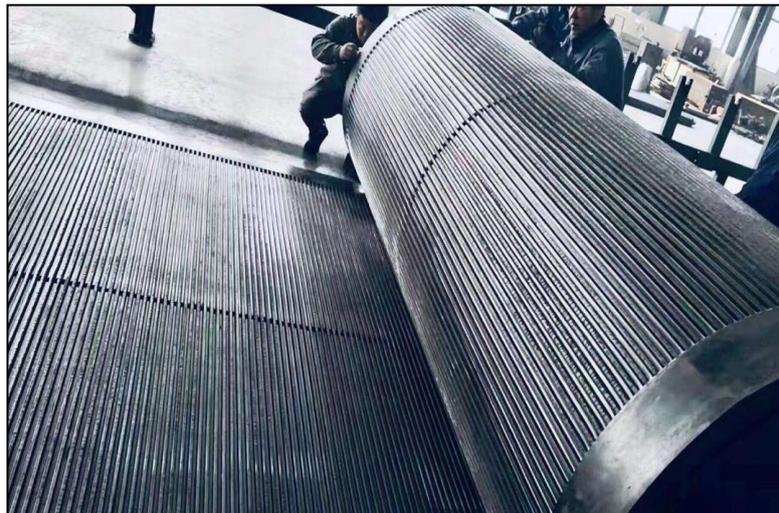
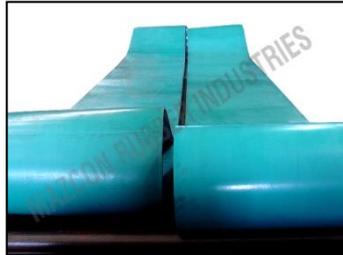




MAZCON RUBBER INDUSTRIES

Quality – Commitment – Satisfaction

Estd. - 1982



(ISO 9001 – 2015 Certified)

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Company Profile

In the year 1982 Mazcon Rubber Industries was founded by Shri Kanti Bhusan Majumder and with his expertise he paved the path for the company to become an established brand today.

Mazcon Rubber Industries is a professionally managed, family-owned Company and has been in business for more than 40 years. MAZCON has a valued and trusted customer/partner base in all parts of the country, which it serves with state-of-the-art technology and pre-emptive interaction at all levels, resulting in Customer Delight

MAZCON is in a unique position since we have a product line up comprising not only of the widest array of conveyor belts, V-Belts, special application conveyor belts, etc, providing a "one stop shop" for rubber related products

MAZCON is an ISO 9001-2015 Company and has an established Quality Management System for product quality and valued service at affordable costs.

MAZCON has scaled greater heights and created its own niche in the Indian market by supplying high quality products in various sectors such as OEM, Power & Cement, Aluminium, to name a few. Additionally, MAZCON has also been a strong supplier to Project Companies in India.

Over the years, MAZCON has developed products using high quality raw materials and these products have resulted in enduring benefits for the end users.

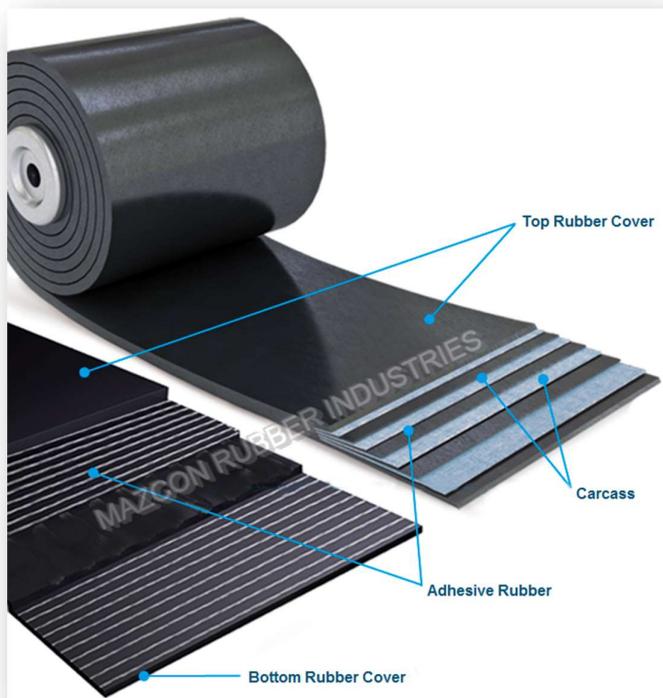
Due to its rich experience, MAZCON has established several landmarks in product development to provide enhanced productivity, longer belt life and to minimize downtime in specific applications.

