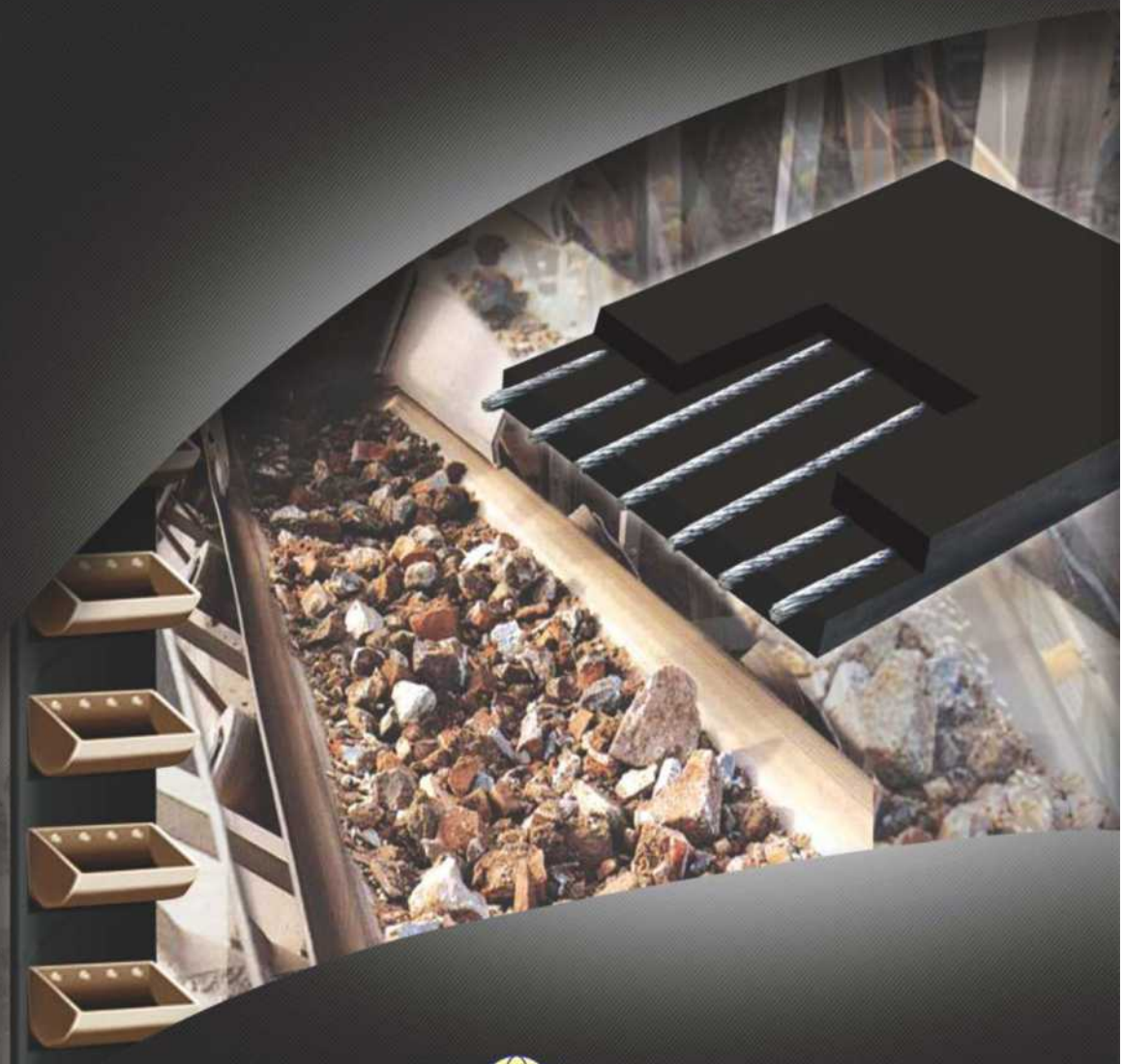
SOMIFLEX®



Somiflex Beltings

Powered to Move the World

An ISO 9001 Company

SOMI CONVEYOR BELTINGS LTD.

OUR INTRODUCTION

SOMI

"SOMIFLEX"

WORLD MARKET LEADER

FULLFILLING HIGH DEMAND FOR QUALITY CONVEYOR BELT

L to R : **Mr. Vimmal Bhansali (Wholetime Director), Sh. O.P. Bhansali (Chairman & Managing Director) & Mr. Gaurav Bhansali (Wholetime Director)** often like to use this introduction as a light-hearted chance to talk to you about the changes and progress that we've made in recent months. Over the past several years we have made considerable investments in developing modern technology in various types of conveyor belts. This enables us to satisfy the requirements of our customers quickly and with a high degree of flexibility. We are specialists in the development and manufacturing of **STEEL CORD BELTINGS, LOW ROLLING RESISTANCE BELTINGS, FABRIC REINFORCED BELTINGS, ENERGY OPTIMIZED BELTINGS, BUCKET ELEVATOR BELTINGS, PIPE CONVEYOR BELTINGS, VERY HIGH HEAT RESISTANCE BELTINGS, OIL RESISTANCE BELTINGS....**

Our scope of supply covers heavy duty, extra ordinary light weighted fabric STA Conveyor Belt for heavy mining industries both above & below ground. Our products are in use around the World. These successes serve as confirmation of our Customer-oriented stance and as a challenge for us to hold this line as we move into the future with Powered to Move the World.

Competence and Experience - Innovation is our Tradition

Aramid is an organic fiber in the aromatic polyamide family. The unique properties in STA Belt is with a combination of high strength, high modulus, toughness and thermal stability. It is INNOVATED & developed for demanding industrial and advance technology applications for the replacement of Steel Cord by STA Conveyor Belts.

BOMBAY STOCK EXCHANGE LISTED COMPANY

ADMINISTRATIVE OFFICE

INFRASTRUCTURE

BUYER'S VISIT IN PRODUCTION UNIT

NEW GENERATION STEEL CORD BELTINGS

In this time of stable economic growth, industries are aggressively rationalizing operations.
In the transportation sector in which pursuit of economic efficiency is a constant theme, conveyor belts have always played a major role.
At SOMI, we manufacture Exceptional High Quality Energy Saving Ultra Light Weight Steel Cord Conveyor Beltings, plus a range of specialised belting products for niche applications using the World's Leading Manufacturing Techniques with an annual output capacity of over 01 Milion Meters.

