

JONSON

Insight

*India's Largest Conveyor
Solutions Provider*

India's Largest Conveyor Solution Provider



INTRODUCTION

A journey in which young independent India is now recognized for its human and technological process. From a desire to achieve self reliance in products, technology and services, the Jonson brand is now visible in every corner of the world.

Like India, JONSON has evolved with time into a Customer focussed and Globally competitive manufacturer. We have been a leading innovator in the advancement of compound, reinforcement and belt monitoring technologies. Today with our global associations our in house capabilities our endeavour to become a One Stop Solution for Clients has become a reality.

JONSON today offers clients the entire spectrum of requirements from Product, Support and Allied Services. Jonson is a true One-Stop Belt Shop providing services and solutions to help process and convey an extraordinary range of products. Our success is based on our close cooperation with customers and the control we have over the full value chain – design, manufacturing, fabrication, sales and you can find all the belting products and services you need from Jonson Rubber, saving you time and money on purchasing and logistics. Purchasing and logistics, we can offer you the right solutions.

The underlying strength in our progress has been resilience and flexibility – much akin to the rubber we mould. With the spirit of enterprise and innovation and our proud lineage we aim to build a sustainable legacy which upholds the superiority of its product and preserves its commitment to provide conveyor belts with unparalleled prices and quality.

RUBBER CONVEYOR BELTS

GENERAL PURPOSE CONVEYOR BELTS

Special features

- Unique Carcass Construction
- Superior Adhesion Levels
- Improved Flex Life
- Low Belt Stretch
- Excellent Impact Resistance
- Improved Resistance to Mechanical Damage
- Mildew, Moisture & Rot Resistance
- Improved Resistance to Ozone and Ultra Violet Radiation
- Improved Efficiency of Joints
- Improved Tear Resistance & Excellent Troughability
- Suitable for all Applications

Available Grades

GENERAL LIGHT DUTY SERVICE

Common References : DIN – Z

very economical for Moderately abrasive / small size material

MEDIUM ABRASION RESISTANCE

Common References : DIN - Y, N, RMA2, BS - N 17, AS – N & JIS – G

Recommended for moderate abrasion resistance applications, mostly above ground. Regularly used for transportation of Coal, crushed ores, limestone, bauxite, sand, cements etc.

HIGH ABRASION RESISTANCE

Common References : DIN - X, M, RMA 1, BS – M24, AS – M, JIS – S

Excellent abrasion resistance against cutting, gouging, heavy impact, during transportation of heavy rocks, sharp stones and highly abrasive materials.



WIDTH	→	Upto 2400mm
LENGTH	→	As per requirement
ENDS	→	Open or Endless
EDGES	→	Cut or Moulded / Protected
FABRIC PILES	→	2 to 10 in Polyester/Nylon (EP), Nylon/Nylon (NH), Cotton/Nylon (CN) or Cotton/Cotton (CC)
CARCAS CONSTRUCTION	→	Straight Ply / Stepped Ply / Reverse Stepped Ply
COVER THICKNESS	→	As per Customer Specification
COVER GRADES	→	M-24, N-17, HR, SHR, OR, Hygienic & FR
CHEVRON COVERS	→	Rough/Pimpled, V/C Cleats

Super Abrasion Resistance

- Common References : DIN – W
- Recommended in extremely abrasive applications such as Copper & gold ore, sinter, coke. It provides high resistance without increasing cover thickness and weight of the belt. Oil Resistant (OR) & Moderately Oil Resistant (MOR)
- Specifically used for transportation of specific materials with high / moderate concentration of animal or vegetable fats. The special compound used in the covers, avoids damage / swelling of belt also during transportation of material with pine oil, wood oil, olive oil, petroleum etc.

FIRE RESISTANCE CONVEYOR BELTS

In order to cater to varying levels of fire resistance in line with various domestic and international standards, Jonson has developed range of fire resistant belts which we promote as Jonson Fire Resistant (JFR). This range includes belts suited for underground use and specialized belts with low smoke and toxicity.

