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CONVEYOR BELT LINE UP

FABRIC RUBBER CONVEYOR BELT

STEEL CORD RUBBER CONVEYOR BELT

PVC/PU CONVEYOR BELT

MONSTER BELTING INDUSTRY CO.,LTD

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FABRIC RUBBER CONVEYOR BELT

MONSTER BELTING conveyor belts are quality products with an extremely high degree of reliability.
MONSTER BELTING is the qualified manufacturer of different types of conveyor belts meeting all the requirements in most industrial activities.

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CONVEYOR BELT CONSTRUCTION

Top Cover

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

Skim Coat

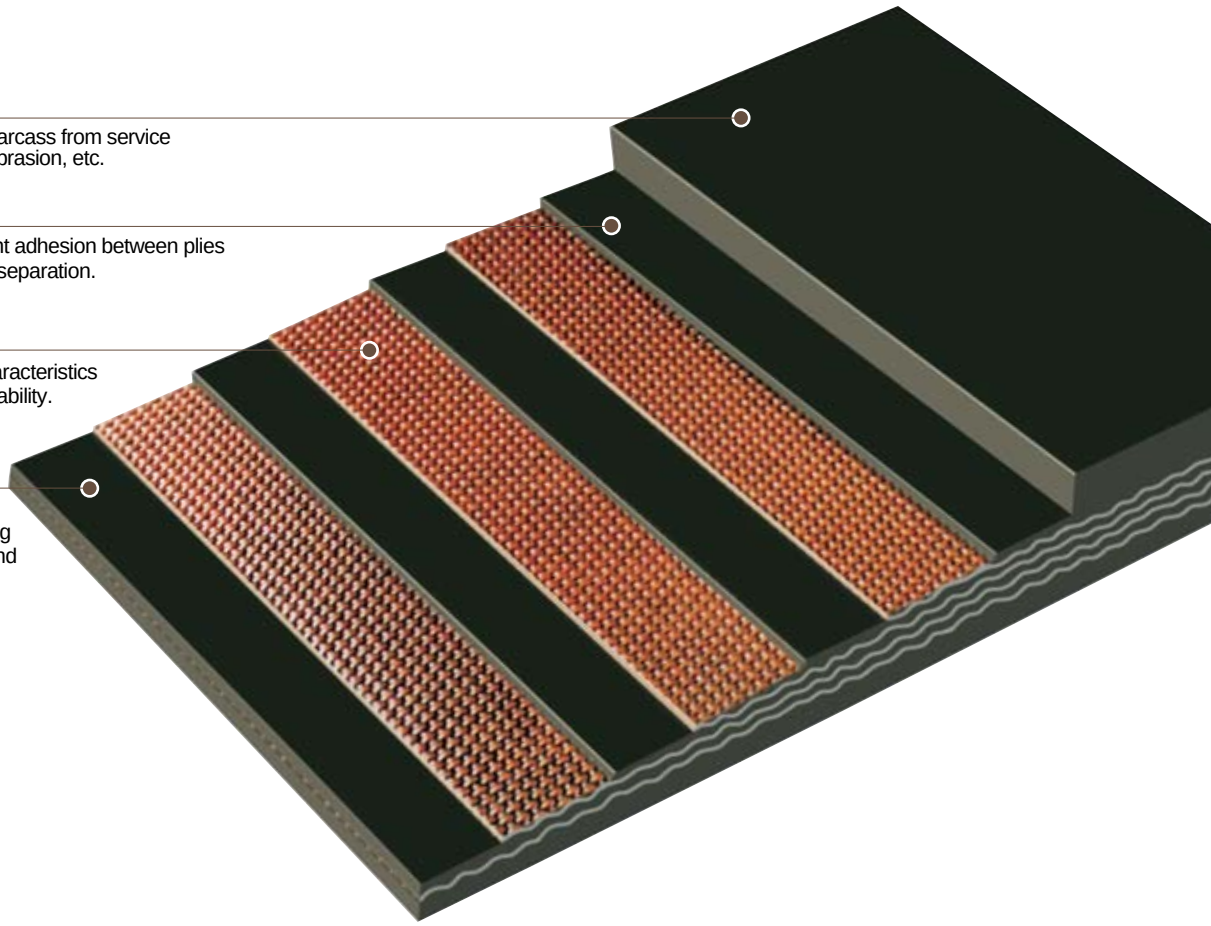
Compounded for excellent adhesion between plies for protecting against ply separation.

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 Stone, Coke, etc.	Ores, Slag, Cullet, etc.
Lump Size / Belt Cycle (Second)	inch	0 ~ 2″ (0~50mm)	2″~ 6″(50~150mm)	6″~ 10″(150~250mm)	8″~ 12″(200~300mm)
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 ~ 1/32 (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^3)
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

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(NN) Conveyor Belt

- **Special Features**

- Exceptionally shock & impact resistance to the carrying surface.
- Superior in fastener holding ability.
- Excellent troughability and flexibility
- Smaller pulley available.
- 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 per Ply 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	0.106

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.
- Low elongation.
- 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	125	150	200	250	300	350	400	500
	lb/in-ply	560	700	850	1,120	1,400	1,680	2,000	2,240	2,800
Working Tension Rating (Vulcanized)	kg/cm-ply	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0	50.0
	lb/in-ply	56.0	70.0	84.0	112.0	140.0	168.0	200.0	224.0	280.0
Approx. Gauge per Ply with skim coat.	mm	0.9	1.2	1.4	1.5	1.9	2.0	2.1	2.4	3.2
	inch	0.035	0.047	0.055	0.059	0.075	0.079	0.083	0.094	0.126

- **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	
5ply						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

Monster Flame resistant conveyor belt is designed for the best service conditions of coal mining industries. It is suitable for mining, power plant, electric utilities, coal cleaning plants. The different rubber compounds are 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 1MΩ.

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	Cover Rubber			
	Application Grade	Min. Tensile Strength		Min. Elongation (%)
		kg/cm²	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

HEAT RESISTANT 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.

• Special Features

- Excellent heat resistant and abrasion resistant cover rubber compound.
- Recommended to protect belt from surface cracking and hardening by heat.
- Specially heat-treated and dipped fabric to minimize carcass shrinkage by heat aging.

