications

Sidewall conveyor belts are used for bulk material handling in steep incline applications in port, metallurgy, tunnelling, hydraulic engineering, power, mining, building material, grain, chemical and cement industries.

Selection Considerations

Match the base belt, sidewall and cleat geometry to the conveying duty.
Check material size, bulk density, capacity, lift height, incline and belt speed.
Select the rubber grade for abrasion, heat, oil, cold or chemical exposure.
Confirm pulley arrangement, transition geometry and splicing requirements.

Capability

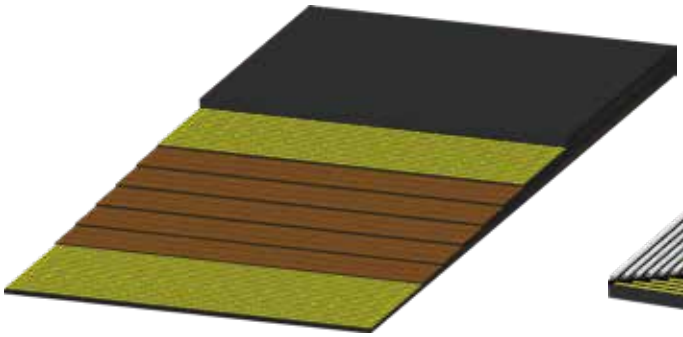
- Belt Width: 300-2800mm
- Sidewall Height: 40-630mm
- Cleat Height: 35-600mm
- Belt Strength: 250-10000N/mm

Hot Vulcanization Assembly

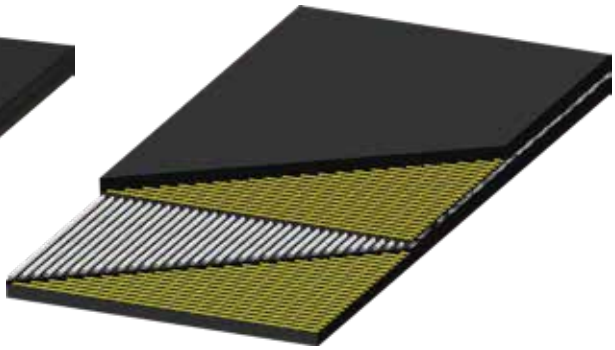
- The sidewall and cleat are hot vulcanized to the base belt to achieve high adhesive strength.
- Sidewall and cleat adhesion will not be affacted due to high temperature material.

Method	Cold Bonding	Hot Vulcanization
Adhesion	≥10N/mm	> 17N/mm

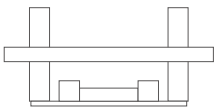
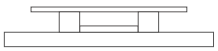
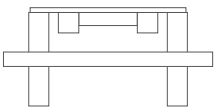
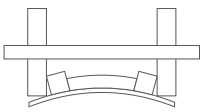
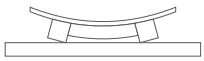
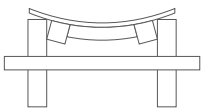
Base Belt



Fabric Base Belt



Steel Cord Base Belt

Cross-rigid Base Belt				
Conventional Base Belt				

Rubber Quality

- Abrasion-resistant
- High/Moderate Oil-resistant
- Cold-resistant
- Acid & Alkali-resistant
- Heat-resistant (100~150°C)
- High Temperature-resistant (150-250°C)
- Flame-retardant
- Anti-stick
- Other Customized Types

Cross-rigid Base Belt

Base Belt Type	Strength (N/mm)	Cover Thickness (mm)	Est. Weight (Kg/m²)			Min. Pulley Dia. (mm)
 QXE	250/2	2:2	8.60			315
	400/3	4:2	12.90			400
 QXE+2	400/3+2	4:2	15.30			630
	500/3+2	4:2	15.70			630
	630/3+2	4:2	16.30			630
	630/4+2	4:2	17.00			800
	800/4+2	4:2	17.30			800
	800/5+2	4:2	18.40			1000
	1000/5+2	4:2	18.90			1000
	1250/5+2	4:2	20.55			1250
	1250/6+2	4:2	21.70			1250
 QXE-SC+2	315/2+2	4:2	18.40			315
	400/3+2	4:2	19.60			400
	500/3+2	4:2	19.95			400
	630/3+2	4:2	20.60			400
	630/4+2	4:2	21.40			500
	800/4+2	4:2	21.70			500
	800/5+2	4:2	23.00			630
	1000/5+2	4:2	23.30			800
	1250/5+2	4:2	24.90			1000
	1250/6+2	4:2	25.50			1000
 QXST-SC+2			**315RE**	**500RE**	**800RE**	
	1250	8:8	31.40	33.10	34.90	800
	1600	8:8	33.20	34.80	36.60	1000
	2000	8:8	34.90	36.50	38.40	1000
	2500	8:8	38.90	40.60	42.30	1250
	3150	8:8	42.30	43.80	45.80	1400
	3500	8:8	43.80	45.40	47.20	1400
	4000	8:8	45.80	47.50	49.30	1600
	4500	8:8	48.60	50.20	52.10	1600
	5000	8:8	51.20	52.80	54.70	1600
	5400	8:8	53.10	54.70	56.50	1800
	6000	8:8	56.10	57.70	59.60	1800
	6000	9:9	59.40	61.10	62.90	1800
	6300	9:9	60.50	62	63.80	1800
	7000	10:10	66.20	67.70	69.50	2000
	7500	10:10	69.10	70.60	72.40	2000
	8000	10:10	70.70	72.20	74	2200
	9000	11:11	77.10	78.60	80.40	2200
	10000	11:11	83.30	84.80	86.60	2400

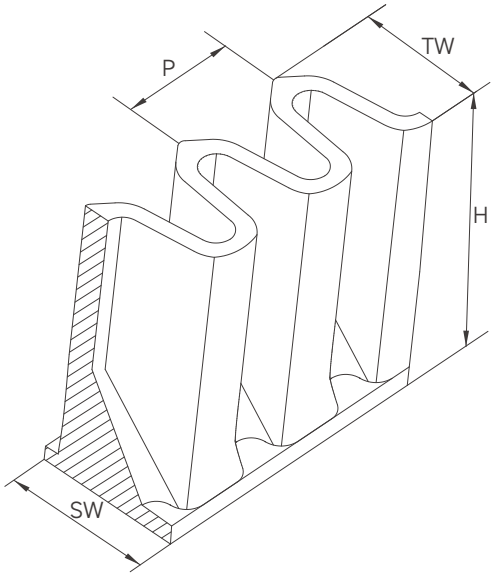
Remarks: Data above are subject to normal abrasion resistant rubber quality.

Sidewall conveyor belts require certain tensile strength and wear resistance.
In order to meet the requirements of angle change, the base belt is required to be flexible in the longitudinal direction and shall have certain rigidity in the transverse direction.
GRAND RUBBER sidewall conveyor belt adopts the cross-rigid base belt with a special structure, which solves the problem of belt deformation during the operating process.

Sidewall

Features

- Specially designed rubber compound delivers excellent flexing and fatigue resistance.
- Sidewall is incorporated with fabric reinforcement to effectively prevent cracks.
- Dynamic fatigue testing simulates on-site working conditions to ensure product reliability.



Rubber Quality

- Abrasion-resistant
- High/moderate oil-resistant
- Heat-resisstant (100~150°C)
- High Temperature-resistant (150~250°C)
- Cold-resistant
- Flame-retardant
- Acid & Alkali-resistant
- Other Customized Types

Type	H (mm)	Sw (mm)	Tw (mm)	P (mm)	Est. Weight (Kg/m)	Min. Pullley Dia. (mm)
S	40	30	20	25	0.48	160
	60	50	45	40.7	1.38	200
	80	50	45	40.7	1.66	200
	100	50	45	40.7	2.00	250
	120	50	45	40.7	2.21	315
Diagonal fabric reinforcement is suggested for sidewall higher than 120mm. This carcass reinforcement is also available for sidewall below 120mm.						
MDSF	120	75	65	63.5	3.61	315
	160	75	65	63.5	4.18	400
	200	75	65	63.5	4.88	500
	240	75	65	63.5	5.87	630
	250	75	65	63.5	6.10	630
	280	75	65	63.5	6.76	800
	300	75	65	63.5	6.98	800
HHDF	300	100	88	84	11.98	800
	400	100	88	84	14.83	1000
	500	100	88	84	17.73	1250
	630	100	88	84	21.90	1600
Remarks: Data above are subject to DINY quarity.						