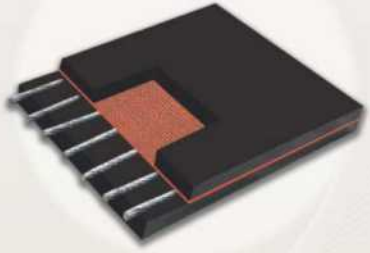
Advantage : Strong Tensile Strength, Low Elongation, Easy to Trough, Anti-Bent, Suitable Distance, Heavy Load and High Speed Conveying Materials.

Use : Conveying materials in Coal, Mine, Cement, Harbour, Matallurgy, Power Station, Chemical etc. field.

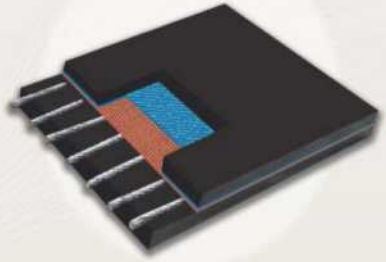
Type : (a) Conventional, Fire-resisant, Cold-resistant, Abrasion-resistant, Heat-resistant, Acid/alkali-resistant etc. (Refering Rubber Cover) (b) General Structure. Cross Rigid Structure, Antitearing iron Ring Structure.

STEELO - SFX

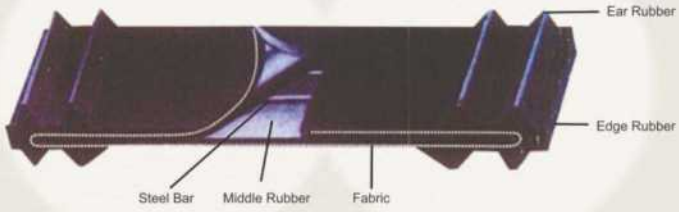
FABRIC STEELO - SFX



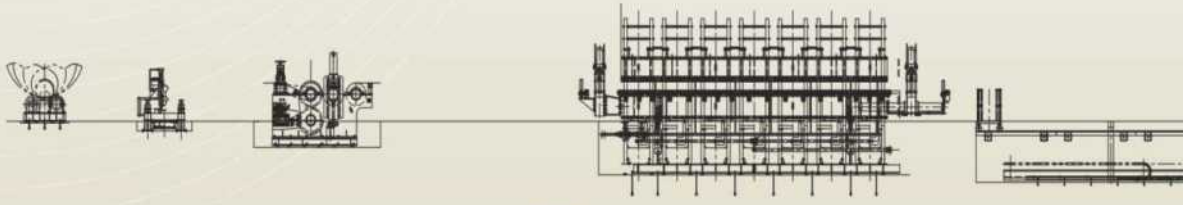
NET - STEEL - SFX



SWING - SFX (Steel Wire Rope)



PIPE - 0 - CORD



CONSTRUCTIONAL ELEMENTS OF STEEL CORD CONVEYOR BELT

The Core Eelement : STEEL CORD

The Cord used in SOMI Steelcord Belt is made of speacially developed High Carbon Steel. During manufacture of Belts, these cords are held longitudinally in a single layer under pre-determined tension to ensure proper alignment. The Cords are Zinc coated to ensure superior bonding between Cord and Rubber as well as to protect the same against corrosion.

1 x 19 + 7 x 7

The Cords may have several types of configurations like 7 x 7, 1 x 19 + 7 x 7, 7 x 19 etc. The Steel Cords, unlike free-running cable, do not need any lubrication. Hence the core is not a lubricant but an additional reinforcement. Under load, the cords do not tend to creep.

7 x 19

Advantages of Steel Cord

- **Long Life**

  Somi Conveyor Steel Cord Belt provides long life by utilising the high fatigue strength of Steel Cords.

- **Low Elongation**

  Somi Conveyor Steel Cord Belt has Elongation much lower than that of an equivalent Textile Belt. This allows Short Take-Ups even for long distance Conveyors.

- **High Tensile Strength**

  The high strength of Steel Cord as the Tension Member ensures selection of Somi Conveyor Steel Cord Belt for much higher working tension requirements as compared to conventional fabric belt.

- **Excellent Troughability**

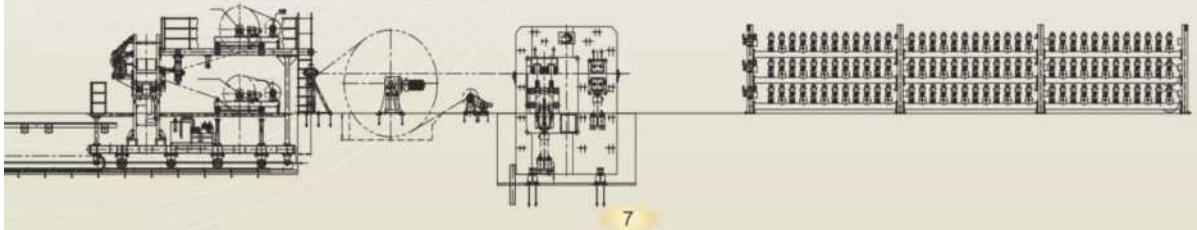
  As the belt is composed of Steel Cords in a single layer, Somi Conveyor Steel Cord Belt even with very high strength, perfectly conforms to the contour of deep troughed idler. This ensures proper belt training and maximum capacity utilisation.

- **Smaller Pulley Diameter**

  Somi Conveyor Steel Cord Belt by virtue of high longitudinal flexibility, requires smaller pulley, thus reducing the cost of initial investment.

Guide Values for Top and Bottom Cover Thickness

Use	Material Handled	Top Side	Bottom Side
Loading and unloading plants and coaling plants	Coal, Potassium, Gravel, Sand, Fine Ore	4 to 8	4 to 6
Loading and unloading plants Coal mines, quarries	Lump Coal, Rocks, Rough Gravel, Ore, Overburden	6 to 12	4 to 8
Machine belts for excavators and spreaders, crusher removal belts	Rocks in Lumps, Ore, Coal, Overburden	10 to 20	6 to 10