• Heat Resistant

Temperature	Type	Compound of Cover Rubber	Temperature Range of Use		Application
			Peak Material Temp. for Short Period(℉)	Average Material Temp.(℉)	
Low Temperature	HT-400 (HR-100)	SBR	Lump 300~400℉ Fines 150~300℉	Lump 200~300℉ Fines 100~200℉	For low temperature with abrasive material. (coke, sintered products, etc.)
Medium Temperature	HT-550 (HR-130)	BUTYL	Lump 500~550℉ Fines 300~400℉	Lump 350~450℉ Fines 200~300℉	For medium temperature application (castings, sintered ore, coke, limestone)
High Temperature	HT-710/750 (HR-150)	EPM	Lump 650~700℉ Fines 450~500℉	Lump 550~650℉ Fines 300~400℉	For higher temperature use, (dried clay, cement clinker, etc.)
Super Temperature	HT-850 (HR-180)	EPM	Lump 800~850℉ Fines 600~650℉	Lump 700~750℉ Fines 500~550℉	For super high temperature application. (sintered ore, 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˚C(140˚F).

• Kinds of Materials and Belt Surface Temperatures

Materials Carried	Lump Size	Temperature of Materials Carried	Belt Surface Temperature
Sintered Ore	25~200 mm(1~8 inch)	200~400℃(390~750℉)	130~150℃(270~300℉)
Return of Sintered Ore	10 mm(0.4 inch) downward	260℃(480℉)	150~190℃(300~370℉)
Coke	100~200 mm(4~8 inch)	70~100℃(160~210℉)	50~60℃(120~140℉)
Raw Material	30 mm(1.2 inch) downward	180~220℃(360~410℉)	100~120℃(210~250℉)
Clinker	10~30 mm(0.4~1.2 inch)	100~220℃(210~410℉)	100~110℃(210~230℉)
Cement	Powder	100~125℃(210~250℉)	80~90℃(170~190℉)
Metal Powder	-	170℃(340℉)	120~130℃(250~270℉)
Molding Sand	-	200~250℃(390~480℉)	80~90℃(170~190℉)

● 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℃(300℉) (such as coke or sintered ore) and have a relatively small contact area, Our conveyor belting's surface temperature could remain at 60~80℃(140~180℉). 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	200℃ downward	50~100℃	HT-400
	200℃ upward	100℃ downward(Lump Condition)	HT-400
		100~130℃	HT-550(Lump Condition)
			HT-710
		130~180℃	HT-710, HT-850
Return of Sintered Ore	150℃ downward	50~80℃	HT-400
	150℃ upward	80℃ downward(Lump Condition)	HT-400
		80~130℃	HT-550
		130~180℃	HT-710, HT-850
Spherical Ore	120℃ upward	80℃ downward	HT-400
	120℃ downward	80℃ upward	HT-550
Pellet	150℃ downward	100℃ downward	HT-400 (Lump Condition)
	200℃ downward		
Coke	60~400℃	100℃ downward	HT-400
Cement	120℃ downward	50~80℃	HT-400 (Lump Condition)
	120℃ upward	80~130℃	HT-550
			HT-710
		130~180℃	HT-710, HT-850
Dried Lime Dried Clay	120~150℃	100℃ upward	HT-400 (Lump Condition)
			HT-550 (Lump Condition)
	200℃ downward	50~100℃	HT-400
	500℃ upward	100~130℃	HT-550
		130~180℃	HT-710, HT-850
Cement Steel Mill Chemical Fertilizers	80℃ downward	50~70℃	HT-400
	80℃ upward	70~120℃	HT-550
		120~180℃	HT-710, HT-850
Molding	120℃ downward	50~100℃	HT-400
	120℃ upward	100~120℃	HT-550
			HT-710
		120~180℃	HT-710, HT-850

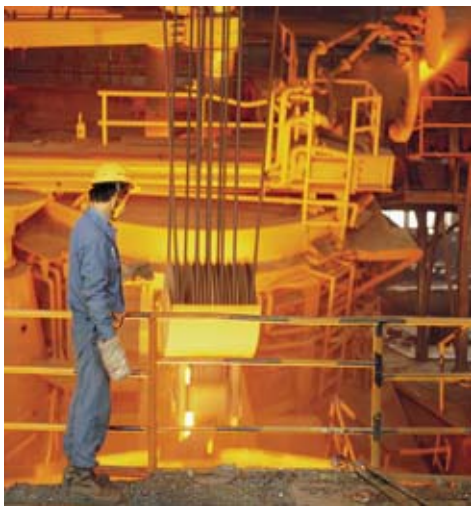
● Restrictions on the use of heat-resistant belt

SBR Heat-resistant belt

Do not use SBR heat resistant belt when :
- Powdered material is over 70℃(160℉)
- 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℃(350℉)
- 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

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℃ (50℉)

OR-300
Grade has excellent resistance to the toughest oil application such as oil-treated coal, petroleum based oils.

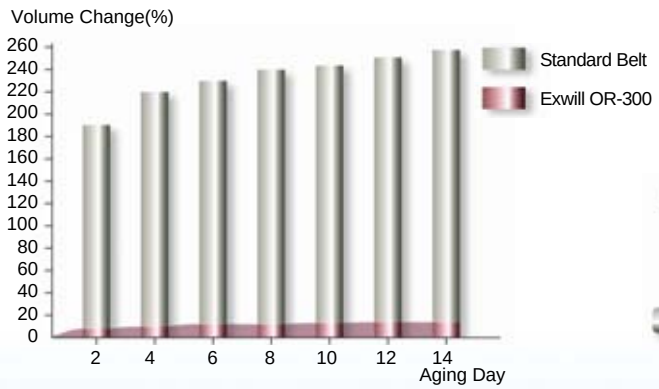
HTN/HOT
Grade is recommended for conveying hot asphalt with material temperature up to max. 175℃(350℉, in normal condition) where both oil & heat resistance are required.