Cleat

Features

- European standard molds.
- Specially designed rubber compound to enable excellent abrasion resistance and long service life.
- Optimized configuration to allow small deformation under pressure and higher loading capacity in vertical lifting operations.



Type	Height (mm)	Base Width (mm)	Est. Weight (Kg/m)	Min. Pulley Dia. (mm)
 C	55	100	1.40	125
	75	100	1.47	150
	90	110	3.01	250
	110	110	3.57	315
 T	55	100	1.58	125
	75	100	1.82	150
	90	110	2.53	250
	110	110	3.11	315
	140	160	5.70	400
	180	160	6.81	500
	230	160	8.71	630
 TC	55	75	1.17	125
	75	100	1.93	150
	90	110	3.57	250
	110	110	3.72	315
	140	150	5.70	400
	180	150	6.81	500
	220	160	7.75	630
	230	160	7.85	630
	280	180	14.34	800
 TC-XS	220	160	10.27	630
	230	160	11.05	630
	280	160	15.18	800
	360	230	25.45	1000
	470	230	30.6	1250
	470 (Heavy)	230	39.05	1250
	600	240	76.50	1600

Remarks: Data above are subject to DINY quarity.
Fabric reinforcement is suggested for cleat higher than 110mm. This carcass reinforcement is also available for cleatbelow 110mm.

Application Cases



Largest Conveying Capacity_2350TPH

COFCO Beiliang Port

- Conveying Capacity: 2350TPH
- Material: Grain
- Belt Speed: 3.15m/s
- Lifting Height: 18m
- Conveying Angle: 60°
- Belt Specification: S500 B2000 TC-XS470



Highest Vertical Lifting_112m/Steel Industry

China's First Million-ton Hydrogen-based Shaft Furnace

- Conveying Capacity: 250TPH
- Material: Pellet
- Belt Speed: 1.25m/s
- Lifting Height: 112m
- Conveying Angle: 90°
- Belt Specification: S300 B1200 TC-XS280



Highest Vertical Lifting_255m/Mining

Record of Vertical Lifting in China

- Conveying Capacity: 200TPH
- Material: Gold ore
- Belt Speed: 2m/s
- Lifting Height: 255m
- Conveying Angle: 90°
- Belt Specification: S240 B1200 TC220
- Heavy duty base belt: ST6300



Longest Sidewall Belt_920m

Mexico Silver Mine

- Conveying Capacity: 150TPH
- Material: Silver Ore
- Belt Speed: 2m/s
- Lifting Height: 420m
- Conveying Angle: 90°
- Belt Specification: S240 B1372 TC230
- Heavy duty base belt: ST6300

Belt Replacement

Selected conveyor-belt replacement projects across industrial bulk material handling applications.



CHN Energy



China Huaneng Group



COFCO



Shaanxi Coal and Chemical



Huayi Group



Henan Energy Group

Applications | Steel Industry

High Temperature Resistance, Large Capacity, Long Life

The steel industry deals with high temperature and high density materials and faces the challenges of belt premature aging, cleat fall-off, short service life and frequent downtime due to replacement. Considering this, GRAND RUBBER continuously optimizes the belt design and rubber compound to deliver the high-temperature resistant, large capacity, long-life sidewall belting, offerig a more cost effective and efficient solution for the material handling system.



BaoWu group-Zhanjiang Steel

- Conveying Capacity : 250TPH
- Material : Pellet
- Belt Speed : 1.25m/s
- Lifting Height : 112m
- Conveying Angle : 90°
- Belt Specifications : S300 B1200 TC-XS280 263m



TATA Steel

- Conveying Capacity : 290TPH
- Material : Coke
- Belt Speed : 1.8m/s
- Lifting Height : 20.51m
- Conveying Angle : 90°
- Belt Specifications : S400 B1600 TC-XS360 95m



Jiangsu Yonggang Steel

- Conveying Capacity : 200TPH
- Material : Limestone
- Belt Speed : 1.6m/s
- Lifting Height : 32.3m
- Conveying Angle : 45°
- Belt Specifications : S200 B1200 TC180 121m



Thyssenkrupp

- Conveying Capacity : 1000TPH
- Material : Ore
- Belt Speed : 2.0m/s
- Lifting Height : 48m
- Conveying Angle : 90°
- Belt Specifications : S400 B2000 TC-XS360 128m



CITIC Pacific-Jiangyin Xingcheng Special Steel

- Conveying Capacity : 500TPH
- Material : Slag
- Belt Speed : 1.6m/s
- Lifting Height : 18m
- Conveying Angle : 70°
- Belt Specifications : S400 B1400 TC-XS360 63.82m



Posco

- Conveying Capacity : 250TPH
- Material : Coal
- Belt Speed : 2m/s
- Lifting Height : 25m
- Conveying Angle : 70°
- Belt Specifications S200 B800 TC180 70m



GOLGOHAR

- Material: Oxide Pellet
- Specification: S120/50 B800 TC110
- Length: 250m



Jindal Steel

- Conveying Capacity : 144TPH
- Material : Quicklime
- Belt Speed : 1.3m/s
- Lifting Height : 23.85m
- Conveying Angle : 90°
- Belt Specifications : S250 B1200 TC230 74m



AMNS

- Material: Oxide Pellet
- Specification: S240 B1200 TC240 ST1600
- Length: 142m



METALLOINVEST

- Conveying Capacity: 455TPH
- Material : Pellet
- Belt Speed : 1.6m/s
- Lifting Height : 93m
- Conveying Angle : 90°
- Belt Specifications : S300 B1400 TC260 219.88m

Applications | Power Industry / Waste Recycle



Huaneng Shantou Power Plant

- Conveying Capacity : 1370TPH
- Material : Coal
- Belt Speed : 2.6m/s
- Lifting Height : 18.5m
- Conveying Angle : 90°
- Belt Specifications : S500 B1800 TC-XS470 76.64m



CHN Energy Yongzhou Power Plant

- Conveying Capacity : 1760TPH
- Material : Coal
- Belt Speed : 2.8m/s
- Lifting Height : 78m
- Conveying Angle : 90°
- Belt Specifications : S500 B2000 TC-XS470 190m



Zhejiang Group Shaoxing Binhai Thermal Power

- Conveying Capacity : 1000TPH
- Material : Coal
- Belt Speed : 2.8m/s
- Lifting Height : 39.1m
- Conveying Angle : 47°
- Belt Specifications : S400 B1800 TC-XS360 108m



Union Belt Industries Co. Ltd.

- Material: Waste/Scrap
- Specification: S400 B1400 TCS360 ST2000
- Length: 132m

Applications | Chemical / Cement Industry



Yankuang Engergy Group

- Conveying Capacity : 600TPH
- Material : Coal
- Belt Speed : 1.6m/s
- Lifting Height : 61.35m
- Conveying Angle : 40.3°
- Belt Specifications : S400 B1400 TC-XS360 241m



JK Cement, India

- Conveying Capacity : 1650TPH
- Material : Limestone
- Belt Speed : 2.25m/s
- Lifting Height : 30m
- Conveying Angle : 90°
- Belt Specifications : S400 B2000 TC-XS360 79.3m



NORINCO Group

- Conveying Capacity : 109TPH
- Material : Urea
- Belt Speed : 1.6m/s
- Conveying Angle : 18.61°
- Belt Specifications : S160 B800 TC140 67.8m



Shaanxi Coal Group Beiyuan Chemical Industry

- Conveying Capacity : 100TPH
- Material : Semi-coke
- Belt Speed : 1.25m/s
- Lifting Height : 27.8m
- Conveying Angle : 90°
- Belt Specifications : S200 B1000 TC180 74m



Huayi Group

- Conveying Capacity : 320PH
- Material : Raw coal
- Belt Speed : 1.6m/s
- Lifting Height : 41.02m
- Conveying Angle : 60°
- Belt Specifications : S240 B1200 TC-XS220 140m



Hebi Coal Power

- Conveying Capacity : 400TPH
- Material : Coal
- Belt Speed : 2.4m/s
- Lifting Height : 30m
- Conveying Angle : 90°
- Belt Specifications : S300 B1400 TC-XS280 94.57m

Applications | Tunneling

The tunneling projects are confronted with the challenges of high material impact, large lump size and serious material carryback. GRAND RUBBER successfully developed the fit-for-purpose sidewall conveyor belt which features excellent impact resistance, high loading capacity and good anti-stick performance to help customers solve the challenges.



