ELASTOCON

CONVEYING CONTINUOUSLY

BELTING DIVISION OF

ROYAL ELASTOMERS

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CONVEYING CONTINUOUSLY

ABOUT US

With a twenty-year history of excellence and a commitment to cutting-edge technology, Elastocon, a division of Royal Elastomers, stands at the forefront of delivering innovative solutions that revolutionize material handling processes across diverse industries. Our belts are designed with the core principles of reliability, durability, and safety. They are manufactured with fabric used as reinforcement, guaranteeing superior strength and seamless material handling even in the most demanding industrial settings.

At Elastocon, we combine extensive industry knowledge with advanced facilities to produce conveyor belts adhering to the highest industry standards through stringent quality control. We understand that every operation is unique, and our conveyor belts can be tailored to match the exact requirements of your operations, ensuring optimal performance and efficiency. With expertise and experience, we produce robust and reliable conveyor systems for various industries, including Cement, Steel, and Mining.

We are your partner in progress, dedicated to helping businesses achieve their goals through efficient material handling solutions. With a relentless commitment to quality, innovation, and customer satisfaction, we continue to lead the way in the conveyor belt industry, setting new standards for excellence.

VISION

With our emphasize on high quality on-time production by offering material handling solution, we foresee a production capacity of 4,50,000 metres of belt per annum approximately in the second phase projected after 3 years.

MISSION

We are on a mission to bring constant innovation in the lifelines of manufacturing process to help industries across the world convey goods better. We commit to serve our customers' comprehensive needs & believe in building partnerships that help their businesses succeed.

CORE VALUES

INTEGRITY

INNOVATIVE

QUALITY

ECONOMICAL

RELIABILITY

CUSTOMER COMMITMENT

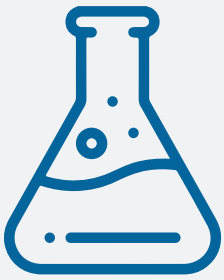
PROGRESSIVE

PASSION

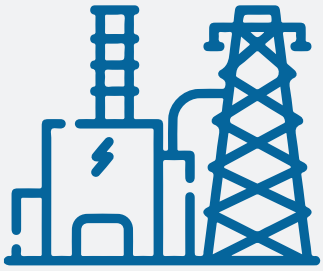
INFRA

- 25+ Years of Experience in Rubber Industry
- 11 Acres of Land
- 6000 MT Of Rubber Compounding Per Annum
- 75K+ Covered Shed Area
- 2 Lac+ Meter Annual Capacity

APPLICATIONS



Chemical

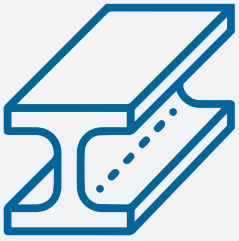


Power

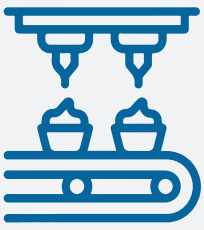
Mining

Packing

Cement



Steel



Food

PLANT AND MACHINERIES

- Banbury Mixer (75 litres)
- Belt Building Machine (2,200mm x 11m)
- Rubber Curing Press Double Daylight (1,430mm X 11m)
- Four Roll Calender (28" x 76")
- Kneader (55 litres)

TESTING FACILITIES

- Drum Friction Test for F.R Belts
- Troughability
- Electrical Surface Resistance
- Adhesion Test through Tensile Tester
- Volume Swelling for Oil Resistant Belt (O.R. Belts)
- Measuring thickness of a) cover & b) belt via micrometre Gauge method or Optical Method
- Tensile strength & the Elongation at break of Rubber cover through Tensile tester
- Flame Test via Bunsen Type Burner (F.R Belts)
- Elongation at 10% load
- DIN Abrasion and Sample testing

OUR PRODUCTS

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Some of the common Fabrics and Polymers used in belt manufacture and their general characteristics are indicated below:

FABRIC RANGE

Nylon (1)	Polyamide, High Strength, Modulus, Fatigue Resistance, Impact Resistance, Resistance To Mildew, Very Good Weft Material.
Polyester (2)	Polyester, High Strength, Modulus, Fatigue Resistance, Impact Resistance, Resistance To Mildew, Good Wrap Material.
Glass	High Strength, Low Elongation, Poor Impact Resistance, Limited Use In Hot Application.