We offer our customers with after sales service by our technical team; we have our fully equipped workshop in Kolkata run by technically sound work force that is ready to provide service to the customer whenever required.



Construction of Conveyor Belt:

MAZCON RUBBER INDUSTRIES have developed Conveyor Belts of the various constructions as under:



❖ CARCASS

The backbone and the strength member of the belt, the carcass comprises all the fabric plies bonded together using interply rubber. The fabric ensures troughability and low stretch.

❖ TOP RUBBER COVER

Compounded to ensure longevity of the carcass and protecting it from tough working conditions viz. oil, heat, abrasion, impact & tear that the conveyed material could cause.

❖ BOTTOM RUBBER COVER

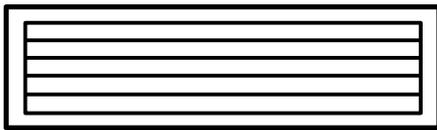
Acts as a protective layer between the carcass and the idlers, preventing any damage due to impact or accumulation of material on idlers. Also, ensures minimum friction required for smooth operation of a conveyor system.

❖ SKIM COATING

Promotes bonding between fabric plies and cover-ply resulting in high adhesion.

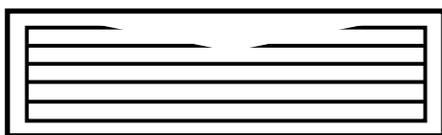
(1) STRAIGHT PLY CONSTRUCTION :

In this construction the carcass consists of full width fabric plies laid straight and the rubber cover thickness is of uniform thickness across the width of the belt as will be observed in the sketches below.



(2) STEPPED PLY CONSTRUCTION :

In this construction the top cover thickness is shown increased in the middle of the belt by reducing the carcass thickness by cutting two layers of carcass in step as shown in the sketch below right in the centre. The extra rubber filled in the centre of the belt where the wear is normally maximum when carrying deformed or heavy lump in a maximum troughed condition. At least three straight plies will be required to incorporate step ply construction and there can be one or two plies stepped on the carrying side.



(3) REVERSED STEPPED PLY, CONSTRUCTION :

This type of belting is performing a vital role for handling submerged ash ejected directly from Thermal Boilers. This belt operates under water in quenching trough. As this belt is dragged against the bottom surface of the quenching trough, wear on the pulley side is higher than on the carrying side. Hence the thickness of bottom is required to be maintained more than the top cover and cover compound should be of heat resistant grade and side locked. The belt is always used with vulcanised joint so that there will be no chance of carcass exposure.



❖ BREAKER :

Where service conditions are severe a breaker ply is placed between top cover and carcass on face or if necessary, both on face and back to increase the bonding. This also increases the cushioning effect and protects the carcass from impact damages. The Nylon breaker is very much preferable where greater tear and impact resistant is required.



MAZCON'S'S RANGE OF GENERAL PURPOSE CONVEYOR BELTS :

WIDTH: CONVEYOR Belts are manufactured from 150 mm to 1600 mm.

TYPES OF CARCASS WE USE :

COTTON / COTTON (CC)

Suitable for short distance, light load applications. Low elongation, high adhesion with rubber, and good fastener holding properties.

NYLON / NYLON (NN / PP)

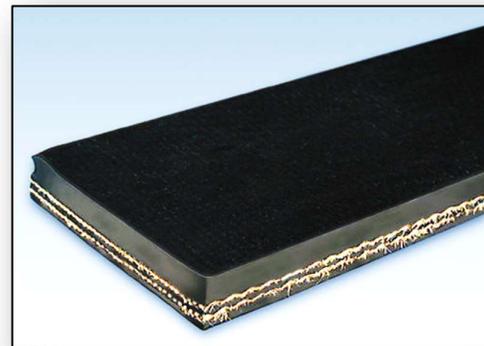
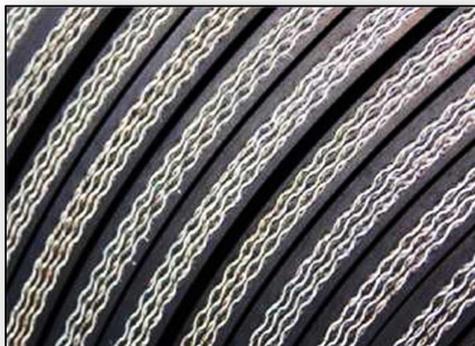
A widely used fabric in the rubber belting industry, its outstanding merits include high tensile strength, good troughability resistance to moisture and rotting. Suitable for conveying heavy material over long distances, this fabric is unaffected by alkalis and weak acids, and displays good impact resistance and excellent longevity.