Fire Resistant belts commonly used in handling coal over ground in coal mines, thermal power plants and in underground coal mines. Fire Resistant belts are similarly used for conveying other materials which are prone to ignition during use.

Cover Type	Standard & Grade	Minimum Tensile Strength(Mpa)	Minimum Elongation at Break(%)	Minimum Abrasion Loss (mm ³)	Application Characteristics	Reference Material
J-FR1	SANS-F ISO-340 DIN K #DIN S	17 17 17 17	350 350 350 350	180 180 180 180	Excellent resistance to flame propagation and has very low burning rate.	Materials with Fire Hazards
J-FR2	AS-F CAN/CSA- C IS-FR MSHA-FR	14 17 17 17	300 350 350 350	200 200 200 200	Good resistance to flame propagation and has very low burning rate.	eg.Coal
J-FR3	FR(UG) FR(SAR) FR(OR) FR(HR)	12 15 15 15	350 450 400 450	100 65 200 200	Oil Swell in Fuel B 70% Max Heat Resistance upto 150oC	Varied applications

Product Characteristics

Common widths	→ 500 mm to 2400 mm
Carcass Variety Available	→ EP/NN/PP
Common Belt Rating	→ 200 to 2500 KN/M
No. Of Plies	→ 2 ply to 6 ply
Rubber Cover Grades	→ Refer table
Rubber Cover thickness	→ Minimum 1.0 mm to 20 mm
Rubber	→ Black
Surface Finish	→ Smooth both sides
Edge	→ Cut Edge or Molded Edge
Splicing Method	→ Hot splice joint / Mechanical splice
Packing Available in	→ Cassette / Single Roll
Belt Identification	→ Unique product identification number (PIN) at every 10m

Advantages

- Reduces the risk of fire hazard and potential loss to human life, material and installation.
- Fire resistant belts are Anti-Static.
- Easy to splice or require using standard materials.

HEAT RESISTANCE CONVEYOR BELTS

Jonson heat resistant conveyor belts have been developed and refined over many years so that they are more than capable of meeting the demands of even the most extreme conditions, which in some cases can involve temperatures as high as 400°C. High temperatures of conveying material can do serious damage to the conveyor belt carcass itself damaged.

Cover Type	Cover Grade	Tensile Strength	Elongation at break	Abrasion Loss	General Application	Ref. Standards
Heat Resistance	HR	125	350	250	Suitable for Transporting hot material (upto 125 C for coarse & 100 C for fine material)	As per International Standards & BIS-1891 (Part 11)
	SHR (T1)	125	350	250	Suitable for Transporting hot material (upto 150 C for coarse & 125 C for fine material)	
	SHR (T2)	125	350	250	Suitable for Transporting hot material (upto 180 C for coarse & 150 C for fine material)	
	UHR (T1)	100	300	250	Suitable for Transporting hot material (upto 250 C for coarse & 200 C for fine material)	
	UHR (T2)	100	300	250	Suitable for Transporting hot material (upto 350 C for coarse & 300 C for fine material)	
UHR(T3)	FOR UHR(T3) PLEASE CONTACT THE COMPANY					

OIL RESISTANT CONVEYOR BELTS

As per generic condition, oils and greases have a very destructive impact on rubber, however, materials that contain oil or grease are daily conveyed. In order to protect rubber components in the conveyor belts from swelling, types of rubber that are resistant to oil and grease should be applied. Since not all oil and grease types are equally aggressive, the engineers at JONSON have developed different types of belts to meet all the requirements.