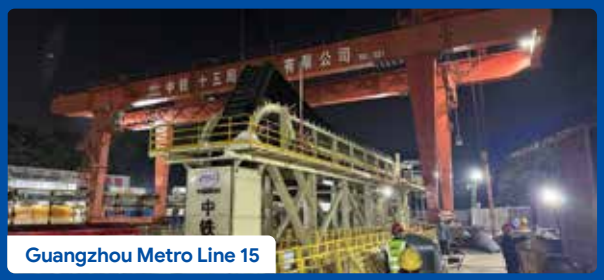
Qingdao Metro Line 1

- Conveying Capacity : 808TPH
- Material : Rocks, Sand
- Belt Speed : 2.15m/s
- Lifting Height : 35.7m
- Conveying Angle : 90°
- Belt Specifications : S400 B1600 TC-XS360 137m



Chongqing Urban Rail

- Conveying Capacity : 600TPH
- Material : Clay, sand and gravel
- Belt Speed : 2m/s
- Lifting Height : 56m
- Conveying Angle : 90°
- Belt Specifications : S400 B1400 TC-XS360 157.6m



Guangzhou Metro Line 15

- Conveying Capacity : 1000TPH
- Material : Clay, sand and gravel
- Belt Speed : 1.8m/s
- Lifting Height : 40m
- Conveying Angle : 90°
- Belt Specifications : S400 B1800 TC-XS360 153.9m



Metro, Russia

- Conveying Capacity : 1000TPH
- Material : Clay, sand and gravel
- Belt Speed : 3.3m/s
- Lifting Height : 23.43m
- Conveying Angle : 90°
- Belt Specifications : S400 B1600 TC-XS360 86.5m



Beijing Metro Line 19

- Conveying Capacity : 160TPH
- Material : Rocks, Sand
- Belt Speed : 1.25m/s
- Lifting Height : 31.1m
- Conveying Angle : 90°
- Belt Specifications : S240 B1000 TC220 86m



Metro, Japan

- Conveying Capacity : 1080TPH
- Material : Sand
- Belt Speed : 1.8m/s
- Lifting Height : 46.7m
- Conveying Angle : 90°
- Belt Specifications : S500 B1400 TC-XS470 133m



Shenzhen Metro

- Conveying Capacity : 500TPH
- Material : Clay, Sand
- Belt Speed : 1.6m/s
- Lifting Height : 43.5m
- Conveying Angle : 90°
- Belt Specifications : S400 B1400 TC-XS360 164m



Metro, Germany

- Conveying Capacity : 800TPH
- Material : Sand
- Belt Speed : 2.3m/s
- Lifting Height : 28m
- Conveying Angle : 90°
- Belt Specifications : ES400 B1800 TC-XS360 78.62m



Guangzhou Metro GuangFu line

- Capacity: 400TPH
- Material: Rock / Sand
- Belt Speed: 1.6m/s
- Lift Height: 56.96m
- Specification: B1400 ST2000 S400 TCS360 149.5m



Metro India

- Material: Rock / Sand
- Specification:B1200 S360 TCS330 ST4500
- Length: 410m



Pearl River Delta Water Resources Allocation Project

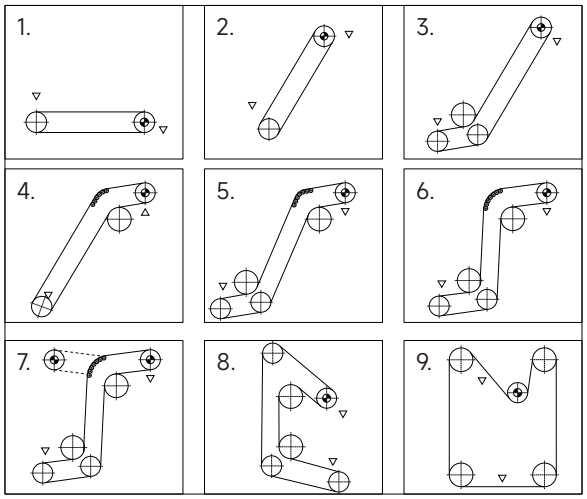
- Conveying Capacity : 640TPH
- Material : Clay
- Belt Speed : 2.5m/s
- Lifting Height : 67.47m
- Conveying Angle : 85°
- Belt Specifications : S400 B1400 TC-XS360 189m

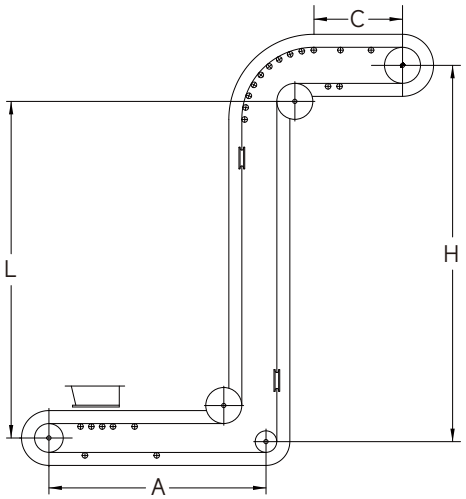


Dubai Hydraulic Engineering Project

- Conveying Capacity : 700TPH
- Material : Sand
- Belt Speed : 2.3m/s
- Lifting Height : 47m
- Conveying Angle : 90°
- Belt Specifications : S400 B1600 TC-XS360 137.64m

Inquiry Questionaire (New Installation)





Material

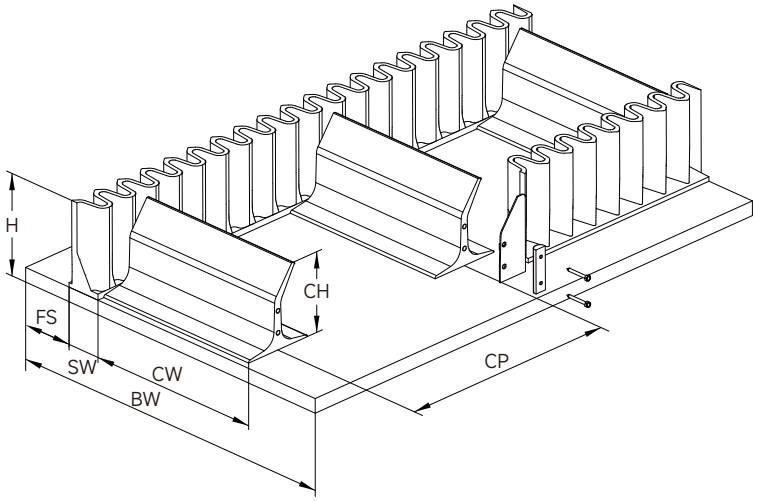
* Materials	
* Capacity Required	TPH
* Density	T/m^3
* Max. Lump Size	mm
Moisture	%
Dynamic Angle of Repose	Deg.°
Materials Temperature	℃

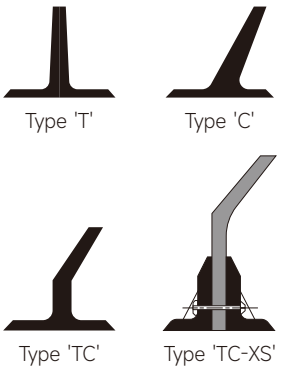
Convoyor Specification

* Configuration	
Required Belt Width	mm
* (C) Top Horizontal Length	m
* (A) Bottom Horizontal Length	m
* (H) Vertical Lift	m
* Inclination	°
* Belt Speed	m/s

Fields with * are required.

