

D·H·S Group



DARK HORSE SUPER



D·H·S Group



QINGDAO DARK HORSE SUPER INDUSTRIAL CO., LTD
QINGDAO DARK HORSE SUPER RUBBER CO., LTD
QINGDAO DARK HORSE SUPER INTERNATIONAL TRADING CO., LTD

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Company Profile

D·H·S Group(Qingdao Dark Horse Super Industrial Co., LTD) was established in June 2011 and located in the famous city of Qingdao Shandong province,China.

With advanced facilities applied to production, R&D and detection as well as professional technologies, relative products have been approved by international quality system of ISO9001 and granted by National Industrial Production License.

Through applying advanced production facilities, technologies and international technology standards, D·H·S Group has established an impeccable quality assurance system and mainly produced steel cord conveyor belt, flame resistance mining belt, chevron belt, heat resistance belt, oil resistance belt, sidewall belt and multi-ply fabric belt.

The products can be widely used to convey materials in coal industry, mining, metallurgic industry, port, electric power industry, grain industry, architecture and traffic industry. Various products have been exported to Europe, America, Australia, Asia etc.

D·H·S Group has introduced kinds of advanced production lines as well as experimental apparatus. Such as ST production line, multi-ply fabric belt production lines of vulcanization , banburying and calendaring production line. Both advanced production technologies and facilities are at the leading level in the same field.



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Production equipment

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2.4meter flat vulcanizing press machine



Double layer vulcanizing press machine



2.4meter roto-curing machine

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XY-4s-2500 four roll calender machine

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XY-4s-1830 four roll calender machine



Constant tension forming machine

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Chevron curing machine

Testing equipment



NSL Standard Phone R&D Laboratory

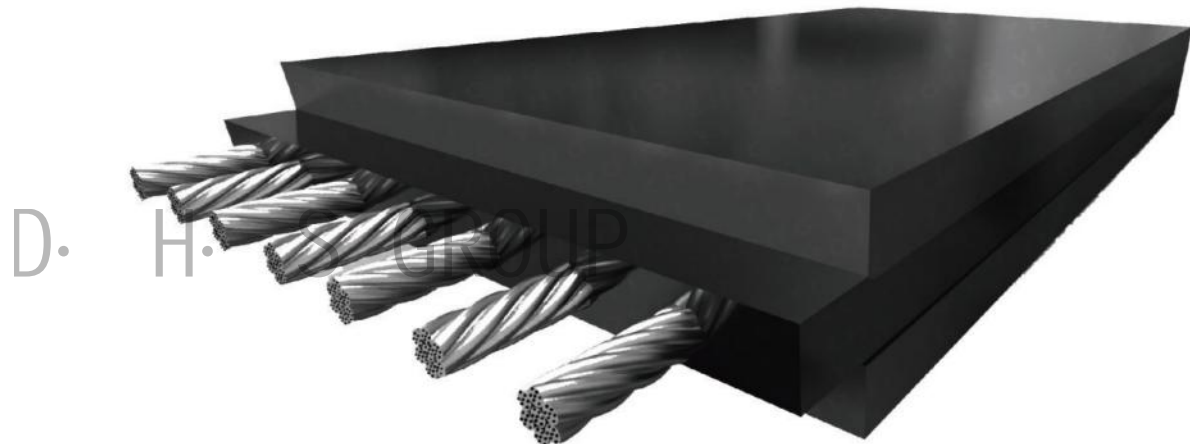


Mooney Viscosity Tester



Rotorless vulcanizer

Products



Steel Cord Conveyor Belt

General Use Steel Cord Conveyor Belt

Application

The steel cord conveyor belt is widely used in industry like mining , port operation , metallurgy , power plant , chemical plant etc .

Product Structure

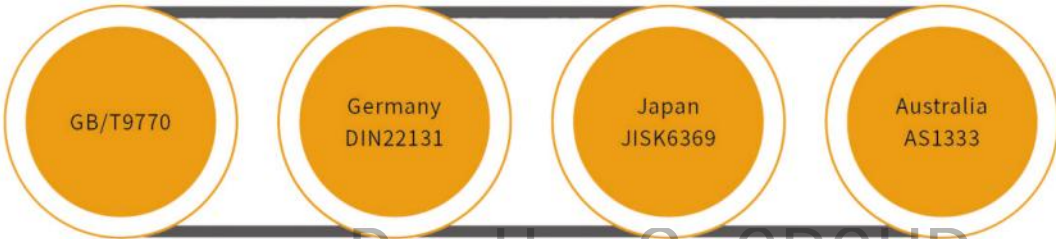
The steel cord conveyor consists of top cover , bottom cover , steel cord carcass , skim rubber and edge rubber .

Product Benefit

- High strength
- Good resilience
- Good flexibility & troughability
- Impact resistance
- High abrasion
- Excellent adhesion
- Low elongation

The steel cord conveyor belt is suitable for conveying lump , granulate materials with heavy duty , long distance , high capacity conditions .

Implementation Standard



Main Technical Indicators

Belt rating	Belt strength (N/mm)	Cord pitch (mm)	Cord Diam (mm)	Cord breaking strength (mm)	Min. cover thickness	Pulling out strength ≥	
						Before aging	After aging
ST-500	500	14	3.0	7.6	4.0	60	50
ST-630	630	10	3.0	7.0	4.0	60	50
ST-800	800	10	3.5	8.9	4.0	67.5	57.5
ST-1000	1000	12	4.0	12.9	4.0	75	65
ST-1250	1250	12	4.5	16.1	4.0	82.5	72.5
ST-1400	1400	14	5.0	20.6	4.0	90	80
ST-1600	1600	12	5.0	20.6	4.0	90	80
ST-1800	1800	13.5	5.6	25.5	4.0	99	89
ST-2000	2000	12	6.0	25.6	4.0	105	95
ST-2250	2250	11	5.6	26.2	4.0	99	89
ST-2500	2500	15	7.2	40.0	5.0	123	113
ST-2800	2800	13.5	7.2	39.6	5.0	123	113
ST-3150	3150	15	8.1	50.5	5.5	136.5	126.5
ST-3500	3500	15	8.6	56.0	6.0	144	134
ST-4000	4000	15	8.9	63.5	6.5	148.5	138.5
ST-4500	4500	16	9.7	76.3	7.0	160.5	150.5
ST-5000	5000	17	10.9	91.0	7.5	178.5	168.5
ST-5400	5400	17	11.3	98.2	8.0	184.5	174.5

Specification	Grade		
	H	D	L
Tensile strength MPa ≥	24	18	15
Elongation at break % ≥	450	400	350
Abrasion mm³ ≤	120	100	200
Tensile strength & Elongation after aging (70℃×168h)	No less than 75% before aging		
Separation strength between cover and core rubber, ≥N/mm	12		



Steel Cord Conveyor Belt

MT668 Steel Cord Conveyor Belt For Coal Mining

Application

The MT668 steel cord conveyor belt which is flame retardant & anti-static , used for underground application .

Product Structure

The steel cord conveyor consists of top cover , bottom cover , steel cord carcass , skim rubber and edge rubber .

Product Benefit

- High strength
- Good resilience
- Good flexibility & troughability
- Impact resistance
- High abrasion
- Excellent adhesion
- Low elongation

The MT668 steel cord conveyor belt is suitable for conveying lump , granulate materials with heavy duty , long distance , high capacity at underground conditions .