Oil and grease resistant conveyor belts are suitable for:-

- Concrete plants
- Recycling and mineral processing plants, waste sorting and compost machines
- Improved Flex Life
- Metal processing industry, scrap recycling
- Timber industry and sawmills
- Excreta and sewage sludge conveying
- Corn, Grape and soilages conveying
- Paper industry



HYGIENIC / FOOD GRADE CONVEYOR BELTS

JONSON offer a wide range of Rubber, Nitrile, PVC, PE conveyor belts. We will solve your food-grade conveyor belting challenges across baking and food processing applications including special profiles for dough handling, belts that are grease and oil resistant, and non-stick cut-and-gouge resistant FDA/USDA belts.

Advantages

- No modules, links, hinges or crevices that harbor bacteria and deposit fragments into the food
- No seams or plies that fray and delaminate; no detachment of flights and guides common plied belts
- Easily cleaned in place in very short time
- Reduced cleaning costs (labour, water, chemicals, wastewater treatment) and downtime
- Reduced loss of food
- Consistent hygiene level over time
- Lower bacteria counts, cleaner product, less investment in conforming to standards, longer product shelf life; suited to HACCP

Grades and benefits of our food grade products

JONSON FOOD GRADE : MAXFLEXX - PRIME

- Moisture Resistant
- Boiling Water resistant
- Oil Resistant
- Heat Resistant up to 125°C
- Chemical Resistant
- Anti-Static
- No Ply Separation
- No Elongation
- Energy Efficient

JONSON FOOD GRADE : MAXFLEXX - SUPERIOR

- Moisture Resistant
- Boiling Water resistant
- Oil Resistant
- Heat Resistant up to 125°C
- No Ply Separation
- No Elongation

JONSON FOOD GRADE : MAXFLEXX - ECO

- Moisture Resistant
- Boiling Water resistant
- Oil Resistant
- No Ply Separation
- No Elongation

JONSON FOOD GRADE EXTRAORDINARY FEATURES

- The Belt has no odor and no taste, whereas rubber belts have bad odor
- While using rubber belting, small particles of rubber mix up with food during the process which doesn't happen with this belt
- The belt is light weight one which saves power hence make it energy efficient.
- The Belt is water resistant, oil resistant and does not get effected by crude oil whereas nylon woven belts get heavier due to absorption of water and crude oil
- The Belt can be used up to a temperature of 125°C
- No ply separation
- No Elongation

Constructional features

Available in different colours; white, Blue, Black, and Silver. The belt is available in 1 to 10 plies up to a length of 300 meters or as per customer request with the width up to 2000mm.

Applications:

Fruits | Vegetables | Meats | Poultry | Fish | Beverages | Grains | Nuts | Candles | Breads | Pastries | Cereals | Rice | Sugar | Dairy Plants | Pharmaceuticals

Conveyor Styles:

Smooth | Matte Finish | Rough Top | Chevron Top

Cover Compounds:

Nitrile Oil Proof | PVC | Silicon | Low/High Temperature | Butyl | Jonson Food Grade Compound.

Colours:

White | Blue | Green | Tan | Black

Carcasses:

Cotton | Cotton/Polyester | Spun Polyester | Polyester monofilament | Polyester



CHEVRON CONVEYOR BELTS

The chevron conveyor belts are used for carrying wet, loose sand and grain materials in bags. In addition to a range for normal bulk goods, various special types are available for conveying hot goods, for the transport of goods containing oil and grease, for steep-incline conveying and with special reinforcing materials for particular applications. The v-shape of the chevron cleats prevents the material from sliding back.

Special Features

- Longer working life
- Can carry loose materials at angle of 17-18 and bagged material at 30-35
- Cleat angle and pitch are designed for smooth travel over return idlers
- Cleats and the top cover rubber are mono block moulding for strength

