



SIDEWALL BELT CONVEYOR BROCHURE

Henan Excellent Machinery Co.,Ltd.



PRODUCT PROFILE



The sidewall belt conveyor is suitable for horizontal, inclined and vertical transportation of bulk material. Sidewall belt conveyor can be transitioned from a horizontal layout to an inclined or vertical layout, and back to horizontal layout, no additional conveying equipments are required.

Special rubber belt, with transverse corrugated sidewall, personal pocket design and design-oriented transverse profile edge area, can be used to transport almost all types of bulk material.

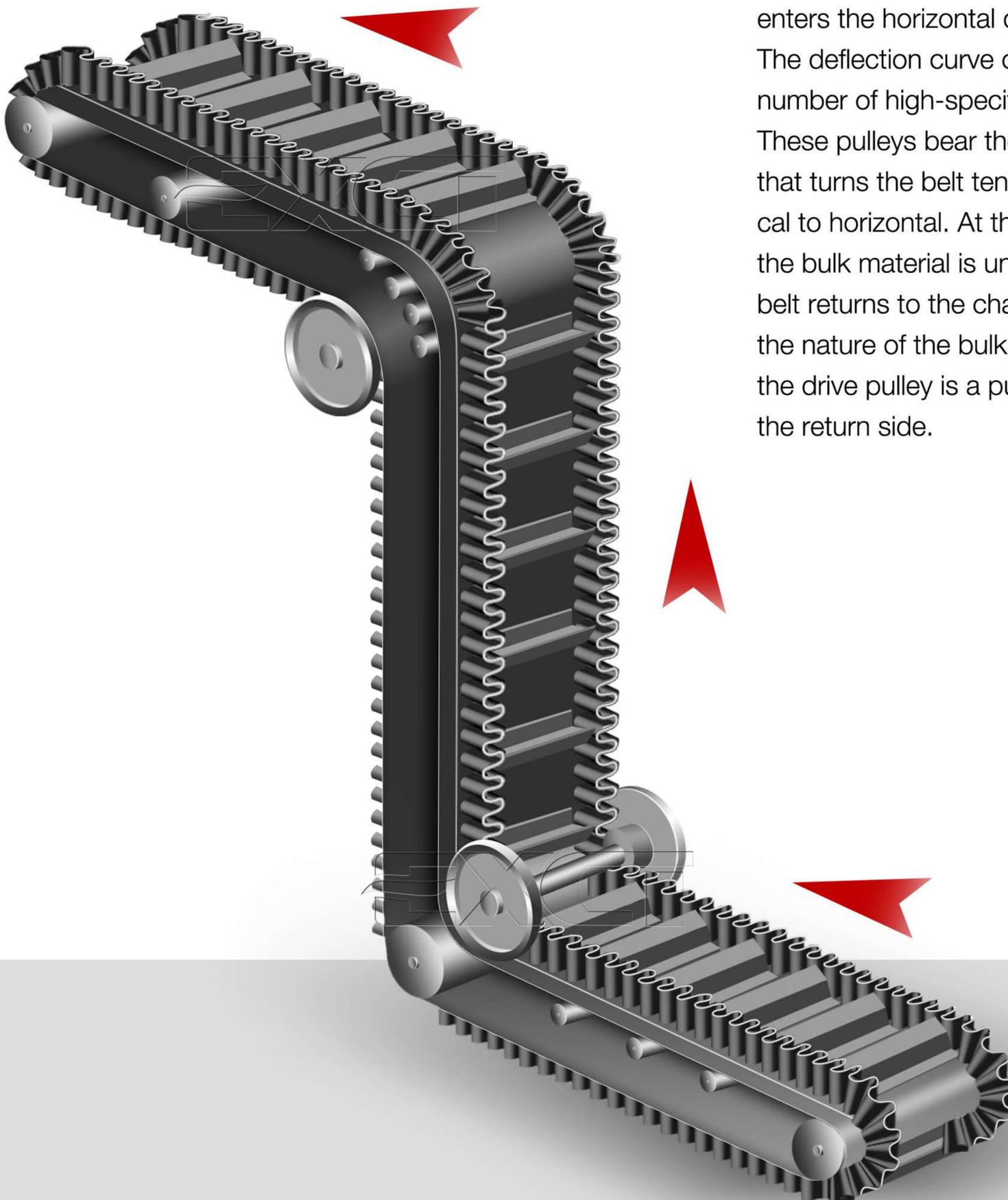
In the vertical part of the sidewall belt conveyor, the corrugated sidewall belt is suspended freely and does not need any supporting rollers and mechanical fixtures.