COTTON / POLYESTER (CP)

Evolved from cotton conveyors, providing better physical and mechanical properties. Lighter in weight, good troughability, improved impact resistance and reduced overall energy consumption. Suitable for conveying medium-heavy material over short distances.

POLYESTER / NYLON (EP)

In addition to all the properties that NN belts exhibit, EP fabric has the additional advantage of even lower longitudinal elongation. This lower stretch makes the travel take-up shorter. Suitable for conveying heavy material when distances are longer.





COVER:

- a)** Cover Grade M-24/N-17 are manufactured for general purpose Belting as per IS:1891/1994 (Part I).
- b)** Oil and Heat Resistant Grade Cover is manufactured for belting come in contact with oily substance upto 120 deg. C as per IS:1891 (Part III). Main construction with Cotton & Nylon Carcass.
- c)** Belts with Heat Resistant Grade covers are manufactured as per IS:1891 (Part II) for conveying sharp and abrasive materials having operating temperature max. 100 deg. C and intermittent peak upto 120 degree C
- d)** Fire-Resistant grade Conveyor Belt which conforms to most arduous and stringent specification of IS:1891/1994 (Part-V).
The important feature of our fire-resistant grade belts are :
 - (1) Fire Resistant
 - (2) Excellent Abrasion Resistant
 - (3) Resistant to grease & oil and
 - (4) improved driveability in wet conditions.
- e)** SHR Grade -Belts with super heat resistant grade cover is manufactured to withstand Maximum continuous heat upto 150 degree C to intermittent peak upto 180 deg. C.
- f)** UHR Grade – EPDM base conveyor belts are manufactured to withstand intermittent peak of upto 250 degree and continuous heat of 180 deg C.
- g)** Hygienic Grade – This is extensively used in food industries to conveyor food items. These belts are non-toxic white in colour, made as per IS 1891-Part IV.



Selection Chart for Rubber Cover Grades

Types of Rubber Cover Grades	Standard	Cover Type	Cover Grade	Before Aging		Maximum Abrasion Loss (mm) ³
				Tensile Strength MPa	Elongation% (max)	
This grade is recommended for conveying, heavy, sharp highly abrasive materials like metallic ores, granite, lime stone, coal blast furnace slag & clinker etc.	IS 1891 (Part-I)	General Purpose	M-24	24.0	450	150
Recommended for conveying less severe and moderately abrasive material like sized coal, ash, chalk, bauxite etc.	IS 1891 (Part-I)	General Purpose	N-17	17.0	400	200
Composed of synthetic rubber mainly, this grade is suitable for arduous application as M-24 and has similar wear resistant properties.	IS 1891 (Part-I)	General Purpose	N-17 synthetic	17.0	400	150
This grade is recommended for conveying hot material & is suitable for fines upto 100°C and coarse material upto 125°C	IS 1891 (Part II)	Heat resistant	HR T ₁	12.5	350	200
This grade is recommended for conveying hot material & is suitable for fines upto 125°C and coarse material upto 150°	IS1891(Part-II)	Heat resistant	HR T ₂	12.5	350	250
Specially Blended with a compound of EPDM & chlorobuty, this grade is recommended for application where material temperatures are beyond 150°C to 200°C	buyer's Standard	Super Heat resistant	SHR	12.5	350	250
Having fire resistant and antistatic properties, this grade is recommended for use where a fire hazard exist eg. thermalplants, underground mines.	IS 1891 (Part-V)	Fire resistant	FR	17.0	350	200
Composed of synthetic rubber compound. This grade is resistant to mineral, vegetable, animal oil and fats.	IS 1891 (Part-III)	Oil resistant	OR	12.0	250	200
This cover grade is specially designed with nontoxic rubber compounds for use in food processing and pharmaceutical industry	IS 1891 (Part - IV)	Hygienic	hygienic	10.0	350	200
This specially designed grade of conveyor belting to with stand the chemical and abrasive action of material like potash, urea etc. It also overcomes the problem of "Reverse Throughing" faced in conveying such material on belting with cover grades.	P.B.' STANDARD IS 1891 (Part-I)	Chemical resistant	CMR	24.0	450	150