Implementation Standard MT668-2008 《Steel Cord Conveyor Belt For Coal Mining》

Main Technical Indicators

Belt rating	Belt strength (N/mm)	Cord pitch (mm)	Cord Diam (mm)	Top / Bottom cover thickness (mm)	Pulling out strength ≥	
					Before aging	After aging
ST-630	630	10	3.0	5+5	67	50
ST-800	800	10	3.5	5+5	75	69
ST-1000	1000	12	4.0	6+6	82	77
ST-1250	1250	12	4.5	6+6	90	84
ST-1600	1600	12	5.0	6+6	97	90
ST-2000	2000	12	6.0	8+8	112	105
ST-2500	2500	15	7.2	8+8	130	122
ST-2800	2800	15	7.5	8+8	134	124
ST-3150	3150	15	8.1	8+8	143	135
ST-3500	3500	15	8.6	8+8	151	140
ST-4000	4000	15	8.9	8+8	155	144
ST-4500	4500	16	9.7	8+8	168	157
ST-5000	5000	17	10.9	8.5+8.5	186	175
ST-5400	5400	17	11.3	9+9	192	180

Specification			Grade
Tensile strength	MPa	≥	15
Elongation at break	%	≥	350
Abrasion	mm ³	≤	200
Tensile strength & Elongation after aging (70℃×168h)			No less than 75% before aging
Separation strength between cover and core rubber, ≥N/mm			10
Electrical conductivity Ω			≤3 × 10 ⁸ Ω
Ignition	S	≤	Aggregate of each set of 6 test pieces (with cover) shall be less than 18s , no individual result shall be greater than 10s.
			Aggregate of each set of 6 test pieces (without cover) shall be less than 30s , no individual result shall be greater than 15s.
Drum friction	℃	≤	The temperature of drum surface shall be less than 325℃.
Laboratory scale tunnel test			The length of the test pieces that remains undamaged shall be not less than 600mm across the whole width of conveyor belt

Steel Cord Conveyor Belt

General Flame-resistance Steel Cord Conveyor Belt

Application

The fire resistant steel cord conveyor belt is widely used for coal washing , power plant and non-coal underground application.

Product Structure

The steel cord conveyor consists of top cover , bottom cover , steel cord carcass , skim rubber and edge rubber .

Product Benefit

- High strength
- Impact resistance
- Excellent adhesion
- Good resilience
- High abrasion
- Low elongation
- Good flexibility & troughability

This steel cord conveyor belt is suitable for conveying lump , granulate materials with heavy duty , long distance , high capacity at underground conditions .

Implementation Standard

HG/T 3973《General Use Fire Resistant Steel Cord Conveyor Belt》

Main Technical Indicators

Specification	Grade		
	H	D	L
Tensile strength MPa ≥	20	18	15
Elongation at break % ≥	400	400	350
Abrasion mm³ ≤	200	120	200
Tensile strength & Elongation change rate after aging (70℃×168h)	±25%		
Separation strength between cover and core rubber, ≥N/mm	12		
Ignition S ≤	K2		K3
	Aggregate of each set of 6 test pieces (with cover) shall be less than 45s , no individual result shall be greater than 15s.		Average duration of each set of 3 test pieces (with cover) shall be less than 60s.
Electrical conductivity	≤3 × 10⁸ Ω		
Afterflame	Not allowed		



Steel Cord Conveyor Belt

Ripstop Steel Cord Conveyor Belt

Application

The rip-stop steel cord conveyor belt is widely used in industry like mining , port operation , metallurgy , power plant , chemical plant etc.

Product Structure

The steel cord conveyor consists of top cover , bottom cover , steel cord carcass , breaker layer , skim rubber and edge rubber .

Product Benefit

This product is inserted with breaker layer (steel breaker or textile breaker) in top cover and/or bottom cover to protect the carcass and resist impact & tears.

Implementation Standard

GB/T9770-2013 《General Use Steel Cord Conveyor Belt》

Textile Conveyor Belt

Heat-resistance Conveyor Belt

Application

Using special rubber compound, containing high quality SBR, the heat resistant conveyor belt is widely used in metallurgy , cement , power sector , mining , construction , chemical plant industry , to transport sinter , coke , iron & steel casting , clinker etc .

Product Classification

Carcass can be multi-ply fabric and steel cord .

T1 : working upto 100℃
 T2 : working upto 125℃
 T3 : working upto 150℃
 T4 : working upto 175℃

Product Benefit

- High temperature resistance
- Good resistance for aging
- Ozone resistance
- High adhesion
- Long working life

Implementation Standard

GB/T 20021-2017 《Textile Reinforced Heat Resistant Conveyor Belt》

Main Technical Indicators

Specification			Polyester - Nylon			
			EP			
Adhesion	Between cover & ply	\geq N/mm	3.5			
	Between plies	\geq N/mm	4.5			
Full thickness strength in longitudinal / N/mm			160 ~ 3150			
Elongation at reference in longitudinal / % \leq			4			
Specification			T1	T2	T3	T4
Cover property	Hardness (IRHD)	variation of original value	+20			
		Max. value	85			
	Tensile strength (N/mm ²)	variation of original value	-25	-30	-40	-40
		Min. value	12	10	5	5
	Elongation (%)	variation of original value	-50		-55	
		Min. value	200		180	

Steel Cord Conveyor Belt

An Induction Coil Embedded Structure Steel Cord Conveyor Belt

An Induction Coil Embedded Structure Steel Cord Conveyor Belt

Application

The product is widely used in industry like mining , port operation , metallurgy , power plant , chemical plant etc .

Product Structure

The steel cord conveyor consists of top cover , bottom cover , steel cord carcass , sensor loop , skim rubber and edge rubber .

Product Benefit

When the belt under operation , if any puncture or damage occurs , the rip detection system can sense it and alert automatically .

When the belt off tracking at a certain distance , the detection system can alert and the belt will be stopped immediately .

When the material blocked during operation , the system can detect the improper belt speed and stop running automatically .

Implementation Standard

GB/T9770-2013 《General Use Steel Cord Conveyor Belt》

Textile Conveyor Belt

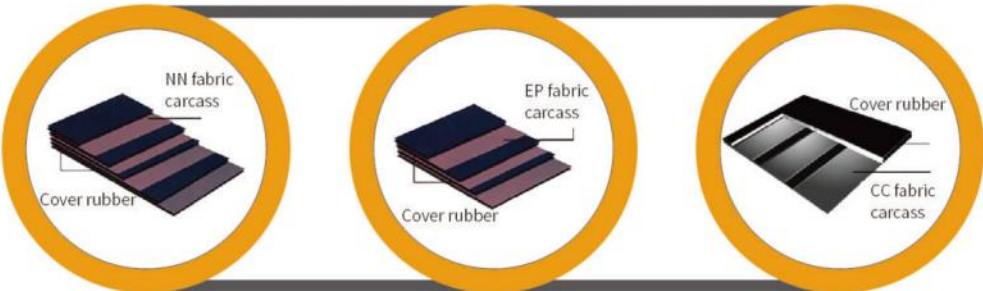
General Use Conveyor Belt

Product Classification

Classified by edge rubber : Moulded edge and Cut-edge

Classified by carcass fabric : NN fabric conveyor belt

EP fabric conveyor belt



Application

Textile carcass rubber conveyor belts are suitable for noncorrosivity transportation of different size of materials or packages ,which are widely used in coalmines , mining ,seaport ,metallurgy ,power plant ,chemical industries,casting,building materials,cement and other industries and places which need high speed and high efficient transportation .

Product Structure

Textile Carcass Rubber Conveyor Belts are produced with NN or EP fabric carcass and different types of cover rubber , the production procedures are : compound mixing , calendering ,belt buliding , belt vulcanization , inspection and repairing and packing .

Product Benefit

NN fabric conveyor belts have features of light in weight ,high flexibility ,high strength , impact resistance , good troughability , suitable for high speed ,mid-long distance, heavy load transportation of different size of materials .
EP fabric conveyor belts have features of high flexibility ,stable in high temperature ,high strength,low elongation ,impact resistance ,good troughability ,suitable for high speed ,mid-long distance, heavy load transportation of different size of materials .

