



PHOEBUS

QUALITY

INTEGRITY

TECHNOLOGY

► ABOUT US



- 1 billion yuan**
The annual output value of the enterprise
- 269.5 acres**
The total area of the company
- 30 items**
The company has successfully declared the invention
- 100 items**
The company has successfully applied for patents
- 2 pcs**
Software Copyright
- 9 pcs**
International Trademarks

SHANDONG PHOEBUS RUBBER CO.,LTD



- 500 acres**
New land acquisition
- 1.05 billion yuan**
Total investment
- 5 billion yuan**
Annual output
- 120 million square meters**
Annual output of conveyor belts
- 10 million meters**
Annual output of timing belts
- 500 million yuan**
Ratepaying

Linyi Luchi New Material Technology Co., Ltd

Advanced Manufacturing Equipment



The world's first 3.4 m
wide extrusion calender



3.4m vulcanizer

Carbon Neutrality

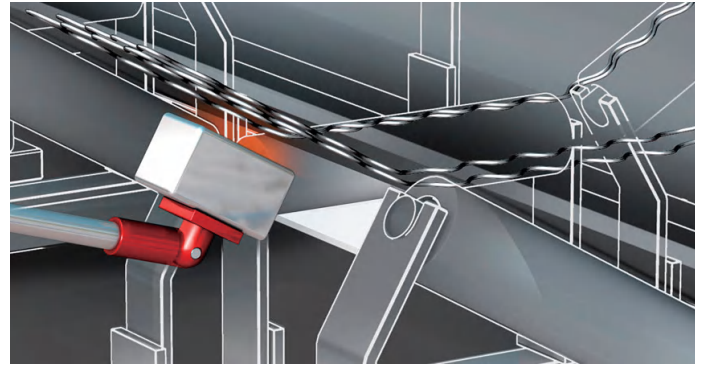
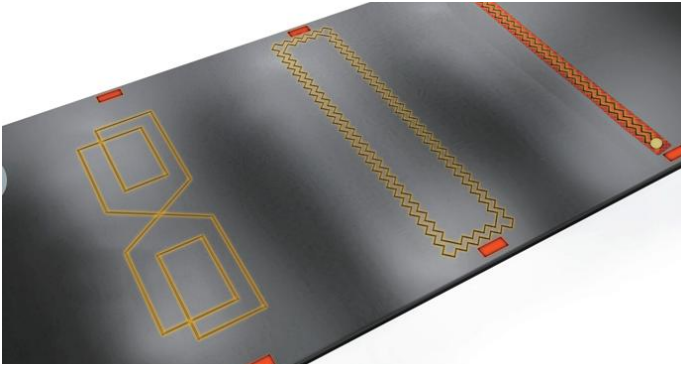
GREEN AND ENERGY-SAVING
PHOTOVOLTAIC POWER GENERATION



USING THE ROOF OF THE WORKSHOP TO CONSTRUCT A
20 MEGAWATT PHOTOVOLTAIC POWER GENERATION PROJECT

01

Embedded Coil Steel Cord Conveyor Belt



Embedded coil conveyor belts are mainly used for transporting large blocks or materials with high impact strength, and are also used in conveying conditions with large drops. The detection device can detect conveyor belt damage to the maximum extent possible.

According to the principle of electromagnetic induction, the conveyor belt can be immediately shut down for protection in case of tearing, reducing user losses.

02

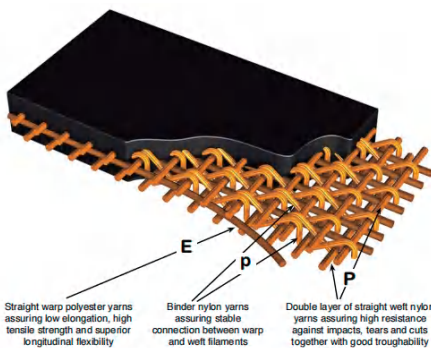
Stacker Or Reclaimer Dedicated Conveyor Belt



Mainly used on port bucket wheel machines with high requirements for adhesive strength, tear resistance, and puncture resistance of conveyor belts due to their fast speed. The cantilever steel wire rope core conveyor belt independently developed and produced by the company for ports has a service life of more than twice that of products in the same industry, and its transportation capacity far exceeds that of products in the same industry. It can reduce belt damage rate and replacement frequency, reduce production costs, and has been highly recognized by large port enterprises both domestically and internationally.

