



# CONVEYOR BELT

FABRIC RUBBER / STEEL CORD RUBBER / PVC/PU



*We're Selling Trust!*

**MONSTER BELTING INDUSTRY CO.,LTD**

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# COMPANY PROFILE

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## MONSTER BELTING INDUSTRY CO.,LTD

Founded in 1998, is a professional manufacturer and exporter of heavy-duty conveyor belts. Began as a production of heavy belt based factory in Shandong province. Today our business has grown out of the domestic to foreign promotion. With the business development and growth. In March 2010, we set up our International Business department. The main business direction is export of all kinds of Rubber conveyor belt. Monster belting export office is located in Qingdao city. Annual export volume of more than 10 million dollars.

Our customers are distributed in the United States, Canada, Russia, South Africa, India, Pakistan, Indonesia & ect.



# MAIN PRODUCTS

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CONVEYOR BELT CONSTRUCTION	01
NYLON & POLYESTER CONVEYOR BELT	02
FLAME RESISTANT CONVEYOR BELT	03
HEAT RESISTANT CONVEYOR BELT	04
OIL RESISTANT CONVEYOR BELT	07
ROUGH TOP CONVEYOR BELT	08
CHEVRON (PATTERN) CONVEYOR BELT	10
CORRUGATED SIDEWALL CONVEYOR BELT	11
STEEL CORD CONVEYOR BELT	12
PVC/PU CONVEYOR BELT	15

# CONVEYOR BELT CONSTRUCTION

## FABRIC RUBBER CONVEYOR BELT

### Top Cover

Designed to protect the carcass from service conditions like oil, heat, abrasion, etc.

### Skim Coat

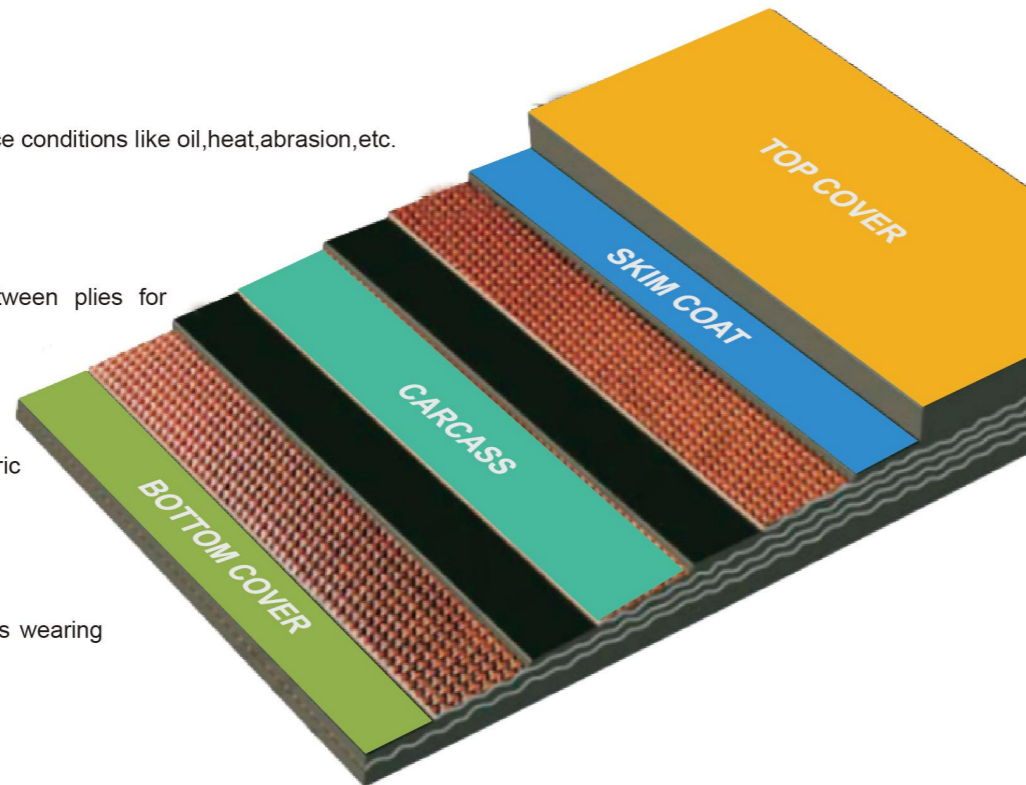
Compounded for excellent adhesion between plies for protecting against ply separation.

### Carcass

Extremely low stretch characteristics of fabric and good troughability.

### Bottom Cover

Excellent in abrasion and flexibility, provides wearing surface against pulleys and idlers.



### Cover Rubber Thickness

Condition	Moderately Abrasive	Abrasive	Very Abrasive	Extremely Abrasive
Material Carried	Fine Coal, Grain, Wood Chips, Ash, Cement, etc.	Sand, Coal, Clay, Salt, etc.	Limestone, Crushed, Coke, etc.	Ores, Slag, Cullet, etc.
Lump Size	0-2(0-50mm)	2-6(50-150mm)	6-10(150-250mm)	8-12(200-300mm)
Belt Cycle (Second)				
0-20 inch	1/16-1/8(1.5-3.0mm)	1/8-3/16(3.0-5.0mm)	3/16-1/4(5.0-6.0mm)	1/4-5/16(6.0-8.0mm)
20-60 inch	1/16-3/32(1.5-2.5mm)	1/8-3/16(3.0-5.0mm)	3/16-1/4(5.0-6.0mm)	1/4-5/16(6.0-8.0mm)
60-300 inch	1/16-3/32(1.5-0.8mm)	1/16-3/32(1.5-2.5mm)	1/8-3/16(3.0-5.0mm)	3/16-1/4(5.0-6.0mm)

### Abrasion Resistant

Cover Rubber Grade : RMA, DIN, BS, AS, JIs

Cover Grade	Tensile Strength Min.(MPa)	Elongation Min(%)	Abrasion Loss Max.(mm)
DIN-X	25	450	120
DIN-W	18	400	90
AS-A	17	400	70

※ Note : Abrasion test is based on DIN 53516

# GENERAL CONVEYOR BELT

## FABRIC RUBBER CONVEYOR BELT

This Construction, utilizing all nylon, offers maximum impact and damage resistance from material and suitable for transporting a variety of materials(ore, crushed stones, grain, sand, etc.) Several types of carcass using NN/EP fabrics with various thickness; are available according to the load conditions.



### NYLON FABRIC(N) CONVEYOR BELT

#### Special Features

- Exceptionally shock & impact resistance to the carrying surface.
- Superior in fastener holding ability.
- Excellent troughability and flexibility
- Greatest resistance to water and mildew.

Grade		NN100	NN120	NN150	NN200	NN250	NN300	NN350	NN400	NN500
Min. Tensile Strength	kg/cm-ply	100	120	150	200	250	300	350	400	500
	lb/in-ply	560	672	840	1,120	1,400	1,680	1,960	2,240	2,800
Working Tension Rating (Vulcanized)	kg/cm-ply	8.4	10.0	12.5	16.7	20.8	25.0	29.2	33.3	41.7
	lb/in-ply	46.7	56.0	70.0	93.3	116.7	140.0	163.3	186.7	233.3
Approx. Gauge perPly with skim coat	mm	0.9	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.7
	inch	0.035	0.047	0.051	0.059	0.063	0.071	0.079	0.087	0.016

### POLYESTER FABRIC(EP) CONVEYOR BELT

The combination of polyester in warp and nylon in filling provides technically low-stretch and high impact abuse resistance.

#### Special Features

- High resistance to tension.
- Outstanding stability dimensionally
- Impact resistance.
- Complete moisture & mildew protection.

Grade		EP100	EP125	EP150	EP200	EP250	EP300	EP350	EP400	EP500
Min. Tensile Strength	kg/cm-ply	100	120	150	200	250	300	350	400	500
	lb/in-ply	560	672	840	1,120	1,400	1,680	1,960	2,240	2,800
Working Tension Rating (Vulcanized)	kg/cm-ply	8.4	10.0	12.5	16.7	20.8	25.0	29.2	33.3	41.7
	lb/in-ply	46.7	56.0	70.0	93.3	116.7	140.0	163.3	186.7	233.3
Approx. Gauge perPly with skim coat	mm	0.9	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.7
	inch	0.035	0.047	0.051	0.059	0.063	0.071	0.079	0.087	0.016

### Carcass Grade (EP & NN)

Grade	160	200	250	315	400	500	630	800	1000	1250	1600	2000
2 Ply	160/2	200/2	250/2	315/2	400/2							
3 Ply			250/3	315/3	400/3	500/3	630/3	800/3	1000/3	1250/3		
4 Ply					400/4	500/4	630/4	800/4	1000/4	1250/4	1600/4	
5 Ply						500/5	630/5	800/5	1000/5	1250/5	1600/5	2000/5
6 Ply							630/6	800/6	1000/6	1250/6	1600/6	2000/6

# FLAME RESISTANT CONVEYOR BELT

## FABRIC RUBBER CONVEYOR BELT

Monster Flame resistant conveyor belt is designed for the best service condition of coal mining industries. It is suitable for mining, power plant, electric utilities, cleaning plants. The different rubber compounds available in accordance with its requirement.