STANDARD STEEL CORD RANGE

SOMI ST Rating	Recommended Cord Dia (mm)	Pitch (mm) ±1.5	No of Cords in Belt Width														
			600	650	750	800	850	1000	1050	1200	1400	1500	1600	1800	2000	2200	2400
500	2.80	13.8	42	45	52	56	63	70	74	84	99	106	113	128	142	156	169
560	2.80	13.8	42	45	52	56	63	70	74	84	99	106	113	128	142	156	169
630	3.00	13.8	42	45	52	56	63	70	74	84	99	106	113	128	142	156	169
710	3.10	13.8	42	45	52	56	63	70	74	84	99	106	113	128	142	156	169
800	3.30	13.8	42	45	52	56	63	70	74	84	99	106	113	128	142	156	169
900	3.80	15.3	37	40	47	50	56	63	66	76	89	96	102	115	128	141	151
1000	4.00	15.3	37	40	47	50	56	63	66	76	89	96	102	115	128	141	151
1120	4.20	15.3	37	40	47	50	56	63	66	76	89	96	102	115	128	141	151
1250	4.50	15.3	37	40	47	50	56	63	66	76	89	96	102	115	128	141	151
1400	4.80	15.3	37	40	47	50	56	63	66	76	89	96	102	115	128	141	151
1600	5.50	17.3	33	36	42	45	50	56	59	67	79	85	90	102	113	124	135
1800	6.00	17.3	33	36	42	45	50	56	59	67	79	85	90	102	113	124	135
2000	6.40	17.3	33	36	42	45	50	56	59	67	79	85	90	102	113	124	135
2240	6.80	17.3	33	36	42	45	50	56	59	67	79	85	90	102	113	124	135
2400	7.40	19.4	30	32	37	40	45	50	52	60	70	75	81	91	101	111	119
2600	8.00	19.4	30	32	37	40	45	50	52	60	70	75	81	91	101	111	119
3150	8.60	19.4	30	32	37	40	45	50	52	60	70	75	81	91	101	111	119
3550	9.20	19.4	30	32	37	40	45	50	52	60	70	75	81	91	101	111	119
4000	9.80	19.4	30	32	37	40	45	50	52	60	70	75	81	91	101	111	119
4500	10.50	18.3	28	30	35	37	40	47	49	56	65	70	75	84	93	103	112
5000	11.00	18.1	28	31	35	38	40	47	50	57	66	71	76	85	94	104	114
5500	11.80	17.9	28	30	35	37	40	47	49	56	65	70	75	84	93	103	112
6000	12.00	16.5	30	33	38	40	43	50	53	60	70	75	80	90	100	110	120
6500	12.00	15.0	33	35	41	43	46	54	57	65	76	81	87	98	108	119	130
7000	12.00	14.1	35	38	44	47	50	58	61	70	82	87	93	105	117	128	140
7500	12.00	12.9	38	41	47	52	55	65	66	75	88	94	100	112	125	138	150
8000	12.00	12.3	40	43	50	53	57	67	70	80	93	100	107	120	133	147	160
9000	12.00	10.9	45	49	56	60	64	75	79	90	105	112	120	135	150	165	180
10000	12.00	10.0	50	54	62	67	71	83	88	100	117	125	133	150	167	183	200

Suggested Minimum Transition Distances

Terminal Pulley Position	% of Operating Tension	Idler Trough Angle W = Belt Width		
		20°	35°	45°
Full Trough	91 - 100	3.3 (w)	5.5 (w)	6.7 (w)
	81 - 90	3.0 (w)	5.1 (w)	6.2 (w)
	71 - 80	2.7 (w)	4.5 (w)	5.5 (w)
	61 - 70	2.4 (w)	4.1 (w)	5.0 (w)
	01 - 60	2.3 (w)	3.9 (w)	4.8 (w)
Half Trough	91 - 100	1.7 (w)	2.8 (w)	3.4 (w)
	81 - 90	1.5 (w)	2.6 (w)	3.1 (w)
	71 - 80	1.4 (w)	2.3 (w)	2.8 (w)
	61 - 70	1.3 (w)	2.1 (w)	2.5 (w)
	01 - 60	1.2 (w)	2.0 (w)	2.4 (w)

These minimum transition distances limit edge tension to 130% of rated tension during steady operating conditions and temporary non-steady conditions such as starting and stopping.

Recommended Take-up Travel

Conveyor Center Distance		Take-up Travel % of C - C
FT	M	
500	150	0.80
1000	300	0.70
1500	450	0.60
2500	750	0.50
4500	1350	0.40
6500	1950	0.30
9500	2850	0.25

Minimum Take-up Travel 0.25% of C - C.

STEEL CORD BELTING SPECIFIATION

RATING	Carcass Weight	Operating Tension	Belt Modulus	Minimum Covers	
Belt Style	kg/m2	kN/m	kN/m	mm	inches
Somi ST 500	2.03	75	25000	4	5/32
Somi ST 560	2.03	85	28000	4	5/32
Somi ST 630	2.80	94	31500	4	5/32
Somi ST 710	2.90	109	35500	4	5/32
Somi ST 800	3.00	120	40000	4	5/32
Somi ST 900	3.50	135	45000	4	5/32
Somi ST 1000	4.00	150	50000	4	5/32
Somi ST 1120	4.10	172	56000	4	5/32
Somi ST 1250	4.90	192	62500	4	5/32
Somi ST 1400	5.50	210	70000	4	5/32
Somi ST 1600	6.50	240	80000	5	3/16
Somi ST 1800	7.30	270	90000	5	3/16
Somi ST 2000	8.20	310	100000	5	3/16
Somi ST 2240	9.40	340	112000	5	3/16
Somi ST 2400	9.90	375	120000	5	3/16
Somi ST 2600	11.70	400	130000	6	1/4
Somi ST 3150	13.60	470	175000	6	1/4
Somi ST 3550	14.90	523	175000	6	1/4
Somi ST 4000	16.80	600	200000	7	9/32
Somi ST 4500	20.20	672	225000	7	9/32
Somi ST 5000	22.10	750	250000	8	5/16
Somi ST 5500	25.90	810	275000	9	11/32
Somi ST 6000	28.05	920	270000	9	11/32
Somi ST 6500	30.29	1000	300000	9	11/32
Somi ST 7000	32.53	1070	325000	9	11/32
Somi ST 7500	36.47	1150	350000	9	11/32
Somi ST 8000	37.59	1230	375000	9	11/32
Somi ST 9000	42.07	1380	400000	9	11/32
Somi ST 10000	46.56	1535	425000	9	11/32

Value of carcass thickness and carcass weight are nominal only and subject to change if required for improved belt performance.

STORAGE

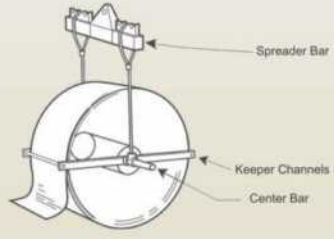
Belts should always be stored upright in the factory package until used in a cool, dry building and in an area free frm sunlight. Store the belt roll suspended on a tube, bar or support stand. Under no conditions should rolls of belt, especially raw edge or used, be laid flat on its side. Storing the belt flat on the ground, where moisture can penetrate exposed fabric, or storing the belt roll with weight on one edge, may stretch the belt. This can cause belt camber or a bowing in the belt, resulting in serious belt mistracking.

It is important to make sure the belt is exposed to extreme temperatures during storage. Ideal temperature for storing a belt is between 50° F and 70° F. Temperatures outside of this range for an extended period of time can have detrimental effects on the rubber compounds.