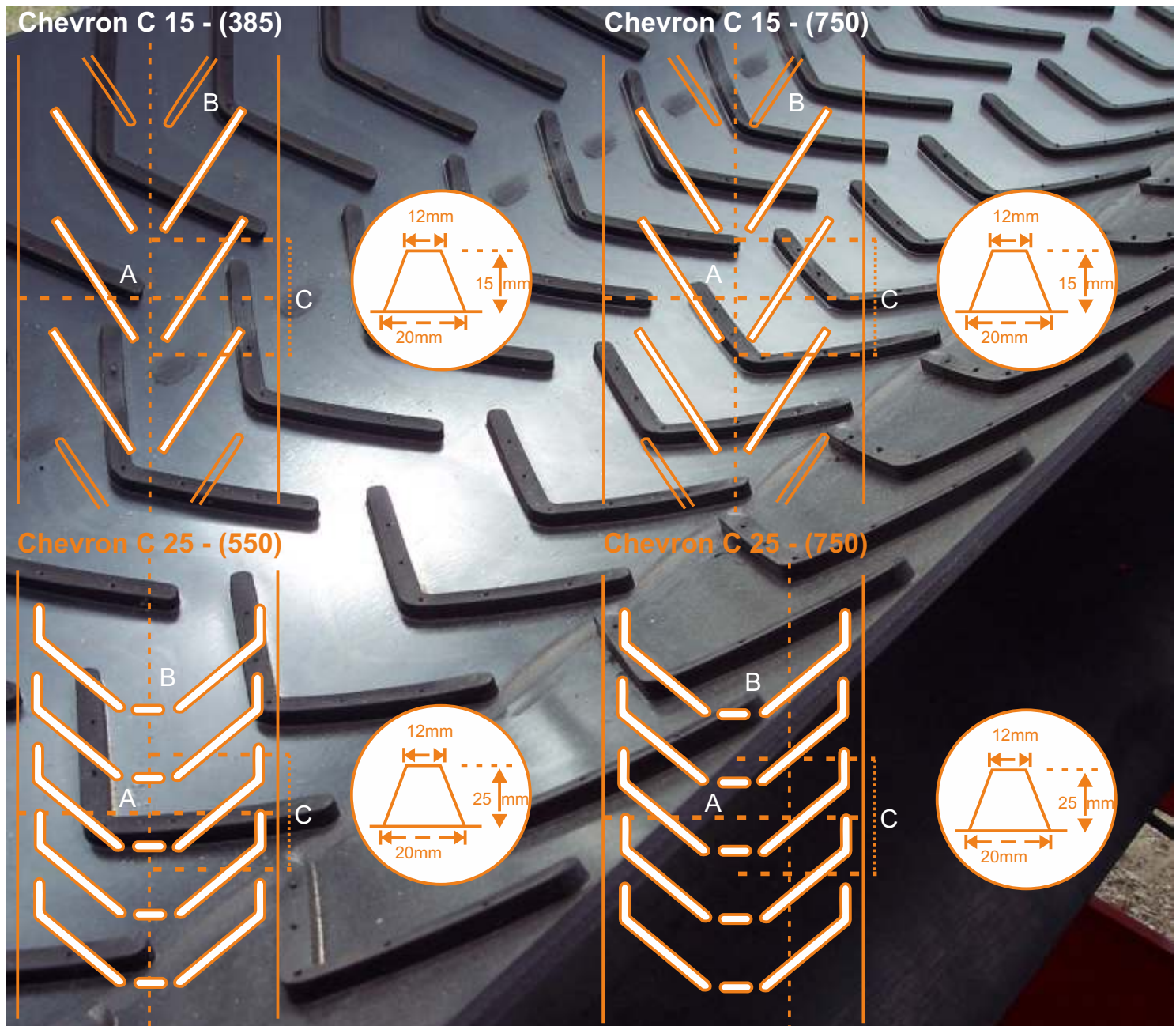
Applications

- Wood Chips
- Sand and Gravel
- Heavy Duty Scrap Metal
- Minerals - Coal and Ore
- Materials - Fine Coal and Grains
- Waste and Recycling Plants
- Road Construction
- Bagged Materials

Advantages

- Excellent flame & antistatic properties.
- Excellent impact & rip resistance.
- Ideal for applications in coal mines, power stations & metallurgy industries.