Inquiry Questionaire (Replacement)





Belt Specification

Belt Width (BW)			mm
Cleat Width (CW)			mm
Sidewall Height (H)			mm
Cleat Height (CH)			mm
Cleat Type			(See drawings)
Cleat Pitch (CP)			mm
Sidewall Width (SW)			mm
Inset (FS)			mm
Belt Length	☐ Open	☐ Endless	m
Belt Strength/Plies			N/mm
Cross Rigid Type	☐ Monofilament fabric	☐ Steel breaker	
Thickness of Cover Rubber (top&bottom)			mm
Rubber Grade/Material and Temperature			
Side Blinker	☐ YES	☐ NO	

Declaration of Storage and Offloading

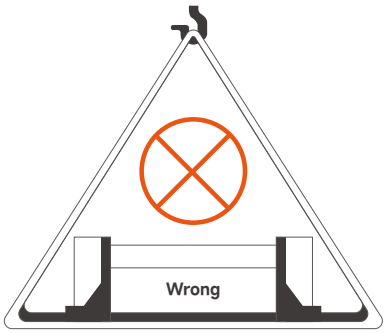
To protect sidewall conveyor belt properly, it must be stored in steel crate or container during transport until installation. The belt should be stored in a place that dry, away from direct sunlight and thermal environment. Long-term temperature variation will cause adverse effects to belt. The ideal storage environment for temperature is between 10-21 degrees Celsius. It will make the belt sclerosis or curing if it is long-term exposed to temperatures lower than 5 degrees, which will cause the belt offtrack after installation and what's more, to impact the operation effect and belt service life.

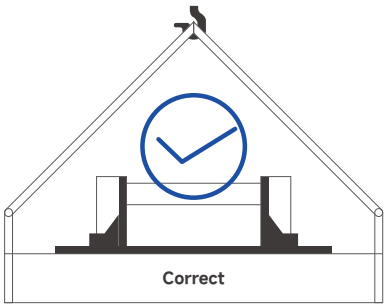
All GRAND RUBBER Conveyor Belts leave the production line packed in such a way as to ensure safe transportation. It is essential that when offloading and unpacking the belt that the utmost care be taken not to damage the belt. The belt should be unpacked / lifted as the following sketches; it is most important that under **NO CIRCUMSTANCES** a steel cable or rope should be used to lift the belt either out of a crate or onto the conveyor.

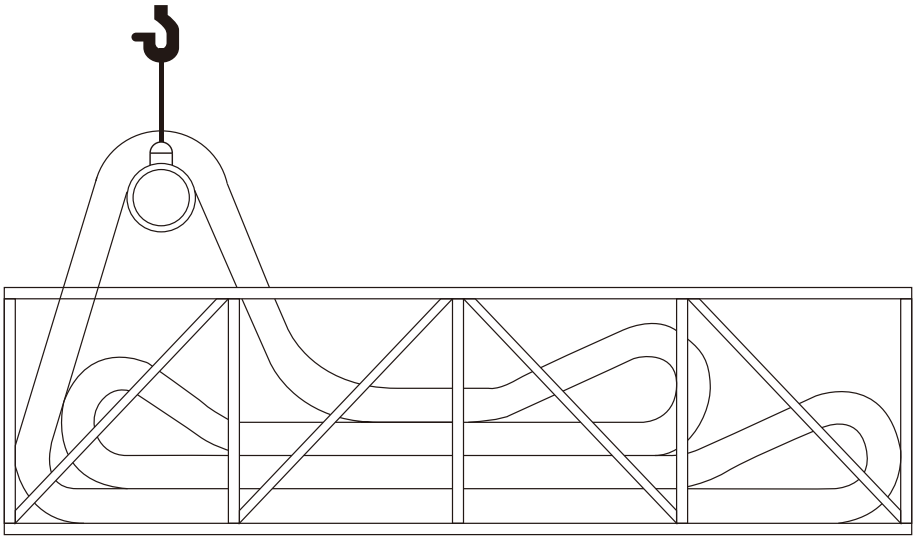
Lifting appliance:

*Steel cable / rope, one piece, it's diameter is NOT less than φ12mm，length is 5m-6m.

*Round roller for hoisting, one piece, its diameter is NOT less than two times of sidewall height, length MUST be longer than belt width at least 200mm.







Correct method of removing an endless belt from a steel crate

Handling of Steel Crates

When handling the steel crates, it is important to always lift the crate from underneath by straps or by chains, do not lift the crates at any other point as damage may result.

Trouble Shooting

Troubles	Corrective Actions					
Belt runs off tail pulley	7	14	13	16	20	-
Entire belt runs off at all points of the line	24	16	14	20	4	15
One belt section runs off at all points of the line	2	10	1	-	-	-
Belt runs off at head pulley	14	21	20	15	-	-
Belt runs to one side of the entire length	14	15	20	-	-	-
Belt slip	18	7	20	13	21	-
Belt slip on starting	18	7	21	9	-	-
Excessive belt stretch, belt sagging	12	9	20	6	8	
Belt breaks at or behind mechanical fasteners	2	22	12	21	19	9
Mechanical fasteners tear loose	12	22	9	19	2	-
Vulcanised splice separation	2	22	12	19	11	25
Excessive wear, including rips, gauges, ruptures and tears	11	23	16	20	8	5
Excessive bottom cover wear	20	13	5	18	19	21
Excessive edge wear, broken edges	24	4	16	8	1	20
Cover swells in spots or streaks	8	-	-	-	-	-
Belt hardens or cracks	8	22	21	17	-	-
Covers became checked or brittle	8	17	-	-	-	-
Longitudinal grooving or cracking of top cover	25	13	20	11	-	-
Longitudinal grooving or cracking of bottom cover	13	20	21	-	-	-
Fabric decay, carcass cracks, ruptures, gauges	11	19	5	9	-	-
Soft spots in belt	5	8	11	19	-	-
Ply separation	12	22	10	8	3	-

1. **Belt bowed.** - Avoid telescoping belt rolls or storing in damp locations. A new belt should straighten out when "broken in" or it must be replaced.
2. **Belt improperly spliced or wrong fasteners.** - Use correct fasteners. Retighten after running for a short while. If improperly spliced, remove belt splice and make new splice. Set up regular inspection schedule.
3. **Belt speed too fast.** - Reduce belt speed.
4. **Belt strained on one side.** - Allow time for new belt to "break in". If belt does not break in properly or is not new, remove strained section and splice in a new piece.
5. **Breaker strip missing or inadequate.** - When service is lost, install belt with proper breaker strip.
6. **Take-up tension too high.** - Recalculate tension required and adjust take up accordingly. Reduce take-up tension to point of slip, then tighten slightly.
7. **Counterweight too light.** - Recalculate weight required and adjust counterweight or screw take-up accordingly.
8. **Damage by abrasives, acid, chemicals, heat, mildew, oil.** - Use belt designed for specific condition. For abrasive materials working into cuts and between plies, make spot repairs with cold patch or with permanent repair patch. Seal metal fasteners or replace with vulcanised step splice. Enclose belt line. for protection against rain, snow, or sun. Don't over-lubricate idlers.
9. **Drive underbelted.** - Recalculate maximum belt tensions and select correct belt. If line is overextended, consider using two-flight system with transfer point. If carcass is not rigid enough for load, install belt with proper flexibility when service is lost.
10. **Edge worn or broken.** - Remove badly worn or out-of-square section and splice in a new piece.
11. **Excessive impact of material on belt or fasteners.** - Use correctly designed chutes and baffles. Make vulcanized splices. Install loading idlers. Where possible, load fines first. Where material is trapped under skirts, adjust skirtboards to minimum clearance or install cushioning idlers to hold belt against skirts.
12. **Excessive tension.** - Recalculate and adjust tension. Use vulcanised splice within recommended limits.
13. **Frozen idlers. - Free idlers. Lubricate.** Improve maintenance. (Don't over-lubricate)
14. **Idlers or pulleys out-of-square with centre line of conveyor.** - Realign. Install limit switches for greater safety.
15. **Idlers improperly placed.** - Relocate idlers or insert additional idlers spaced to support belt.
16. **Improper loading, spillage.** - Feed should be in direction of belt travel and at belt speed, centered on the belt. Control flow with feeders, chutes and skirtboards.
17. **Improper storage or handling.** - Refer to storage and handling tips.
18. **Insufficient traction between belt and pulley.** - Lag drive pulley. In wet conditions, use grooved lagging. Install correct cleaning devices for safety. See item 7, above.
19. **Material between belt and pulley.** - Use skirtboards properly. Remove accumulation. Improve maintenance.
20. **Material build-up.** - Remove accumulation. Install cleaning devices. Improve housekeeping.
21. **Pulley lagging worn.** - Replace worn pulley lagging. Use grooved lagging for wet conditions. Tighten loose and protruding bolts.
22. **Pulleys too small.** - Use larger diameter pulleys.
23. **Relative loading velocity too high or too low.** - Adjust chutes or correct belt speed. Consider use of loading idlers.
24. **Side loading.** - Load in direction of belt travel, in center of conveyor.
25. **Skirts improperly placed.** - Install skirtboards so that they do not rub against belt.