As the length of time stored increases, and as the size of the roll of belting increases, do does the importance of the following correct storage procedures. Following these procedures will increase the life of the belt once it is installed on the system.

HANDLING THE ROLL

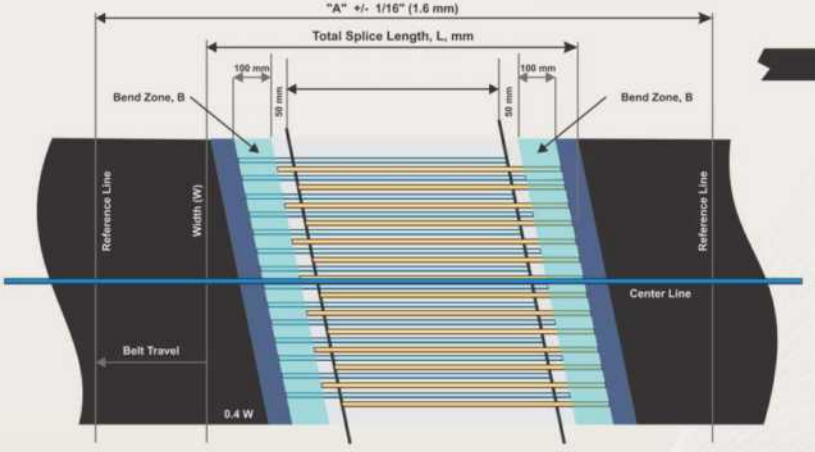
Conveyor belting is customarily packaged in cylindrical reeds, or rolls on a core with the carrying cover side facing out. If rolling is necessary, it should occur in a direction such that the end of the roll on the outside wrap travels in the direction from which it is wound up. Rolling in the opposite direction tends to loosen and telescope the belt. Reels or rolls should never be dropped from a freight car, truck, or other means of conveyance, since their weight will break the packaging and may damage the belt. Reels or rolls should always be rolled, or provision should be made for hoisting them. For hoisting, a square lifting bar of the correct size should be placed through the hole in the center of the core. A spreader bar should be utilized to prevent the chains or slings from damaging the edges of the conveyor belt. Slings or chains of the correct size for the weight of the roll should be used.

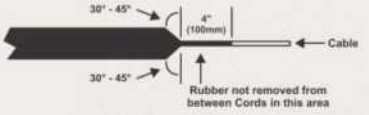


STRUCTURE OF STEEL CORD BELT SPLICES

One Step Splice Layout

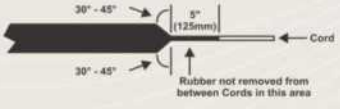
- SOMI belt designs emphasize maximum spliceability with the simplest possible splice pattern that finish at the belt edges with full-length cords, without the need for pattern modification.
- ST 500 to ST 1800 belts use a 1-step splice pattern. The belts have an even number of cords and the space between cords in a splice is at least 2.2 mm.

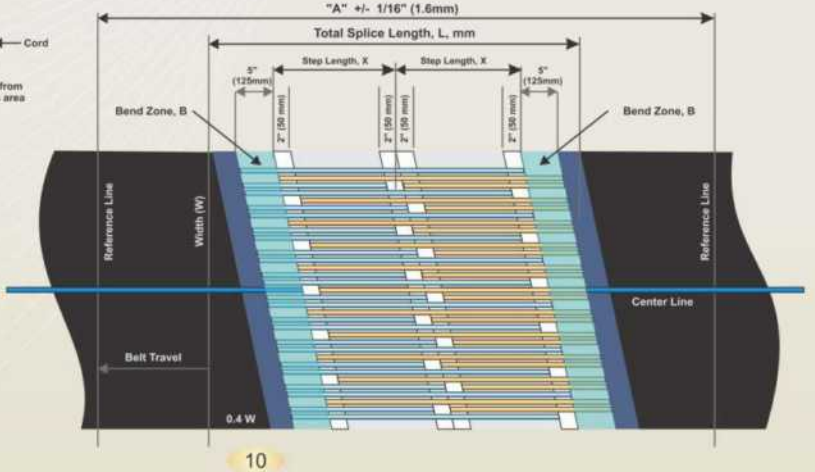




Two Step Splice Layout

- Belts over ST 1800 and upto ST 4000 use a 2-step splice pattern. These belts have an uneven number of cords with the additional following parameter: (No. of cords minus 1, then divided by 2, is also an uneven integral number). The minimum space between cords in a splice is 2.4 mm.

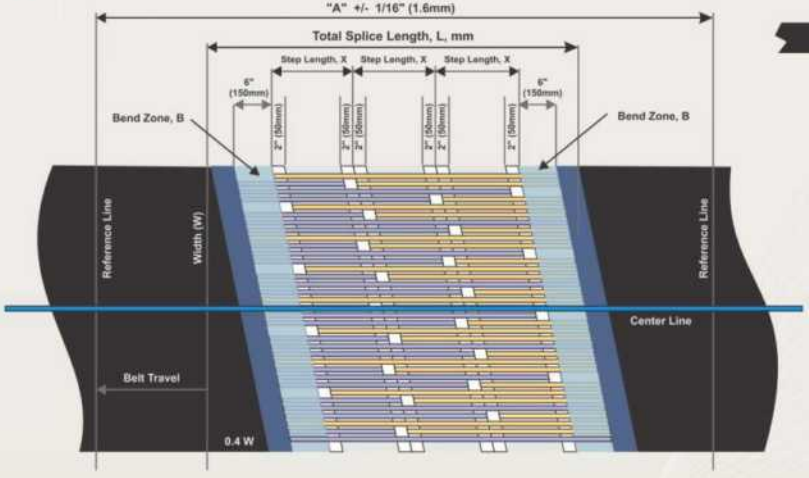


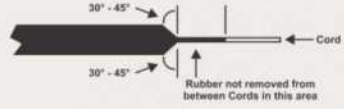


STEEL CORD BELTING SPECIFIATION

Three Step Splice Layout

- Belts over ST 4000 and upto ST 5500 use a 3-step splice pattern. These belts have an uneven number of cords with the additional following parameter: (No. of cords minus 2, then divided by 4, is also an uneven integral number). The minimum space between cords in a splice is 2.6 mm.
- Belts over ST 5500 are handled on a case by case basis.





Select The Right Pulley

- Somi Flex Steel Cord Belting requires straight-faced, engineered-class pulleys (no crown).
- The minimum pulley diameters have been chosen to limit cord pressure on the pulley and bending stress in the cords.
- Reverse bending in a high-tension position requires pulley diameters 6" (150mm) greater than those listed.
- Pulleys should be rubber lagged to increase pulley life, improve coefficient of friction, and minimize material build-up, which can damage the pulley and the belt.