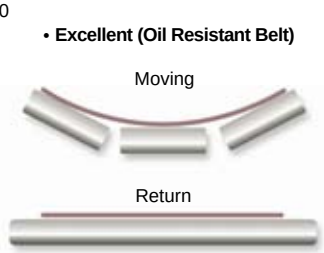
● Cover Rubber Grade

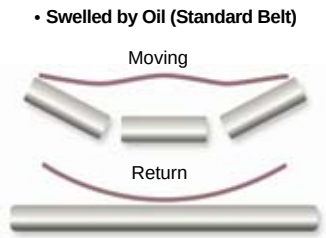
Type	Min. Tensile Strength		Min. Elongation (%)	Volume Change(%) ASTM #3 Oil	Use
	kg/cm²	psi			
OR-100	100	1400	Min. 350	Max. 150	Wood chip, linseed, cottonseed, kernel corn, and whole soybeans, static conductivity, and moderate oil resistance.
OR-200	120	1700	Min. 350	Max. 90	Oil-treated materials and 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 hydrocarbons 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 : 70℃×96Hrs

● Volume Change Ratio





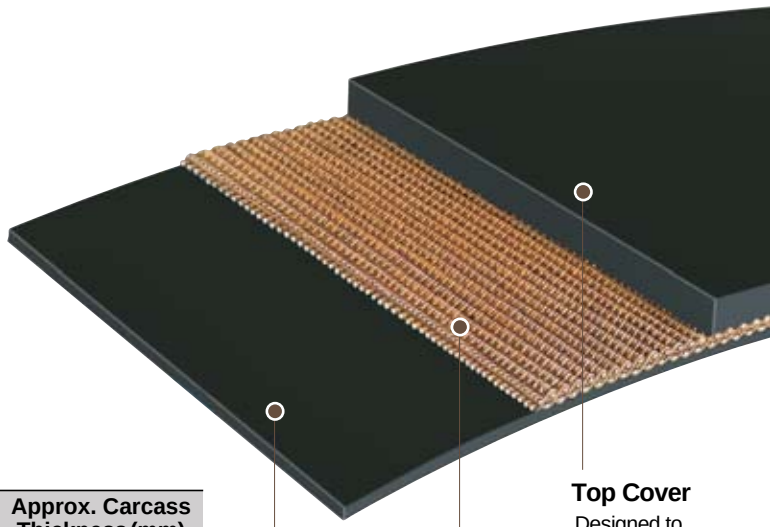


SINGLE-PLY CONVEYOR BELT

Monster Single-Ply conveyor belt is developed in order to withstand the toughest use conveying large quantity of material.
Reduced ply type of Single-Ply belts have excellent resistance to flexural fatigue, shocks and impacts with outstanding troughability.

• Special Features

- Single-Ply construction increases the resistance to fatigue and impacts.
- Troughability is much better than normal fabric.
- Low stretch requires less take-up travel.
- The single or two ply construction makes easy splicing.
- Single-Ply with binder warp system is dimensionally stable.
- The elongation is approximately 0% at 10% load. So, this belt can be used for long distance conveyor line.
- Available with various cover grades and gauges.



Top Cover
Designed to meet particular services.

Carcass
Straight warp fabric for high tensile strength

Bottom Cover
Provides wearing surface against pulleys and idlers.

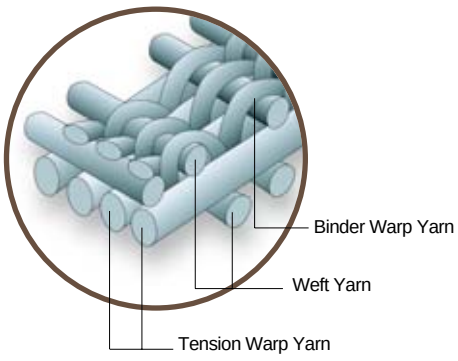
• Single-Ply Fabric Grade

Grade	Tensile Strength (kg/cm-ply)	Working Tension Rating (kg/cm-ply)	10% Stretch (%)	Approx. Carcass Thickness (mm)
SP 400	Min. 400	40	Max. 1.0	2.0 ~ 2.3
SP 500	Min. 500	50	Max. 1.0	2.3 ~ 2.4
SP 630	Min. 630	63	Max. 1.0	2.5 ~ 2.8
SP 800	Min. 800	80	Max. 1.0	2.9 ~ 3.0
SP 1000	Min. 1000	100	Max. 1.0	3.5 ~ 3.8
SP 1250	Min. 1250	125	Max. 1.0	4.0 ~ 4.1
SP 1400	Min. 1400	140	Max. 1.0	4.1 ~ 4.2
SP 1600	Min. 1600	160	Max. 1.0	5.0 ~ 5.1
SP 1800	Min. 1800	180	Max. 1.0	5.3 ~ 5.4
SP 2000	Min. 2000	200	Max. 1.0	5.7

• Technical Data

Grade			SP-400	SP-500	SP-630	SP-800	SP-1000	SP-1250	SP-1400
No. of Plies			1	1	1	1	1	1	1
Allowable Working Tension	Vulcanized	kg/cm	40	50	63	80	100	125	140
		lb/inch	225	280	350	445	560	700	780
	Fastened	kg/cm	36	45	56	72	90	112	126
		lb/inch	200	250	310	400	500	620	700
Min. Width for Troughing Empty 35˚ Idlers.			20″	20″	24″	24″	30″	30″	36″
Min. Pulley Diameter	Head & Drive		14″	16″	16″	18″	20″	22″	24″
	Tail & Take-up		12″	13″	13″	14″	16″	18″	20″
	Bend & Snubs		10″	12″	12″	14″	14″	16″	18″

Structure of Fabric



QUARRY SUPREME CONVEYOR BELT

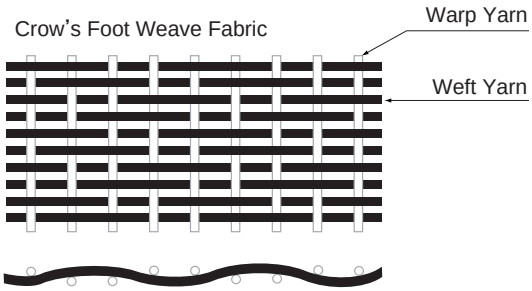
Developed to solve today's General conveyor belt problem with transporting quarry. No more problem with Monster conveyor belt, especially the primary conveyor line.

Crow's Foot Weave Fabric

The specially designed Crow's Foot Weave fabric used "Quarry Supreme" belt has extremely highest tear strength up to 5 times compared with a plain woven standard fabric. Fastener holding ability is very excellent up to more than 90 percent efficiency.