If necessary, the sidewall belt conveyor can be partially or completely covered with mutual protection, that is, dustproof and rain protection.

I HOW IT WORK

The horizontal loading part of the sidewall belt conveyor guides the deflector to bend the belt into the bulk material on a basic horizontal feed path, in which the sidewall belt is supported by loading impact rollers. Feeding can be achieved directly from hopper, chute, feed belt or feed pulley.

The sidewall belt conveyor vertical part exceeds a deflection curve and enters the horizontal discharge part. The deflection curve consists of a number of high-specification pulleys. These pulleys bear the vector load that turns the belt tension from vertical to horizontal. At the drive pulley, the bulk material is unloaded and the belt returns to the chain. According to the nature of the bulk material, behind the drive pulley is a pulley cleaning on the return side.



FEATURES

Low Investment Cost

Large angle or vertical conveying can be realized, thus reducing equipment cost and construction costs, which can save the total investment cost.

Low Energy Consumption

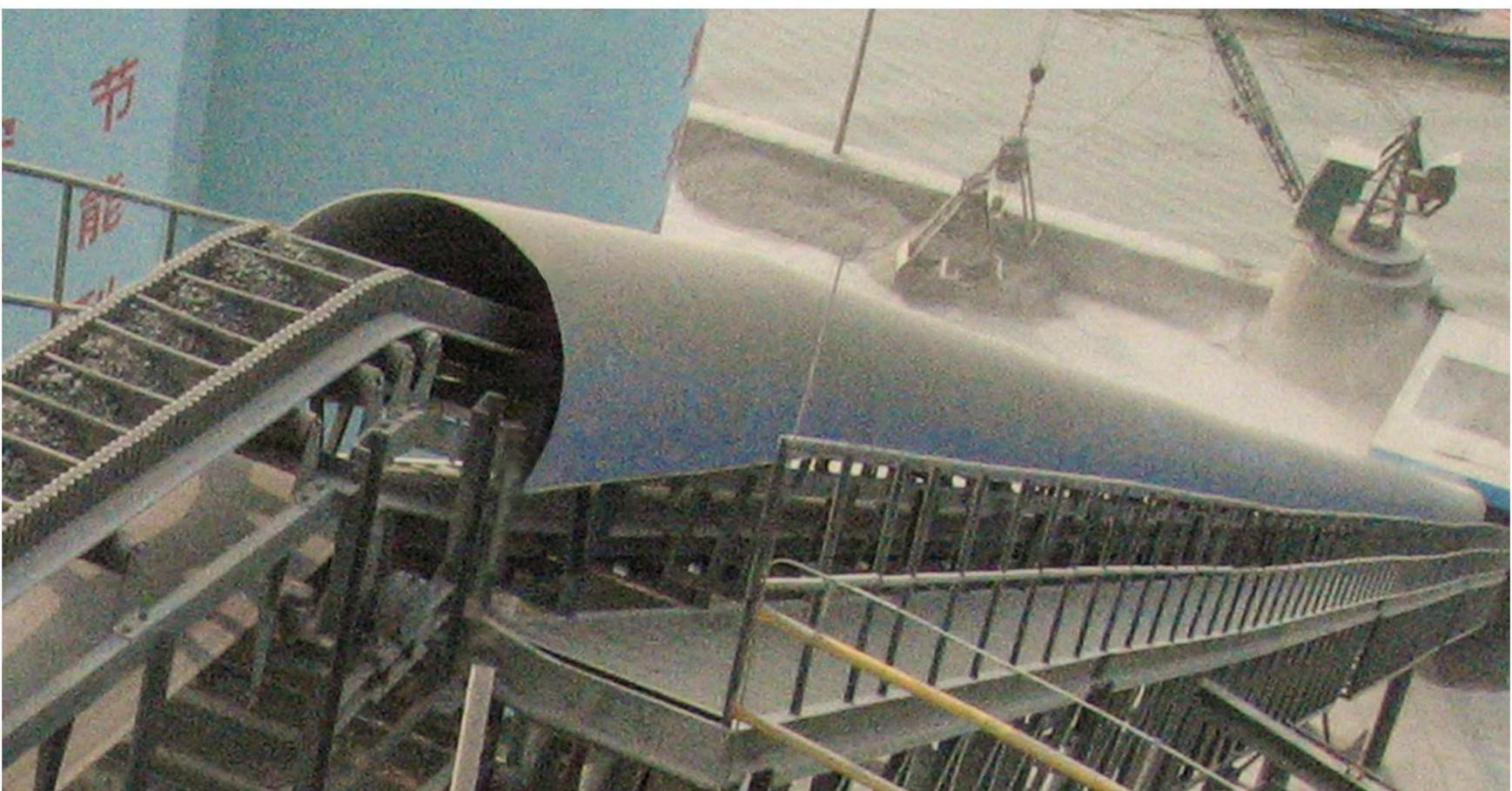
Large angle or vertical conveying can greatly reduce the number of rollers and belt length, which can reduce roller and belt resistance, so as to effectively reduce energy consumption.