FABRIC RANGE

Nylon/ Nylon (NN)	NN-100, NN-125, NN-160, NN-200, NN-250, NN-300, NN-350 & NN-400
Polyester/ Nylon (EP)	EP-100, EP-125, EP-160, EP-200, EP-250, EP-350, EP-400
Polyester/ Polyester (EE)	EE-100, EE-125, EE-160, EE-200, EE-250, EE-300, EE-350

BELTS DESCRIPTION

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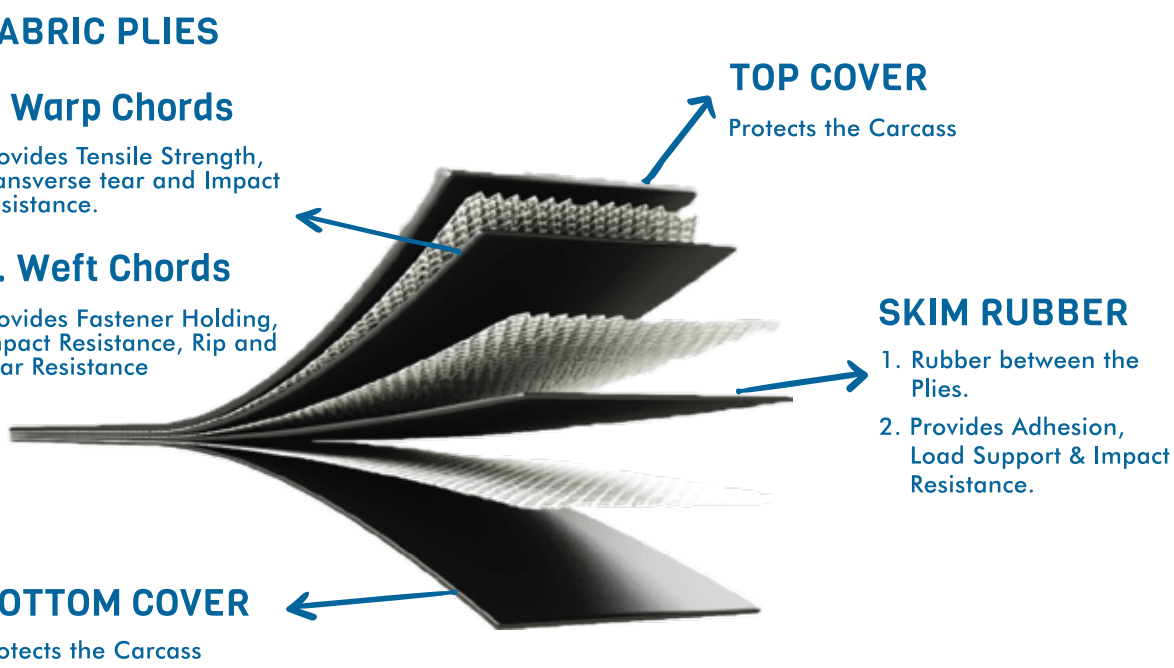

CARCASS - It provides the belt with necessary tensile strength and a structure necessary to move the Loaded Belt. It is Made Of a number of Rubberized Plies Bonded Together, Such As Cotton - Cotton, Cotton-Nylon, Nylon- Nylon, And Polyester – Nylon Fabric.

RUBBER COVER TOP - It protects the carcass mainly from any impact damage such as, wear, cut and tear caused by material conveyed. It protects and provides strength to fight against the effects of oil, heat, flame, and chemicals.

RUBBER COVER BOTTOM - It provides a good coefficient of friction between the belt and the pulley. It also protects the carcass from the wear and tear caused by the impact damage from the idlers during transportation of materials from point A to point B.