### FR-MOR

Grade is fire resistance with medium oil resistance and accepted by USMSHA (Mine Safety and Health Administration). It is recommended for the typical applications like oil treated coal and grain industries requiring fire & oil resistance, and static conductivity with lower electric resistance than 1MQ.

### FR-SBR

Grade is SBR fire resistant cover rubber meeting USMSHA (Mine Safety and Health Administration). It provides highly resistance to wear and cold resistance.

### FR-GR

Grade is specially compounded SBR cover rubber for the under-ground operation requiring fire resistance, static conductivity. The important characteristic is self-extinguishable cover rubber.

### Flame Resistant

Cover Rubber Grade: USMSHA, SABS, DIN, AS, etc.

Type	Application Grade	Cover Rubber		
		Min Tensile Strength		Min Elongation (%)
		kg/cm <sup>2</sup>	psi	
FR-MOR	MSHA/MOR(USA)	150	2100	400
FR-SBR	MSHA/SBR(USA)	140	2000	400
FR-GR	ISO, DIN, JIS, KS	140	2000	400

### Certified

- USA**
  - FR-MOR (MSHA/MOR/SC) USMSHA NO.28-85/6
  - FR-SBR (MSHA/SBR) USMSHA NO.28-85/5
- RUSSIA**
  - FR-MOR POCC KR BO1408
  - FR-SBR POCC KR BO1324

## PVC/PVG SOLID WOVEN CONVEYOR BELT

Belt load is carried by solid woven carcass, which is impregnated with PVC paste then protected with PVC or PVG covers. Solid woven belt has good fire resistance, anti-static properties. It has light weight, high elongation at break, good adhesion, high impact resistance, and high tear strength. It is suitable for underground coal mines as well as environments where flame resistant properties are required.

### PVC Solid Woven Conveyor Belt:

Suitable for applications in dry conditions at a slope angle of no greater than 16 degrees. Cover thickness can be from 0.5 to 4 mm.

### Nitrile Covered PVG type:

Suitable for applications at a slope angle of less than degrees, thickness can be 1 to 8 mm. Resistance to wetness, slip, low temperature and wear resistance of the belt.

### Specification Availability

Standard MT914-2008					Safety factor 10 (Breaking strength*1/10)
The Slope <16° C				Tensile yield ≥%	
Standard type	Degree	Breaking strength ≥ N/mm			
		Longitudinal	Transverse		
680S	4th	680	265	15      18	320
800S	5th	800	280		400
1000S	6th	1000	300		500
1250S	7th	1250	350		500
1400S	8th	1400	350		630
1600S	8th	1600	400		750

# HEAT RESISTANT CONVEYOR BELT

## FABRIC RUBBER CONVEYOR BELT

The performance-proved Monster Belt: Heat resistant belt meets hot service application like hot sintered ore, hot pellet, hot clinker, hot chemical, fertilizer, hot cement, etc.



## HEAT RESISTANT CONVEYOR BELT

### Special Features

- Cushioning effect absorbs vibration and reduces slippage.
- Usable at the angle of 25~35 degrees, depending on goods to be carried.

### Heat Resistant

Temperature	Type	Compound of Cover Rubber	Temperature Range of Use		Application
			Peak Material Temp for Short Period (°F)	Peak Material Temp for Short Period (°F)	
Low Temperature	HT-400 HR-100	SBR	Lump 300-400°F Fines 150-300°F	Lump 200-300°F Fines 100-200°F	For low temperature with abrasive material coke, sintered products, etc
Medium Temperature	HT-550 HR-130	BUTYL	Lump 500-550°F Fines 300-400°F	Lump 350-400°F Fines 200-300°F	For medium temperature application castings, sintered one, coke, limestone
High Temperature	HT-750 HR-150	EPM	Lump 650-700°F Fines 450-500°F	Lump 550-600°F Fines 300-400°F	For high temperature use dried clay, cement clinker, etc
Super Temperature	HT-850 HR-180	EPM	Lump 800-850°F Fines 600-650°F	Lump 700-750°F Fines 500-550°F	For super high temperature application sintered one, cement clinker, chemicals, etc

HT-710 & HT-850 Exwill conveyor belt are the best selection for wide ranges of high temperature application

Heat resistant conveyor belts are most suitable for heat resistant applications where the temperature of material to be carried is over 60° (140°F)

### User of Attention

The temperature of material being transported and the belt's surface temperature vary according to the material and shape. For instance, when materials have a temperature of 150°C (300°F) (such as coke or sintered ore) and have a relatively small contact area, our conveyor belt's surface temperature could remain at 60~80°C (140~180°F). In contrast, when powdered material like cement is being conveyed, the material temperature and the belt surface temperature do not differ so greatly. The lifetime of heat resistant belt is largely affected by the belt's surface temperature during operation.

### Characteristics indispensably required for heat resistant Monster conveyor belt are as follows

- Rubber cover and carcass should not deteriorate due to heat.
- Rubber cover and carcass should maintain excellent properties even at high temperatures and good adhesion to form one unit, even when they are exposed to high temperatures.

The surface temperature of heat resistant Monster conveyor belt varies with the material type, belt speed, loading rate and size depending on circumstance condition.

In order to select the proper heat resistant Monster conveyor belt, it is necessary to consider not only the material temperature to be conveyed but also the surface temperature of Monster conveyor belt.

## SELECTION OF HEAT-RESISTANT GRADE

Materials Carried	Temperature of Materials Carried	Belt Surface Temperature	Heat Resistant Conveyor Belt Grade
Sintered Ore	25-200mm(1-8inch)	50-100°C	HT-400
	200°C upward	100°C downward(Lump Condition)	HT-400
		100-130°C	HT-55(Lump Condition)0 HT-710
		130-180°C	HT-710,HT-850
Return of Sintered Ore	150°C downward	50-80°C	HT-400
	150°C upward	80°C downward(Lump Condition)	HT-400
		80-130°C	HT-550
		130-180°C	HT-710,HT-850
Spherical	120°C upward	80°C downward	HT400
	200°C upwnward	80°C upward	HT550
Pellet	150°C downward	100°C downward	HT400 (Lump Condition)
	200°C downward		
Coke	60-400°C	100°C downward	HT400
	120°C downward	50-80°C	HT-400 (Lump Condition)
		80-130°C	HT-550
Cement	120°C upward	130-180°C	HT-710,HT-850
Dried Lime Dried Clay	120-150°C	100°C upward	HT-400(Lump Condition) HT-550(Lump Condition)0
	200°C upwnward	50-100°C	HT400
	500°C upwnward	100-130°C	HT550
130-180°C		HT-710,HT-850	
Cement Steel Mill Chemical Fertilizers	80°C downward	50-70°C	HT-400
	80°C upward	70-120°C	HT-550
		120-180°C	HT-710,HT-850
Molding	120°C downward	50-100°C	HT-400
	120°C upward	100-120°C	HT-550 HT-710
		120-180°C	HT-710,HT-850

## RESTRICTIONS ON THE USE OF HEAT-RESISTANT BELT

### SBR Heat-resistant belt

Do not use SBR heat resistant belt when :

- Powdered material is over 70°C (160°F)
- Strong acid or alkaline is used
- Oil products and oil-stained substances are used.
- The operation site or the materials require flame-resistant belts.

### EPR(EPM) Heat-resistant belt

Do not use EPR(EPM)

heat-resistant belts when:

- Powdered material is over 180°C (350°F)
- Oil products and oil-stain other than vegetable oil are present.
- The location of the materials requires flame-resistant belts.



# OIL/HEAT & OIL RESISTANT CONVEYOR BELT



## FABRIC RUBBER CONVEYOR BELT

The cover rubber is especially compounded for the applications requiring resistance to oils. It has outstanding abrasion, ozone and weather resistance. This Monster conveyor belt is recommended for the conveyor lines causing swelling and sponginess by oils.