02

SPECIALIZED CONVEYOR BELTS

Steel cord / Fabric / Chevron / Pipe / Special applications

Steel Cord Conveyor Belt



Features

- Small Elongation
- High Tensile Strength
- Lower Operating Cost
- Uniform Tension of Steel Cord
- Small Pulley Diameter Required
- Excellent Adhesion
- Good Troughability
- X-ray Inspection Available
- Lightweight and Energy-saving

Rubber Quality

- Low Rolling-resistant
- Oil-resistant
- Acid & Alkali-resistant
- Heat-resistant
- Normal Abrasion-resistant
- Flame-retardant
- High Abrasion-resistant
- Cold-resistant
- Anti-stick

Applications

Steel cord conveyor belts are widely used for high volume and long distance transfer of lumps, granules, powders in coal, minging, port, metallurgy, power plant and chemical industries.

GB/T 9770-2013

Parameters / Spec.	ST630	ST800	ST1000	ST1250	ST1600	ST2000	ST2500	ST3150	ST3500	ST4000	ST4500	ST5000	ST5400	ST6300	ST7000	ST7500
Tensile Strength (N/mm)	630	800	1000	1250	1600	2000	2500	3150	3500	4000	4500	5000	5400	6300	7000	7500
Max. Cord Dia. (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	12.8	13.5	15
Cord Pitch (mm)	10	10	12	12	12	12	15	15	15	15	16	17	17	19.5	19.5	21
Top Cover Thickness (mm)	4	4	4	4	4	4	5	5.5	6	6.5	7	7.5	8	10	10	10
Bottom Cover Thickness (mm)	4	4	4	4	4	4	5	5.5	6	6.5	7	7.5	8	10	10	10
Width	**Cord Number**															
800	75	75	63	63	63	63	50	50	50	51	48	45	45	N/A	N/A	N/A
1000	95	95	79	79	79	79	64	64	64	64	59	55	55	N/A	N/A	N/A
1200	113	113	94	94	94	94	76	76	77	77	71	66	66	58	59	54
1400	133	133	111	111	111	111	89	89	90	90	84	78	78	68	69	64
1600	151	151	126	126	126	126	101	101	104	104	96	90	90	78	80	73
1800	171	171	143	143	143	143	114	114	117	117	109	102	102	89	90	83
2000			159	159	159	159	128	128	130	130	121	113	113	99	100	92
2200						176	141	141	144	144	134	125	125	109	110	102
2400						193	155	155	157	157	146	137	137	119	119	110
2600						209	168	168	170	170	159	149	149	129	129	120
2800						226	181	181	183	183	171	161	161	139	139	129
3000						243	195	195	195	195	183	172	172	149	149	139
3200						260	208	208	208	208	196	184	184	160	160	149

DIN 22131-2016

Parameters / Spec.		ST1000	ST1250	ST1600	ST2000	ST2500	ST3150	ST3500	ST4000	ST4500	ST5000	ST5400
Tensile Strength (N/mm)		1000	1250	1600	2000	2500	3150	3500	4000	4500	5000	5400
Max. Cord Dia. (mm)		4.1	4.9	5.6	5.6	7.2	8.1	8.6	8.9	9.7	10.9	11.3
Cord Pitch ±1.5 (mm)		12	14	15	12	15	15	15	15	16	17	17
Cover Thickness (mm)		4	4	4	4	5	5.5	6	6.5	7	7.5	8
Width	**Limit Dev.**	**Cord Number**										
500	±5	39	34									
650	±7	51	44									
800	±8	64	55	50	64							
1000	±10	81	69	64	81	64	64	64	64	59	55	55
1200	±10	97	84	77	97	77	77	77	77	71	66	66
1400	±12	114	98	90	114	90	90	90	90	84	78	78
1600	±12	131	112	104	131	104	104	104	104	96	90	90
1800	±14	147	127	117	147	117	117	117	117	109	102	102
2000	±14	164	141	130	164	130	130	130	130	121	113	113
2200	±15	181	155	144	181	144	144	144	144	134	125	125
2400	±15	197	169	157	197	157	157	157	157	146	137	137
2600	±15	214	184	170	214	170	170	170	170	159	149	149
2800	±15	231	198	184	231	184	184	184	184	171	161	161
3000	±15	247	212	197	247	197	197	197	197	184	172	172
3200	±15	264	227	210	264	210	210	210	210	196	184	184

STE-High Elongation Steel Cord Conveyor Belt



Features

- Excellent impact resistance, anti-tear resistance and troughability.
- Turning radius reduced by over 50% compared with traditional steel cord conveyor belt.
- Shorter belt transition length.
- Enable pulley diameter to be reduced by 25~40% to lower investment cost.
- High splicing strength and long splicing fatigue life.
- Alternative to heavy-duty fabric belt without significant modification of the conveyor system.
- Suitable for use with Crowned pulleys to effectively prevent belt mistracking by self alignment.

Technical Details

- Steel cords specially deigned with high elasticity and good permeability.
- Steel cords closely spaced.
- Higher steel cord pull-out strength (no failure of bonding after 50000 cycles).
- Steel cord tension evenly controlled during the manufacturing process.

Applications

The STE conveyor belt is an ideal alternative of the fabric conveyor belt especially in applications where elongation or troughability of a fabric belt fails to meet the requirement.

- Mining
- Habor
- Power plant
- Overland conveyor system
- Steel plant
- Cement plant
- Grain and salt industry

Technical Data Sheet

Parameters \ Spec	STE 500	STE 630	STE 800	STE 1000	STE 1250	STE 1400	STE 1600	STE 1800	STE 2000	STE 2250
Tensile Strength (N/mm)	500	630	800	1000	1250	1400	1600	1800	2000	2250
Tensile Range (N/mm)	65	80	100	125	160	175	200	225	250	280
Tensile Range (PIW)	360	450	570	715	900	1000	1145	1285	1430	1600
Warp Cord Diameter (mm)	2.85	2.85	2.85	2.85	2.85	3.5	3.9	3.9	4.5	4.5
Cord Diameter (mm)	4×7	4×7	4×7	4×7	4×7	4×7	4×7	4×7	4×7	4×7
Warp Cord Pitch (mm)	14.4	11.4	9.0	7.2	5.8	6.2	6.2	5.6	6.4	5.8

Weft Cord	One Anti-rip Layer Constant Load Elongation: 0.4-0.6%									
Weft Cord Diameter (mm)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Weft Cord Pitch (mm)	8	8	8	8	8	6	6	6	6	6
Min. Thickness of Top Cover (mm)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Min. Thickness of Bottom Cover (mm)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Weft Cord	Two Anti-rip Layers Constant Load Elongation: 0.4-0.6%									
Weft Cord Diameter (mm)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Weft Cord Pitch (mm)	10	10	10	10	10	8	8	8	8	8
Min. Thickness of Top Cover (mm)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Min. Thickness of Bottom Cover (mm)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

Width (mm)	Limit Dev.	Cord Number									
650	-7/+10	42	52	66	82	102	96	96	107	92	102
762	-8/+10	49	62	78	98	121	113	113	126	107	120
800	-8/+10	52	65	82	103	127	119	119	132	113	127
914	-9/+10	59	75	94	118	146	136	136	152	129	145
1000	±10	65	83	103	129	160	149	149	167	142	158
1067	±10	70	88	110	138	171	159	159	178	151	169
1200	±10	80	100	124	156	192	179	179	200	170	190
1220	±10	81	102	126	158	195	182	182	204	173	194
1372	±12	91	115	143	178	220	205	205	229	194	218
1400	±12	93	117	146	182	226	210	210	234	198	222
1524	±12	102	128	160	198	245	228	228	255	216	242
1600	±12	107	135	168	208	257	240	240	269	227	254
1676	±14	112	141	176	218	270	252	252	282	238	266
1800	±14	121	152	190	236	290	271	271	303	256	286
1828	±14	123	155	194	240	296	275	275	308	260	291
1981	±14	134	168	210	260	310	300	300	/	282	310
2000	±14	135	170	212	262	/	302	302	/	284	/