03

High Impact Resistance Straight Warp & Weft Conveyor Belt



SW(EPP) is a conveyor belt that is highly resistant to breakage, impact and longitudinal tear; it is high-resistance belt. Its longitudinal fibres imply:

- Low elongation
- Lower pulley diameter
- Less risk of layer separation
- High resistance to heavy transport
- Better belt alignment
- Resistance to longitudinal breakage
- Less weight / energy saving
- High resistance to impact

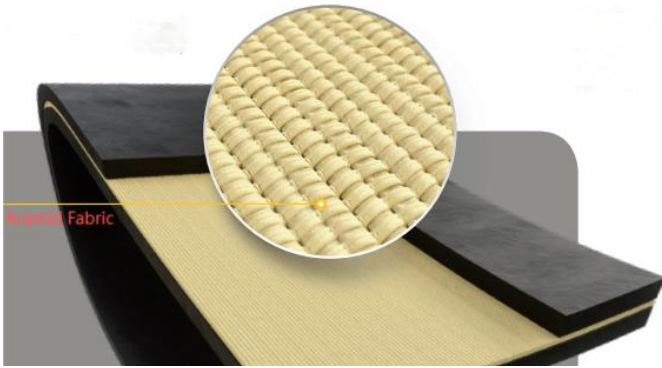
IMPACT ENERGY TO
MAXIMUM LOAD



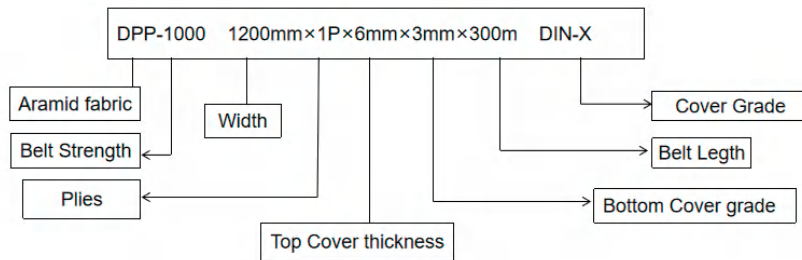
The fibres making up the skeleton of this belt put up with impact better than conventional (multilayer) belts; resistance is up to three times greater. This means a greater workload which considerably reduces the risk of damage to the belt. It can safely carry products such as large rocks, trunks, minerals etc. All this makes SW(EPP) the best choice for work in severe conditions.

04

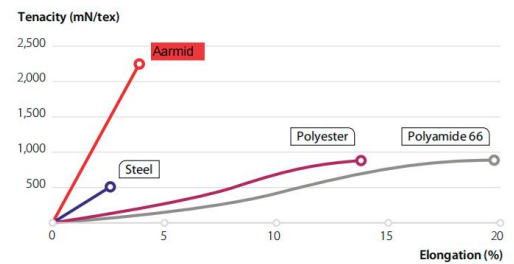
Aramid Conveyor Belt



- Carcass contains an aramid ply, making this conveyor belt ideal for long, large-capacity and high-tensile strength lines.
- Straight-warp construction of carcass offers excellent impact resistance, abrasion resistance and flexibility.
- Belt is thinner and lighter than steel-cord conveyor belts but just as strong, thus requiring less power.
- Lower elongation allows for shorter take-up strokes, making this conveyor belt better for transporting goods in high-temperature environments than previous fabric conveyor belts.



Properties tenacity/elongation



Specifications	Cover Rubber Thickness (mm)		Minimum Pulley Diameter (mm)		
	Top Cover	Bottom Cover	Drive/Head	Take-up/Tail	Snub/Bend
DPP800	6	2	600	450	350
DPP1000	6	2	600	450	350
DPP1250	6	2	650	500	400
DPP1500	8	3	700	550	450
DPP1800	8	3	750	550	500
DPP2000	8	3	750	550	500

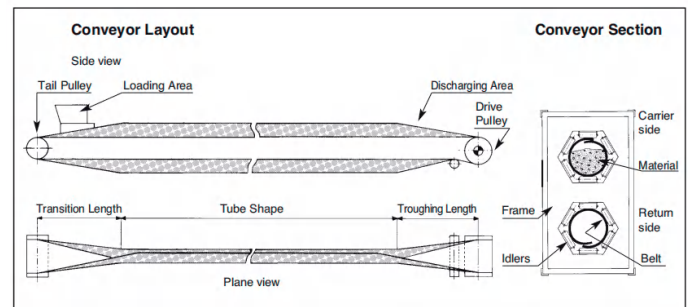
Note: Please contact us for any specifications not included in the above table.