Reduce Installation Space

Large angle or vertical conveying reduce the length requirements to reach the design height when compared to conventional belt conveyor, thus reduce installation space.

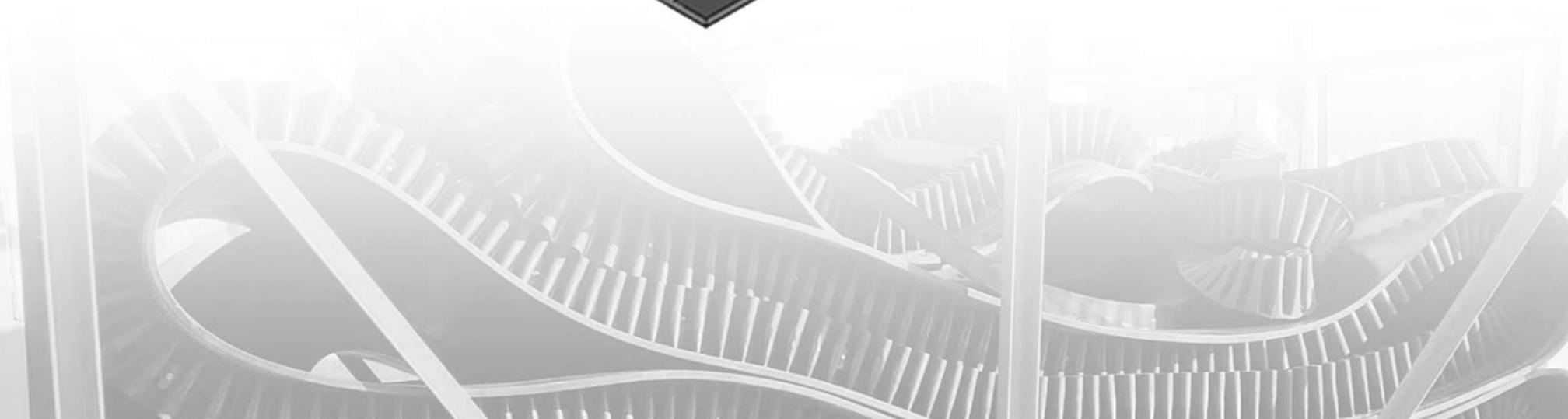