STE Series Minimum Pulley Diameters											
Pulley Diameters	@100%	400	400	500	500	630	630	800	800	800	1000
Pulley Diameters	@60%	315	315	400	400	500	500	630	630	630	800
Pulley Diameters	@30%	250	250	315	315	400	400	500	500	500	630
Pulley Diameters	Snubs	200	200	250	250	315	315	400	400	400	500

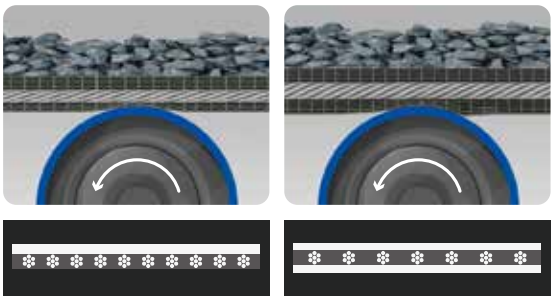
Notes:
- Tension Ranges are dependent upon startup acceleration speeds.
- All warp cords are eqiui-tensioned during belt production curing to ensure tensionon distribution.
- Maximum widths can be increased if necessary by utilizing larger cord diameter warp cords.
- Elastic breakers also available on a 4mm (DD) pitch as well as with sensor loops tracking breaker configuration
- Minimum pulley diameters are based upon a percentage of the tension range at an 8 safety factor
- Approx.cover rubber densities for D-Series use 1.12 kg/sq. m. K-Series use 1.20kg. /sq. m.

STH-High Strength Steel Cord Conveyor Belt



Features

- Indentation deformation lowered by 30%~60%.
- Cover rubber abrasion resistance improved by 50% compared with the traditional conveyor belt.
- Accommodate to smaller drive pulley, suitable for bend pulley minimum to 200mm.
- Available for longer roll length to reduce belt joints.
- High splicing strength (over 95% of the belt rating).



Technical Details

- Belt configuration and steel cord specially designed to achieve light weight and high strength.
- Low rolling resistance rubber used as the cover to reduce tangent of the loss angle by 20%.
- Belt indentation resistance deformation and friction significantly lowered to realize conveyor system energy saving.

Applications

The STH conveyor belt is suitable for long distance and high capacity conveying in different applications.

- Mining
- Steel plant
- Habor
- Cement plant
- Power plant
- Grain and salt industry
- Overland conveyor system

Technical Data Sheet

Spec / Parameters	STH 800	STH 1000	STH 1250	STH 1400	STH 1600	STH 1800	STH 2000	STH 2250	STH 2500
Tensile Strength (N/mm)	800	1000	1250	1400	1600	1800	2000	2250	2500
Tensile Range (N/mm)	100	125	160	175	200	225	250	280	315
Tensile Range (PIW)	570	715	900	1000	1145	1285	1430	1600	1785
Warp Cord Diameter (mm)	2.60	3.10	3.10	3.10	3.70	3.70	3.80	4.50	4.50
Cord Diameter (mm)	7×7	7×7	7×7	7×7	7×7	7×7	7×7	7×7	7×7
Warp Cord Pitch (mm)	8.0	9.5	7.7	6.8	8.5	7.6	7.2	8.8	8.0

Weft Cord	One Anti-rip Layer Constant Load Elongation: 0.4-0.6%								
Weft Cord Diameter (mm)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Weft Cord Pitch (mm)	8	8	8	6	6	6	6	6	6
Min. Thickness of Top Cover (mm)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Min. Thickness of Bottom Cover (mm)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Weft Cord	Two Anti-rip Layers Constant Load Elongation: 0.4-0.6%								
Weft Cord Diameter (mm)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Weft Cord Pitch (mm)	10	10	10	8	8	8	8	8	8
Min. Thickness of Top Cover (mm)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Min. Thickness of Bottom Cover (mm)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

Width (mm)	Limit Dev.	Cord Number								
650	-7/+10	75	65	81	91	73	82	86	69	77
762	-8/+10	88	77	95	107	86	96	101	81	90
800	-8/+10	92	81	100	112	90	101	106	85	94
914	-9/+10	104	93	114	128	103	115	121	97	108
1000	±10	114	101	125	140	112	126	133	106	118
1067	±10	122	108	134	150	120	135	142	114	126
1200	±10	138	122	151	169	135	152	160	128	142
1220	±10	142	124	154	172	138	155	163	130	144
1372	±12	160	139	173	194	155	174	183	146	162
1400	±12	162	142	176	198	158	178	187	149	166
1524	±12	176	156	192	216	173	194	204	163	181
1600	±12	186	164	202	228	182	204	214	171	190
1676	±14	196	172	212	238	191	214	225	179	199
1800	±14	210	185	228	256	205	230	241	192	213
1828	±14	214	188	232	260	208	233	245	195	217
1981	±14	234	204	252	282	226	254	266	212	235
2000	±14	236	206	254	284	228	256	268	214	238

STH Series Minimum Pulley Diameters										
Pulley Diameters	@100%	500	630	800	800	800	800	800	1000	1000
Pulley Diameters	@60%	400	500	630	630	630	630	630	800	800
Pulley Diameters	@30%	315	400	500	500	500	500	500	630	630
Pulley Diameters	Snubs	250	315	400	400	400	400	400	500	500

Notes:
- Tension Ranges are dependent upon startup acceleration speeds.
- All warp cords are eqiui-tensioned during belt production curing to ensure tensionon distribution.
- Elastic breakers also available on a 4mm (DD) pitch as well as with sensor loops tracking breaker configuration.
- Minimum pulley diameters are based upon a percentage of the tension range at an 8 safety factor.
- Approx.cover rubber densities for D-Series use 1.12 kg/sq. m. K-Series use 1.20 kg./ sq. m.

Fabric Conveyor Belt

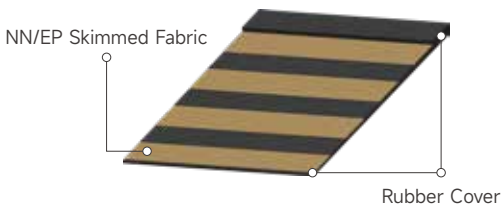


Features

- Good elasticity, high tensile strength and impact resistance, excellent flexing performance and troughability, low elongation.
- Suitable for medium/long-distance, high load and high speed conveying.
- Resistant to oil, acid & alkali, abrasion, heat and fire.

Structure

Fabric conveyor belts are constructed with a combination of multi-ply impregnated NN/EP/EE fabric layers and rubber covers of different properties by calendering, laminating and hot vulcanization processes.



Rubber Quality

- Oil-resistant
- Acid & Alkali-resistant
- Heat-resistant
- Flame-retardant
- High Abrasion-resistant
- Cold-resistant
- Normal Abrasion-resistant

Truly Endless Belt



Features

The Truly Endless Belt is mainly suitable for applications requiring high-angle conveying, prevention of material spillage, and smooth operation.
Its core value lies in the endless structure, which ensures metering accuracy and durability.

- **No Joints with High Strength**
  Carcass has no joint eliminating strength loss.

- **Smooth Operation Delivers Precise Metering**
  Uniform belt tension ensures stable running without misalignment.

- **Wide Applications with Customization Options**
  Rubber cover is available for heat-resistant,cold-resistant, flame-retardant,acid & alkali-resistant, oil-resistant,wear-resistant options for various applications.

Specifications

- Length: 2-30 m
- Thickness: >8mm
- Belt width: ≤1500 mm
- Sidewall height: Customizable

[If your requirements beyond the specifications above,please contact us for custom solutions.]

Chevron Conveyor Belt



Features

- Cleats are integrally vulcanized on the belt with high adhesion to prevent coming off.
- Various pattern designs are available to meet conveying inclination angles.
- High flexibility and excellent performance ensures excellent performance and longer service life.

Capability

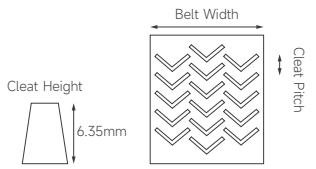
- Cleat Height: 5mm, 8mm, 10mm, 15mm, 17mm, 20mm, 25mm, 32mm.
- Belt Width: 300~2000mm.

Applications

Our Chevron belts are designed for sand and gravel, crushed rock, wood chip, coal and iron, bagged material, grains, road construction, waste management and barge and railroad car unloading.