05

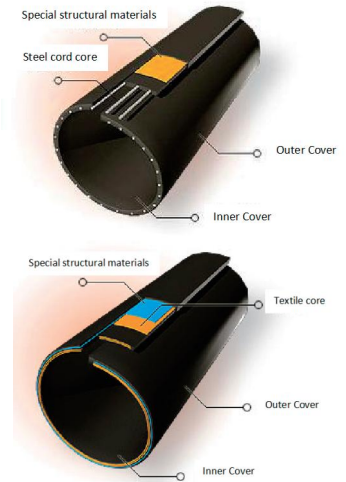
Pipe Conveyor Belt



- Prevents transport materials from flying, spilling or mixing with foreign substances as transported in a sealed pipe.
- Consumes less energy than ordinary conveyor lines.
- 3-dimension layouts are available with openings at top, bottom, left or right.
- Allows for maximum 30 degree incline transport, much steeper than ordinary conveyor belts.
- Occupies minimum installation space.
- Generates much less noise than ordinary conveyor lines.



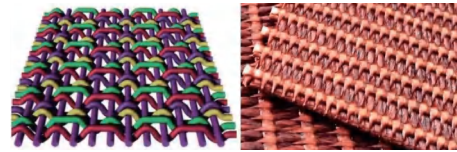
Pipe Dia (mm)	Belt Width (mm)	Belt Speed(m/s)									
		0.8	1	1.25	1.6	2	2.5	3.15	4	4.5	5
		Carrying capacity (m³/h)									
100	430	17	21	27	34	—	—	—	—	—	—
150	600	38	48	59	76	95	119	—	—	—	—
200	750	67	83	104	133	166	208	—	—	—	—
250	1000	118	147	184	236	295	369	464	—	—	—
300	1100	141	176	212	282	353	441	556	706	—	—
350	1300	—	238	297	380	497	594	748	950	1069	1188
400	1600	—	389	486	622	778	972	1225	1555	1750	1944
500	1900	—	558	698	893	1116	1395	1758	2232	2512	2791
600	2250	—	778	972	1244	1555	1944	2449	3110	3499	3888
700	2550	—	1008	1260	1613	2016	2520	3175	4032	4536	5040
850	3100	—	1454	1818	2327	2909	3636	4580	5818	6545	7272



06 Impact Resistant & High Tear Resistant Fabric Conveyor Belt



At present, our company has provided high-strength conveyor belts to Australian customers for many times



The impact resistant special fabric used in this type of conveyor belt is woven with high-strength polyester industrial filament as the warp yarn and high-strength nylon industrial filament as the weft yarn, woven with a special fabric structure. Compared with ordinary EP fabric, its weft yarn strength is 50% higher at the same warp strength. The longitudinal tear strength of the produced conveyor belt is more than twice as high, and the conveyor belt has good impact resistance and tear resistance.

We have produced conveyor belts with a tear strength of 8000N tested according to ISO 505.

07 Non Spliced Endless Conveyor Belt



The conveyor belt needs to meet the following usage conditions:

1. The skeleton material is circular.
2. The operation on the device is quiet and noiseless.
3. The belt needs to ensure that it can run in reverse.
4. The belt should avoid using mechanical hook fasteners to achieve smooth operation
5. The belt needs to ensure that it can withstand high tensile strength.
6. The belt needs to meet a long service life

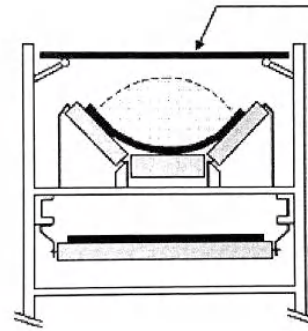
08 Rubber Dam



With high strength synthetic fiber fabric as the bearing frame, inner and outer coating rubber protection layer, processed into fabric, then the anchor on the floor into a closed dam bag, filling and discharging pipe through the water (gas) bag will be charged the formation of the dam expansion. It can overflow, and can be adjusted according to the height of the dam to the upstream water level control, irrigation, power generation, shipping to play, flood control, tide and other benefits.