Implementation Standard

DIN 22102
AS1332
GB/T7984-2013
SANS1173

Main Technical Indicators

DIN 22102

Item			Type			
			NN, EP			
Adhesion	Cover rubber and ply	Cover thickness >1.5mm	4.5 N/mm			
		Cover thickness <1.5mm	4 N/mm			
	Ply and ply		5 N/mm			
Cover rubber physical property			Z	Y	W	X
	Tensile strength	/ MPa ≥	15	20	18	25
	Elongation at break	/ % ≥	350	400	400	450
	Abrasion loss	/ mm ³ ≤	200	150	90	120
Aging test (70°C×168h)			Not change by more than 25% from the original value			

SANS1173

Item			Type			
			NN, EP			
Adhesion	Cover rubber and ply	Cover thickness >1.5mm	5 N/mm			
		Cover thickness <1.5mm	4 N/mm			
	Ply and ply		7 N/mm			
Cover rubber physical property			N	C	A	M
	Tensile strength	/ MPa ≥	17	20	18	24
	Elongation at break	/ % ≥	400	400	400	450
	Abrasion loss	/ mm ³ ≤	150	150	70	120
Aging test (70°C×168h)			Not change by more than 25% from the original value			

AS1332

Item			Type			
			NN, EP			
Adhesion	Cover rubber and ply	Cover thickness >1.5mm	4.8 N/mm			
		Cover thickness <1.5mm	4 N/mm			
	Ply and ply		6 N/mm			
Cover rubber physical property			N	A	M	XCG
	Tensile strength	/ MPa ≥	17	18	24	25
	Elongation at break	/ % ≥	400	400	450	450
	Abrasion loss	/ mm ³ ≤	150	70	120	110
Aging test (70°C×168h)			Not change by more than 25% from the original value			

Textile Conveyor Belt

Chemical Resistant Conveyor Belt

Application

Acid and Alkali resistant rubber conveyor belts are suitable for transporting different size of materials or packages which contains acid or alkali in chemical ,cement , paper making industries ,etc.

Product Structure

Acid and Alkali resistant rubber conveyor belts are produced with NN or EP fabric carcass and acid and alkali resistant cover rubber , the production procedures are : compound mixing , calendering ,belt building , belt vulcanization , inspection and repairing and packing .

Product Benefit

Acid and Alkali resistant rubber conveyor belts have features of chemical resistance,-good physical properties, abrasion resistant ,etc.

Implementation Standard

HG/T 37782-2015 DIN22102

Main Technical Indicators

Item			Type
			NN、EP
Adhesion	Cover rubber and ply	Cover thickness >1.5mm	4.5 N/mm
		Cover thickness <1.5mm	4 N/mm
	Ply and ply		5 N/mm
Cover rubber physical property	Hardness	ShoreA	Original : 55-70 after aging : 75-85
	Tensile strength	/ MPa	

Textile Conveyor Belt

Oil-resistance Conveyor Belt

Application

Oil resistant textile carcass rubber conveyor belts are suitable for transporting different size of oily materials or packages in normal temperature or in oily environment .

Product Structure

Oil resistant textile carcass rubber conveyor belts are produced with NN or EP fabric carcass and oil resistant cover rubber , the production procedures are : compound mixing , calendering ,belt building , belt vulcanization , inspection and repairing and packing .

Product Benefit

Oil resistant textile carcass rubber conveyor belts have features of high strength ,low elongation, abrasion resistant,oil resistant,aging resistant , long working life ,etc.

Implementation Standard

HG/T3714-2014 DIN22102

Main Technical Indicators

DIN 22102

Item			Type	
			NN、EP	
Adhesion	Cover rubber and ply	Cover thickness >1.5mm	4.5 N/mm	
		Cover thickness <1.5mm	4 N/mm	
	Ply and ply		5 N/mm	
Cover rubber physical property			MOR	OR
	Tensile strength	/ MPa ≥	12	14
	Elongation at break	/ % ≥	350	350
	Abrasion loss	/ mm³ ≤	250	200
	Volme change rate % (3#oil ,100°C, 22h)≤		+100	+50



Textile Conveyor Belt

General Use Flame-retardant Conveyor Belt

Product Classification

Classified by carcass fabric : NN fabric fire resistant conveyor belt
EP fabric fire resistant conveyor belt

Application

Fire resistant textile carcass rubber conveyor belts are suitable for noncorrosive transportation of different size of materials or packages ,which are widely used in coalmines , mining ,seaport ,metallurgy ,power plant ,chemical industries ,casting, building material industries,etc . especially suitable for material transportation in coal washery , power plant and non-coal mine .

Product Structure

Fire resistant textile carcass rubber conveyor belts are produced with NN or EP fabric carcass and fire resistant cover rubber , the production procedures are : compound mixing , calendering ,belt building , belt vulcanization , inspection and repairing and packing .

Product Benefit

NN fabric fire resistant conveyor belts have features of light in weight ,high flexibility ,high strength , impact resistance , good troughability , suitable for high speed ,mid-long distance, heavy load transportation of different size of materials .
EP fabric fire resistant conveyor belts have features of high flexibility ,stable in high temperature ,high strength,low elongation ,impact resistance ,good troughability ,suitable for high speed ,mid-long distance, heavy load transportation of different size of materials .

Implementation Standard

DIN 22102
GB/T10822-2014

Main Technical Indicators

Item			Type
			NN、EP
Adhesion	Cover rubber and ply	Cover thickness >1.5mm	4.5 N/mm
		Cover thickness <1.5mm	4 N/mm
	Ply and ply		5 N/mm
Cover rubber physical property			K
	Tensile strength / MPa	≥	18
	Elongation at break / %	≥	400
	Abrasion loss / mm ³	≤	180
Aging test (70℃ x 168h)			Not change by more than 25% from the original value

Fire resistant property

Item			Unit	Value
Anti-static property	Average electrical resistance of both surfaces	max	Ω	3 x 10 ⁸
Burning test	Total flame duration for 6 test pieces	max	s	45
	Flame duration for 1 test pieces	max	s	15

Textile Conveyor Belt

Cold Resistant Conveyor Belt

Application

Cold resistant rubber conveyor belts are suitable for transporting different size of materials or packages in low temperatures range from -60℃ ~ +50℃ environments .

Product Structure

Cold resistant rubber conveyor belts are produced with NN or EP fabric carcass and cold resistant cover rubber , the production procedures are : compound mixing , calendering ,belt building , belt vulcanization , inspection and repairing and packing .

Product Benefit

Cold resistant rubber conveyor belts have features of cold resistance,high flexibility, impact resistance, abrasion resistant ,etc. With the ability to work in -60℃ environments .

Implementation Standard

DIN 22102 HG/T 3647-1999

Main Technical Indicators

Item			Type		
			NN、EP		
Adhesion	Cover rubber and ply	Cover thickness >1.5mm	4.5 N/mm		
		Cover thickness <1.5mm	4 N/mm		
	Ply and ply		5 N/mm		
Cover rubber physical property			Y	W	X
	Tensile strength / MPa	≥	20	18	25
	Elongation at break / %	≥	400	400	450
	Abrasion loss / mm³	≤	150	90	120
	Aging test (70℃×168h)		Not change by more than 25% from the original value		
	Tensile cold resistance coefficient≤	C1: (-45℃) suitable environmental temperature -45℃ ~ +50℃		0.3	
C2: (-60℃) suitable environmental temperature -60℃ ~ +50℃		0.2			



Textile Conveyor Belt

Ozone Resistant Conveyor Belt

Application

Ozone resistant rubber conveyor belts are suitable for transporting different size of materials or packages in outdoor with strong UV environments .

Product Structure

Ozone resistant rubber conveyor belts are produced with NN or EP fabric carcass and ozone resistant cover rubber , the production procedures are : compound mixing , calendering ,belt building , belt vulcanization , inspection and repairing and packing .

Product Benefit

Ozone resistant rubber conveyor belts have features of ozone resistance, abrasion resistant ,etc.