SKIM COATING - It protects fabric layers against Chafing by separating them and providing adequate bonding between different layers of fabric. It also provides a certain amount of load support and cushioning effect of impact on loading a material

BREAKER - A Breaker is recommended for applications involving a high impact of material on the conveyor belt. Due to its weaving nature, the breaker disburses impact force in different directions thereby resisting the effect of impact force on a particular point and thereby saving the carcass from the impact damage.
saving the carcass from the impact damage.

RUBBER COVER GRADES

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M-24 - M-24 is compounded by premium quality natural rubber to provide excellent resistance to cutting, gouging, wear & tear and conforms to the maximum abrasion loss value and minimum tensile strength specified.

N-17 - N-17 is formed when rubber is compounded with improved flex for moderately abrasive materials conforming to the maximum abrasion loss value & minimum tensile strength specified.

SAR - SAR is specially formulated to provide excellent resistance to highly abrasive materials against wear and tear.

HR T1 - HR T1 is formed when rubber is compounded to withstand thermal degradation for prolonged periods and recommended for handling materials like Alumina, Ash, Clinker, Foundry sand, etc. at temperatures ranging from 65 degrees Celsius to 125 degrees Celsius for coarse and upto 150 degrees Celsius for fines.

SHR T2 - This Grade has been specially formulated using selected Synthetic and Natural Rubber to provide superior heat and abrasion resistance and is recommended for handling materials like foundry sand, clinker, coke breeze and sinter with temperatures over 150 degrees Celsius to 180 degrees for coarse and fines.

SHR T3 - SHR T3 is specially formulated using selected synthetic and natural rubber to provide superior ultra-heat resistance and is recommended for handling materials like hot cement, clinker, phosphate hot sintered ore with temperatures over 180 degrees Celsius for coarse and 250 degrees for fines.

FIRE RESISTANT - This grade offers fire resistance and antistatic properties with a very low rate of burning.

OIL RESISTANT - These grade belts are designed to provide best possible resistance against mineral, vegetable and animal oils.

FOOD GRADE - The Food Grade belt is used to handle confectionary food pharmaceuticals and tea etc. This cover grade is made non-toxic, tasteless and odourless.

Belt Type	Belt Grade	Applicable Standards	Tensile Strength	Elongation at Break	Maximum Abrasion Loss	Type of Polymer	Application
			mPa (minimum)	%minimum	mm^3		
General Purpose and Abrasion Resistant Belts	N17	IS-1891 (Part-1)	17	400	200	NR	Where fairly abrasive material such as rubble, soda, earth, smooth sand, charcoal, unslaked lime, cement, ready mix, Dry lumps, wood chips, Grain flour, Dry inert powder, chalk,coal, and ashes are conveyed under standard working condition
	M24	IS-1891 (Part-1)	24	450	150	NR	Where highly abrasive material such as large size ore, crushed metallic ore, coke, limestone, granite, cold clinker, all types of slacks, sandstones, quartz, broken glass gravel are conveyed under average working condition
	SAR-90	DIN-22102	18	400	90	PBR	Where extremely high abrasive material such as cold clinker, cold sinter, mortar, hark rock large lump ores etc. are conveyed.
Heat Resistant Belts	HR-T1	IS-1891 (Part-2)	12.5	350	150	NR/SBR	Where hot materials like hot coke, foundry sand, iron pellets, sintered ore, hot limestone, cement, clinker, soda ash and fertilizers is conveyed.
	SHR-T2	IS-1891 (Part-2)	12.5	350	150	SBR	
	SHR-T3	Elastocon	12.5	350	150	SBR/ EPDM Blend	Where extremely hot materials like cement clinker, sintered ore etc. are conveyed
	UHR	Elastocon	12.5	350	150	EPDM	
Fire Resistant Belts	FR	IS-1891 (Part 1 & 5) CAN/CSA /M422/M87 ISO-340	17	350	150	NR/SBR/ NBR/CR Blend	In Coal handling plants, Thermal Power stations. Above ground and open cast mining. Underground mines with low risk applications
Oil Resistant Belts	OR	IS-1891 (Part 3)	12	250	150	NBR Blend	Where oily & greasy material such as oily vegetables, oily wooden chips grains, refuse, fertilizers coated with neem oil, coated coke/coal are conveyed.
	OHR	Elastocon	12	350	150	NBR/SBR Blend	Where hot oily materials are conveyed. 125 degree centi-grade for lumps and 100 degree centigrade for fines.