Minimum Recommended Pulley Diameters

Belt Style	% of Operating Tension						Low Tension Snub	
	81 - 100		61 - 80		1 - 60			
	inch.	mm	inch.	mm	inch.	mm	inch.	mm
SOMI - ST 500	24	610	20	508	16	406	14	356
SOMI - ST 630	24	610	20	508	16	406	14	356
SOMI - ST 800	36	914	30	762	18	457	16	406
SOMI - ST 1000	36	914	30	762	18	457	16	406
SOMI - ST 1250	42	1067	36	914	20	508	18	457
SOMI - ST 1400	42	1067	36	914	20	508	18	457
SOMI - ST 1600	48	1219	36	914	24	610	20	508
SOMI - ST 1800	48	1219	36	914	24	610	20	508
SOMI - ST 2000	48	1219	36	914	24	610	20	508
SOMI - ST 2250	48	1219	36	914	24	610	20	508
SOMI - ST 2500	54	1372	42	1067	36	914	30	762
SOMI - ST 2800	54	1372	42	1067	36	914	30	762
SOMI - ST 3150	54	1372	42	1067	36	914	30	762
SOMI - ST 3500	54	1372	42	1067	36	914	30	762
SOMI - ST 4000	60	1524	48	1219	42	1067	36	914
SOMI - ST 4500	66	1676	54	1372	48	1219	48	1067
SOMI - ST 5000	72	1829	60	1524	54	1372	48	1219
SOMI - ST 5400	78	1981	66	1676	54	1372	48	1219

FABRIC CONVEYOR BELT CONSTRUCTION

Top Cover

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

Skim Coat

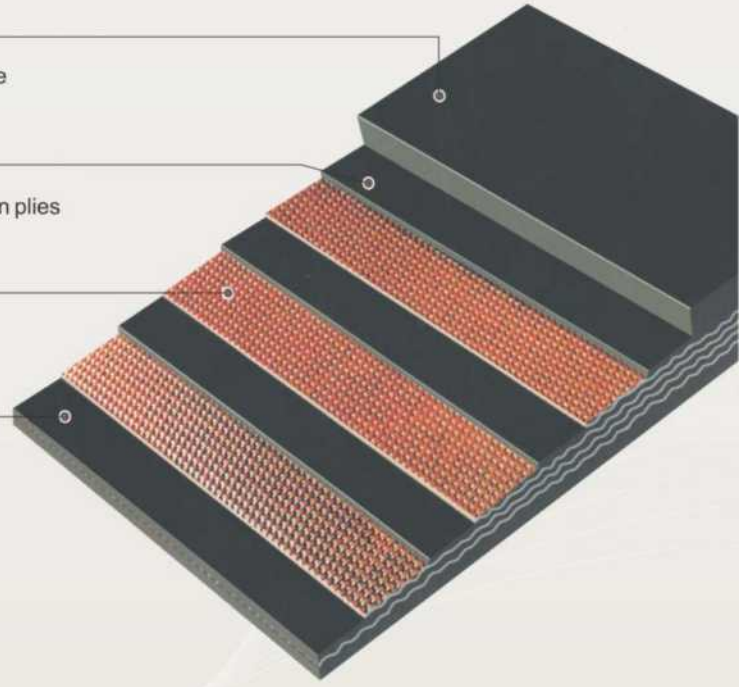
Compounded for ecellent adhesion between plies for protecting against ply separation.

Carcass

Extremely low stretch characteristics of fabric and good troughability.

Bottom Cover

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



Quality Management - from the lab through to logistics

We develop Customer-specific products that meet the high demands of our Customers through the consistent application of our in-depth expertise. A quality management system, built and based upon international standards, that encompasses every single part of our various locations, guarantees the consistent, excellent quality of the goods we manufacture and the services we offer.

GENERAL CONVEYOR BELT GRADE M-24

This Construction, utilizing all nylon, offers maximum impact and damage resistance from material and suitable for transporting a variety of materials (Lime Stone, Quartz, Stone Chips, Sinter Gravel, 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.

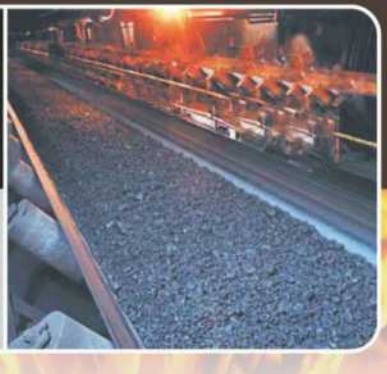
Polyester Fabric (EP) Conveyor Belt

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.

HEAT & FLAME RESISTANT CONVEYOR BELT



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

Somiflex 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 etc.

HEAT RESISTANT - GRADE HR, SHR & UHR

Heat Resistant	Super Heat Resistant	Ultra Heat Resistant
Lump 125° C (Max)	Lump 150° C (Max)	Lump 180° C (Max)
Fines 100° C (Max)	Fines 125° C (Max)	Fines 150° C (Max)

Best for general hot materials & services such as steel clinker, hot sintered ores, Steel pellets & others.

■ 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 ageing.

FLAME RESISTANT - GRADE FR

Areas prone to fire hazards.

It is recommended for the typical applications like oil treated Coal, grain industries requiring fire & oil resistance. It is suitable for Coke and other fire prone materials.

GRADE - SEFR - 81®

Extra resistance to fire & High.

Temp up to 250° C (Max)

Extra Ordinary High Temp. & Fire prone materials.

SOMIFLEX SPECIAL CONVEYOR BELTS

PIPE CONVEYOR BELT

It prevents deposit on belt from dropping. Forming return belt into pipe prevents dropping of materials attached to the carrying side.

Highly abrasive ores e.g. copper, iron, bauxite, manganese etc. Gravel Quartz, Dry sand bank etc.

▪ Special Features

- Closed transportation in orderto prevent materials from overflowing, dreop-down, scattering and mixing with foreign materials from outside.
- This Somiflex 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.

GRADE - ROCK - 2007® (Minimum 2 Year Warantee)

For Highly Abrasive Materials.

Iron Ore, Dalmanite, Lime Stone etc.

GRADE - SEHR - 36®

Extra resistance to Heat & Abrasion Materials.

Lump 250° C (Max), Fines 200° C (Max)

The Best for General high temperature and high abrasive materials.