Main Technical Indicators

Item			Type		
			NN、EP		
Adhesion	Cover rubber and ply	Cover thickness >1.5mm	4.5 N/mm		
		Cover thickness <1.5mm	4 N/mm		
	Ply and ply		5 N/mm		
Cover rubber physical property			Y	W	X
	Tensile strength	/ MPa ≥	20	18	25
	Elongation at break	/ % ≥	400	400	450
	Abrasion loss	/ mm³ ≤	150	90	120
	Aging test (70℃×168h)		Not change by more than 25% from the original value		
	Test condition : ozone concentration(50+/-5)x10-8(volume fraction),temperature(40+/-2)℃, elongation(20+/-2)%,time 15h-70h, ozone aging test results no crack.				

Chevron Belt

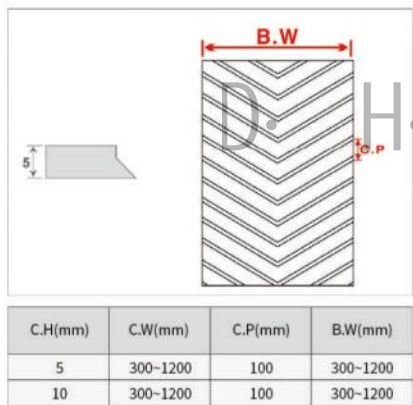
Product Classification

Edge : mould edge pattern conveyor belt / cut edge pattern conveyor belt
Pattern: Y type, V type, U type, Multi-V type, etc.
Width of belt(B.W):300mm-1600mm
Height of cleat (C.H):5mm, 8mm, 10mm, 15mm, 17mm, 25mm, 32mm
Providing mould design service according to customer's requirement.

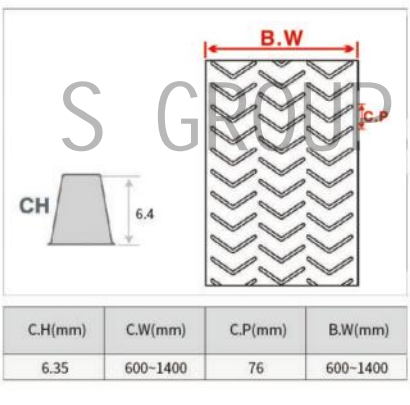
Application

Pattern belt are suitable for handling bulk materials or bags up to 40 °,slip resistant and big conveying capacity, and can be widely used in coal industry, mine, port, metal-lurgy, electric power, chemical industry etc.

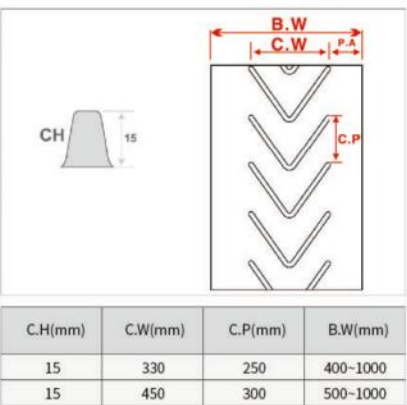
Item:C5 V, C10 V
Profile height:5mm, 10mm



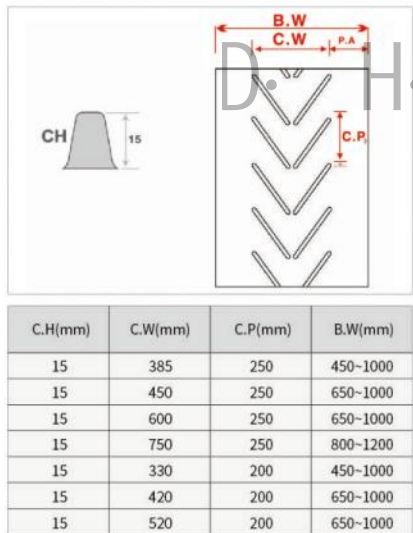
Item:Multi V
Profile height:6.4mm



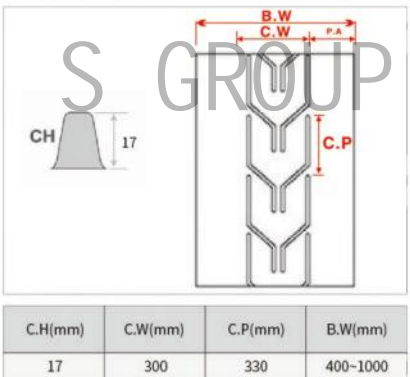
Item:C15 V330, C15 V450, Closed V
Profile height:15mm



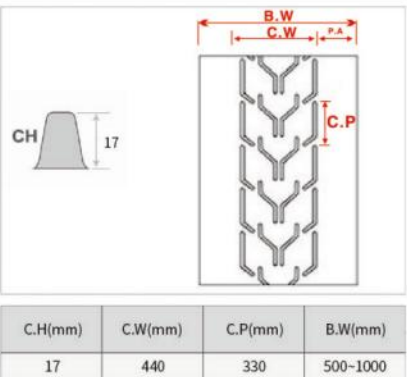
Item:C15 P330, C15 P385, C15 P420
C15 P450, C15 P520, C15 P600
C15 P750, Open V
Profile height:15mm



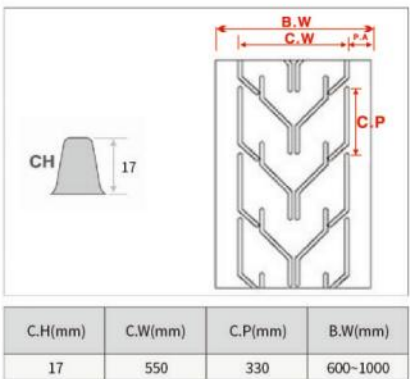
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Profile height:17mm



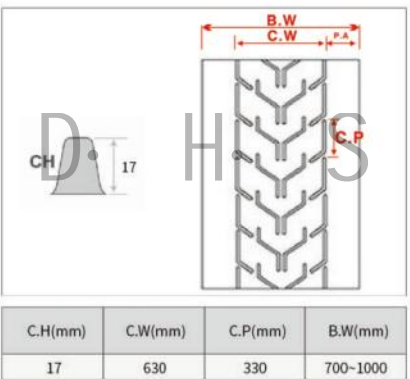
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Profile height:17mm



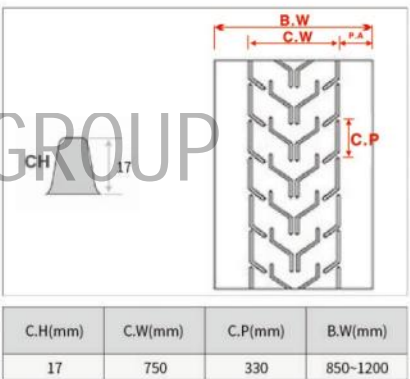
Item:C17 P550
Profile height:17mm



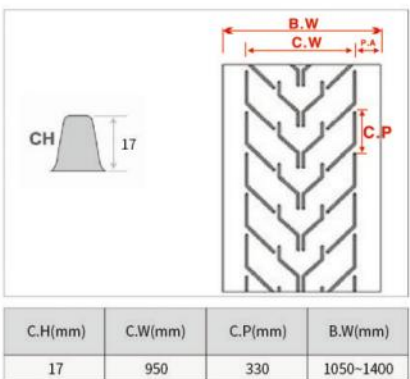
Item:C17 P630
Profile height:17mm



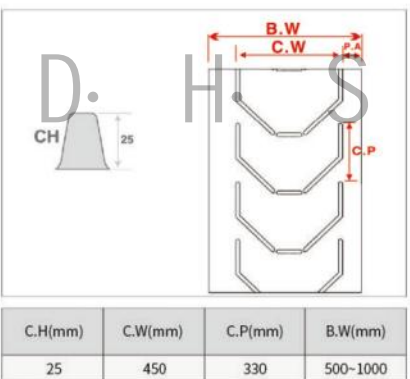
Item:C17 P750
Profile height:17mm



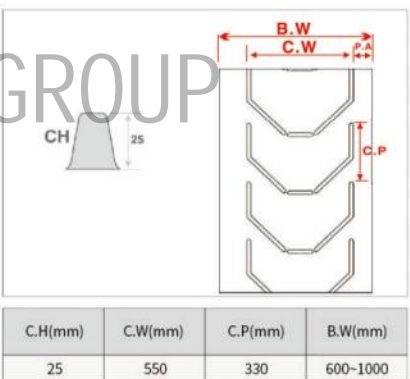
Item:C17 P950
Profile height:17mm



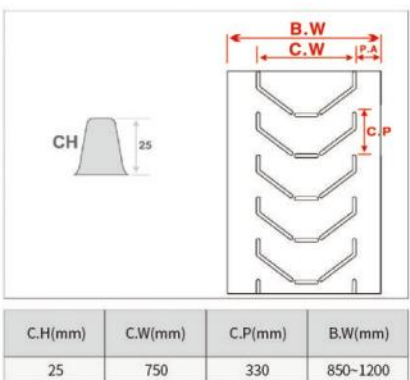
Item:C25 P450, Closed U
Profile height:25mm