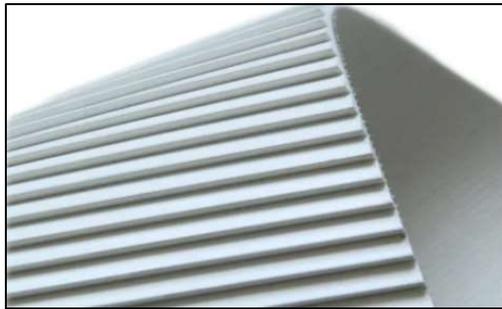


SELECTION CHART FOR CONVEYOR BELT

Belt Designation		Full Belt Tensile Strength	Max. Recommended Working tension		Nominal Carcass Thickness	Nominal Carcass Weight	Max. Belt Width (mm) For Adequate Load Support Bulk Density (T/M ³)			Minimum Belt Width (mm) For Adequate Troughing		
Type	Rating	KN/m	Vulcanized Splice	Mechanical Fasteners	(mm)	Kg/m	Upto 1.0	Upto 1.5	Upto 2.5	20 Deg Idlers	30 Deg Idlers	45 Deg Idlers
General Duty	200/2	200	20	20	2.4	0.022	650	500	--	300	400	500
	250/2	250	25	25	2.5	0.023	650	600	--	300	400	500
	315/2	315	31	31	2.7	0.024	900	650	500	300	400	500
	315/3	315	31	31	3.2	0.025	1000	800	650	400	500	500
	400/2	400	40	40	2.8	0.025	1000	800	650	400	500	500
	400/3	400	40	40	3.4	0.027	1200	900	650	500	500	500
	500/3	500	50	*	3.4	0.030	1200	900	650	500	500	500
	630/3	630	63	*	3.5	0.031	1200	1000	800	500	500	500
Heavy duty	200/2	200	20	20	2.8	0.026	800	650	500	400	400	500
	250/2	250	25	25	3.0	0.028	800	650	500	400	400	500
	315/2	315	31	31	3.1	0.029	1000	800	650	400	500	500
	315/3	315	31	31	3.6	0.030	1200	1000	800	500	500	500
	400/2	400	40	40	3.2	0.030	1200	1000	800	500	500	500
	400/3	400	40	40	3.6	0.032	1200	1000	800	500	500	650
	400/4	400	44	40	4.5	0.044	1200	1000	800	500	500	650
	500/3	500	50	*	3.7	0.034	1400	1000	800	500	500	650
	500/4	500	55	*	4.5	0.046	1400	1200	900	500	650	650
	630/3	630	63	*	3.9	0.036	1600	1400	1200	650	800	800
	630/4	630	70	*	5.0	0.049	1800	1600	1400	650	800	900
	800/4	800	90	*	5.4	0.051	1800	1600	1600	650	900	900
	1000/4	1000	110	*	5.8	0.054	2000	1800	1600	800	900	1000
	1000/5	1000	110	*	6.6	0.066	2000	1800	1600	800	900	1000
	1250/4	1250	140	*	6.5	0.062	2000	2000	1600	800	900	1000
1250/5	1250	140	*	7.1	0.080	2000	2000	1600	900	900	1000	
Extra Heavy duty	400/4	400	44	*	4.8	0.058	1200	1000	800	500	500	500
	500/4	500	55	*	4.8	0.060	1600	1200	900	500	500	500
	630/4	630	70	*	5.6	0.063	1800	1400	1200	500	650	800
	800/4	800	90	*	6.0	0.065	1800	1600	1400	650	800	900
	800/5	800	90	*	6.5	0.063	1800	1600	1400	650	650	800
	1000/4	1000	110	*	6.2	0.068	1800	1800	1400	800	800	900
	1000/5	1000	110	*	7.0	0.075	2000	1800	1600	800	900	1000
	1250/4	1250	140	*	6.8	0.076	2000	1800	1600	800	800	900
	1250/5	1250	140	*	7.5	0.089	2000	1800	1800	800	900	1000
	1400/4	1400	145	*	7.2	0.077	2000	1800	1800	800	900	1000
	1400/5	1400	155	*	8.2	0.089	2000	1800	1800	800	900	1200
	1600/4	1600	180	*	7.4	0.081	2000	2000	1800	800	900	1200
	1600/5	1600	180	*	8.8	0.100	2000	2000	1800	800	1000	1200
	1800/6	1800	190	*	10.6	0.110	2000	2000	2000	900	1000	1200
	2000/5	2000	220	*	9.2	11.000	2400	2400	2400	800	1000	1200
2000/6	2000	220	*	9.4	11.250	2400	2400	2400	800	1000	1200	