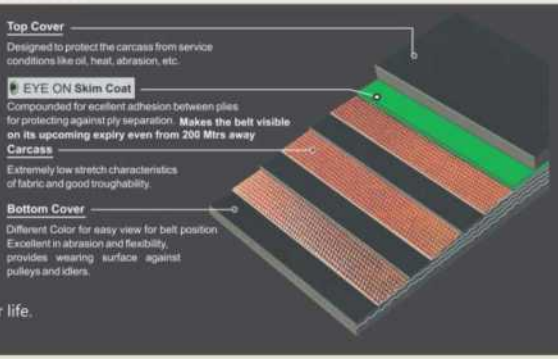
Highly recommended & extensively being used for Clinker handling across the Globe by all Major Cement Industries.

GRADE - EYE ON BELT

First time in India Launched by SOMI CONVEYOR BELTINGS LTD.

Features:

1. Alarming & Control Over Inventory
2. No Extra Cost (at FOC Basis)
3. Makes the outlook of the conveyor system apprehently good.
4. Manufacturer distinguished.
5. Improved abrasion properties in comparison to old technical standard.
6. Impact resistance.
7. Kushnin technology.
8. Light in weight first time in india.
9. Improved fatique resistance.
10. Elongation only 1.75%.
11. Extra Thickness & so on better life.
12. Available in M-24 & SAR Grade only.



Above grades can be reinforced with N/N, EP or ARAMID is the high temperature fibre having an extremely high strength to weight ration and is also excellent fabric for use in high moisture environment.

Please consult us for special grades or for your any other specific requirements.

SOMIFLEX HIGH CAPACITY BUCKET ELEVATORS BELT

Steel Cord Beltings for BUCKET ELEVATOR :

Application :

Bucket Elevator Belts are basically composition of the Steel Cord reinforced Rubber Conveyor Belt & elevator-buckets, which need a belt with very high strength & low elongation in application. The Bucket Elevator Conveyor Belt is applicable to transport vertically loose materials.

Design Elevator Belt :

The Bucket Elevators belts are different from other ordinary belts, subject to various forces including lever action due to projection of buckets and extracting force exercised by pulleys at the time of belt bending, so need to calculate the sufficient strength to support the weight of the bucket and conveying materials.

Unique Features & Benefits for BUCKET ELEVATOR Beltings

- Our World-class Best Quality Steel Cord Belts are proven to be the best in industry for design that uses steel cord tension & cross weft construction to provide superior tracking characteristics.
- Conveying heights of more than 150 meter possible.
- Our mechanical belt splice can be installed quickly without burdensome or dangerous use of melt metal or epoxy for cord end entrapment.
- Light Weight Belt Technology – Low weight in proportion to its breaking strength, the belt as traction carrier has a key function in the realization of centre distances greater than 150 meter.
- Double service life of belt compared to chain.
- The arrangement of the steel wires reinforced in the belts keeping in mind the bucket bolting areas, the crucial part of bucket elevator belt.
- Possible Higher Lifts due to the strength-to-weight ratio of the steel cord belt.
- New Heavy Duty belts with higher nominal strength & high Conveying Capacities upto 2000m2/h.
- Smoother running & lesser noise generation belt.
- Possible of conveying high abrasive materials with long running times.

STEEL CORD BUCKET ELEVATORS BELT MATERIAL

Steel Cords reinforced Conveyor Belts for Bucket Elevator

Tensile Strength: ST-800 to ST-7200

Max. Belt Width: ~ Up to 2400mm

Rubber Cover Grade : Resistant to Wear, Heat, Oil, Fire Retardant, Anti-static

Bucket, tray, and cradle-type elevators are distinguished. Bucket elevators are designed to lift pulverized, granular, or lumpy bulk materials vertically or at angles greater than 60°. Tray elevators and cradle-type elevators are used for lifting unit loads such as parts, bags, and boxes and may be loaded and unloaded intermittently. Bucket elevators are employed in metallurgy, machine.

Selection of Steel Cord Belt

Material Temperature	Cont. Up to 60°C Max. Up to 60°C Highly abrasion resistant	Cont. Up to 100°C Max. Up to 110°C Highly abrasion resistant	Cont. Up to 130°C Max. Up to 150°C Good abrasion resistant
Elevator Capacity	Capacity is dependent on bucket size : see table below for more details		
Material Size	Free - flowing fines up to 50mm (2 inch) lump size.		

Specification for Steel Cord Belt Bucket Elevators

Bucket Length (mm)	Belt Width (mm)	Bucket Rows X Length	Cap. 75% Fill CFH @ 385 FPM 12 in. Spacing	Cap. 75% Fill CFH @ 385 FPM 12 in. Spacing	Nom. Casing width (in.)	Nom. Casing width (mm .)
400	450	1-400	8000	227	34	870
400	450	1-400	8700	246	34	870
400	450	1-400	9400	266	34	870
500	550	1-500	10400	294	34	870
500	550	1-500	11300	320	34	870
500	550	1-500	12200	345	34	870
600	650	1-600	13600	385	40	1020
600	650	1-600	14700	416	40	1020
700	750	1-700	15900	450	40	1020
700	750	1-700	17200	487	40	1020
800	850	1-800	19600	555	50	1270
1000	1100	2-500	22700	643	60	1530
1000	1100	2-500	24500	694	60	1530
1200	1300	2-600	27300	773	60	1530
1200	1300	2-600	29500	835	60	1530
1400	1500	2-700	31800	900	70	1780
1400	1500	2-700	34400	974	70	1780
1600	1700	2-800	39300	1113	80	2030
1800	1900	3-600	44200	1252	90	2290
2100	2200	3-700	51600	1461	100	2540
2300	2400	3-800	59000	1671	110	2800

SOMIFLEX SAR - 36 BELT

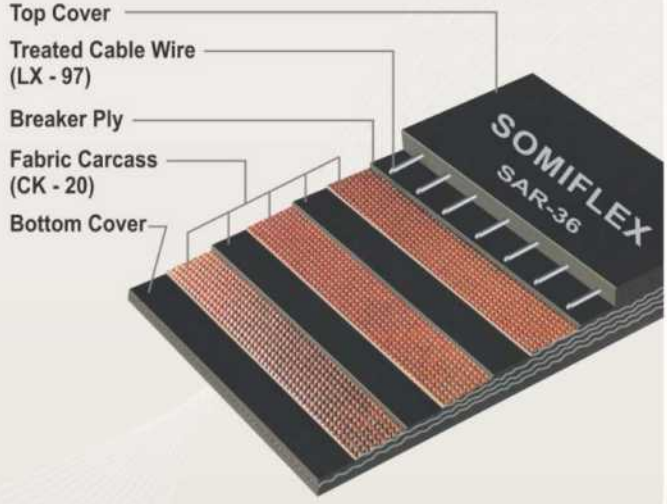
For Highly Abrasive Material
Impact & Cut Resistance

Our R&D has made a big leap forward and done notable service to the users by launching the great "SAR-36®" New Generation "SOMIFLEX" Conveyor Belt Heavy Duty (1st tiem in INDIA) having superior properties and as an replacement t underground FR Grade Steel Cord Belts also to traditional M-24 / RMA-II / Grade-Y Conveyor Belts with our own formulations for particulars applications where impact due to fall of lumps from great height is experienced.