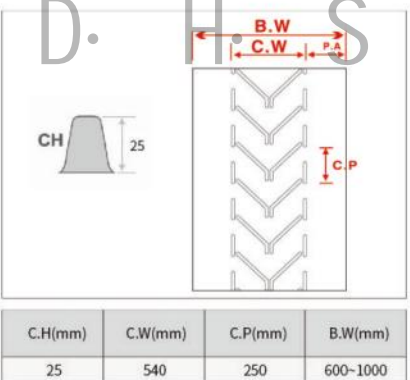
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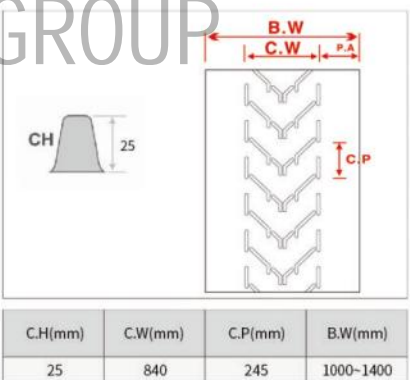
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Item:C25 P540
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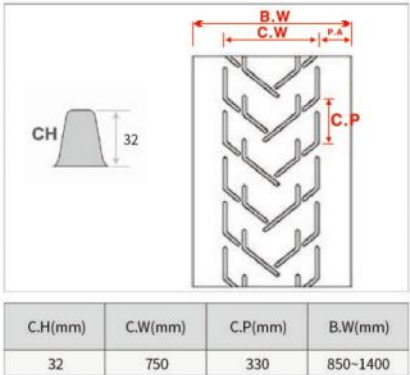


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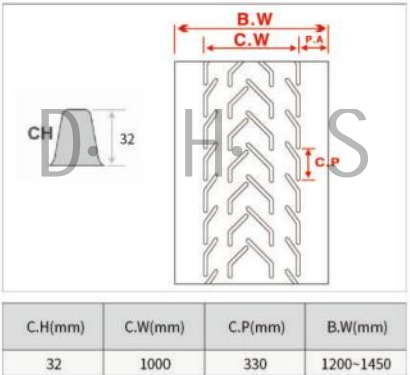




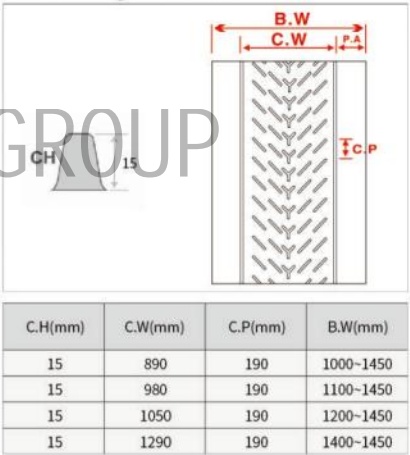
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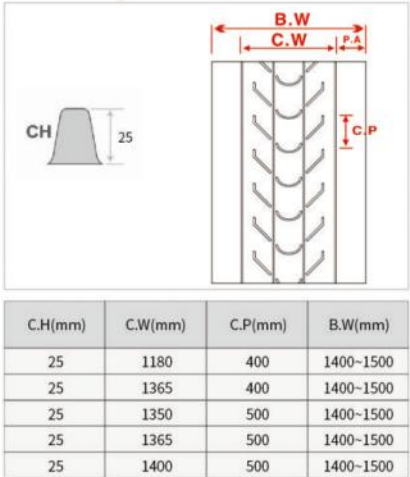
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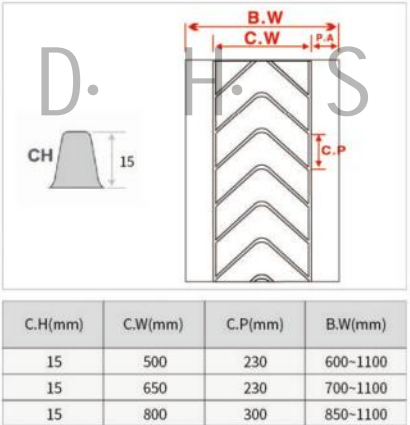
Item:CB15 P890,CB15 P980
CB15 P1050,CB15 P1290
Profile height:15mm



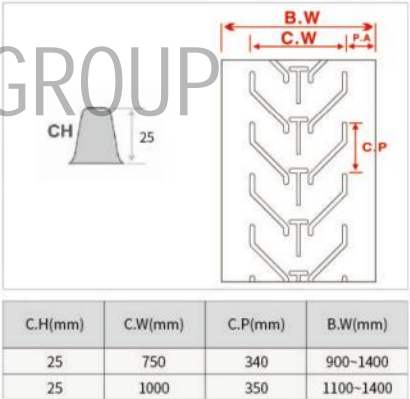
Item:CB25 P1180,CB25 P1350
CB25 P1365,CB25 P1400
Profile height:25mm



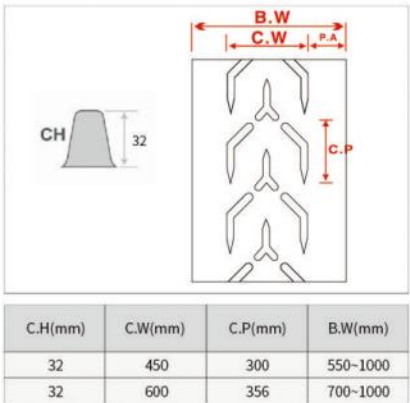
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Profile height:15mm