MAZCON Design Top Conveyor Belts:



PVC Saw Tooth Conveyor Belt

These belts are specially designed to provide slip resistance to conveyor belts. We can provide these types of belts in Rubber as well as in PVC as per requirements.



Rough Top Conveyor Belt

➤ **Highlights**

1. These belts can work on inclined conveyors at < 25 -degree angle.
2. We can provide these belts in any type of grades as per IS specifications.
3. These belts are commonly used in packaging industries, airports, food industries, granite industries, plywood etc.
4. We can provide these belts with one side rubber cover and bottom side bare.



Rubber Wavy Top Belt



Diamond Groove Conveyor Belt



MAZCON Chevron Cleated Conveyor Belts:

Design top belts fails to convey materials if the angle of inclination is high. Then we suggest Mazcon Cleated Chevron belts. These chevron belts can easily convey materials in an inclination of >45 degree. Even these chevron belts are useful in transporting smaller particles like gravels. We have an array of designs for chevron belts to suit our customers.

➤ Highlights

1. These belts can transport materials upto 45-degree angle.
2. These belts can easily transport smaller particles as well as packaged bag.
3. We can also supply PVC belts with straight cleat chevron for light application and rubber cleated conveyor belt for heavy application.
4. We have integral molded cleats belts as well as compressed molded cleats for customized requirements.



Bull Horn Chevron Belt



Flat V Cleated Conveyor Belt



Y Cleated Conveyor Belt



PVC Cleated Conveyor Belt



Endless Cleated Conveyor Belt



Cleated Conveyor Belt



Y Cleated Conveyor Belt

Belt Width	Cleat Height	Cleat Width
800 mm	12 mm	Continuous



Special Y Cleated Conveyor Belt

Belt Width	Cleat Height	Cleat Width
1000 mm	18 mm	680 mm



Continuous V Cleated Conveyor Belt

Belt Width	Cleat Height	Cleat Width
700 mm	12 mm	700 mm



Flat V Cleated Conveyor Belt

Belt Width	Cleat Height	Cleat Width
1000 mm	25 mm	560 mm



Gap V Cleated Conveyor Belt

Belt Width	Cleat Height	Cleat Width
1000 mm	18 mm	500, 550, 700 mm

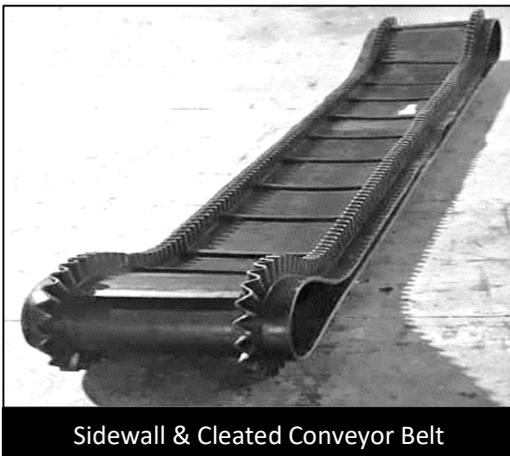


MAZCON Sidewall Conveyor Belts:



Sidewall Conveyor Belt

Mazcon offers sidewall conveyor belts mainly in two designs corrugated sidewall and Cut rib sidewall belts. These belts are majorly used in transporting materials to avoid spillage. Every year a lot of wastage occurs due to spillage of materials while conveying. Mazcon also offers cleated sidewall belts for conveying materials at inclined position without materials falling down.