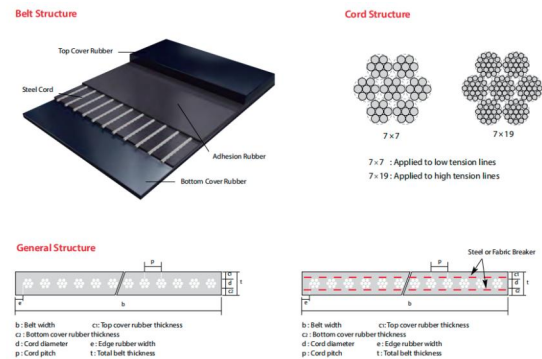
09

Seal Belt



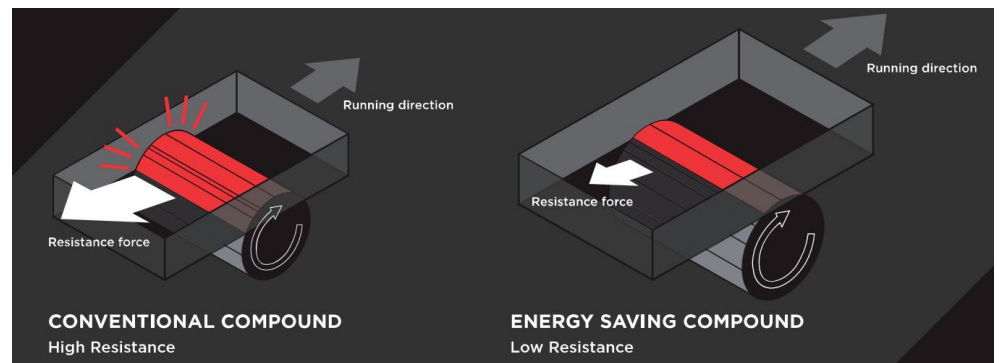
- Unlike conventional conveyor belts used for transporting goods, a seal belt is a cover-type belt that protects against wind and water penetration.
- Seal belt is an eco-friendly belt system used to prevent dust-related problems caused during the conveyor transportation process.
- Seal belts are used on lines with an unloader, reclaimer, or tripper (where there is a moving chute), where resin or metal covers cannot be used.

10 Lightweight Energy-Saving Steel Cord Conveyor Belt



When the diameter of the steel wire is small and the cover glue remains unchanged, the overall thickness is thin, the weight of the belt body is light, and the required power is low, saving electricity. Increased number of steel wires, reduced steel wire spacing, and improved tear resistance. After the steel wire becomes thinner, through finite element analysis and testing, the compression resistance is significantly lower than that of conveyor belts produced with normal steel wires. Reducing the diameter of the steel wire and the diameter of the conveyor drum is beneficial for reducing the dynamic fatigue of the belt and extending its lifespan. The belt body is thin and has good grooving performance, which is more conducive to fitting the conveyor rollers and avoiding deviation, drifting, and other phenomena when the belt body runs on the conveyor.

11 Low Rolling Resistance (LRR) Conveyor Belt



A conveyor belt is deformed when running over the idlers. This internal friction - or asymmetrical tension between idler and conveyor belt - consumes energy.

Special rubber compounds and belt designs reduce the indentation and let the belt run easier over the idlers.

For the determination of the energy saving properties of a conveyor belt, a standardized test described in DIN 22123 has been implemented.

Such belt types, for example a LRR bottom cover on an overland conveyor can:

Reduction of conveyor drive nominal power due to lower indentation rolling resistance

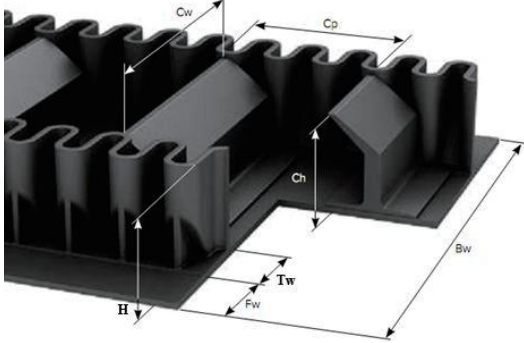
Energy savings of up to 30% compared to a standard conveyor belt with "DIN-X" grade covers – a huge \$ savings potential in the long term

Contribution to reduced CO² emissions.