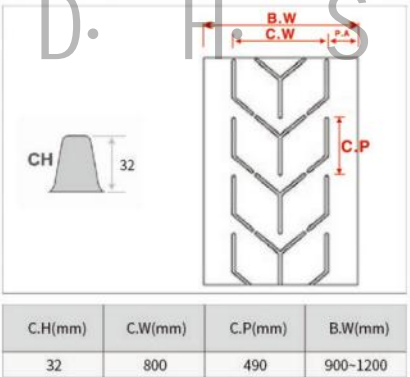
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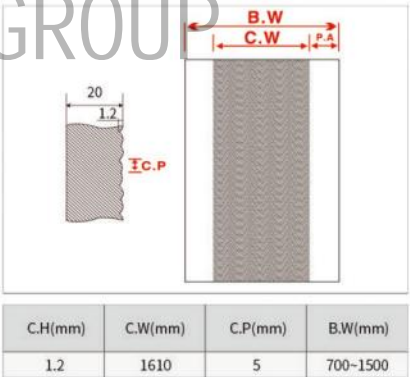
Item:Y32 P450,Y32 P600
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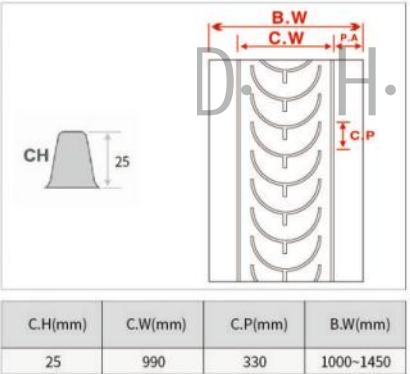
Item:Y32 P800
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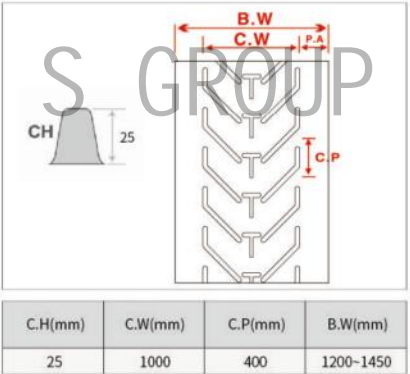
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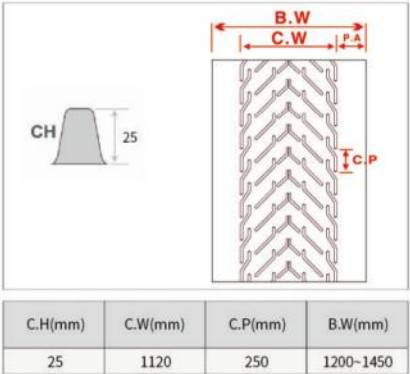
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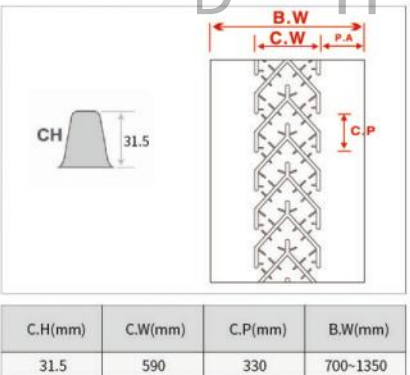
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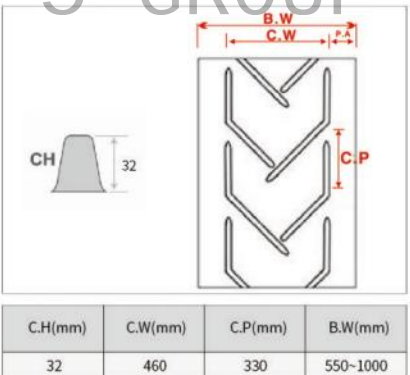
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Profile height:25mm



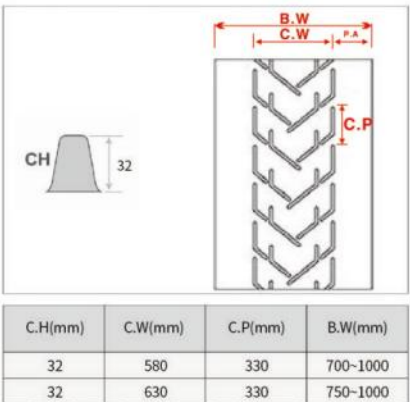
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Item:C32 P460
Profile height:32mm



Item:C32 P580,C32 P630
Profile height:32mm



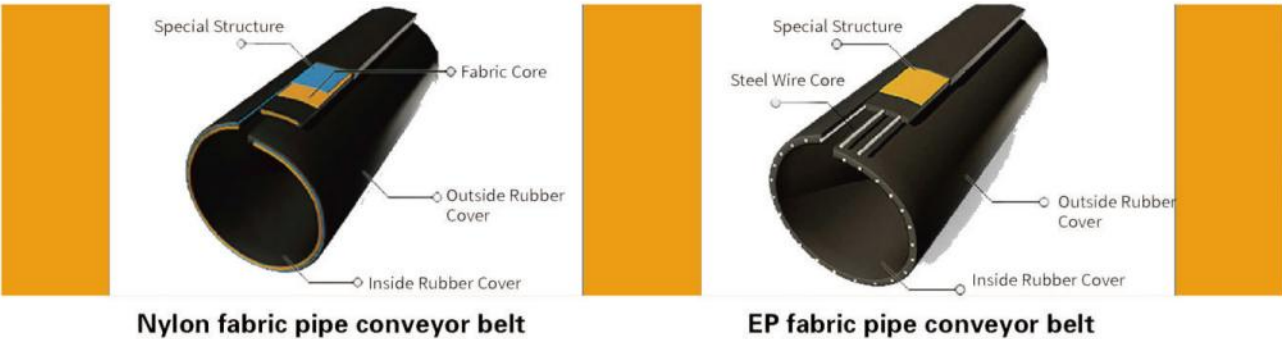
The pattern is for reference only, and the actual size is subject to the mold drawing.

Special Conveyor Belt

Tube Conveyor Belt

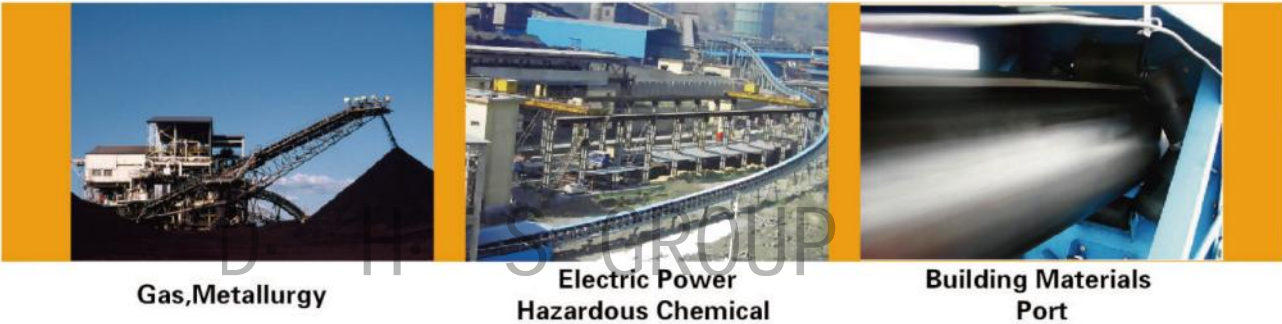
Product Classification

Carcass materials: Nylon fabric pipe conveyor belt
EP fabric pipe conveyor belt



Application

Pipe conveyor belt is applicable to coal, mine, port, electric power, metallurgy, building materials and grain industries, which have strict requirements for environmental protection and material transportation for bending in three-dimensional space. When working, the tape gradually changes from plane to U shape, and finally rolls into tubular shape to implement closed conveying.



Product Structure

Pipe Conveyor Belt, the core body is composed of high strength canvas or steel wire rope, high strength, high wear resistance and high quality rubber as upper and lower covering layer.

Pipe Conveyor Belt refers to the conveyor belt matched with the circular pipe belt conveyor, which forms the shape of a circular pipe in the whole or part of the transportation line by means of external force.

Product Benefit

This pipe conveyor belt is economical for incline (up to 30°) transportation due. The product features are fully enclosed material transportation, no material flying, not affected by natural conditions, not affecting the environment, bendable, large inclination, round-trip transportation of materials. With the ever increasing use of pipe conveyors as an acceptable form of bulk solids transportation, especially when environmental, operating and maintenance costs are of primary importance, has come the added advantage, of suppliers breaking new ground in the innovation stakes.