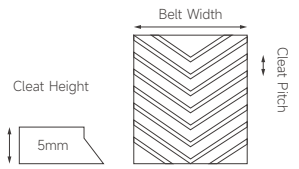
Rubber Quality

- Flame-retardant
- Abrasion-resistant
- Acid & Alkali-resistant
- Heat-resistant
- Oil-resistant
- Cold-resistant



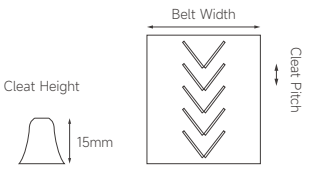
Mult/v

Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
6.35	600-1400	76	600-1400



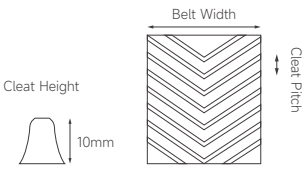
C5V

Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
5	300-1200	100	300-1200



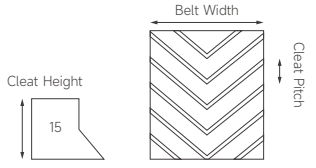
C15P385 Open Type

Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
15	385	250	500-800



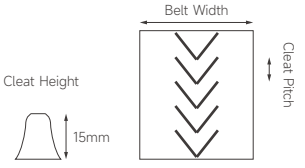
No.C10V

Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
10	300-1200	100	300-1200



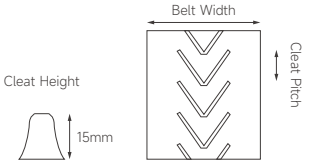
C15V

Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
15	300-1200	125	300-1200



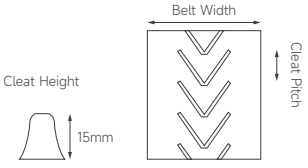
C15P750 Open Type

Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
15	750	250	800-1200



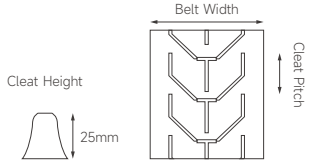
C15V330 Closed Type

Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
15	330	250	400-650



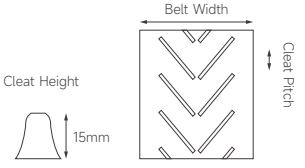
C15V450 Closed Type

Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
15	450	300	500-800



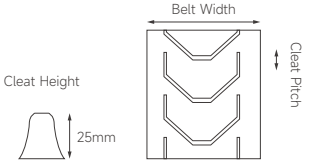
C25P550 Closed U-shaped

Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
25	550	300	600-1200



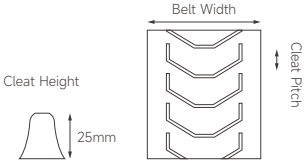
C15P600 Open Type

Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
15	600	250	650-1000



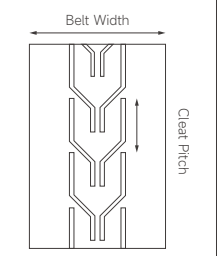
C25P450 Closed Type

Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
25	450	330	600-1200

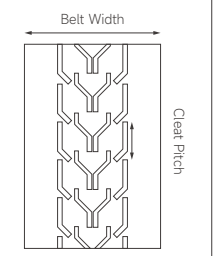


C25P750 Open U-shaped

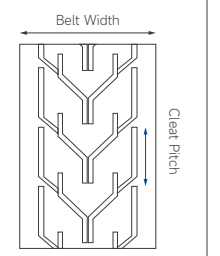
Cleat Height (mm)	Cleat Width (mm)	Cleat Pitch (mm)	Belt Width (mm)
25	750	330	1000-1200



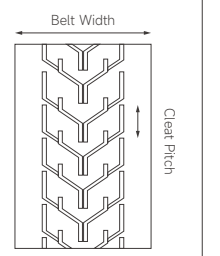
CI7P300



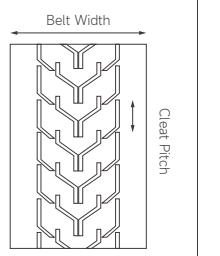
CI7P400



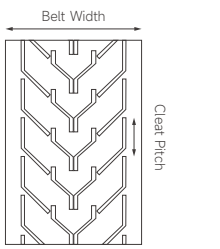
CI7P550



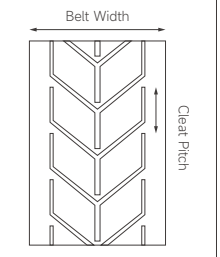
CI7P630



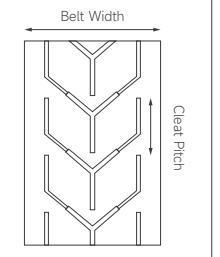
CI7P750



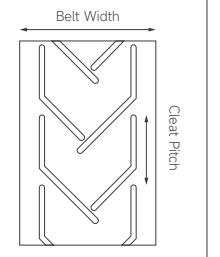
CI7P950



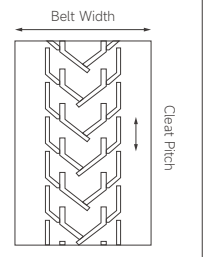
Y32P600



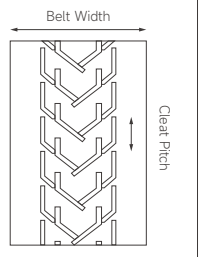
Y32P800



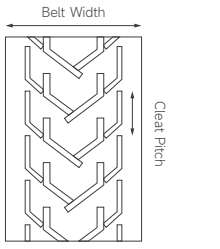
C32P460



C32P480



C32P630



C32P750

Pipe Conveyor Belt



Features

- High-tensile steel cords or textile carcass.
- Full range of cover grades with excellent dynamic properties.
- Sufficient cross rigidity to maintain pipe cross-section.
- Reinforcement with higher lengthwise elasticity for installation with tight curves.
- Unique carcass design with tailored rigidity, more flexible at belt edges to ensure tight overlapping.

Rubber Quality

- Normal Abrasion-resistant
- Heat-resistant
- Low Rolling-resistant
- Oil-resistant
- Flame-retardant
- Acid & Alkali-resistant

Applications

Pipe conveyor belts are widely used in the mining, power, metallurgy, building material and grain industries where environment protection needs to be considered on the job site.

Multi-ply Fabric Pipe Conveyor Belt

Specification

Nominal Pipe Diameter (mm)	Φ100	Φ150	Φ200	Φ250	Φ300	Φ350	Φ400	Φ500
Belt Width (mm)	360	600	800	1000	1100	1300	1600	1850

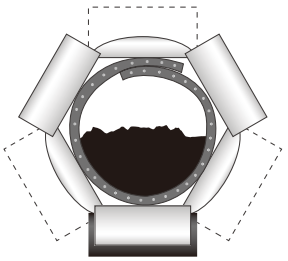
Adhesion Strength of Abrasion-resistant Belt (Type D) and Scratch-resistant Blet (Type H)

Item	Fabric to Fabric (N/mm)	Fabric to Intermediate (N/mm)	Cover to Fabric (N/mm)	
			Cover Thickness≤1.5mm	Cover thickness>1.5mm
Maximum≤	20	20	20	20
Average≥	8.0	8.0	5.0	6.0
Minimum≥	7.4	7.4	4.4	5.4

Steel Cord Pipe Conveyor Belt

Specification

Nominal Pipe Diameter (mm)	Φ200	Φ250	Φ300	Φ350	Φ400	Φ500
Belt Width (mm)	800	1000	1100	1300	1600	1850



Technical Parameters

	Cord Number												
Belt Width mm	ST630	ST800	ST1000	ST1250	ST1600	ST2000	ST2500	ST2800	ST3150	ST3500	ST4000	ST4500	ST5000
800	75	75	63	63	63	63	50	50	50	50			
1000	95	95	79	79	79	79	64	64	64	64	64	59	55
1100	105	105	87	87	87	87	69	69	69	69	69	65	61
1300	124	124	103	103	103	103	83	83	83	83	83	77	72
1600	151	151	126	126	126	126	101	101	101	101	101	96	90
1850	177	177	147	147	147	147	119	119	119	119	119	111	104
2250			181	181	181	181	145	145	145	145	145	137	125
2450			197	197	197		158	158	158	158	158	148	139

Filter Conveyor Belt



Features

- Belt features low elongation under constant load and excellent resistance to deformation.
- Belt has low elongation rate during operation.
- Quality high strength polyester fabrics are used as the carcass, resistant to acid/alkali, heat and oil.
- Continuous rinsing, leaching, siphoning and filter blanket recycle can be achieved, which enables high efficiency and productivity, excellent washing effect and high operating flexibility.
- Belt is available to be incorporated with sidewalls by hot vulcanization with high adhesion.