Profiles we offer



ROUGH TOP CONVEYOR BELTS

Used in transportation of light weight goods, also on inclined surfaces. The special surface absorbs vibrations and impacts and also prevents material from slipping back.

Special Features

- Provides excellent grip between belt top and packages, such as cartons, jute packages.
- Black cover for utility applications
- Tan cover for non marking applications such as packaged food.
- Available with bare back – bottom cover, to give excellent grip to the conveyor belt.

Belt specifications : Inclined Surface Transportation - Black & Tan

OUR REF.	NO. OF PLYS	TOP COVER	BOTTOM COVER	STANDARD LENGTH	COLOR	STANDARD WIDTH
RT 1	2	1/8" (3.2 mm)	BAREBACK	200 Meter Per Roll	Black, Grey, Tan	500 - 1200 MM Cut Edge
RT 2	2	1/8" (3.2 mm)	1/16' (16 mm)			
RT 3	3	1/8" (3.2 mm)	BAREBACK			
RT 4	3	1/8" (3.2 mm)	1/16' (16 mm)			

Max. material temperature 80°C recommended

STRAIGHT WRAP CONVEYOR BELTS

JONSON Straight Warp belt is an engineered carcass consisting of length-wise polyester straight-warp, intersected with cross-wise nylon weft, bound together with synthetic warp fibres. Resulting in a highly durable belt with excellent heavy load support.

Benefits

- Excellent rip and impact resistance
- Superior troughing, load support and fastener retention
- Controlled stretch reduces take up and time needed for drive adjustments
- High Cover adhesions between the plies provide outstanding flexibility to allow the use of smaller pulleys and yielding longer service life and less down time

Common Usage

- Hard rock and ore mining
- Log handling
- Magnetic Separators
- Bucket Elevators
- Primary Crushers

PIPE CONVEYOR BELTS

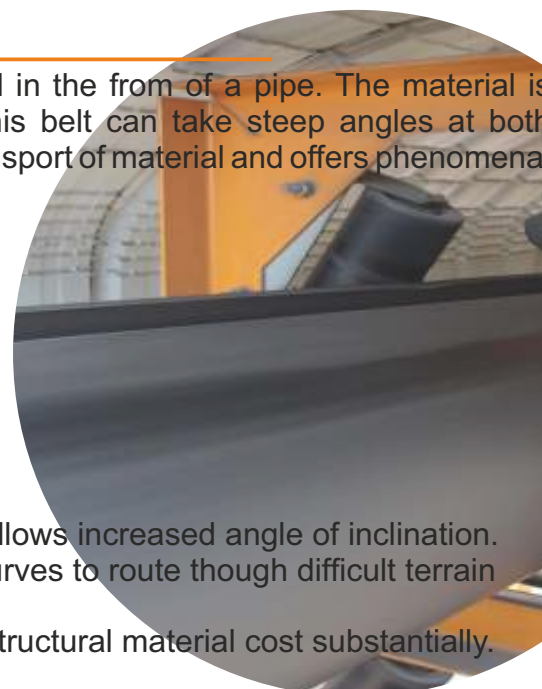
JONSON has developed a conveyor belt, which carries material in the form of a pipe. The material is completely enclosed over the entire length of the conveyor. This belt can take steep angles at both horizontal and /or vertical curves. It offers dust and spillage free transport of material and offers phenomenal savings by way of material savings and installations costs.

Application

Cement, Chemical, Fertilisers, Power Plants and Food Industries.

Features

- Retains material quality from climatological influences.
- Completely enclosed and dust free transport of material.
- Reduces transit material loss due to spillage of material.
- Protects environment from chemically hazardous material.
- Save space due to larger contact between material and belt allows increased angle of inclination.
- It's flexibility allows to accommodate horizontal and vertical curves to route through difficult terrain inside and outside of the plant.
- Narrow widths of installation and absence of hoods reduces structural material cost substantially.
- No spillage of material from return belt.



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