● CFW Fabric Grade & Cover Rubber

Specification		CFW250x2P	CFW250x3P	CFW315x2P	CFW315x3P	CFW315x4P	CFW350x3P	CFW350x4P
No. of Plies		2	3	2	3	4	3	4
Working Tension Rating	(kg/cm)	50	75	63	95	126	105	140
	(lb/inch)	280	420	350	530	700	580	780
Thickness		3/16″~ 1/4″	1/4″~ 5/16″	1/4″~ 5/16″	1/4″~ 5/16″	5/16″~ 3/8″	5/16″~ 3/8″	5/6″~ 1/2″



Extra Cut Resistance Cover Rubber

This cover rubber grade is made especially for operation requiring extreme resistance to cutting & gouging for sharp, jagged and abrasive materials.

PIPE CONVEYOR BELT

Monster pipe conveyor belt is designed to be suitable for the resistance to flex fatigue and abrasion by materials to be carried with superior ply adhesion.

● Special Features

- Closed transportation in order to prevent materials from overflowing, drop-down, scattering and mixing with foreign materials from outside.
- This Monster pipe conveyor belt is economical for curve (45°~90°) and incline(up to 30°) transportation due to easy design of conveyor line and limited space.

● Special Features of Each Grade

Pipe Diameter (mm, ϕ)	Cross Section Area (75%)	Belt Speed (m/min)	Capacity (m^3/hr)	Material Size (mm)	Comparison with Standard C/Belt(mm)
150	0.013	120	95	30 ~ 50	300 ~ 500
200	0.023	130	180	50 ~ 70	500 ~ 600
250	0.041	140	344	70 ~ 90	600 ~ 750
300	0.049	145	441	90 ~ 100	750 ~ 900
350	0.066	175	693	100 ~ 120	900 ~ 1,050
400	0.108	200	1,296	120 ~ 150	1,050 ~ 1,200
500	0.155	225	2,093	150 ~ 200	1,200 ~ 1,500
600	0.216	250	3,240	200 ~ 250	1,500 ~ 1,800
700	0.290	275	4,620	250 ~ 300	1,800 ~ 2,000
850	0.404	300	7,272	300 ~ 400	2,000 ~ 2,200

ROUGH TOP 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.

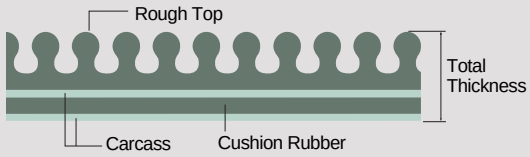
• Special Features

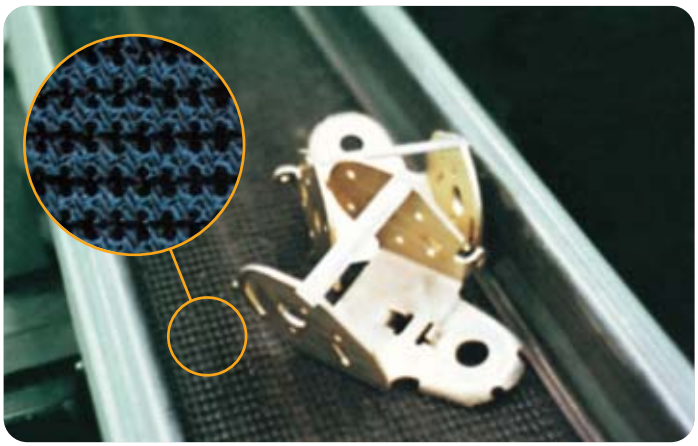
- Cushioning effect absorbs vibration and reduces slippage.
- Usable at the angle of 25~35 degrees, depending on goods to be carried.
- Low friction coefficient with bare back bottom.
- Two or three plies of synthetic fabrics provide high strength and flexibility.
- Various colored cover rubbers are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