Capability

- Width: 0~4500mm
- Length: 20~200m
- Thickness: 20~50mm
- Top Cover: 10~30mm
- Bottom Cover: 5~15mm

Applications

Filter conveyor belts are widely used in thermal power plants (flue gas desulfurization), chemical, smelting, mineral processing, petroleum, food, mining, alumina and papermaking industries for process filtration.

Rubber Quality

- Normal Abrasion-resistant
- Heat-resistant
- Acid & Alkali-resistant
- Oil-resistant

Bucket Elevator Conveyor Belt



Features

Small footprint, small elongation, large conveying capacity, smooth operation, easy maintenance, low environmental pollution, and good adaptability to powdery materials.

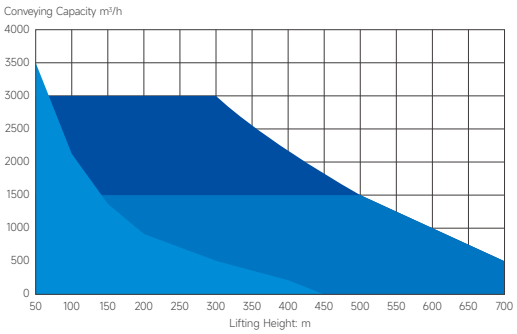
Rubber Quality

- Fabric Bucket Elevator Conveyor Belt
- Steel Cord Bucket Elevator Conveyor Belt
- DINY / DINW / DINX
- Oil-resistant/Flame-retardant/Heat-resistant (100°C/120°C/150°C/180°C)

Applications

Bucket elevator conveyor belts are designed to transfer materials vertically and are applicable to lump transfer. They are widely used in building material, mining, chemical, machinery, power and grain industries.

Lifting Height and Conveying Capacity



Technical Parameters

Base Belt	Type	Type of Carcass	Cover Thickness (mm)		Width Range (mm)
			Top	Bottom	
Regular	NN	NN100-NN400	1.5	1.5	300-2200
	EP	EP100-EP400	3.0	3.0	
Reinforced	NN	NN100-NN400	4.5	4.5	300-2200
	EP	EP100-EP400	6.0	6.0	
	ST	ST630-ST5000			
	IW	IW500-IW1600			

Heat-resistant Conveyor Belt



Introduction

Heat-resistant conveyor belts are widely used in metallurgy, cement, foundry, power, building materials and chemical industries for conveying high temperature materials such as sintered ore, coke, iron, steel castings, cement clinker, etc.

Classification

- GRAND RUBBER heat-resistant conveyor belts come in fabric heat-resistant conveyor belts and steel cord heat-resistant conveyor belt.
- Temperature Rating: T1: ≤100°C T2: ≤125°C T3: ≤150°C T4: ≤175°C T5: ≤200°C
  For applications with higher temperature, please contact us for customization.

Features

- Excellent resistance to high temperature, heat aging and ozone aging.
- Good resistance to weathering and chemicals,
  Good troughability and stability during operation.
- Long service life.
- High ply to ply adhesion strength.

Applications

Rating	Continuous Temp.	Peak Temp.	Belt Surface Temp.	Applications
T1	≤100°C	150°C	≤75°C	Low-temp. materials (e.g. hot coke, cement)
T2	≤125°C	170°C	≤100°C	Medium-temp. materials (e.g. sinter, slag)
T3	≤150°C	200°C	≤125°C	High-temp. materials (e.g. metallurgical coke)
T4	≤175°C	250°C	≤150°C	Extreme high-temp. materials (e.g. molten slag, castings)
T5	≤200°C	400°C	≤175°C	Special metallurgical processes

Cold-resistant Conveyor Belt



Features

- High elasticity
- Resist to cold
- Resist to impact
- Applicable to ambient temperature at -50°C

Applications

GRAND RUBBER cold resistant conveyor belt is engineered to operate reliably in low-temperature environments. Unlike ordinary conveyor belts that harden, crack, or lose elasticity in cold conditions—leading to frequent downtime and safety risks—it is designed to maintain flexibility, tensile strength, and wear resistance, making it indispensable for material handling in cold ambient environment.

Cover Physical Property HG/T 3647-2014

Parameters		Value		
		H	D	L
Tensile Strength (Mpa≥)		24	18	15
Elongation at Break (%≥)		450	400	350
Aging Test (70°C, 7d)	Change of Tensile Strength %	±25	±25	±25
	Change of Elongation at Break %	±25	±25	±25
Abrasion Loss mm^3≤		120	100	200
Tensile Cold-resistant Coefficient mm^3≥	C_1 (-45°C)	0.3		
	C_2 (-50°C)	0.2		
Change of Tensile Strength %	C_1 (-45°C)	±20		
	C_2 (-50°C)	±25		
Change of Elongation at Break %	C_1 (-45°C)	±20		
	C_2 (-50°C)	±30		

Note: C1 ambient working temperature -45°C~+45°C, C2 ambient working temperature -50°C~+45°C

Anti-stick Conveyor Belt





Concept

GRAND RUBBER offers the option for anti-stick conveyor belt made of anti-stick rubber compound. The belt work surface employs special anti-stick rubber compound which continuously produces anti-stick film during operation, leading to “lotus effect” so as to prevent material sticking. The anti-stick performance will last for the life of the belt.

Physical Property

- Tensile strength: Min.18 MPa
- Elongation at break: Min.450%
- Abrasion: Max.150mm^3

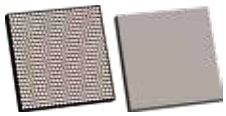
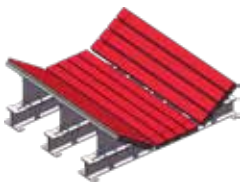
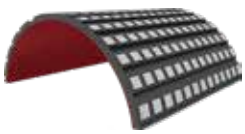
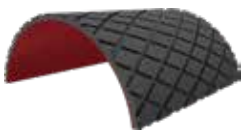
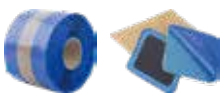
Benefits

- Excellent anti-stick performance improves unloading efficiency by 50%+.
- Job efficiency is significantly increased to lower the cost.
- Less carryback eliminates frequent maintenance for cleaning.
- Job site is much more cleaner.

Applications

The anti-stick conveyor belts are applicable to wet and sticky materials (e.g. sediment, chemical powder, clay, gypsum) in tunneling, hydraulic engineering, metallurgy and chemical industries, etc.

Conveyor System Accessories

Sealing System				
	YX Skirt Rubber	YX-S Skirt Rubber	Abrasion-resistant Skirt Rubber	Dust Curtain
Wear Protection				
	Ceramic Wear Lining	Ceramic Wear Lining	Teflon Anti-stick Wear Lining	Polymer Lining
Impact System				
	Impact Beds	LD-0 Impact Bar	LD-A Impact Bar	
Pulley Lagging				
	Ceramic Pulley Lagging	Diamond Pulley Lagging	Flat Pulley Lagging	
Repair Materials				
	GRAND RUBBER Cold Bonding Glue / GRAND RUBBER Hardener	GRAND RUBBER Metal Primer	GRAND RUBBER Cleaning Solvent	Fast Repair Sheet / Diamond Patches
Splicing Materials				
	Cover Rubber	Tie Gum	Sealing Rubber / Noodle Rubber	Splicing Clamps/Fast Screw

TECHNICAL COORDINATION

A clear path from inquiry to supply.

01 Review the specification

Resolve conflicting requirements and identify the application, material, dimensions and performance criteria.

02 Confirm the proposal

Agree the supply scope, drawings, test requirements, packing and commercial terms before order acceptance.

03 Control the handover

Record approved versions and agreed documents. Installation support and site services depend on the confirmed project scope.

Project References



LET'S REVIEW YOUR REQUIREMENT.

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+86 13780628755

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Please include specifications, quantity and application details with your inquiry.