Sidewall & Cleated Conveyor Belt

Special type of sidewall belt is also manufactured called Gravimetric Coal Feeder belts with cut rib sidewall designed. This belt is specially designed to convey coal as well as used as weighing the material, so special carcass construction is made to attain a perfect calibration and special rubber compound are used for longer life.

➤ **Highlights**

5. Transports materials at higher angles upto 90 degrees.
6. Reduces spillage and in turn reduces cost by cutting down wastage.
7. Endless belts are also manufactured.
8. These belts can be made in all types of grades.
9. Gravimetric feeder belts are made specially to attained 450Kn/m strength and also cover grade in M24 and FR.



Gravimetric Feeder Belt



MAZCON Hygienic Conveyor Belts:



Rubber Hygienic Conveyor Belt



Food Conveyor Belt



Sidewall Food Conveyor Belt



Food Conveyor Belt

Mazcon hygienic conveyor belts or food conveyor belts are specially made for food and pharmaceutical industries. These food conveyor belts are available in high abrasion resistant, anti-static and oil resistant cover grades. Complying with IS1891 Part IV, these food belts are available in standard as well as customized specifications. We also supply PU, TPU food grade imported belts complying to FDA norms.

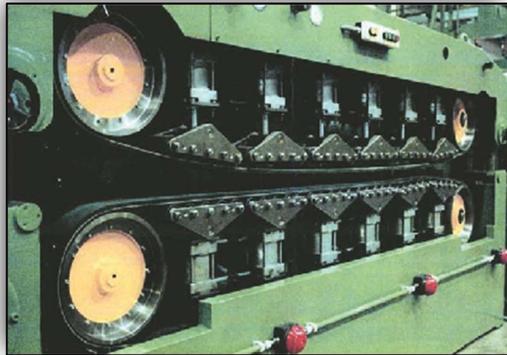
These hygienic conveyor belts do not stain and odorize the materials to be conveyed and widely used in the food industries for appropriate handling of food stuffs. Our range of hygienic belts is stringently quality checked to ensure that they are free from any kind of defect.

➤ **Highlights**

1. Anti-static finish for reducing the build-up of dust & dirt.
2. Optimum elongation.
3. Sealed, homogeneous and non-porous surface.
4. Reverse side coating, impregnation of reverse side fabrics and edge sealing for ensuring a completely sealed & hygienic conveyor belt.



MAZCON Endless Belts:



Mazcon Cable / Haul off belts / Extrusion Line Belts

In Various circumstances and application need has aroused to switch over to New Generation Belt in which greater emphasis is being given to design and standardize certain critical application Belts in various segments like Cable, PVC Pipes and extrusion Industries is amongst them.



The reinforced all synthetic new generation belts with specially formulated compounds ensure consistency and dependability with improved performance and grater economy regardless of application because they offer.



1. Light Weight Belts for Heavy Duty Service.
2. Higher Adhesion.
3. Higher Impact Resistance.
4. Controlled Elongation.
5. Highly Abrasion Resistance.
6. Heavy & Uniform Compression.
7. These Belts are manufactured in various combinations depending upon the economics of individual customers.



Profiled Belts

Vee Profiles – allows a two belt Cable / Haul off belts to haul tubes and pipes, 4-point contact maximizes grip, minimizes crushing.

Complex Profiles – virtually any shape of extrusion may be accommodated with



matching upper/lower belt profiles-ideal for decorative trims.

Slotted Covers – recommended for thick covers better than individual pads, increases belt life.

Poly V Belt – allows smaller pulley drive machines to use this belt and also gives a better contact with the pulley even on high speed. Special high abrasive rubber cover is used to resist wear and tear and frictional heat while drawing the cables or profiles.



MAZCON Magnetic Separator Belts

- Extracted ferrous particles remain on belt surface until they are carried to the underside of the belt where the moving belt takes them beyond the influence of the magnetic force to be discharged on to a collection system.
- Cleats are integrally moulded on to the belt and the endlessing is done via hot jointing to ensure long service life.
- Typically used for extraction of tramp iron for protection of processing machinery, reclamation of iron in the scrap trade, and for purification of food, chemicals, pharmaceuticals and similar products





Mazcon Linex Belts

In the cardboard industry tube winder machines are used to manufacture cardboard tubes for e.g. toilet rolls, carpet rolls, packaging in the food industry, concrete tubes, sealing cartridges, textiles and non-woven industry.



Paper is being spiralsised on a rotating metal tube in multi-layers to the required wall thickness.