SPECIAL PURPOSE BELTS

ROUGH TOP CONVEYOR BELT

Introducing our special rough top conveyor belts, featuring a wear-resistant rubber top surface with a distinctive rough impression. These belts are engineered with thousands of flexible gripping fingers, providing an exceptional grip to securely hold packaged products or units even when being transported up or down at steep incline angles of up to 35 degrees. Their primary application lies in the transportation of lightweight goods such as sacks, boxes, parcels, and packages/bags on steep inclines, effectively preventing slippage. Moreover, they offer a cushioning effect, effectively mollifying and absorbing vibrations.

Our range includes two-ply and three-ply options, constructed with cut edges and available in carcass types of NN and EP fabric. This diverse offering ensures that our conveyor belts cater to a wide array of industry needs and preferences.

APPLICATION

- Used In Transportation Of Light Weight Goods On Inclined Surfaces.

BENEFITS AND FEATURES

- Provides excellent grip between belt top surface and packages
- Creates a lower friction coefficient, perfect for running over tables and flat panels
- Special mesh-like pattern generates a relief effect, absorbing vibrations and preventing material slippage
- Odorless, nontoxic, and non-marking
- Primarily used in flight loaders and lorry loaders

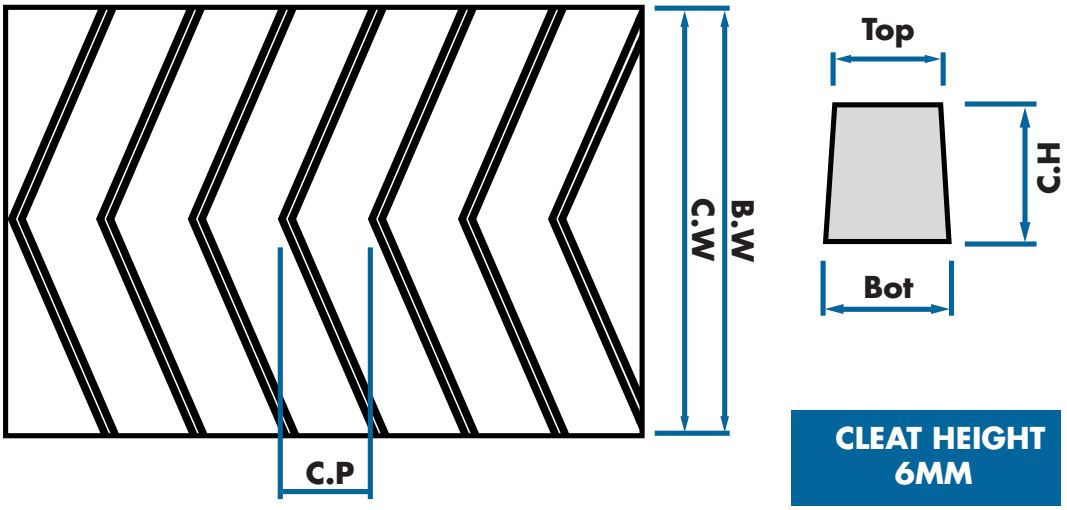
CHEVRON CONVEYOR BELTS

We offer Chevron conveyor belting designed for applications where the inclination angle is too high and there is a risk of the conveying material rolling backwards. Our Chevron conveyor belting is specifically engineered to prevent material from sliding backwards.

The special profiles of our Chevron belts allow for increased angles, enabling the easy and effective conveyance of packed and unpacked material compared to smooth surface belts. Our Chevron belts can incline up to 35-40 degrees, featuring 15mm cleat height in V, Y, and U profiles. The cleat angle and pitch are meticulously designed to ensure smooth travel over return idlers. These belts are primarily used to convey loose materials such as sand, fine coal, and grain. They are also utilized in concrete batching plants, stone quarries, road scalpers, and truck/wagon loading systems.