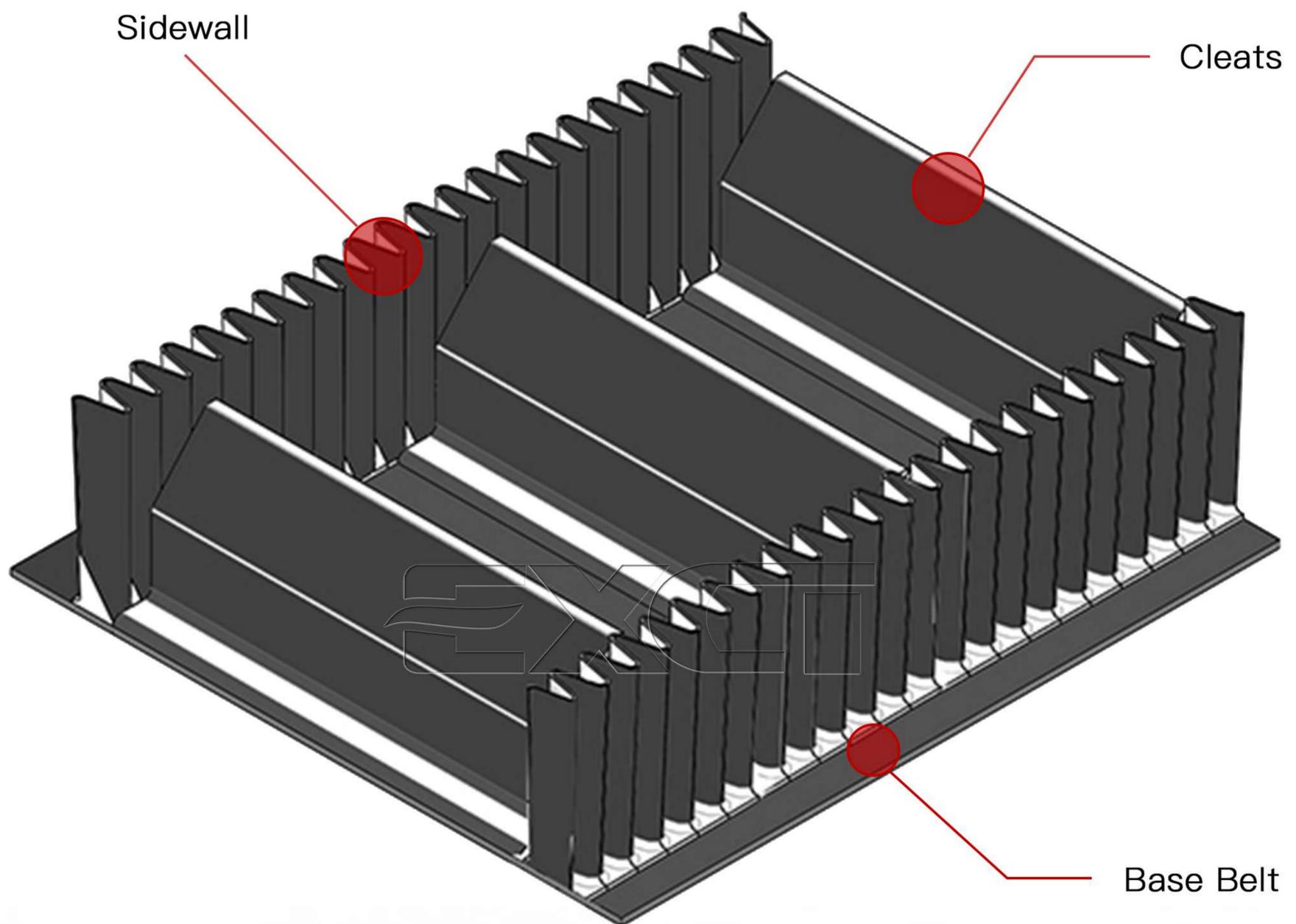
Flexible Layout

Sidewall belt conveyor can also be combined with other conveying equipment, to solve the enterprise in industrial production including horizontal, inclined or vertical complex conveying requirements.