• Type of Rough Top Belt

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

Structure of Rough Top

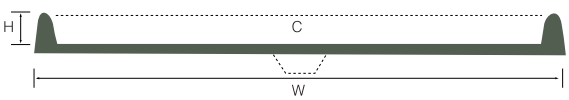




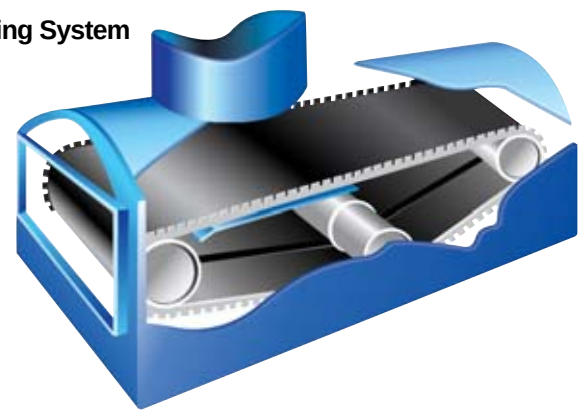
COAL FEEDER CONVEYOR BELT

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

• Cross-Section View



• Feeding System



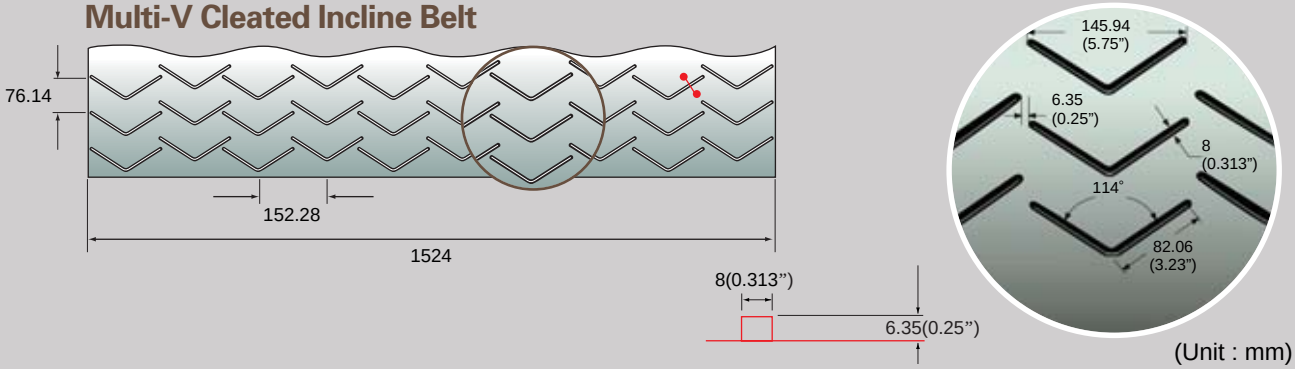
INCLINE(CHEVRON CLEATED) CONVEYOR BELT

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

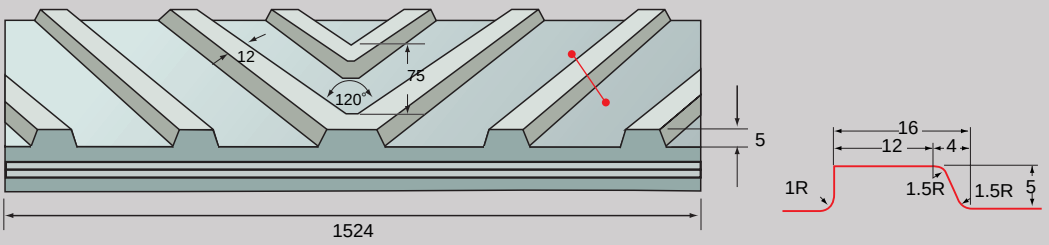
- High quality fabric with low stretch.
- Cleat angle and pitch are designed for smooth travel over return idlers.
- Higher angle of 17~30 degree of incline.
- Wear resistant and oil resistant black rubber quality is available.

Multi-V Cleated Incline Belt



(Unit : mm)

V Cleated Incline Belt



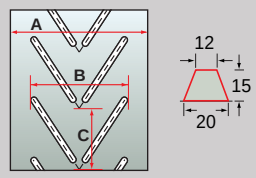
(Unit : mm)

Steep Incline Belt

C15 Type

(Unit : mm)

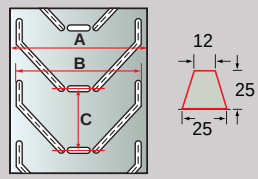
A Belt width	B Pattern width	C Pitch
500	385	250
600	385	250
650	385	250
750	600	370
900	600	370
1,000	600	370

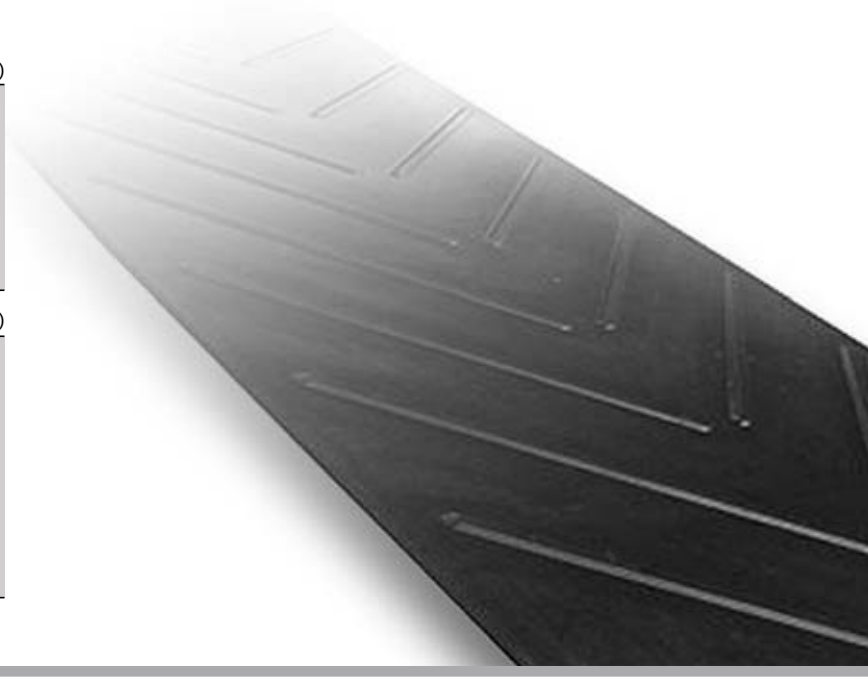


C25 Type

(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
1,000	750	330
1,050	750	330
1,200	750	330





SIDEWALL CONVEYOR BELT

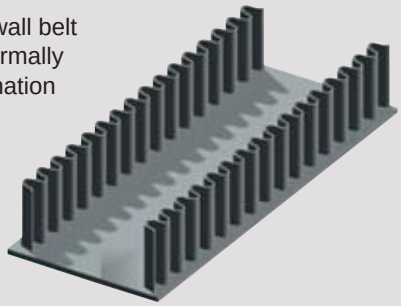
This Monster belt is designed with two corrugated sidewalls molded to cross-rigid basebelt. It is developed in order to meet larger capacities with more steep inclined line.

• 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.

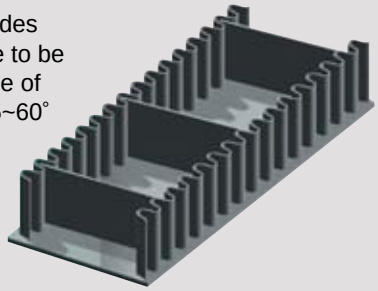
Type Ⅰ

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



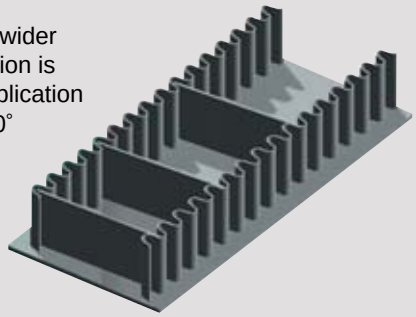
Type Ⅱ

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

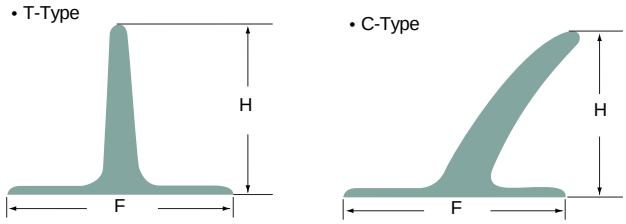


Type Ⅲ

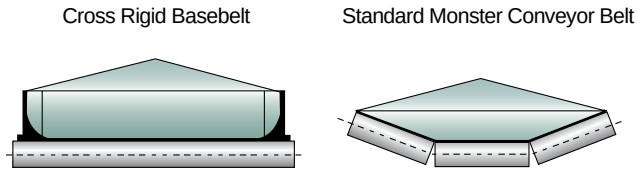
The cross-fin with wider basebelt construction is suitable for the application up to more than 60˚



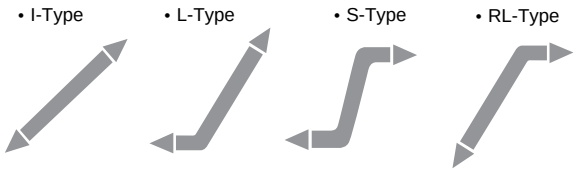
Fin Type



Comparison of Cross Section Area



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.