Mazcon Linex Belts are suitable for cardboard cans, textile, industrial tubes, washing agent drums, carpet rolls, etc.

➤ Highlights

1. The 100% endless construction to ensures a smooth production without any splice failures.
2. The closed edge protects the belt against edge wearing.
3. The synthetic polymer covers ensure wear resistance without losing grip properties.
4. Good force/elongation properties for smooth operation in the heavy applications.
5. Available thicknesses 4,6,8 and 10 mm
6. Non-marking covers.



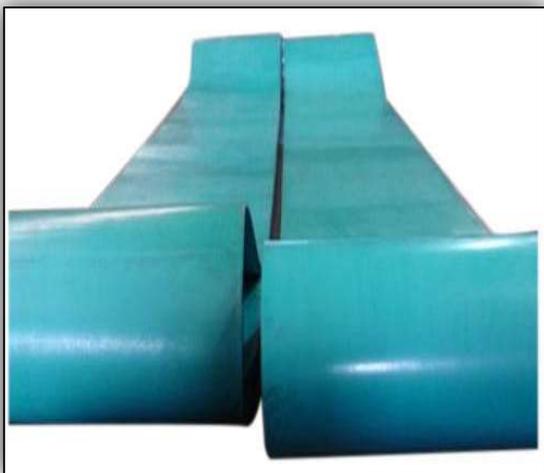


Mazcon Coil Wrapper Belts



In the metal industry, wrapping machines are used to coil sheet material of various thicknesses of steel, aluminium, copper, etc. At the start of the coiling operation, one or two wrapper belts are positioned around the mandrel of a coiling machine. The flat sheet is fed between the belts and coiling mandrel, and the belts force the sheet to coil up. After a number of turns of the coiling mandrel, the need to guide the sheet material ceases, the wrapper belts move away and the coiling operation continues. Once the correct length of material has been coiled, the sheet is cut off and the next coiling operation starts.

➤ Highlights



1. Made for use in tough conditions. Very good absorption of impact and cuts from sheets.
2. The Mazcon Wrap belt type is a uniformly coated, seamless, endless fabric with extremely strong edges to prevent fraying and wear. This ensures high flexibility and extended life.
3. The Mazcon Hot mill wrapper belts can withstand very high heat during the wrapping process.
4. Easy to track, stable belt run.
5. High friction between belt and material to be wrapped.
6. The excellent force/elongation properties enable sheet material to be tightly wrapped.



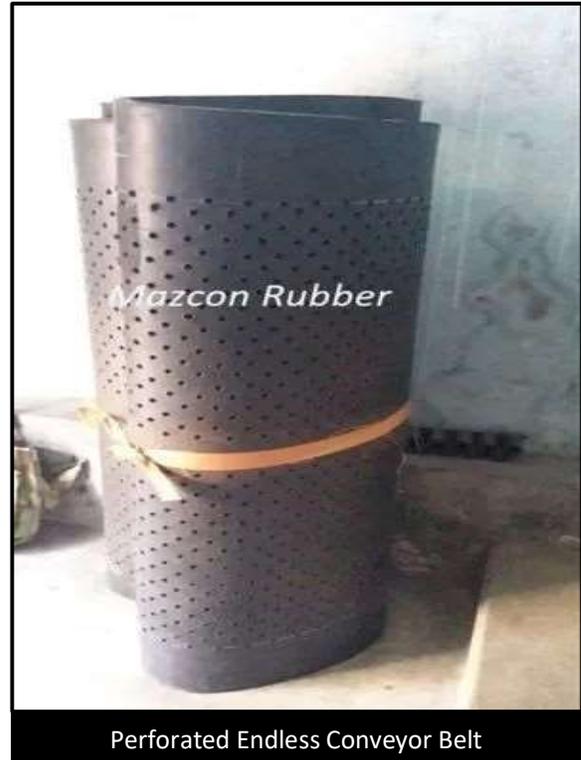
Speciality Belts:



ILMS Magnetic Separator Belt



Filtration Conveyor Belt



Perforated Endless Conveyor Belt



Rubberized Timing Belt



Bag Diverter Belt



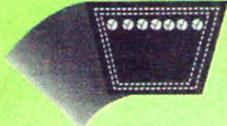
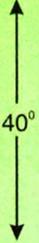
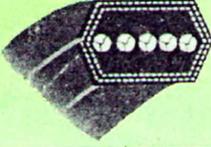
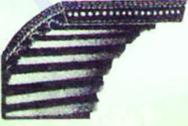
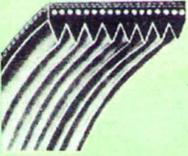
Perforated V-Belt



PU Link Belt



MAZCON V-Belts:

BELT TYPE	BELT PROFILE	DESCRIPTION	TYPE AND DIMENSIONS		
			SECTION	DIMENSIONS mm W X H	ANGLE DEGREE
V BELTS		CLASSICAL V BELTS	Y/2L	6 X 4	
			Z/3L	10 X 6	
			4L	13 X 8	
			5L	17 X 11	
			M	10 X 6	
			A	13 X 8	
			B	17 X 11	
			C	22 X 14	
			D	32 X 19	
			E	38 X 23	
		HEXAGONAL V BELTS	AA	13 X 10	40°
			BB	17 X 14	40°
			CC	22 X 17	40°
		WEDGE BELTS	SPZ/3V/9N	10 X 8	40°
			SPA	13 X 10	40°
SPB/SV/ISN			16 X 13	40°	
SPC			22 X 18	40°	
DELTA/8V/25N			25 X 23	40°	
	VARIABLE SPEED BELTS	AVAILABLE COGGED & PLAIN Dimensions As Per Your Requirement			
POLY-V MULTI-RIB BELTS		POLY-V MULTI-RIB BELTS	SECTION	PITCH X HEIGHT mm P X H	
			J	2.34 X 4	
			K	3.56 X 6	
			L	4.70 X 10	
			M	9.40 X 17	





Rubber Sheet & Rubber Moulding Products:



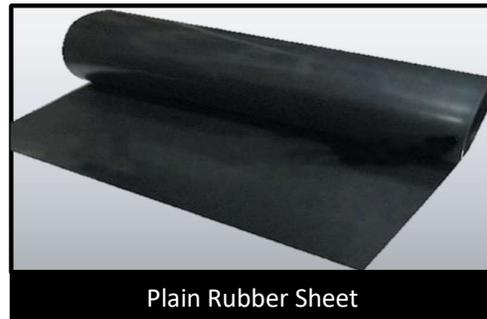
Expansion Bellow



Rubber Gasket



Expansion Bellow



Plain Rubber Sheet



Diamond Groove Rubber Sheet



Cow Mat



O – Ring and Seals



General Information on Splicing:

Mazcon recommends stepped biased type splicing for multi-ply all-synthetic belting. The belt ends to be joined together are prepared in a series of steps, the number of steps being one less than the number of plies. The length of these steps are dependent upon the strength of the individual plies and are indicated below for all standard construction in the table:

Dimensions of Splice

<u>Belt Rating</u>	<u>Total Splice Length (mm)</u>	<u>Step Length (mm)</u>	<u>Insulation Compound (mm)</u>
315/3	0.5W + 325	150	0.7
400/3	0.5W + 375	175	0.7
500/3	0.5W + 425	200	0.7
630/3	0.5W + 525	250	0.7
630/4	0.5W + 625	200	0.7
800/4	0.5W + 775	250	0.7
1000/4	0.5W + 925	300	1.05
1250/4	0.5W + 1165	380	1.05
1250/5	0.5W + 1225	300	1.05
1400/5	0.5W + 1545	380	1.05
1600/5	0.5W + 1825	450	1.40
1800/6	0.5W + 2275	450	1.40

W = Width of the belt in mm

The above splice lengths are based on the use of $26\frac{1}{2}^{\circ}$ bias angle. Alternatively, if the bias angle is made to correspond with a rhomboidal shape press platen angle, the bias length should be suitably modified.

While all standard constructions are covered in the above table, should you find any construction not listed here, please refer to us.

For belt running on idlers, the splice should be assembled in such a way that the cover compound built on the back cover channel leads the one on the face cover. In case of belts running on slider plates, this has to be reserved.



BRANDS WE OWN:



Original Products may vary in some cases from the picture shown here. Our range of products undergo continuous improvisation and therefore we reserve the right to alter or amend any of the information given in this catalogue without any prior notice.

***All PVC, PU & TPU Belts are imported.*

(ISO 9001 – 2015 Certified)

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