Our standard widths range from 500mm wide to 1200mm wide, catering to a wide range of industry needs and applications. Currently we are offering:

FULL WIDTH V-CLEAT



CLEAT HEIGHT 6MM

C.H (MM)	C.W (MM)	C.P (MM)	B.W (MM)	CLEAT TOP-BOTTOM
6	FULL	100	500-1200	10-16

BELT'S CONSTRUCTION

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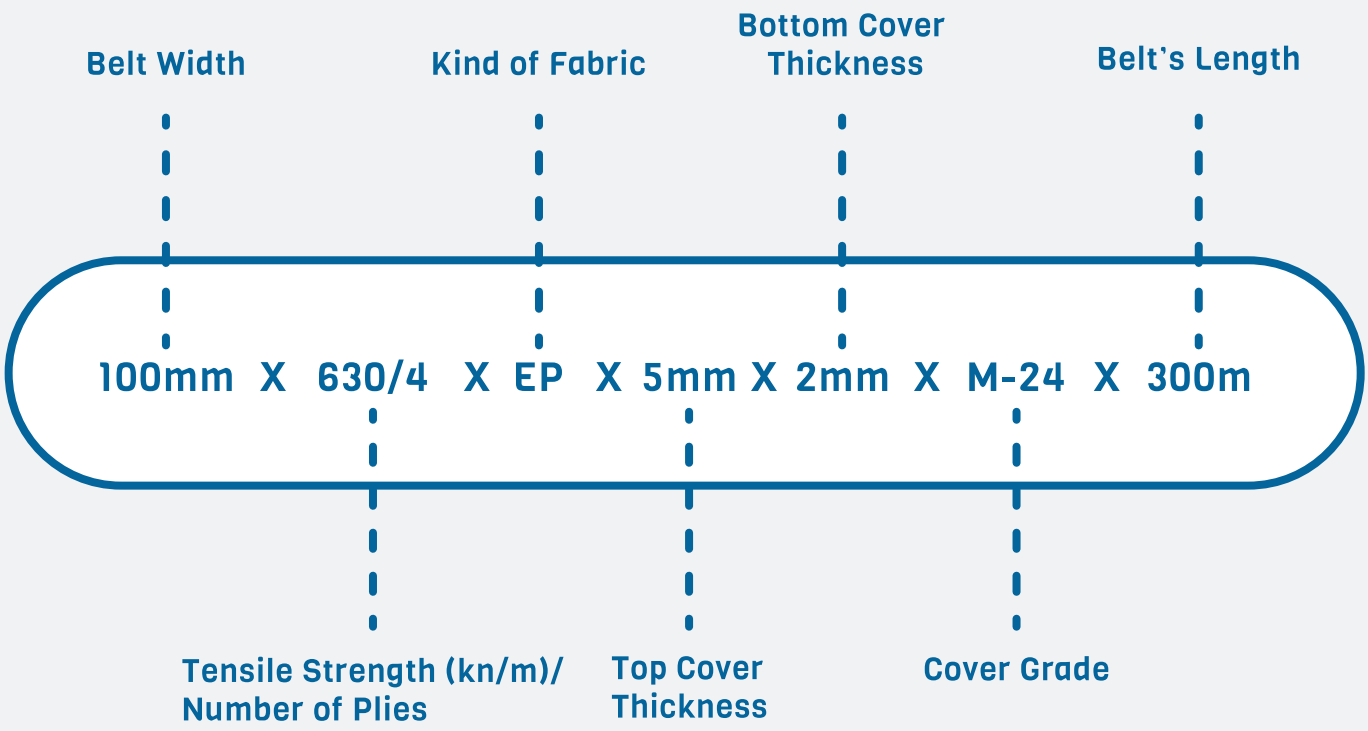