SPECIAL MONSTER CONVEYOR BELTS

Various kinds of fabric carcass
and wide ranges of rubber material make it possible to
select the best Monster conveyor belt for the intended application.

Heat & Flame Resistant Conveyor Belt

Heat & Flame resistant conveyor is developed to meet our customer's various demands.

Heat & Abrasion Resistant Conveyor Belt

To extend heat resistant conveyor's life period, we developed Heat & Abrasion Resistant compound.

Flame & Abrasion Resistant Conveyor Belt

Flame & abrasion resistant conveyor belt enables us to approach wide range of conveyor market.

Cold Resistant [Eskimo] Conveyor Belt

Brand Monster belting - Cold resistant conveyor belt has not only strong life period, but also efficient operating even in the low temperature environment. The lowest temperature can be -50˚C (-58˚F).

Cakeless Conveyor Belt

Cakeless conveyor belt is specially designed for the efficient materials conveying and green environment.
The special coating surface of the belt enables the conveyor belt to eliminate easily unnecessary materials after its operating.

Esteemed Customers:
If you could fill in each item listed in the following table when you want to order Monster Conveyor Belt, you'll get better service in building and operating of the belt you wanted.

DATA - INQUIRY FORM

No. _____ Data. _____

Company					
Conveyor No.			Operation Site		
※ Belt width		mm(in.)	※ Belt Speed		m/min.(feet/min.)
※ Materials	Kind of the material transported		Apparent specific gravity		T/m³(lbs/in³)
	Size	mm ϕ (in. ϕ)~mm ϕ (in. ϕ)	Ratio of maximum lump size contained		%
	Temperature	Max. ℃ (℉)		Min.	℃ (℉)
※ Capacity of transportation		Max. t/h		Average	t/h
※ Surface temperature of the belt		Max. ℃ (℉)		Min.	℃ (℉)
※ Centers of conveyor		Horizontal m(feet)		Min.	m(feet)
※ Lift		m(feet)			
※ Angle of inclination		Max. Deg.	Average Deg.	Min.	Deg.
Drive	Type				
	Surface of the pulley	With rubber lagging	Without rubber lagging		
	Angle of wrap			Deg.	
Carrier Roller	Angle of trough				
	Spacing of carriers				
	Spacing of return idlers				
	Weight of moving parts other than material transported	Carrier Roller kg/m(lb/in.)		Carrier Roller kg/m(lb/in.)	
Take-up	Type				
	Effective length of the take-up				
	Weight of the take-up				
	Position of the take-up	Head Tail			
Diameter of pulley	Drive pulley	mm ϕ (in. ϕ)	※ Drawing of Conveyor Belt Line		
	Head pulley	mm ϕ (in. ϕ)			
	Tail pulley	mm ϕ (in. ϕ)			
	Take-up pulley	mm ϕ (in. ϕ)			
	Snub Pulley	mm ϕ (in. ϕ)			
Driving motor	Horse power	kw(hp)			
	Type				
	Revolution	rpm			
	Cycle				

※ Must be filled in ■ You can download this DATA - INQUIRY FORM from our web-site, www.monsterbelting.com

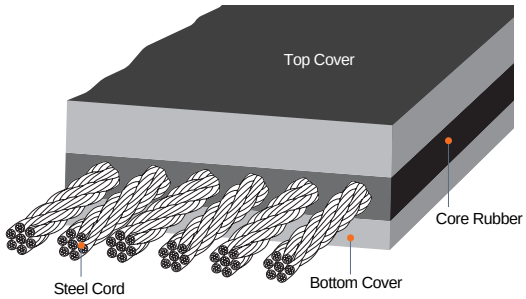
STEEL CORD RUBBER CONVEYOR BELT

Monster Steel Cord Rubber Conveyor Belt can be widely used in the coal industry, mines, ports, power plants and chemical industry for conveying materials.

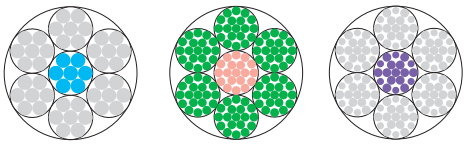
Structure of Conveyor Belt	19
Performance of Conveyor Belt	20
Specification of Conveyor Belt	21

STRUCTURE OF CONVEYOR BELT

General Construction Type



Sketch of General Construction Type

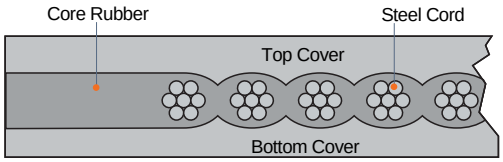


Structure

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 a left and right twisting wire, arranged evenly and longitudinally in the belt.

Feature

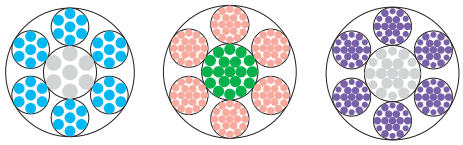
With large tensile strength, long service life, small elongation, excellent troughability and superior flexing resistance, the belt is suitable for conveying materials over long distances with large loads and at high speeds.



New Construction Type

Steel cord penetrated with core rubber

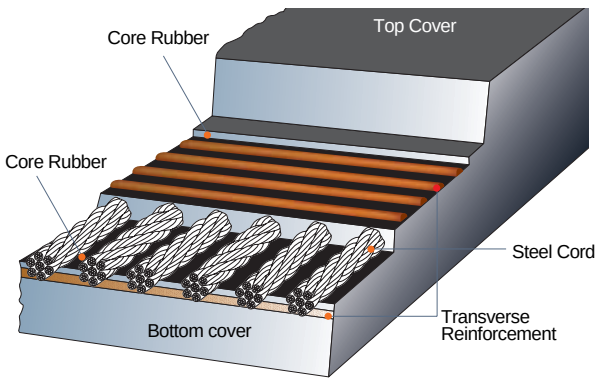
Sketch of New Construction Type



Feature

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.
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.