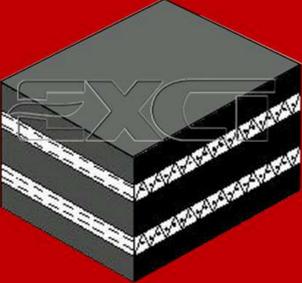
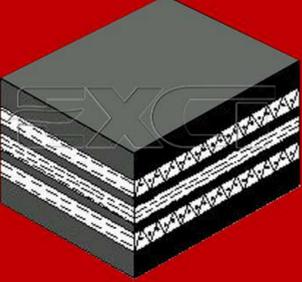
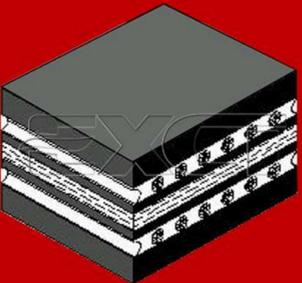
SIDEWALL CONVEYOR BELT

The sidewall belt conveyor adopts corrugated sidewall conveyor belt with horizontal cleat which is generally divided into the base belt, sidewall and cleat.



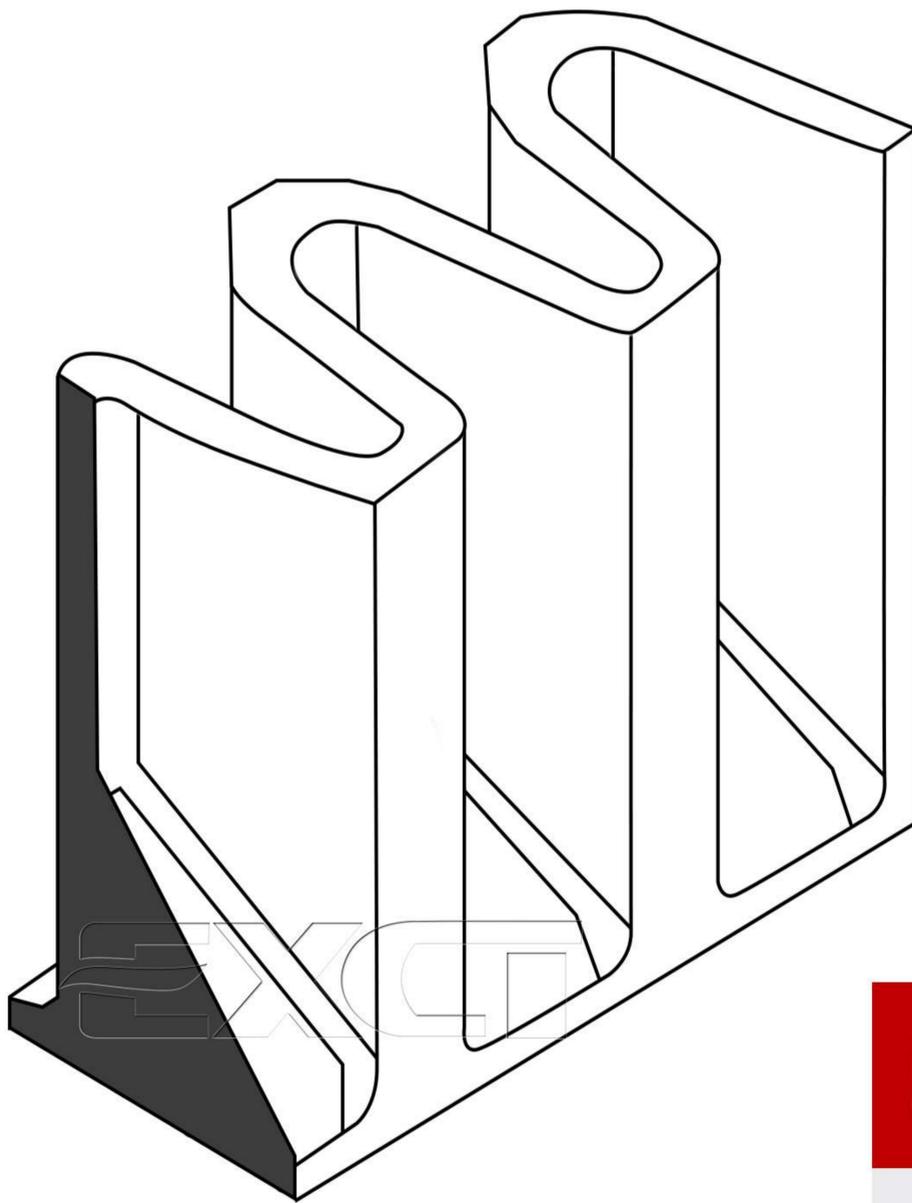
Base Belt

The base belt is required to have certain tensile strength and wear resistance. In order to adapt to the requirements of angle change, the longitudinal base belt must be of softness, and the transverse must have a certain rigidity. The Corrugated Sidewall Belts produced adopts transverse rigid base belt with special structure to solve the deformation problem of large size conveyor belt in the process of the return. The base belt standards are in accordance with international standard.

Baseband Type	Strength (N/mm)	Coating thickness (mm)	Weight (G/m ²)	Min Pulley Diameter (mm)
 QXE	250/2	2:2	9.40	200
	400/3	4:2	13.50	315
 QXE+2	400/3+2	4:2	12.10	315
	500/3+2	4:2	12.60	400
	630/4+2	4:2	14.40	500
	800/5+2	4:2	16.10	630
	1000/5+2	4:2	17.80	800
	1250/5+2	4:2	18.25	1000
 QXE-SC+2	315/2+2	4:2	13.70	315
	400/3+2	4:2	14.80	315
	500/3+2	4:2	15.20	400
	630/4+2	4:2	16.70	500
	800/5+2	4:2	18.00	630