### OR-100

Grade is to resist Moderate Oil Resistant operations like wood chips, linseed, cottonseed and whole soybeans where static conductivity is needed.

### OR-200

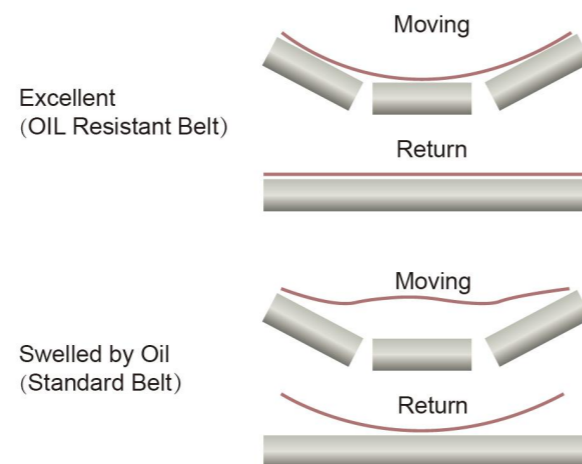
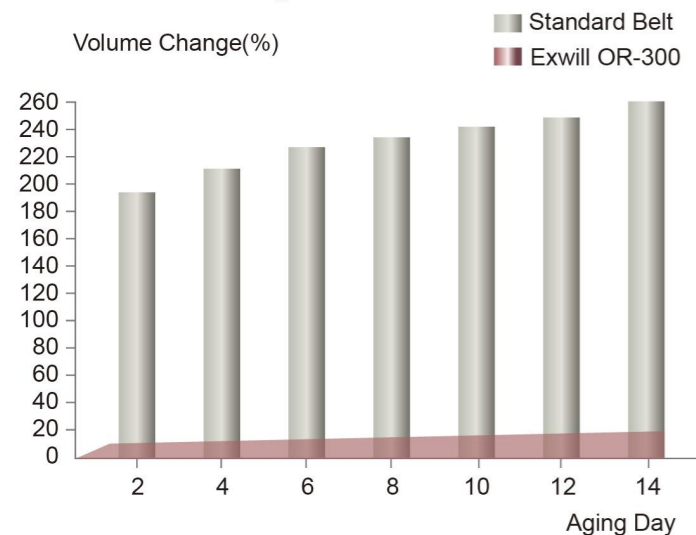
Grade has superior oil resistance to various kinds of animal and vegetable oil with severe cold temperature up to -45°C (50°F)

### COVER RUBBER GRADE

Type	MinTensile Strength		Min Elongation(%)	Volume Change(%) ASTM #3 Oil	Use
	kg/cm <sup>2</sup>	psi			
OR-100	100	1400	Min.350	Max.150	Wood chip,linseed,cottonseed,kernel corn,and whole soybeans,static conductivity,and moderate oil resistance
OR-200	120	1700	Min.350	Max.90	Oil-treated materials and for carrying oily metal turnings and shavings,crushed soybeans,animal or vegetable fats
OR-300	120	1700	Min.400	Max.20	Oily metal parts,crushed soybeans,automatic hydrocarbon such as benzol,toluene and petroleum based oils
HTN/HOT	120	1700	Min.400	Max.60	Hot asphalt and other oil & heat resistant applications

Oil resistance (volume change)and immersion condition:70oC x96Hrs

### Volume Change Ratio



# ROUGH TOP CONVEYOR BELT



## FABRIC RUBBER CONVEYOR BELT

This belt was designed for transporting fragile or easily deformed goods such as glass, paper bags, carton box,etc.The slip resistant surface is ideal for steep incline/decline applications.

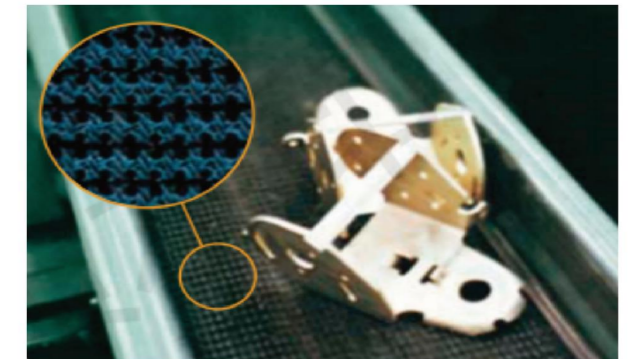
### HEAT RESISTANT CONVEYOR BELT

#### Special Features

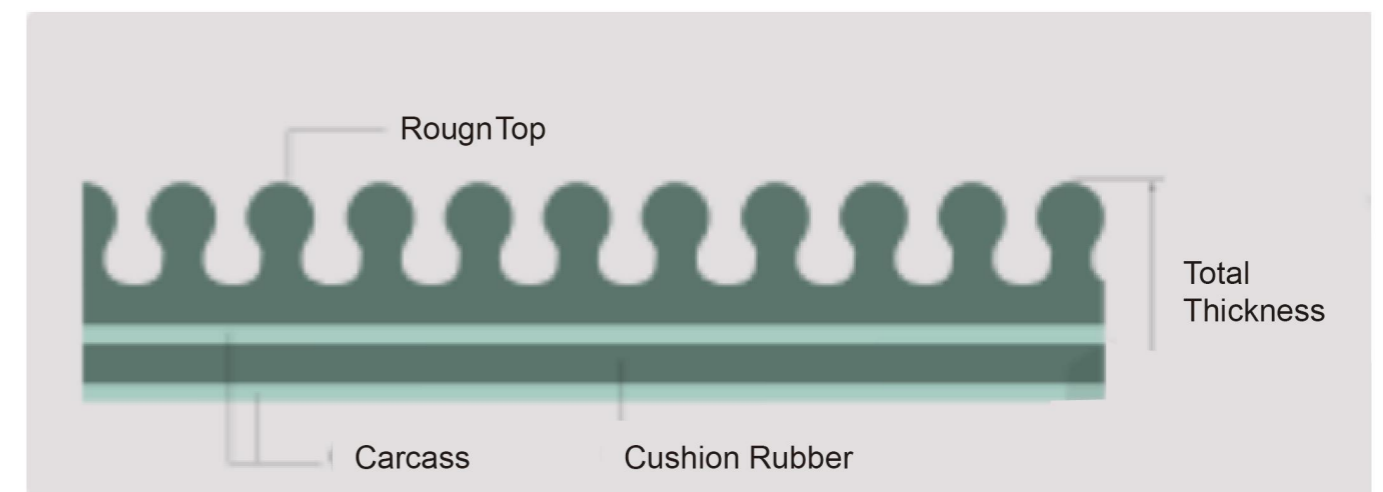
- Cushioning effect absorbs vibration and reduces slippage.
- Usable at the angle of 25~35 degrees, depending on goods to be carried.
- Low friction coefficient with bare back bottom.
- Two or three plies of synthetic fabrics provide high strength and flexibility.
- Various colored cover rubbers are available on requests.

#### Type of Rough Top Belt

2ply	Black	rougn	top x Bare
	Tan	rougn	top x Bare
3ply	Black	rougn	top x Bare
	Tan	rougn	top x Bare
	Brown	Nitrile	rougn top x Bare
	Blue	Nitrile	rougn top x Bare