Technical Specification Of Steel Wire Core Pipe Conveyor Belt

Belt Type	ST 630	ST 800	ST 1000	ST 1250	ST 1600	ST 2000	ST 2500	ST 3150	ST 3500	ST 4000	ST 4500	ST 5000	ST 5400
Steel Wire Diameter	3.0	3.5	4.0	4.5	5.0	6.0	7.2	8.1	8.6	9.1	9.7	10.9	11.3
Top Rubber Thickness	5	5	6	6	6	8	8	8	8	8	8	8.5	9
Bottom Rubber Thickness	5	5	6	6	6	6	6	8	8	8	8	8.5	9
Width (mm)													
780	73	73	61	61	61	61	49	49					
1000	95	95	79	79	79	79	64	64	64	64	59	55	55
1100	105	105	87	87	87	87	71	71	71	71	65	61	61
1300	124	124	103	103	103	103	83	83	83	83	77	71	71
1530	145	145	121	121	121	121	98	98	98	98	90	84	84
1900			151	151	151	151	122	122	122	122	115	106	106
2250						180	144	144	144	144	137	127	127
2650						213	172	172	172	172	162	151	151

Technical Specification Of Fabric Core Pipe Conveyor Belt

Belt Type (N/mm)	400	500	630	800	1000	1250	1600	2000
Pipe Diameter (mm)	150	200	250	300	350	400	500	600
Band Width (mm)	650 (550)	750	1000 (950)	1100 (1150)	1300	1600 (1650)	1800	2200

Fabric core pipe conveyor belt: horizontal turning radius $R \geq r \times 300$; vertical turning radius $R \geq r \times 300$

Steel wire core pipe conveyor belt: horizontal turning radius $R \geq r \times 600$; vertical turning radius $R \geq r \times 600$

Transition length: fabric type $\geq r \times 25$; steel wire type $\geq r \times 50$



Special Conveyor Belt

Straight Warp Conveyor Belt

Product Classification

Carcass materials: SW Conveyor Belt
CFW Conveyor Belt
ARAMID Conveyor Belt

Application

SW/CFW/ARAMID conveyor belts are suitable for conveying materials in larger drop height, high load and high speed occasions, which are widely used in coal, mine, port, electric power, metallurgy, building materials, metallurgy, cement, etc. These belt are designed to carry large volumes of non-corrosive materials and have excellent durability in harsh environments.

Product Benefit

Synthetic fibers have higher unit strength and excellent wear resistance, cut resistance and abrasion resistance. The single layer structure increases resistance to bending fatigue and impact that is different from conventional crimp woven fabrics. The developed carcass completely deviates from the traditional laminating concept and structure. The features are low elongation, excellent impact resistance, excellent anti-tearing performance, low rolling resistance and high adhesive strength. The special structure of fabric can absorb impact better than ordinary EP or NN fabric, which will extend the service life of the belt.

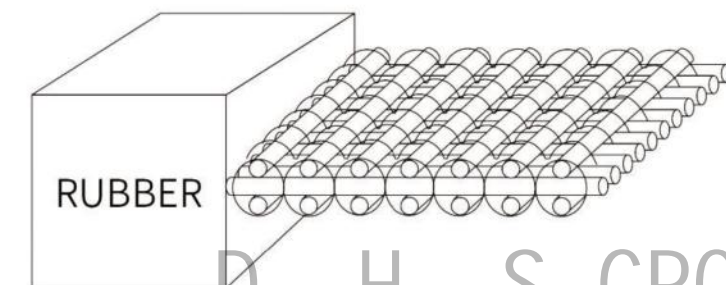


Product Structure

The synthetic fibers of SW/CFW/ARAMID replace the multilayer structure with 1 or 2 plies, which will make the belt running well with the smaller pulley and the single roll length will be 400~500 to reduce loss.

D·H·S GROUP

SW CONVEYOR BELT SKETCH MAP



D·H·S GROUP

Main Technical Indicators

Item			Type		
			NN, EP		
Adhesion	Fabric and cover adhesion	Rubber cover thickness $\geq 1.5\text{mm}$	5		
		Rubber cover thickness $0.8\sim 1.5\text{mm}$	4		
	Ply-ply adhesion		$\geq \text{N/mm}$ 5		
Belt ultimate tensile / N/mm			SW350、SW400、SW500、SW630、SW800、SW1000、SW1250、SW1400、SW1600		
Structure			1ply or 2plies		
Cover performance	Tensile strength / MPa		H24	D18	L15
	Elongation at break / %		450	400	350
	Abrasion / mm3		120	100	200
	Aging test (70℃×168h)		More than 75% value before aging test		
	Median of tensile strength and elongation at break				



Special Conveyor Belt

Rubber Seal Conveyor Belt

Product Classification

According to different reinforcement materials:
High elastic square steel bar structure rubber sealed cover belt
Steel mesh rubber sealed cover belt

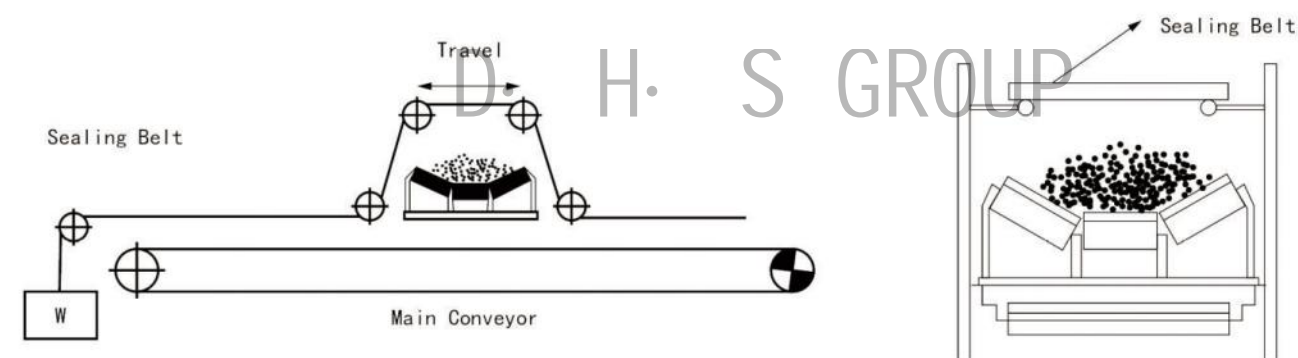
Application

Rubber sealed cover belt is mainly used in industries such as ports, building materials, cement, chemicals and food. It is mainly used to install above the ship loading and unloading conveyor for transporting bulk materials to prevent rain and snow, dust, cover, etc. At the same time, it must also meet the requirements of cement, grain and other powdery and granular materials, suitable for the free movement of ships. One end is fixed with a fixed rail, and the other end is tensioned with a heavy mound. The belt can be moved as needed.

Product Structure

For conveyor uses, a large-width ozone-resistant flame-retardant rubber sealing cover belt, and the upper and lower surfaces of the structural belt body are flat. The belt body adopts reinforced square steel bars and rectangular rubber strips to be laid at intervals to ensure that the belt has certain rigidity. Then use the dipped canvas to wrap the reinforced high-elastic square steel bars and the rectangular rubber to form a whole, and then cover the rubber, the side rubber, and vulcanize it. The belt has certain rigidity in the transverse direction to ensure that the belt surface can bear certain weight, and rain can be naturally discharged through the edge of the belt without rainwater retention. The belt body is covered with canvas in the longitudinal direction to ensure that the belt can withstand certain tension. The surface of the belt is covered with a certain thickness of rubber layer to protect the belt body and reduce the impact of external force. The belt body has good longitudinal bending performance to ensure that the belt can smoothly pass through the reversing roller when the feeder is running in the longitudinal direction.

Structure and Working Principle of Rubber Sealing Covering Belt



Product Benefit

Installed above the ship loading and unloading conveyor that transports bulk materials to prevent rain and snow, dust and cover, and meet the requirements of cement, grain and other powdery and granular materials suitable for free movement of ships.

Main Technical Indicators

Item		Index			
Adhesion	Cover to fabric / N/mm ≥	5			
		Ordinary		K2 flame retardant	
	Tensile strength / MPa ≥	18	20	18	
Cover rubber	Elongation at break / % ≥	400	400	450	
	Abrasion / mm ³ ≤	90	150	180	
Ozone resistance		50±5pphm×40±2℃×24h, No cracks			
Structure of square steel bars mm		SS400	5×5	9×9	12×12
Pitch of square steel bars mm		50	100	150	

Can be specially designed and customized according to customers' demands.