	1000/5+2	4:2	19.50	800
	1250/5+2	4:2	21.40	1000
	 QXST-SC*	1600	8:8	/
2000		8:8	/	1250
2500		8:8	/	1400
3150		8:8	/	1400
3500		8:8	/	1600
4500		8:8	/	1600
5000		8:8	/	1600
5400		8:8	/	1800
6000	8:8	/	1800	

Sidewall

- The sidewall adopts special formula and advanced production technology to ensure the flexure and fatigue resistance of sidewall edge.
- The sidewall is strengthened with canvas and overlapped diagonally to effectively prevent the sidewall edge from tearing to increase the flexing performance.
- Dynamic fatigue test is adopted to detect and simulate field use.



Sidewall Height (H)	Wave Crest Width (TW)
100	44
120	44
160	66
200	66
240	66
300	88
400	88
500	110
630	110

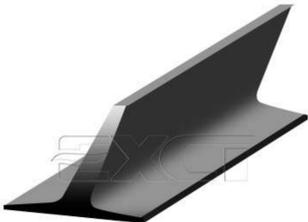
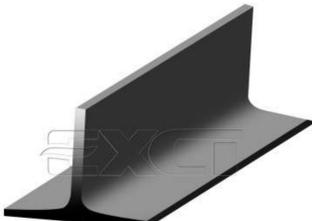
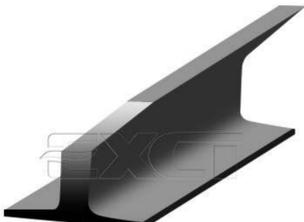
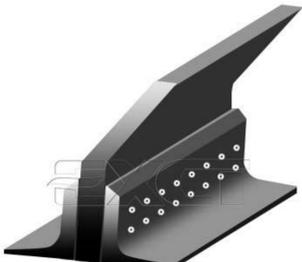
Wave Base Width (BW)	Wave Spacing (P)	Weight (kg/m)
50	42	2.34
50	42	2.78
75	63	4.42
75	63	5.82
75	63	8.49
100	84	12.48
100	84	17.60
125	105	24.40
125	105	31.50

Cleats

The production of cleat adopts special rubber formula and advanced molding process, so that the cleat has high stiffness, wear resistance, and impact resistance. Therefore, it is not easy to deform when the cleat carries high-density materials.