### Structure of Rougn Top

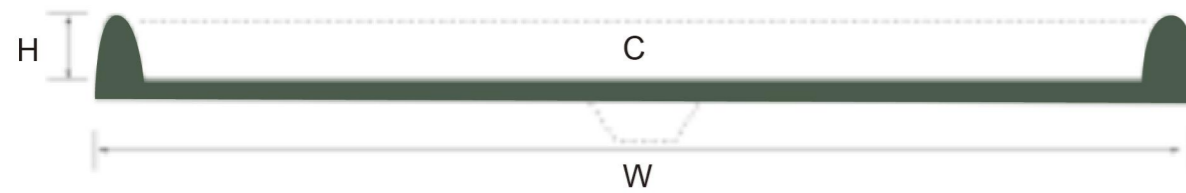


# COAL FEEDER CONVEYOR BELT

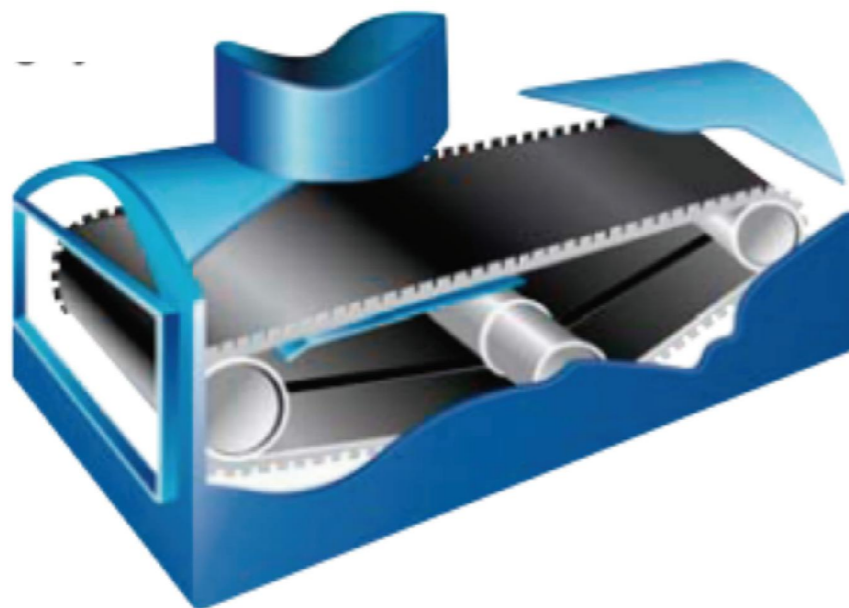
This belt is used for Feeding System controlling input quantity accurately of materials.



## Cross-Section View



## Feeding System



# INCLINE (CHEVRON CLEATED) CONVEYOR BELT

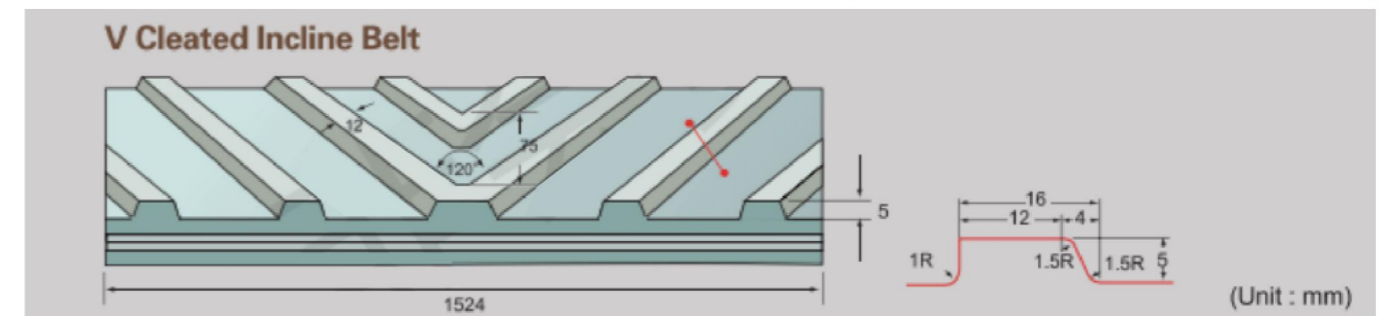
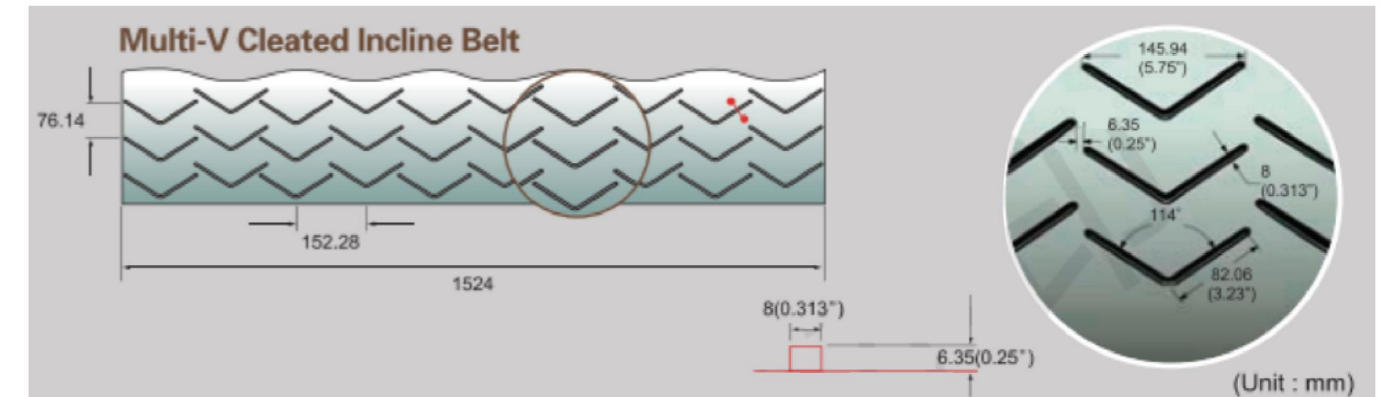


## FABRIC RUBBER CONVEYOR BELT

Monster Incline(Chevron-Cleated) conveyor belt is used to carry sand, fine coal and grain materials by using steep inclines. Chevron-Cleats increase the quantity of granular materials in Fabric incline applications.

### Special Features

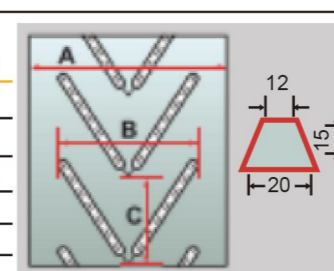
- High quality fabric with low stretch.
- Cleat angle and pitch are designed for smooth travel over return idlers.
- Higher angle of 17~30 degree of incline.
- Wear resistant and oil resistant black rubber quality is available.



### Steep Incline Belt

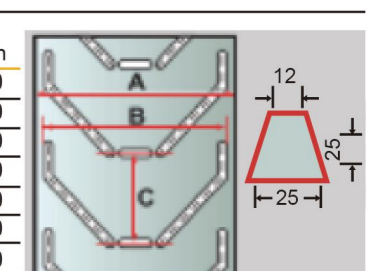
C15 Type (Unit:mm)

A Belt Width	B Pattern Width	C Pitch
500	385	250
600	385	250
650	385	250
750	600	370
900	600	370
1000	600	370



C25 Type (Unit:mm)

A Belt Width	B Pattern Width	C Pitch
600	550	250
650	550	250
750	550	250
800	550	250
900	750	330
1000	750	330
1050	750	330
1200	750	330



# SIDEWALL CONVEYOR BELT



## FABRIC RUBBER CONVEYOR BELT

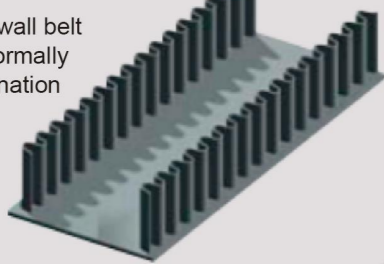
Designed with two corrugated sidewalls molded to cross-rigid basebelt. It is developed in order to meet larger capacities with more steep inclined line.

### Special Features

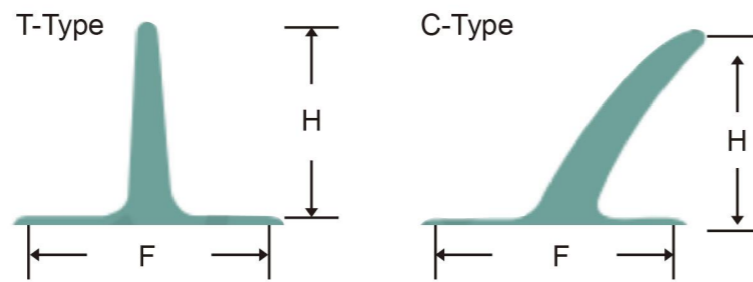
- Increase the transporting capacity to 4 times compared to standard conveyor belt.
- Save installation space due to the possibility of increasing the angle of inclination up to 90.
- Protect the material from friction by solid cleats mounted on the belt.