OUR MANUFACTURING RANGE

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WIDTH	350mm TO 1600mm
LENGTH	MIN. 100m TO AS PER CUSTOMER REQUIREMENT
EDGES	CUT EDGE OR MOULD EDGE
ENDS	OPEN END OR ENDLESS
FABRIC REINFORCEMENT	NYLON/NYLON OR POLYESTER/NYLON
PLIES	3 TO 8 PLIES
DUTY	GENERAL, HEAVY, EXTRA HEAVY
CARCASS CONSTRUCTION	STRAIGHT PLY/STEEPED PLY/ REVERSE STEPPED PLY
COVER THICKNESS	AS PER CUSTOMER REQUIREMENT
COVER GRADE	M-24, N-17, SAR, HR-T1, HR-T2, HR-T3, UHR, OR, FR
ROUGH TOP PROFILES	ROUGH TOP/WAVY TO
COVER GRADE	AS PER IS-1891(PART I, II, III, IV, V), DIN-22102, ISO-340, CAN/CSA/M422/M-870 OF 1987-TYPE-C
CHEVRON CLEATED	V-CLEATS, U TYPE CLEATS (Y-1, Y-2)

BELT SELECTION CHART (N/N)

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Belt Designation		Full Belt Tensile Strength	Max. Recommeded Working Tension (KN/M)		Nominal Carcass Thick-ness	Nominal Carcass Weight	Max. Belt Width(mm) For Adequate Load Support with Bulk Density			Minimum Belt Width (mm) for adequate Troughing		
Type	Rating	KN/M	Vulcanized Splice	Mechanical Fasteners	MM	KG/M	Upto 1.0T/ M3	Upto 1.5 T/M3	Upto 2.5 T/M3	20° Troughing Angle	30° Troughing Angle	45° Troughing Angle
General Duty (GD)	200/2	200	20	20	2.40	2.80	650	500	-	300	400	500
	250/2	250	25	25	2.50	2.90	650	600	-	300	400	500
	315/2	315	31	31	2.70	3.15	900	650	500	300	400	500
	315/3	315	31	31	3.10	3.65	1000	800	650	400	500	500
	400/3	400	40	40	3.40	4.00	1200	900	650	500	500	500
	400/4	400	40	40	4.20	5.00	1200	900	650	500	500	500
	500/3	500	50	-	3.60	4.25	1200	900	650	500	500	500
	500/4	500	50	-	4.30	5.00	1200	900	650	500	500	500
	630/3	630	63	-	3.80	4.45	1200	1000	800	500	500	500
	630/4	630	63	-	5.00	6.00	1200	1000	800	500	500	500
Heavy Duty (HD)	200/2	200	20	20	2.60	3.25	800	650	500	400	400	500
	250/2	250	25	25	2.80	3.50	800	650	500	400	400	500
	315/2	315	31	31	3.00	3.50	1000	800	650	400	500	500
	315/3	315	31	31	3.50	4.10	1200	1000	800	500	500	500
	400/2	400	40	40	3.20	3.75	1200	1000	800	500	500	500
	400/3	400	40	40	3.60	4.25	1200	1000	800	500	500	650
	400/4	400	44	40	4.50	5.30	1200	1000	800	500	500	650
	500/3	500	50	-	4.10	4.80	1400	1000	800	500	500	650
	500/4	500	55	-	4.50	5.30	1400	1200	900	500	650	650
	630/3	630	63	-	4.20	4.80	1600	1400	1200	650	800	800
	630/4	630	70	-	5.40	6.40	1600	1600	1400	650	900	900
	800/4	800	90	-	5.80	6.85	1600	1600	1400	650	800	900
	800/5	800	90	-	6.40	7.60	1800	1800	1800	750	900	1000
	1000/4	1000	110	-	6.00	7.10	1800	1800	1800	800	900	1000

BELT SELECTION CHART (N/N)