Transverse Reinforcement



Structure

On both side or one side, the transverse reinforcement (steel cord, steel wire cord, fiber cord or textile fabric) is laid out.

Feature

Good impact resistance and excellent property for reducing tear by external force increase belt life, rip resistance, cord protection.

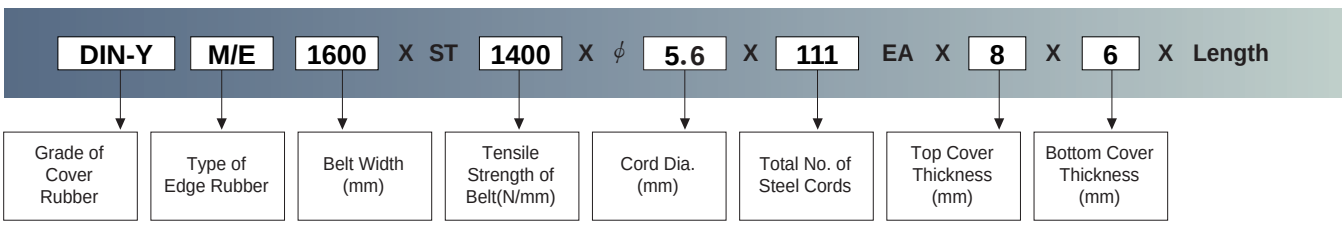
PERFORMANCE OF CONVEYOR BELT

Specifications

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)		2.8	3.0	3.5	4.0	4.5	4.5	5.0	5.0	6.0	6.3	7.2	7.6	8.1	8.6	9.2	10.1	10.6	11.5
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)		10.0	10.0	10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0	15.0	16.0	16.0	17.0
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	650	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
Belt Width(mm)		No. of steel cords																	
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	93
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



SPECIFICATION OF CONVEYOR BELT

• Special Features

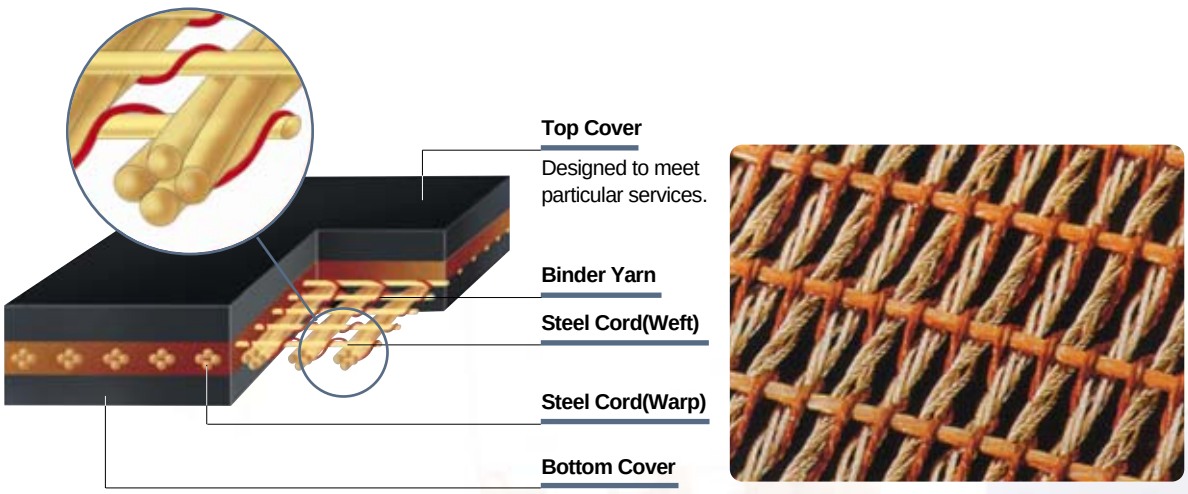
- The smaller elongation for steel mesh belt reduces the length of take-up.
- Excellent adhesion between steel mesh and cover rubber to resist flex fatigue and impact.
- Single carcass reinforcement has much better flexibility.
- Steel mesh belt offers superior resistance to the repeated impacts.
- Easy 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/m²	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-R 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/m²	3.45	4.35	5.20	6.40	6.90	7.90	9.10	9.80



PVC/PU Monster 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.

PVC/PU Lightrans Conveyor Belt	23
PVC/PU Dimension	24

PVC/PU Monster 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

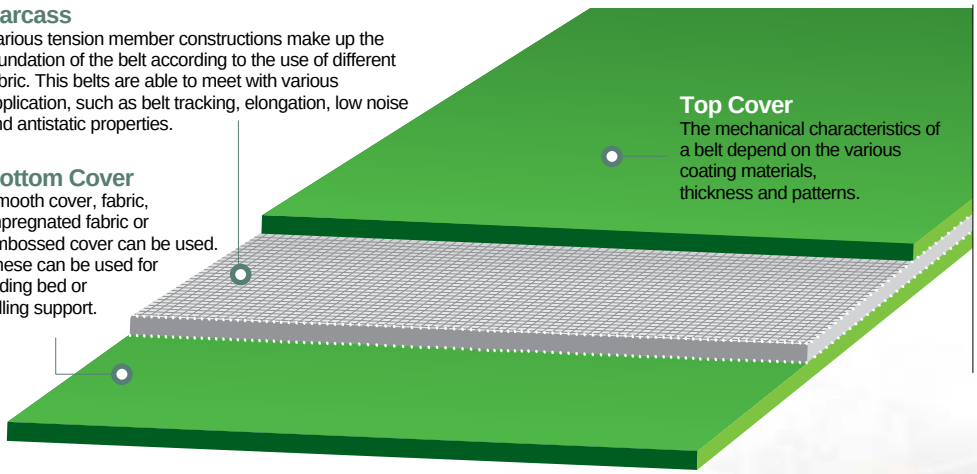
Light duty PVC/PU conveyor belts are available for the various application in all industries.

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

• Structure

Carcass
Various tension member constructions make up the foundation 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.