#### Type I

This type of sidewall belt has no fin and normally used for the inclination within 0~16°

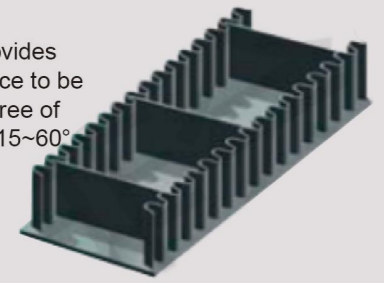


#### Fin Type

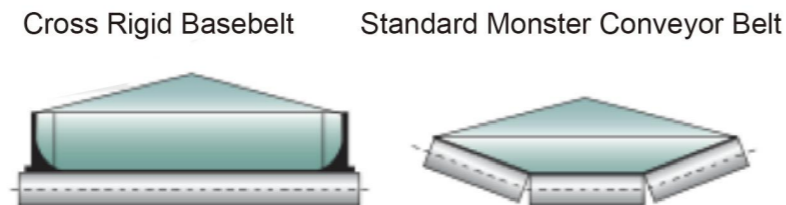


#### Type II

The cross-fin provides better performance to be used to high degree of inclination up to 15~60°

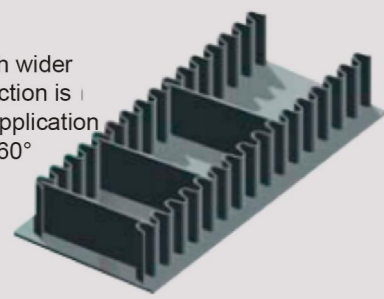


#### Comparison of Cross Section Area

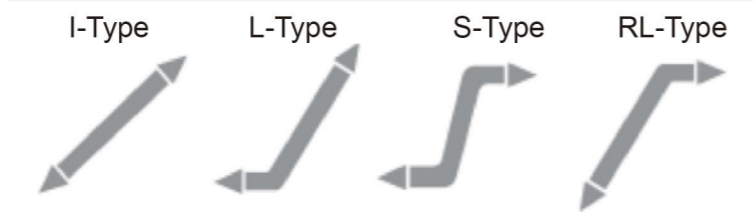


#### Type III

The cross-fin with wider basebelt construction is suitable for the application up to more than 60°



#### Various Installation



#### Cross Rigid Basebelt

In order to give maximum stability in the transverse direction, this basebelt is reinforced with specially designed filament fabrics which provides better return side support, no wear and tear of cleats and cover rubber is available with various compounds like abrasion oil, heat, flame resistance.

# STEEL CORD CONVEYOR BELT

General Construction Type	Structure	Feature
<p>Sketch of General Construction Type</p>	<p>Belt reinforcement consists of galvanized steel cord and core rubber which possesses superior adhesive property. Belt body comprises the reinforcement covered with top and bottom layer of rubber. Steel cord is composed of left and right twisting wire, arranged evenly and longitudinally in the belt.</p>	<p>With large tensile strength, long service life, small elongation, excellent troughability and superior flexing resistance, the belt is suitable for conveying materials over long distances with large loads and at high speeds.</p>
New Construction Type	Feature	
<p>Steel cord penetrated with core rubber</p> <p>Sketch of New Construction Type</p>	<p>Each strand of steel wire has enough room for the core rubber to penetrate. This strengthens greatly the bonding strength between the rubber and steel cord.</p> <p>Since the anticorrosive resistance to steel cord is good, the mutual shearing of strands and twisting of strand wire can be relaxed. The service life of belt can be prolonged, because dynamic fatigue resistance is excellent.</p>	
Transverse Reinforcement	Structure	Feature
	<p>On both side or one side, the transverse reinforcement (steel cord, steel wire cord, fiber cord or textile fabric) is laid out.</p>	<p>Good impact resistance and excellent property for reducing tear by external force increase belt life, rip resistance, cord protection.</p>



# PERFORMANCE OF CONVEYOR BELT

Belt Type	ST 500	ST 630	ST 800	ST 1000	ST 1250	ST 1400	ST 1600	ST 1800	ST 2000	ST 2250	ST 2500	ST 2800	ST 3150	ST 3500	ST 4000	ST 4500	ST 5000	ST 5400	
Tensile Strength(N/mm)	500	630	800	1000	1250	1400	1600	1800	2000	2250	2500	2800	3150	3500	4000	4500	5000	5400	
Max. Dia. of Cord(mm)	28	30	35	40	45	45	50	50	60	63	72	76	81	86	92	10.1	106	115	
Min. Breaking Strength of Cord(KN/Cord)	5.6	7.0	8.9	13.2	16.5	18.5	21.1	23.7	26.4	29.6	41.7	46.7	52.5	58.4	66.7	80.4	89.3	103.9	
Weight of Cord(g/m)	30.7	34.7	47.8	64.0	79.8	79.8	97.3	97.3	137.0	155.0	196.0	221.0	253.0	280.0	316.0	385.0	414.0	496.0	
Pitch(mm)	100	100	100	120	120	120	120	120	120	120	100	150	150	150	150	160	160	170	
Max. Working Strength of Belt(N/mm)	72	90	115	145	180	200	230	260	290	320	360	400	450	500	580	640	720	770	
Min. Thickness of cover (mm)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.5	5.5	6.0	6.5	7.0	7.5	8.0	
Min. Pulley Diameter (mm)	Head&Drive	600	600	600	750	850	950	1000	1200	1200	1400	1500	1550	1700	1800	1850	2000	2100	2400
	Tail&Take up	500	500	500	550	700	750	800	950	950	1200	1200	1250	1350	1400	1400	1600	1700	1900
	Bend&Snubs	350	350	400	450	500	510	600	700	700	800	900	950	1000	1050	1050	1200	1250	1400
<b>Belt Width(mm)</b>	<b>No. of steel cords</b>																		
500 ± 5.0	45	45	45	38	38	38	38												
650 ± 6.5	60	60	60	50	50	50	50	50	50	50	40	40	40	40	40	37	37	35	
750 ± 7.5	70	70	70	59	59	59	59	59	59	59	47	47	47	47	47	44	44	41	
800 ± 8.0	75	75	75	63	63	63	63	63	63	63	50	50	50	50	50	47	47	44	
900 ± 9.0	85	85	85	71	71	71	71	71	71	71	57	57	57	57	57	53	53	50	
1000 ± 10.0	95	95	95	79	79	79	79	79	79	79	64	64	64	64	64	59	59	56	
1050 ± 10.5	98	98	98	82	82	82	82	82	82	82	66	66	66	66	66	62	62	58	
1200 ± 12.0	113	113	113	94	94	94	94	94	94	94	76	76	76	76	76	71	71	67	
1400 ± 14.0	133	133	133	111	111	111	111	111	111	111	89	89	89	89	89	83	83	78	
1500 ± 15.0	141	141	141	118	118	118	118	118	118	118	94	94	94	94	94	89	89	83	
1600 ± 16.0	151	151	151	126	126	126	126	126	126	126	101	101	101	101	101	95	95	89	
1800 ± 18.0	171	171	171	143	143	143	143	143	143	143	114	114	114	114	114	107	107	101	
2000 ± 20.0				159	159	159	159	159	159	159	128	128	128	128	128	120	120	113	
2200 ± 22.0				176	176	176	176	176	176	176	141	141	141	141	141	132	132	125	

Note Belt beyond the above specification can also be made by request

### Example of Identification

DIN-Y	M/E	1600	X ST	1400	X	5.6	X	111	EA X	8	X	6	X Length
Grade of Cover Rubber	Type of Edge Rubber	Belt Width (mm)		Tensile Strength of Belt(N/mm)		Cord Dia (mm)		Total No. of Steel Cords		Top Cover Thickness (mm)		Bottom Cover Thickness (mm)	