ELASTOCON
CONVEYING CONTINUOUSLY

Belt Designation		Full Belt Tensile Strength	Max. Recommeded Working Tension (KN/M)		Nominal Carcass Thick-ness	Nominal Carcass Weight	Max. Belt Width(mm) For Adequate Load Support with Bulk Density			Minimum Belt Width (mm) for adequate Troughing		
Type	Rating	KN/M	Vulcanized Splice	Mechanical Fasteners	MM	KG/M	Upto 1.0T/ M3	Upto 1.5 T/M3	Upto 2.5 T/M3	20° Troughing Angle	30° Troughing Angle	45° Troughing Angle
General Duty (GD)	1000/5	1000	110	-	7.00	8.30	1800	1800	1800	800	900	1000
	1250/4	1250	140	-	6.50	7.70	1800	1800	1800	800	900	1000
	1250/5	1250	140	-	7.40	8.80	1800	1800	1800	900	900	1000
	1400/4	1400	155	-	7.00	8.40	2000	1800	1600	750	800	1000
	1400/5	1400	155	-	7.70	9.20	2000	1800	1800	800	900	1200
	1600/4	1600	176	-	7.20	8.60	2000	2000	2000	800	900	1000
Extra Heavy Duty (EHD)	400/4	400	44	-	4.80	5.70	1200	1000	800	500	500	500
	500/4	500	55	-	5.00	6.00	1400	1000	900	500	500	500
	630/4	630	70	-	5.60	6.65	1400	1200	1000	500	500	500
	800/4	800	90	-	6.00	7.10	1600	1400	1050	500	500	650
	800/5	800	90	-	6.80	8.00	1600	1600	1200	600	650	800
	1000/4	1000	110	-	6.20	7.30	1800	1400	1200	600	750	900
	1000/5	1000	110	-	7.20	8.50	1800	1600	1400	750	900	1000
	1250/4	1250	140	-	6.80	8.00	1800	1600	1400	750	800	900
	1250/5	1250	140	-	7.60	9.00	1800 2000	1800	1600	800	900	1000
	1400/4	1400	155	-	7.20	8.50	2000	1800	1600	750	800	1000
	1400/5	1400	155	-	8.00	9.50	2000	1800	1800	800	900	1200
	1600/4	1600	176	-	7.50	8.90	2000	2000	2000	800	900	1000

BELT SELECTION CHART (E/P)

ELASTOCON
CONVEYING CONTINUOUSLY

Belt Designation		Full Belt Tensile Strength	Max. Recommeded Working Tension (KN/M)		Nominal Carcass Thick-ness	Nominal Carcass Weight	Max. Belt Width(mm) For Adequate Load Support with Bulk Density			Minimum Belt Width (mm) for adequate Troughing		
Type	Rating	KN/M	Vulcanized Splice	Mechanical Fasteners	MM	KG/M	Upto 1.0T/ M3	Upto 1.5 T/M3	Upto 2.5 T/M3	20° Troughing Angle	30° Troughing Angle	45° Troughing Angle
General Duty (GD)	315/3	315	31.50	31.50	3.30	3.85	1200	1000	800	500	500	500
	400/3	400	40.00	40.00	3.50	4.20	1200	1000	800	500	500	650
	400/4	400	40.00	40.00	4.40	5.25	1200	1000	800	500	500	650
	500/3	500	55.00	-	3.80	4.50	1400	1000	800	500	500	650
	500/4	500	55.00	-	4.60	5.50	1400	1200	900	500	650	650
	630/3	630	70.00	-	4.50	5.30	1600	1400	1200	650	800	800
	630/4	630	70.00	-	5.30	6.30	1600	1600	1400	650	800	900
Heavy Duty (HD)	315/3	315	31.50	31.50	3.60	4.30	1200	1000	800	500	500	500
	400/3	400	40.00	40.00	3.80	4.50	1200	1000	800	500	500	500
	400/4	400	40.00	40.00	4.60	5.50	1200	1000	800	500	500	500
	500/3	500	55.00	-	4.20	5.00	1400	1000	800	500	500	500
	500/4	500	55.00	-	5.00	6.00	1400	1000	900	500	500	500
	630/3	630	70.00	-	4.80	5.70	1400	1200	1000	500	500	500
	630/4	630	70.00	-	5.80	6.80	1400	1200	1000	500	500	500
	800/4	800	90.00	-	6.40	7.60	1600	1400	1050	500	500	650
	800/5 800	800	90.00	-	7.00	8.30	1600	1600	1200	600	650	800
	1000/4	1000	110.00	-	6.50	7.70	1800	1400	1200	600	750	900
	1000/5	1000	110.00	-	7.40	8.75	1800	1600	1400	750	900	1000
	1250/4	1250	140.00	-	7.00	8.30	1800	1600	1400	750	800	900
	1250/5	1250	140.00	-	8.00	9.50	1800	1800	1600	800	900	1000
	1400/4	1400	145.00	-	7.50	8.90	2000	1800	1600	750	800	1000
	1400/5	1400	145.00	-	8.20	9.70	2000	1800	1800	800	900	1000
	1600/4	1600	180.00	-	7.80	9.25	2000	2000	2000	800	900	1000