12

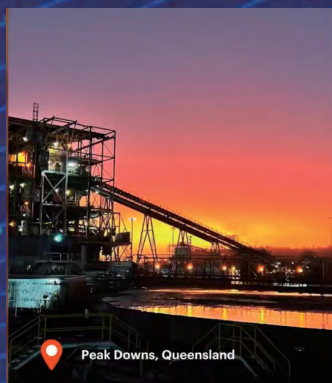
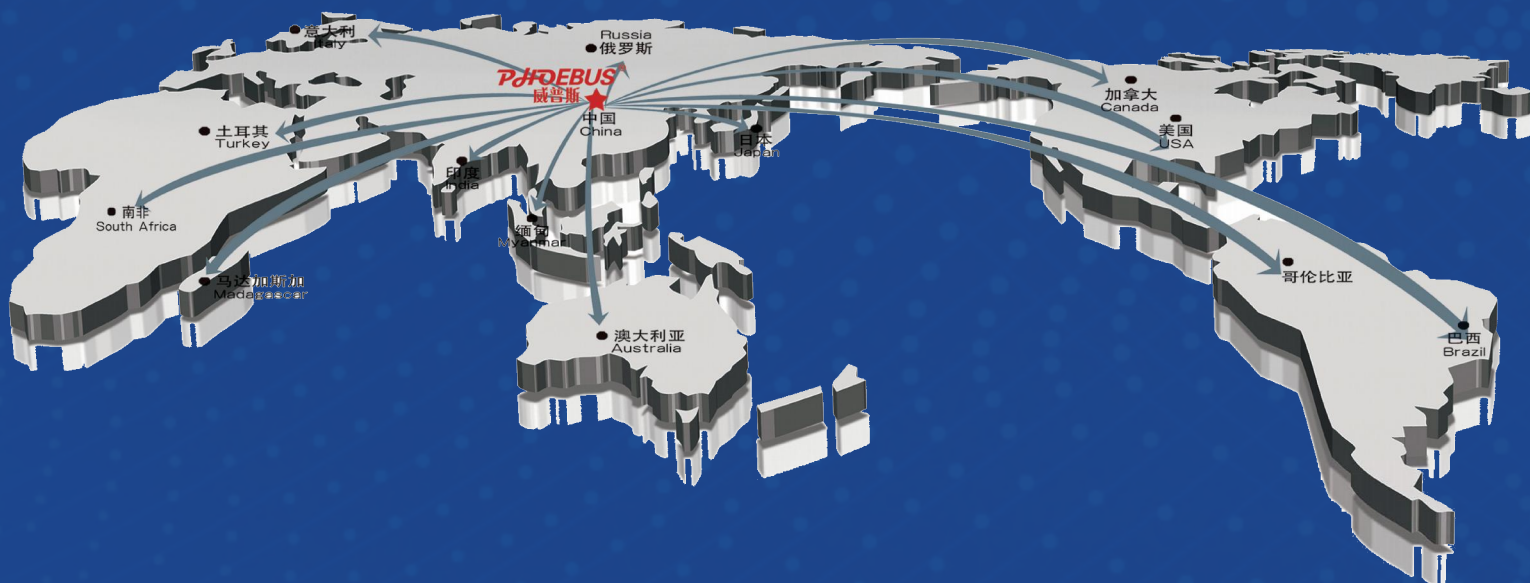
Sidewall Coveyor Belt



Sidewall Conveyor Belt consists of a base belt, to which two sidewalls made of hot-vulcanized corrugated rubber are added on the edges, providing security, stability and durability. They can also include transversal rubber cleats, also fixed to the base belt and the sidewalls. Compartments are thereby formed, like a continuous bucket elevator. Hot vulcanization enables a significantly better adherence than cold vulcanization, eliminating the risk of the elements stuck to the belt coming off.

This kind of conveyor belt was developed for uses requiring elevation angles of over 45°, even vertical carrying, or for cases in which the fluidity of the material means it could fall off the edges on a regular plane. The other distinctive element is that as these belts are exceedingly flexible, they can change from horizontal to inclined or vertical carrying and vice versa in the same facility. There are other significant alternatives in construction, such as carrying different materials at the same time, with no risk of them getting mixed up, by setting up intermediate containing walls.





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