# SPECIFICATION OF CONVEYOR BELT

## STEEL CORD RUBBER CONVEYOR BELT

### Special Features

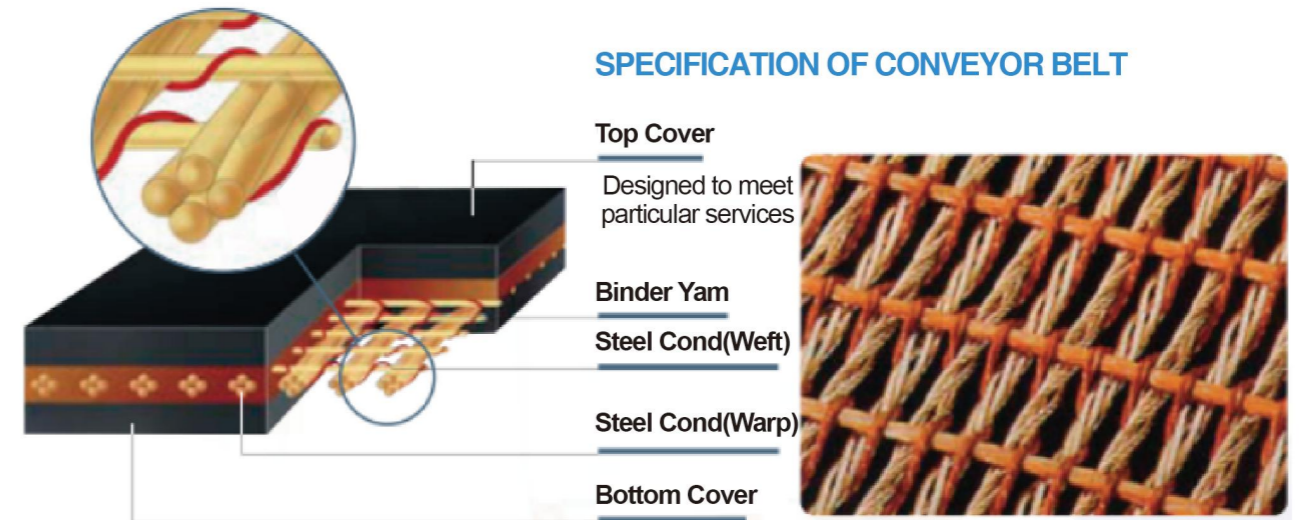
- The smaller elongation for steel mesh belt reduces the length of take-up.
- Excellent adhesion between steel mesh and cover rubber to resist flex fatigue and impact.
- Single carcass reinforcement has much better flexibility.
- Steel mesh belt offers superior resistance to the repeated impacts.
- Easy splicing by finger type vulcanizing joint.

### Steel Mesh Grade(IW Type):General

Grade		IW350	IW500	IW630	IW800	IW1000	IW1250	IW1600
Tensile Strength(warp)	N/mm	350	500	630	800	1000	1250	1600
Working Tension Rating(warp)	N/mm	35	50	63	80	100	125	160
Tensile Strength(weft)	N/mm	90	90	90	125	125	175	175
Carcass Thickness	mm	3.2	3.2	3.2	4.5	4.5	6.0	6.0
Weight	kg/m <sup>2</sup>	1.85	2.45	2.95	4.15	5.00	6.35	7.90
Pulley Diameter	mm	350	350	350	400	500	600	650

### Steel Mesh Grade(IW Type):Special

Grade		IW630R	IW800R	IW1000R	IW1250R	IW1400R	IW1600R	IW1800R	IW2000R
Tensile Strength(warp)	N/mm	630	800	1000	1250	1400	1600	1800	2000
Working Tension Rating(warp)	N/mm	63	80	100	125	140	160	180	200
Tensile Strength(weft)	N/mm	200	200	200	200	200	200	200	200
Carcass Thickness	mm	5.0	5.6	5.6	6.4	6.4	7.2	7.2	7.2
Weight	kg/m <sup>2</sup>	3.45	4.35	5.20	6.40	6.90	7.90	9.10	9.80



# PVC/PU MONSTER CONVEYOR BELT



## PVC/PU CONVEYOR BELT

Monster Belting produces conveyor and process belts for light and medium duty in all industrial and service sectors. Monster belts are able to meet with all types of conveyors, whether horizontal, roller supported, troughed and inclined, etc.

### Special Features

- Robust
- Longitudinally flexible
- Don't need to change dimensions
- Good environment & low noise during operation
- Light weight with low overall thickness
- Low elongation
- Economical conditions
- Small drum diameters
- Easy to maintenance
- Good working circumstance
- Simple method /convenient to put into machinery
- Small take-up ranges

### Applications

Light duty PVC/PU conveyor belts are available for the various application in all industries.

- Food handling
- Wood industry
- Corrugated boxboard
- Textile industry
- Metal sheet industry
- Package handling
- Distribution center
- Fish/fruit industry

### Structure

#### COVERS

Monster Belting is very flexible to have various covers with different colors according to customer's requiring as a non-standard covers or surface.

#### FDA BELTS

Monster FDA belts are proper for conveying foodstuffs with resistance to animals and vegetable oils and fats which can meet with FDA standards.

#### CARCASS

Various tension member constructions make up the foundation of the belt according to the use of the belt according to the use of different fabric. This belts are able to meet with various application, such as belt tracking, elongation, low noise and antistatic properties.

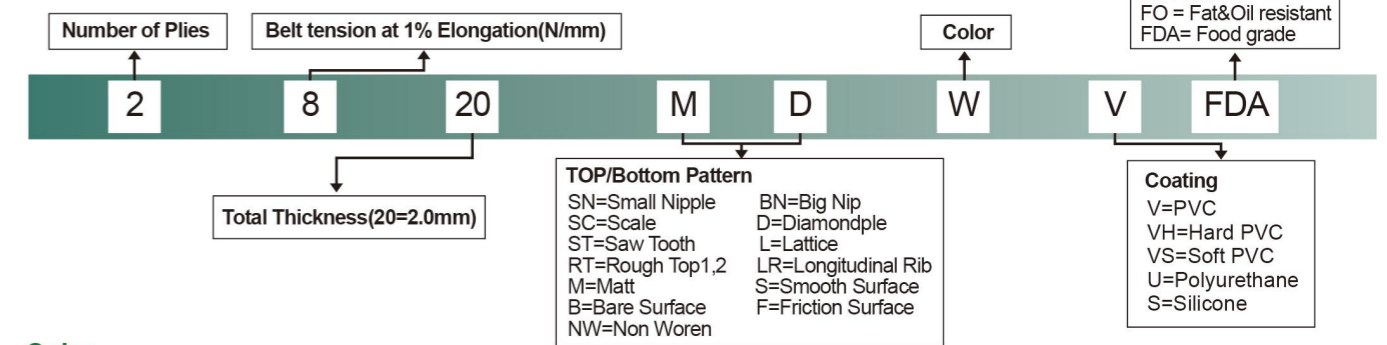
#### BOTTOM COVER

Smooth cover, fabric, impregnated fabric or embossed cover can be used. These can be used for sliding bed or rolling support.