BELT SELECTION CHART (E/P)

Belt Designation		Full Belt Tensile Strength	Max. Recommeded Working Tension (KN/M)		Nominal Carcass Thick-ness	Nominal Carcass Weight	Max. Belt Width(mm) For Adequate Load Support with Bulk Density			Minimum Belt Width (mm) for adequate Troughing		
Type	Rating	KN/M	Vulcanized Splice	Mechanical Fasteners	MM	KG/M	Upto 1.0T/ M3	Upto 1.5 T/M3	Upto 2.5 T/M3	20° Troughing Angle	30° Troughing Angle	45° Troughing Angle
Extra Heavy Duty (EHD)	1000/4	1000	110.00	-	6.60	7.80	1800	1400	1200	600	750	900
	1000/5	1000	110.00	-	7.50	9.00	1800	1600	1400	750	900	1000
	1250/4	1250	140.00	-	7.10	8.50	1800	1600	1400	750	800	900
	1250/5	1250	140.00	-	8.10	9.40	1800	1800	1600	800	900	1000
	1400/4	1400	154.00	-	7.60	9.10	2000	1800	1600	750	800	1000
	1400/5	1400	154.00	-	8.40	10.00	2000	1800	1800	800	900	1200
	1600/4	1600	180.00	-	8.00	9.30	2000	2000	2000	800	900	1000

RECOMMENDED MINIMUM PULLEY DIAMETERS

Carcass Thickness				Recommended Minimum Diameter in mm for percentage for *RMBT Used								
Polymide Polyamide		Polyester/ Polyamide		Over 60 upto 100 percent Type of Pulley			Over 30 upto 60 percent Type of Pulley			Upto 30 percent Type of Pulley		
From	To	From	To	A	B	C	A	B	C	A	B	C
-	1.1	-	0.9	100	-	-	-	-	-	-	-	-
1.2	1.3	1	1.1	125	100	-	100	-	-	-	-	-
1.4	1.7	1.2	1.4	160	125	100	125	100	-	100	100	-
1.8	2.2	1.5	1.8	200	160	125	160	125	100	125	125	100
2.3	2.7	1.9	2.3	250	200	160	200	160	125	150	160	125
2.8	3.5	2.4	2.9	315	250	160	250	200	160	200	200	160
3.6	4.4	3	3.7	400	315	250	315	250	200	250	250	200
4.5	5.5	3.8	4.6	500	400	315	400	315	250	315	315	250
5.6	7	4.7	5.8	630	500	400	500	400	315	400	400	315
7.1	8.8	5.9	7.4	800	630	500	630	500	400	500	500	400
8.9	11.1	7.5	9.2	1000	800	630	800	630	500	630	630	500
11.2	13.8	9.3	11.5	1250	1000	800	1000	800	630	800	800	630
13.9	15.5	11.6	12.9	1400	1250	1000	1250	1000	800	1000	1000	800
15.6	17.7	13	14.8	1600	1250	1000	1250	1000	800	1000	1000	800
17.8	20	14.9	16.6	1800	1400	1250	1400	1250	1000	1250	1250	1000
		16.7	18.5	2000	1600	1250	1600	1250	1000	1250	1250	1000

"A"- Drive/ Head Pulley
"B"- Tail/ Take-up/ H.T. Snubs & Bend Pulleys
"C"- L.T. Snub & Bend Pulleys

ELASTOCON

CONVEYING CONTINUOUSLY

BELTING DIVISION OF
ROYAL ELASTOMERS

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