When the cleat is connected with the sidewall, the spacing of the cleat should be considered as an integer multiple of the wave distance.

In order to prevent the cleat and sidewall in the change of angle and through the pulley, because the radius of its movement does not match, to prevent the material from the sidewall cleat connection gap leakage and in the discharge caused by the accumulation of blind angle.

Cleat Type (mm)	Cleat Height (mm)	Sidewall Height (mm)	Bottom Width (mm)	Weight (kg/m)	Minimum Pulley Diameter (mm)
 C	90	100	110	2.81	250
	110	120	110	3.27	315
 T	90	100	110	2.7	250
	110	120	110	3.23	315
	140	160	160	5.49	400
	180	200	160	6.67	500
	230	240	160	8.6	630
 TC	90	100	110	3.22	250
	110	120	110	3.94	315
	140	160	150	5.49	400
	180	200	150	6.81	500
	230	240	160	8.68	630
	280	300	180	14.9	800
 TCS	230	240	160	13.8	630
	280	300	160	15.3	800
	360	400	230	22.8	1000
	470	500	230	30.8	1250

HANDLING MATERIALS



Sand



Gypsum



Sulfur



Copper Ore



Petroleum Coke



Wood Chips



Coal



Fly ash



Limestone



Sugar



Salt



Aggregates

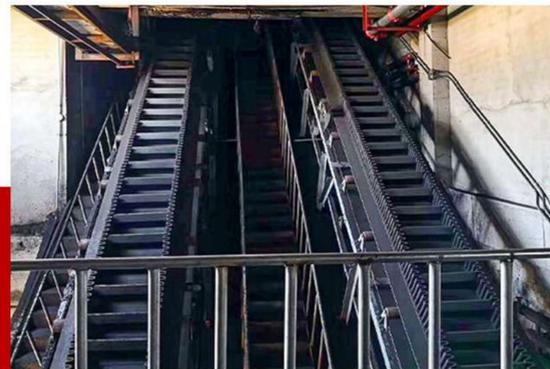
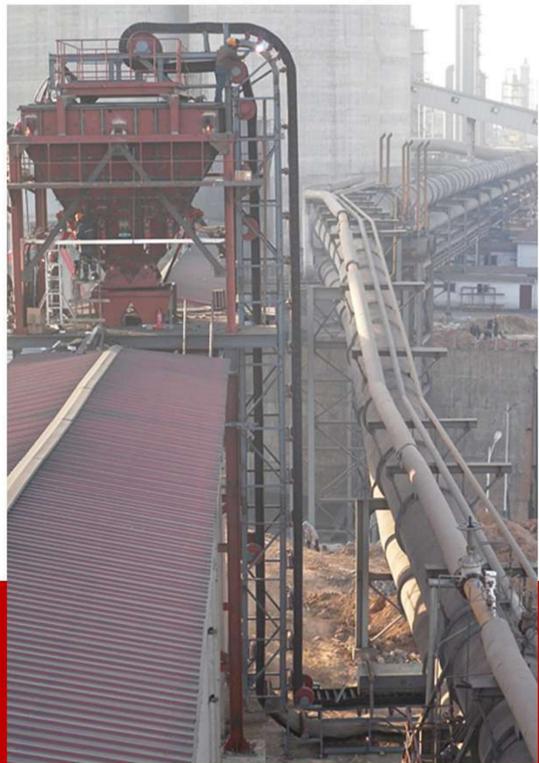


Fertilizer



| SITE

We have rich experience in the production of Sidewall belt Conveyor. The following are our excellent cases in different industries at home and abroad in recent years





Henan Excellent Machinery Co.,Ltd.

CONTACT US

-  +8618337370596
-  +8618337370596
-  enquiry@exctmach.com
-  www.exctma.com