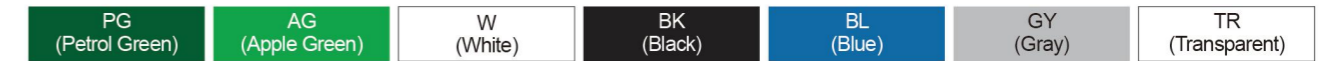


# PVC/PU DIMENSION PVC/PU CONVEYOR BELT

### Designation



### Color

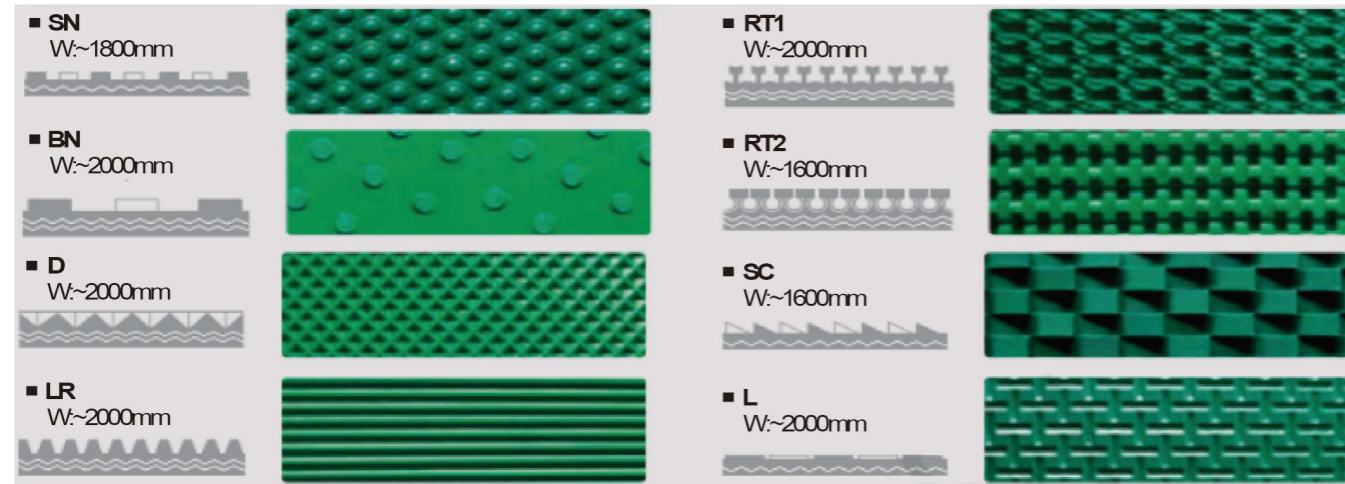


### PVC Dimension

Belt code	Top Cover(mm)				Bottom Cover(mm)			
	Material	Color	Thickness	Surface	Material	Color	Thickness	Surface
4/35 90 SN/F PG V	PVC	PG	2.0	Small nipple	PVC	LG	0.1	Impregnated
2/8 30 NW/B BK V A	PVC	BK	1.5	N-woven cotton		Natural	0	Fabric
2/8 30 S/B AG V A	PVC	AG	1.0	Smooth		Natural	0	Fabric
2/10 30 LR/B AG V	PVC	AG	1.5	Longitudinal lib		Natural	0	Silent Fabric
2/8 20 D/B AG V A	PVC	AG	0.5	Diamond		Natural	0	Fabric
3/13 40 S/B AG V A	PVC	AG	1.0	Smooth		Natural	0	Fabric
2/10 50 RT1/B AG V	PVC	AG	3.0	Rough Top1		Natural	0	Silent Fabric
2/8 20 S/B AG V A	PVC	AG	0.5	Smooth		Natural	0	Fabric
2/8 18 B/B W V A	PVC	W		Fabric		Natural	0	Fabric
2/10 60 RT2/B AG V	PVC	AG	4.0	Rough Top2		Natural	0	Silent Fabric
2/8 20 S/B W V	PVC	W	0.5	Smooth		Natural	0	Fabric
2/8 27 L/B PG V A	PVC	PG	1.5	Lattice		Natural	0	Fabric
2/8 30 B/B W V	PVC	W		Cotton		Natural	0	Cotton
2/8 20 M/B PG V	PVC	PG	0.5	Matt		Natural	0	Fabric
2/8 30 S/D WV	PVC	W	1.0	Smooth	PVC	W	1.0	Diamond
3/13 50 S/D AG V A	PVC	AG	1.0	Smooth	PVC	AG	1.0	Diamond
2/8 30 S/D BK V	PVC	AG	1.0	Smooth	PVC	AG	1.0	Diamond
2/8 20 S/B BK V	PVC	BK	0.5	Smooth		Natural	0	Fabric
2/8 40 NW/B BK V A	PVC	BK	2.5	N-woven cotton		Natural	0	Fabric
2/8 60 BN/B AG V	PVC	AG	4.0	Big nipple		Natural	0	Fabric
2/8 90 SC/B PG V	PVC	PG	7.0	Scale		Natural	0	Fabric
2/8 20 M/B BK V A	PVC	BK	0.5	Matt		Natural	0	Fabric
2/8 20 S/B W V FDA	PVC	W	0.5	Smooth		Natural	0	Fabric
2/8 30 S/B W V FDA	PVC	W	1.0	Smooth		Natural	0	Fabric
3/13 40 S/B WV FDA	PVC	W	1.0	Smooth		Natural	0	Fabric
2/8 30 S/D W V FDA	PVC	W	1.0	Smooth	PVC	W	1.0	Diamond

### PU Dimension

2/10 15MFWUAFDA	PU	W	0.5	Matt		Natural	0.1	Impregnated
2/10 14MFAGUAFDA	PU	AG	0.5	Matt		Natural	0.1	Impregnated



**Inclined conveying :** Belts with embossed top covers for inclined or declined conveyors. The conveying angle that can be used here depend on the type of goods, the top face coating and external influences such as dust, moisture etc. Monster Belting supplies belts with patterns for inclined conveying.

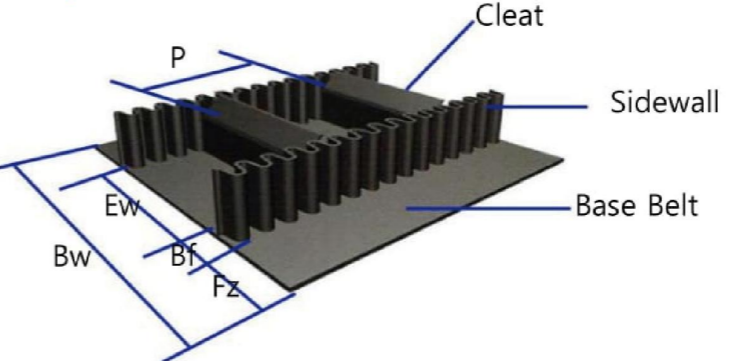
**Patterns for inclined conveying**

Monster Belting has developed and optimised a variety of surface textures for various applications. With Monster patterned belts, an angle of incline of up to 30 can be achieved without profiles.

Special Characteristics	Temp.(°C)		Fabrics		Total thickness mm	● F	● C	Load(N/mm)		Maxwidth mm	length m
	Min.	Max.	Plies	Weft				breaking load	1%		
	-10	80	4	Rigid	9.0	300	350	400	35	1800	50
Antistatic	-10	80	2	Rigid	3.0	60	80	120	8	1000	100
Antistatic	-10	80	2	Rigid	3.0	60	80	120	8	2000	100
Antistatic	-10	80	2	Rigid	2.0	40	60	120	8	2000	100
Antistatic	-10	80	3	Rigid	4.0	80	100	170	13	2000	100
Antistatic	-10	80	2	Rigid	5.0	60	80	130	10	2000	100
Antistatic	-10	80	2	Rigid	2.0	40	60	120	8	2000	100
Antistatic	-10	80	2	Rigid	1.8	40	60	120	8	2000	100
	-10	80	2	Rigid	6.0	60	80	130	10	2000	100
Antistatic	-10	80	2	Rigid	2.0	40	60	120	8	2000	100
	-10	80	3	Rigid	3.0	60	80	170	13	1800	100
	-10	80	2	Rigid	2.0	40	60	120	8	2000	100
	-10	80	2	Rigid	3.0	80	80	120	8	2000	100
Antistatic	-10	80	3	Rigid	5.0	100	100	170	13	2000	100
Antistatic	-10	80	2	Rigid	3.0	80	80	120	8	2000	100
	-10	80	2	Rigid	2.0	40	60	120	8	2000	100
Antistatic	-10	80	2	Rigid	4.0	80	80	120	8	1000	100
	-10	80	2	Rigid	6.0	60	80	120	8	2000	50
	-10	80	2	Rigid	9.0	80	100	120	8	1600	50
Antistatic	-10	80	2	Rigid	2.0	40	60	120	8	2000	100
FDA	-10	80	2	Rigid	2.0	40	60	120	8	2000	100
FDA	-10	80	2	Rigid	3.0	60	80	120	8	2000	100
FDA	-10	80	3	Rigid	4.0	80	100	170	13	2000	100
FDA	-10	80	2	Rigid	3.0	80	80	120	8	2000	100
Antistatic/FDA	-15	90	2	Rigid	1.5	30	40	140	10	2000	100
Antistatic/FDA	-15	90	2	Rigid	1.4	30	40	140	10	2000	100

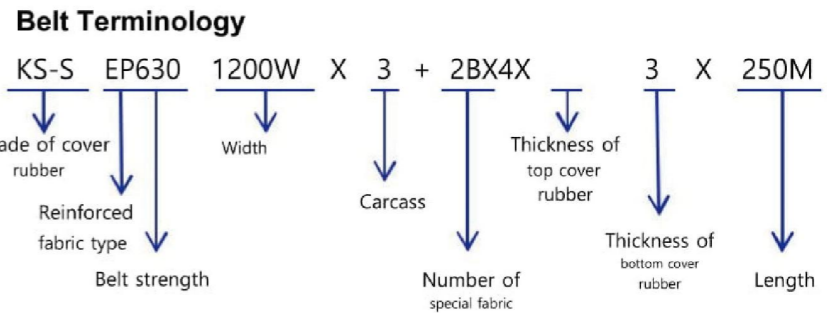
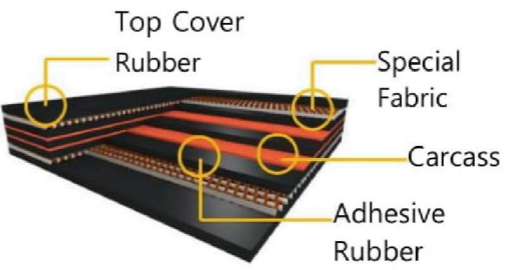
# CORRUGATED SIDEWALL CONVEYOR BELT

**Shape and Name**



Base Belt	Main Belt
BW	Belt Width
FW	Efficient Width
FZ	Free Zone
P	Cleat Pitch
BF	Sidewall Bottom Width