Special Conveyor Belt

Full Rigid Cloth Sidewall Basic Conveyor Belt

Product Classification

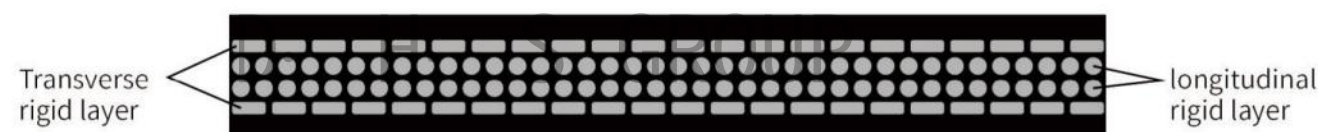
According to frame materials: Full rigid fabric structure base belt
Rigid fabric sandwich structure base belt

Application

Rigid fabric structure base belt, rigid fabric sandwich structure base belt are both widely used as base belt of sidewall belts.

Product Structure

The special structure of the fabric core conveyor belt is composed of a layer of dipped rigid fabric or all layers of dipped rigid fabric as the framework material, covered with different properties of cover rubber, finished through the process of calendering, building, vulcanization, etc.



Product Benefit

Rigid fabric structure base belt, rigid fabric sandwich structure base belt, good rigidity in transverse direction, widely used in base belt.

Special Conveyor Belt

Roto-cure Conveyor Belt

Application

Nylon fabric structure of filter belt is widely used for base belt of filter.

Product Structure

The special fabric conveyor belt is made of a single-layer, double-layer dipped nylon fabric structure as frame material, covered with different properties of cover rubber, and finished through the process of calendering, building, vulcanization, etc.

Special Conveyor Belt

Nylon Cord Fabric Structural Sieve Belt

Product Classification

According to structure: Single-layer fabric structure belt
Single bare back fabric structure belt
Both bare back fabric structure belt
Patterned rubber surface fabric belt

Application

For the transportation of light materials.

Product Structure

Making of a single-layer fabric or multi-layer fabric as the frame, or the non-working surface is bare, or the working surface and the non-working surfaces are both bare, or a special canvas is used for patterned surface. Form single-layer fabric structure belt, single bare back fabric belt, both bare fabric belt, and patterned rubber fabric belt.

Product Benefit

Single-layer fabric structure, or the non-working surface is bare, or the working surface and the non-working surface are both bare, or the special canvas is used on the cover rubber to form pattern and other special purpose conveyor belts, fully meet the different requirements of transportation of light materials in special environments.





Special Conveyor Belt
White Conveyor Belt

Application

The white rubber conveyor belt is mainly used for conveying light-colored materials of lump, granular, powdery materials or pieces.

Product Structure

The white rubber conveyor belt is made of multi-layer dipped nylon canvas, EP canvas as frame, using white rubber, covered with white rubber, and finished through calendering, building, vulcanization, etc.

Product Benefit

This product has the characteristics of light color, clean and anti-pollution.



Special Conveyor Belt

Bucket Elevator Conveyor Belt

Product Benefit

Elevator conveyor belt includes fabric and steel cord elevator belts. The product has good performance, reliable operation and low-cost maintenance. It has the characteristics of small elongation, large conveying capacity, stable operation, convenient maintenance and good adaptability to materials.



Application

Elevator conveyor belt is used to convey materials vertically. It is widely used in building materials, mining, chemical, light industry, machinery, electricity, food and other sectors.

Main Technical Parameters Of Bucket Conveyor Belt

Categories	Type	Frame materials	Thickness		Width
			Top cover	Bottom cover	
Ordinary	CC	CC-56	1.5	1.5	300-2200
	NN	NN100-NN400			300-2200
	EP	EP100-EP400	3.0	3.0	
加强型（防撕裂型）	CC	CC-56			4.5
	NN	NN100-NN400			
	EP	EP100-EP400	6.0	6.0	
	ST	ST630-ST5000			

Note: According to customer's demand, there are ordinary, heat-resistant and non-flammable and static conductive types, for your choice.

Special Conveyor Belt

Corrugated Sidewall Conveyor Belt

Product Benefit And Classification

Features: 1.It can greatly shorten the conveyor area and save space.
2.No need to use the sidewall when in use to avoid unnecessary wear and tear.
Product Type: The horizontal cleat can be T or L type.
Product use: can convey powder or block materials, and can realize large inclination angle of transportation, the maximum inclination angle can reach 75°.

Product Structure

Base belt requirements: The corrugated sidewall conveyor belt requires certain tensile strength and wear resistance. For the corrugated sidewall conveyor belt with empty edges, in order to meet the requirements of angle changes, the longitudinal direction of the belt requires high flexibility, and the transverse direction requires certain rigidity.

The structure of the base belt: The base belt is composed of four parts: top cover, bottom cover, carcass and the transverse rigid layer. The thickness of top cover is generally 3-6mm, and the bottom cover is generally 1.5-4.5mm. The carcass bears the tensile force. The materials can be cotton(CC), nylon(NN), polyester (EP) canvas or steel cord (ST). In order to increase the transverse rigidity of the base belt, a special reinforcement layer is added to the belt carcass, called the reinforced rigid layer. The width of the base belt is the same as that of ordinary belt and conforms to the national standards.

Corrugated sidewall: A tear-resistant canvas layer is inside the corrugated sidewall to enhance the tear and flexibility resistance, preventing tear from pulling and compression, and increasing the lifespan of sidewall. S type of sidewall includes light (N), medium (S) and heavy (ES) according to capacity.

Cleat: Made of fiber composite material, which has great stiffness, enhances impact resistance, and avoid deforming due to force. In the case of heavy wear and tear, the cleat can be made into a mosaic type, such as TS and TCS for easy maintenance. When the inclination angle of the conveyor is less than 40°, the option is T type or TS type. When the inclination angle is more than 40°, type C, TC, or TCS as option.
For pitch of cleat, it should be considered to correspond to the crest of the sidewall, to prevent the material leaking from the gap between the them, and causing a dead angle when unloading.
The corrugated sidewall belt produced by our company, the sidewall, cleat and base belt are bonded by secondary low-temperature thermal vulcanization. The bonding strength is high, firm, smooth, and hard to drop. The cleat and sidewall are connected by bolts, which increase the overall rigidity and improve the performance, and solve the problem of material leak.

Specifications And Parameters Of Various Retaining Strips

Type of sidewall	Height of sidewall (H)	Distance of crest (T)	Distance of crest (T)	Width of base (BF)	Per square meter (SK)	Cleat (H)	Type of cleat	Width of base (F)	Per square meter (CTK)
S	60	44	42	45	0.61	50	CT	55	0.55
S	80	44	42	50	0.75	75	CT	70	1.29
S	120	44	42	50	1.69	110	CT	100	1.76
S	160	65	65	80	2.68	150	CT	100	2.24
S	200	70	65	90	3.53	180	CT	160	3.39
S	240	80	65	90	4.75	220	CT	160	5.00
S	300	90	70	95	7.03	280	CT	160	7.05

Specifications And Technical Parameters Of Fabric Core Conveyor Belt

Width of base belt mm	Height of sidewall mm	Height of cleat mm	Width of sidewall base mm	Distance between sidewall mm	Distance of edges between sidewall and base beltmm
300	40	35	25	180	35
	60	55	50	120	40
	80	75			
400	60	55	50	180	60
	80	75			
	100	90			
500	80	75	50	250	75
	100	90			
	120	110			
650	100	90	50	350	100
	120	110		300	
	160	140	75		
800	120	110	50	460	120
	160	140	75	410	
	200	180			
1000	160	140	75	550	150
	200	180			
	240	220			
1200	160	140	75	690	180
	200	180			
	240	220			
	300	280	105	630	
1400	200	180	75	830	210
	240	220			
	300	280	105	770	
	400	360			
1600	200	180	75	970	240
	240	220			
	300	280	105	910	
	400	360			
1800	240	220	75	1110	270
	300	280	105	1050	
	400	360			
	500	460	125	1010	

Calculation method:

Total square meters= [Width of belt × (Ply+ $\frac{\text{Top cover+bottom cover}}{1.5}$) × Circumference]+[Circumference×2×SK]
+ [$\frac{\text{Circumference}}{\text{Distance}}$ × Effective width of belt×CTK]