Recommended under Primary Crushers Application

Approved By DGMS

We solicit the patronage of our esteemed customers to this belt too and suggest them to use it at least once backed with our quality assurances. Initially, a little nominal but negligible extra expenditure incurred will not only compensate but would be far more money saving in the long run. The benefits those would accrue over the passage of time will speak louder than the words contained here



Features of SAR - 36 Conveyor Belt

1. Wire Cable inlay with fabric for avoid cover peeling & wear.
2. High Resistance to Impact and Mechanical Damages.
3. Lightweight belts for heavy-duty services.
4. Excellent Toughness.
5. Low Elongation.
6. Great Troughing & higher capacity utilization.
7. Extra Strong Adhesion between plies and rubber covers.
8. All Weather Fatigue Resistant.
9. Give Extra Life.
10. High Longitudinal Flexing.
11. 100% Cut Resistant.

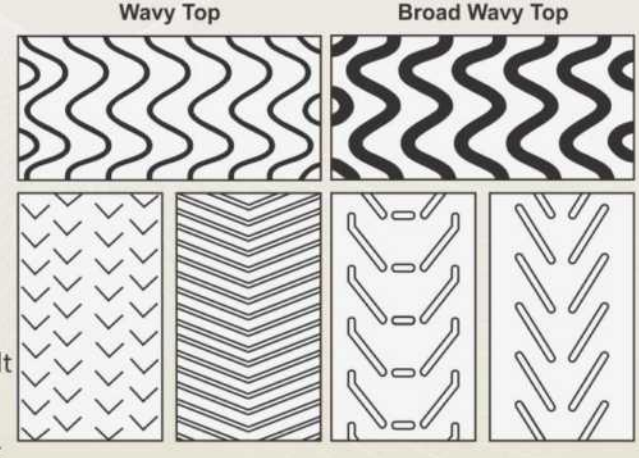
SELECTION OF BELT BETWEEN N/N & SAR - 36

NYLON - NYLON	Belt Streangth	Max. Recom. Working Tension	Expected Life
	Rating	kN/m^2	Months
	800/4	80	12
	1000/4	110	12
	1250/4	140	12
	1400/4	155	12
	1600/4	180	12
	2000/5	220	12

SAR - 36	Belt Streangth	Max. Recom. Working Tension	Expected Life
	Rating	kN/m^2	Months
	630/4	80	24 - 30
	800/4	110	24 - 30
	1000/5	140	24 - 30
	1250/5	155	24 - 30
	1400/4	180	24 - 30
	1600/5	220	24 - 30

Special Utility Beltings

1. Rough Top Conveyor Belt
2. Wavy Top Conveyor Belt
3. Broad Wavy Top Conveyor Belt
4. Chevron Conveyor Belt
5. Hygienic Conveyor Belt
6. Button Profiled Conveyor Belt
7. Pipe Conveyor Belt
8. Oil & Heat Resistant Conveyor Belt
9. Oil Resistant Conveyor Belt
10. Chemical Resistant Conveyor Belt

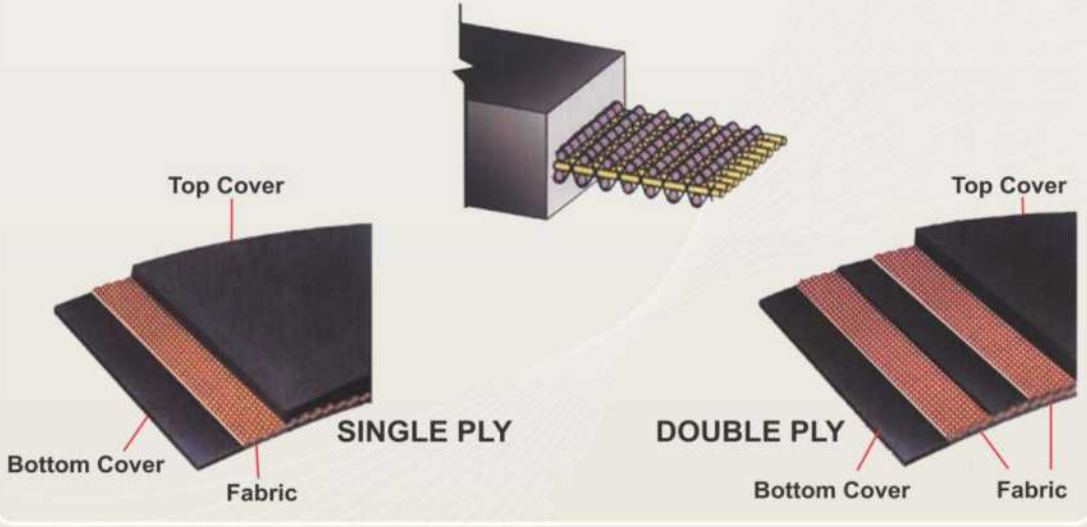


SOMIFLEX
STA BELT

STA Conveyor Belt occupies a unique position in the sectrum of Steel reinforcing belt. Its specific excellent composition makes it the highest strength Belt Worldwide. STA has the highest strength-to-weight ratio of any of the conveyor belt reinforcements, more than triple that of E glass fiber which is commonly in use, and five times that of steel cord. This also prevent the penetration of bullet in the Conveyor Belt.

STA Conveyor Belt is not only available for continuous operation from 200°C to 300°C but its fiber does not melt or burn, it provides very good heat resistant performance for instant contact temperature up to 538°C.

STA has outstanding performance characteristics of light weight, high durability, corrosion-free, non-conducting, flexibility and 5 times strength than that of steel cord in the air (20 times in water), which allows STA Belts to replace steel cord conveyor belts successfully all over the WORLD. STA Belts having tremendous saving on power bills which is today's most essential & necessary need for cutting production cost. That means you may SAVE LAKHS of INR per annum.



Reasons for Replacing Steel Cord Belt

- Lighter Weight
- High Fatigue Resistant
- Corrosion Resistant
- Non-electric Conductivity
- High Flexibility
- Excellent Toughness
- Low Elongation
- High Heat Resistant
- Prevent Flammable Material from Penetration.
- Good Adhesion between plies and cover rubber.
- 100% Impact Penetration & Slit Resistance.