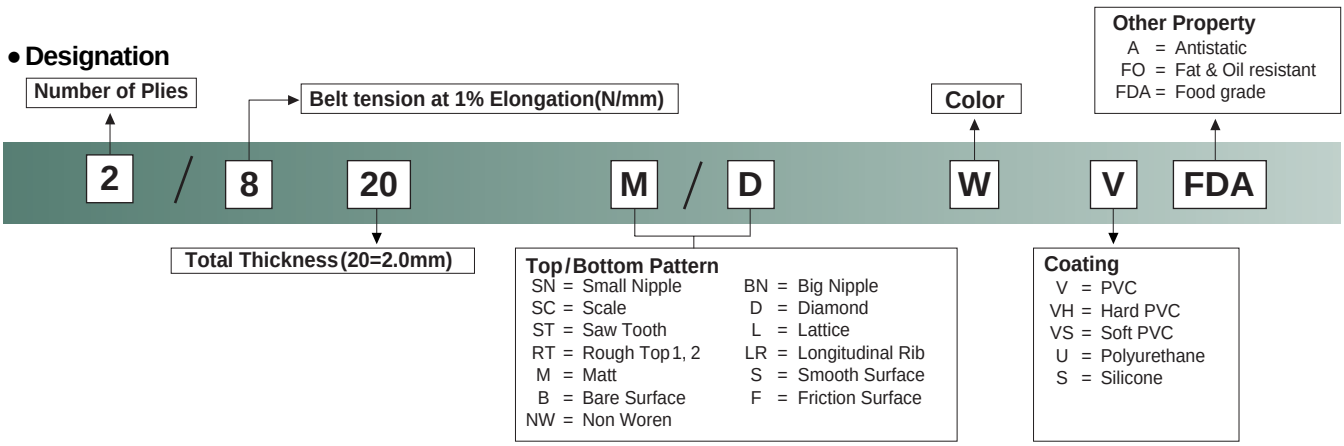


Covers
Monster Belting is very flexible to have various covers with different colors according to customer's requiring as a non-standard covers or surface.

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.

PVC/PU DIMENSION

• Designation



• Color

PG (Petrol Green) | AG (Apple Green) | W (White) | BK (Black) | BL (Blue) | GY (Gray) | TR (Transparent)

Color can be different from actual products' one.

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	Petrol Green	2.0	Small nipple	PVC	Light Green	0.1	Impregnated
2/8 30 NW/B BK V A	PVC	Black	1.5	Non-woven cotton		Natural	0	Fabric
2/8 30 S/B AG V A	PVC	Apple Green	1.0	Smooth		Natural	0	Fabric
2/10 30 LR/B AG V	PVC	Apple Green	1.5	Longitudinal Lib		Natural	0	Silent Fabric
2/8 20 D/B AG V A	PVC	Apple Green	0.5	Diamond		Natural	0	Fabric
3/13 40 S/B AG V A	PVC	Apple Green	1.0	Smooth		Natural	0	Fabric
2/10 50 RT1/B AG V	PVC	Apple Green	3.0	Rough Top1		Natural	0	Silent Fabric
2/8 20 S/B AG V A	PVC	Apple Green	0.5	Smooth		Natural	0	Fabric
2/8 18 B/B W V A	PVC	White	-	Fabric		Natural	0	Fabric
2/10 60 RT2/B AG V	PVC	Apple Green	4.0	Rough Top2		Natural	0	Silent Fabric
2/8 20 S/B W V	PVC	White	0.5	Smooth		Natural	0	Fabric
2/8 27 L/B PG V A	PVC	Petrol Green	1.5	Lattice		Natural	0	Fabric
2/8 30 B/B W V	PVC	White	-	Cotton		Natural	0	Cotton
2/8 20 M/B PG V	PVC	Petrol Green	0.5	Matt		Natural	0	Fabric
2/8 30 S/D W V	PVC	White	1.0	Smooth	PVC	White	1.0	Diamond
3/13 50 S/D AG V A	PVC	Apple Green	1.0	Smooth	PVC	Apple Green	1.0	Diamond
2/8 30 S/D AG V A	PVC	Apple Green	1.0	Smooth	PVC	Apple Green	1.0	Diamond
2/8 20 S/B BK V	PVC	Black	0.5	Smooth		Natural	0	Fabric
2/8 40 NW/B BK V A	PVC	Black	2.5	Non-woven cotton		Natural	0	Fabric
2/8 60 BN/B AG V	PVC	Apple Green	4.0	Big nipple		Natural	0	Fabric
2/8 90 SC/B PG V	PVC	Petrol Green	7.0	Scale		Natural	0	Fabric
2/8 20 M/B BK V A	PVC	Black	0.5	Matt		Natural	0	Fabric
2/8 20 S/B W V FDA	PVC	White	0.5	Smooth		Natural	0	Fabric
2/8 30 S/B W V FDA	PVC	White	1.0	Smooth		Natural	0	Fabric
3/13 40 S/B W V FDA	PVC	White	1.0	Smooth		Natural	0	Fabric
2/8 30 S/D W V FDA	PVC	White	1.0	Smooth	PVC	White	1.0	Diamond

PU Dimension

2/10 15 M/F W U A FDA	PU	White	0.5	Matt		Natural	0.1	Impregnated
2/10 14 M/F AG U A FDA	PU	Apple Green	0.5	Matt		Natural	0.1	Impregnated

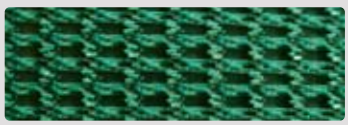
Inclined conveying : Belts with embossed top covers for inclined or declined conveyors. The conveying angles that can be used here depend on the type of goods, the top face coating and external influences such as dust, moisture etc. Monster Belting supplies belts with patterns for inclined conveying.

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.

■ **SN**
W : ~1,800mm

■ **RT1**
W : ~2,000mm



■ **BN**
W : ~2,000mm

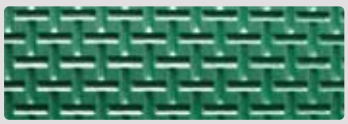
■ **RT2**
W : ~2,000mm

■ **D**
W : ~2,000mm

■ **SC**
W : ~1,600mm

■ **LR**
W : ~2,000mm

■ **L**
W : ~2,000mm



Special Characteristics	Temp.(℃)		Fabrics		Total Thickness	F C		Load (N/mm)		Max.Width	Length
	Min.	Max.	Plies	Weft	mm			Breaking Load	1%	mm	m
	-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
	-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
	-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
	-10	80	2	Rigid	2.0	40	60	120	8	2000	100
Antistatic	-10	80	2	Rigid	2.7	60	80	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

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We're Selling Trust!

CONVEYOR BELT LINE UP

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