**Structure of Base Belt**

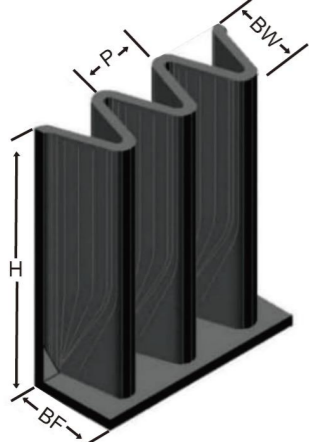


**Base Belt Type**

Product Code	Cross-section Structure	Total Tensile Strength (KN/m)	Thickness of cver rubber (mm)	Thickness of belt (mm)	Weight (kg/m <sup>2</sup> )	Minimum Pulley Dia (mm)
XE		315/2	3x2	7.8	9.4	315
XOE		315/2	4X2	10.5	12.6	315
		500/3	4X2	11.8	14.2	450
XDE		315/2	4X2	12.2	14.4	315
		500/3	4X2	13.5	16.0	450
		630/4	4X2	14.8	18.0	550
		800/5	4X2	16.1	19.3	700
		1000/6	4X2	17.4	20.9	800
		1250/6	4X3	19.0	22.8	1000
		1500/6	4X3	21.5	25.8	1400
XST		1500-4500	Please contact us when steel cord is used as carcass or reinforced fabric. (Maximum width is 2200mm)			

Base Belt Type is the standard specification of the company and subject to change according to the layout and shape of line.

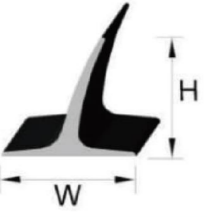
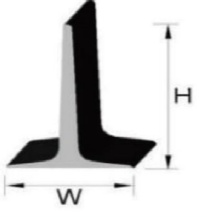
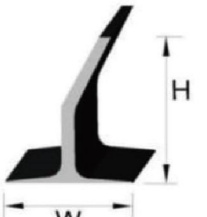
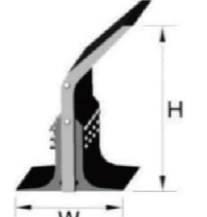
**Sidewall Specifications**



Type	H	BF	BW	BF
S	40	30	35	45(40)
	80	50	40	45(40)
	100	50	40	45
	120	50	40	60
	120	80	70	63
	160	75	65	63
	180	75	65	63
	200	75	65	63
	240	75	65	63
	280	75	65	63
ES	400	100	90	83
	500	100	90	83

The above is the standard specifications and 40H-80H is only rubber product without inseting reinforced fabric.

**Cleat Specifications**

C Type	H	W	T Type	H	W
	70	80		14.4	315
	110	110		16.0	450
	120	140		18.0	550
	140	140		19.3	700
	150	150		20.9	800
	180	180		22.8	1000
TC Type	H	W	TCS Type	H	W
	70	80		14.4	315
	110	110		16.0	450
	120	140		18.0	550
	140	140		19.3	700
	150	150		20.9	800
	180	180		22.8	1000

**Type of Grade**

- General** is used to convey ordinary material which doesn't require any particular features.
- Abrasive Resistance** is used to convey material that has heavy attachment to it or that needs abrasion resistant feature. It has an advantage in terms of cost and maintenance.
- Heat Resistance** is used when the temperature of conveyed material is higher then 60C.
- Non Flammable** is used at mills, fertilizer plants, power plants, and coal mines, to minimize the damages by fire.
- Oil Resistance** is used to convey oily material to prevent deformation of belts caused by oil.
- Chemical** is used to convey material with chemicals such as medicine, pulp, and pottery.

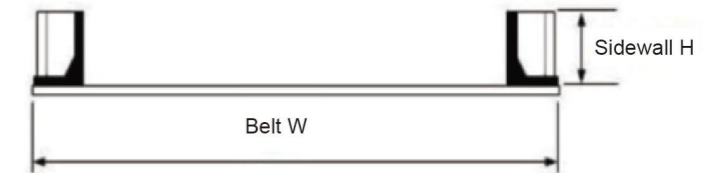
**FEEDER & COAL FEEDER BELT**

**Feeder Belt**

Feeder Belt has Sidewall attached on the both edge of conveyor belt. It prevents the overflow of conveying material, so it maintains clean operating conditions. It is highly effective to convey material with much moisture.



**Specifications of Feeder Belt**



NO	Belt Width	Sidewall Height
1	400-800	40-80
2	900-1200	80-120
3	1300-1600	80-200
4	1700-2000	120-200



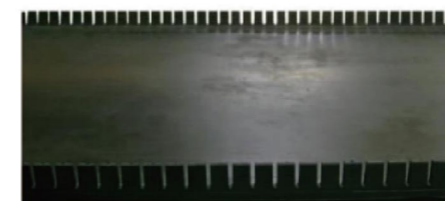
Example of Falling Materials

**Main Contractors**

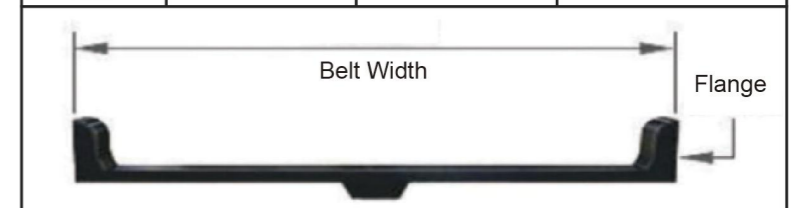
- Steel maket
- Cement Manufacturer
- Power Plant
- Chemical Company

**Coal Feeder Belt**

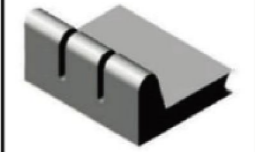
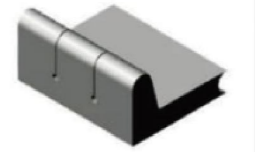
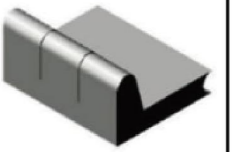
Coal Feeder Belt is used at cement manufacturers, steel makers and power plants. It transports materials such as coal and limestone by quantity. One-piece flange on the both edge prevents the overflow of material and Center V-Guide in the bottom keeps stable operation of belts.



Belt Width	Flange Height	Center V-Guide	
		Width	Height
838	36	32	10
914			
1067			



Flange Types

		
A	B	C

**Main Contractors**

- Steel maket
- Cement Manufacturer
- Power Plant

# FILTER BELT

## Filter Belt

Filter Belt is supplied to mechanism industry where needs continuous massive filtering. It is used to separate slurry from liquid material.



### Features of Filter Belt

- Correct measure when planning and installment
- High effective to separate solid from liquid
- High quality cover rubber is applied ( Resistant to chemical, abrasion, heat )

### Main Contractor

Power Plant / Chemical Company / Paper Maker

### Specifications of Filter Belt

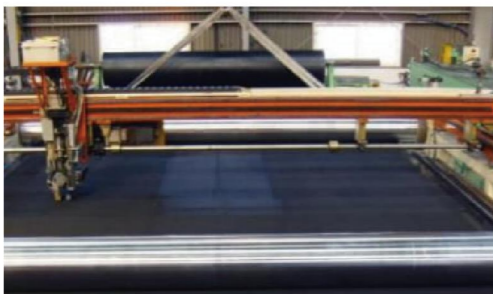
Belt Width	Grooving				Height of Curbing
	Width	Depth	Pitch	Length	
800	13	11	20	600	100
1200	13	11	20	1000	100
1600	13	11	20	1400	130
2400	13	11	25	2200	130
3200	19	18	26	3000	130
4200	19	18	26	4000	130



### Specifications of Curbing

Unit: mm

Height	Type		
	A	B	C
65	○		
100		○	
125			○
130		○	
Shape			



## Contact Us

## MONSTER BELTING INDUSTRY CO.,LTD

we are able to supply a wide range of other items and services relating to skirting rubber, ceramic pulley lagging, horse mat liners for stables, walkways and around paddocks, and belt fasteners, etc.

**Add:**  
NO.126 Qingdao Economic&Technology development area,Qingdao,Shandong,China

**Post Code:**  
266300

**Phone:**  
0086-18724717692

**Tel:**  
0086-0532-55780186

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0086-0532-55780186

**E-mail:**  
sales@monsterbelting.com /  
wendysan@monsterbelting.com

**Website:**  
<https://www.monsterbelting.com/new>