High Strength, 5 times of Steel Cord in the Air (20 times in the Water)

SOMIFLEX
STA BELT

BELT SELECTION CHART

Expected Belt Life 5-10 Years

Tensile Strength		STA 630	STA 800	STA 1000	STA 1250	STA 1400	STA 1600	STA 1800	STA 2000	STA 2500
Top Cover Thickness	mm	6	6	6	8	8	8	8	10	10
Bottom Cover Thickness	mm	3	3	3	4	4	4	4	5	5
Belt Thickness	mm	11.0	11.0	11.6	14.8	15.3	15.35	15.4	18.5	19.0
Approx Belt Weight	kg/m2	11.65	11.8	12.0	15.7	16.4	16.6	16.9	19.8	20.45
Elongation at 10%	%	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4

	STA	Steel	NN/EP
Impact resistance	◉	△	○
Adhesion	◉	△	○
Toughness	◉	△	○
Slit resistance	◉	△	○
Elongation	○	◉	△
Flame resistance	○	◉	△
Static Electricity proof	◉	△	○
Corrosion resistance	◉	△	○
No warp cord pop-out	◉	△	○
Flexibility	◉	△	○
Light weight	◉	△	○
Fatigue resistance	◉	○	△
Splicing time	○	△	◉
Belt Life	◉	○	△
Flexibility when overload	◉	△	○
Min. power	◉	△	○
Smaller dia pulley	◉	△	○
Splicing life	◉	○	△
Min. Facility cost	◉	△	○
Min. Splicing number for long distance belt splicing	◉	△	○

◉ Excellent ○ Good △ General

CONVEYOR BELTINGS SELECTION CHART

NYLON - NYLON (N/N)

Designation		Maximum Recommended Working Tension (Vulcanized Splice)	Nominal Carcass Thickness	Recommended Minimum Pulley Diameters (mm)> 60% to 100% of RMBT used		
Type	Rating	kN/m²	mm	A	B	C
For General Duty & Medium Duty Application	315/3	31	3	250	200	160
	400/3	40	3.2	315	250	200
	500/3	55	3.5	315	250	200
	500/4	55	4.2	400	315	250
	630/3	70	3.5	315	250	200
	630/4	70	4.8	500	400	315
	800/4	90	4.9	500	400	315
	800/5	90	5.7	500	400	315
	1000/4	110	5.7	500	400	315
	1000/5	110	6.3	630	500	400
	1250/4	140	6.2	630	500	400

Designation		Maximum Recommended Working Tension (Vulcanized Splice)	Nominal Carcass Thickness	Recommended Minimum Pulley Diameters (mm)> 60% to 100% of RMBT used		
Type	Rating	kN/m²	mm	A	B	C
For Heavy Duty Application	250/2	25	2.9	250	200	160
	315/3	31.5	3.3	315	250	200
	400/3	40	3.9	400	315	250
	500/3	50	4	400	315	250
	500/4	55	5.1	500	400	315
	630/3	70	4.2	400	315	250
	630/4	70	5.5	630	500	400
	800/4	90	5.7	630	500	400
	800/5	90	6.2	630	500	400
	1000/4	110	6.7	630	500	400
	1000/5	110	6.8	630	500	400
	1250/4	140	6.8	630	500	400
	1250/5	140	7.4	800	630	500
	1400/4	155	7.5	800	630	500
	1600/4	180	7.7	800	630	500
	1600/5	180	8.1	800	630	500
	2000/5	220	10.2	1000	800	630

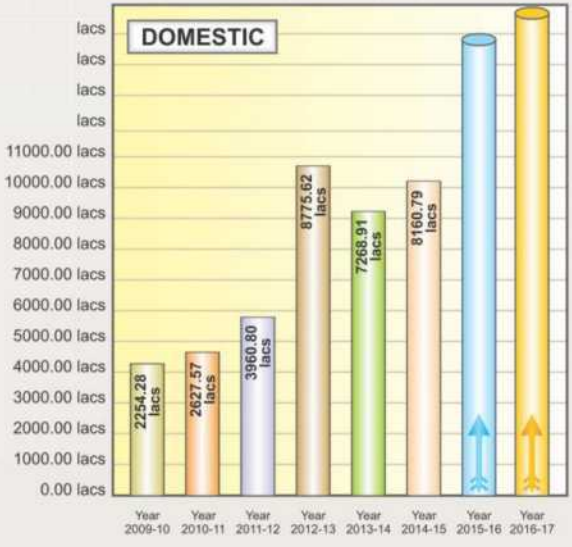
POLYESTER - NYLON (EP)

Designation		Maximum Recommended Working Tension (Vulcanized Splice)	Nominal Carcass Thickness	Recommended Minimum Pulley Diameters (mm)> 60% to 100% of RMBT used		
Type	Rating	kN/m²	mm	A	B	C
For General Duty & Medium Duty Application	315/3	31.5	3.2	315	250	200
	400/3	40	3.3	400	315	250
	500/3	55	3.8	400	315	250
	500/4	55	4.7	500	400	315
	630/3	70	4.1	500	400	315
	630/4	70	4.9	500	400	315
	800/4	90	5.5	630	500	400
	800/5	90	5.9	630	500	400
	1000/4	110	6.8	800	630	500
	1000/5	110	6.9	800	630	500
	1250/4	140	7.3	800	630	500

Designation		Maximum Recommended Working Tension (Vulcanized Splice)	Nominal Carcass Thickness	Recommended Minimum Pulley Diameters (mm)> 60% to 100% of RMBT used		
Type	Rating	kN/m²	mm	A	B	C
For Heavy Duty Application	250/2	25	3	315	250	200
	315/3	31.5	4.1	500	400	315
	400/3	40	4.2	500	400	315
	500/3	55	4.5	500	400	315
	500/4	55	5.7	630	500	400
	630/3	70	5	630	500	400
	630/4	70	6.1	630	500	400
	800/4	90	6.6	800	630	500
	800/5	90	6.9	800	630	500
	1000/4	110	7.5	800	630	500
	1000/5	110	7.7	800	630	500
	1250/4	140	8.2	1000	800	630
	1250/5	140	8.5	1000	800	630
	1500/5	165	8.7	1000	800	630
	1600/4	180	8.5	1000	800	630
	2000/4	220	10.4	1250	1000	800
	2000/5	220	10.5	1250	1000	800
	2500/5	280	13.3	1600	1250	1000

Value of carcass thickness and carcass weight are nominal only and subject to change if required for improved belt performance.

OUR GROWTH



OUR PRESENCE IN GLOBLE MARKET

SOMIFLEX®

पधारो म्हारे देश...!

An ISO 9001 Company

SOMI CONVEYOR BELTINGS LTD.

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