



MAHAJAN CONVEYOR INDUSTRIES



# INFORMATION

## Welcome to MAHAJAN CONVEYOR

In the complex world of business emulation, "Mahajan Conveyor" has known many twists, turns and diversification, but never has the signature of the marquee been lost. Since 1958, Mahajan's have been guided by the grand passion that has led them to indulge in the profitable business of "Rough top end" in the market. The updated carnation of "Gupta Rubber mill" has come into existence as "Mahajan Conveyor". The success of rechristened "Mahajan Conveyor" is very large due to fore vision and innovative strategies of Mahajan's who takes on the manufacturing, dealing and exporting the Rubber belt, transmission belt and with professionalism, extra ordinary self belief and commitment valued for the efficient management. The sublime vision of "Mahajan Conveyor" is based on the exhaustive study of modern conveyor's spectrum, collection and analysis of data and application of logic as well to evaluate the chances of profitable return against the potential risk. The principal concerns of Mahajan Conveyors are establishing the updated version of state of art infrastructure Quality conscious approach, timely delivery schedule and satisfaction of client. The specialization of Mahajan Conveyor lies in the "ROUGH TOP END AND HYGIENIC" and we always claim to proclaim "No compromise with quality and tryst the desires of clients as our priority". "MCI AND PR HINDUSTAN " is the name under which our deal of products takes place. We have our operational center located in kandori, himachal Pradesh . But the trading of "rough top end" product is dynamically extended unto national and international level.

# PRODUCTION INFRASTRUCTURE

As span infrastructure it is as beneficial will it be for the profitable outcome and flourishing business. “Mahajan Conveyor” has a prominent acquaintance as its infrastructure is armed with sincere, experienced and dynamic personnel recruitment, the high tech machinery and equipments for consistent production and the ideal quality managing authoritative staff that eminently performs with the assurance of accountability towards the clients and the super management of the company.



|                            |   |
|----------------------------|---|
| Length                     | Open or Endless   |
| Ply                        | 1 to 14 Ply   |
| Thickness                  | 2mm to 40mm   |
| Types of Synthetic Carcass | General Duty (GD), extra duty (ED) & Heavy duty (HD)  |
| Edges                      | Cut edge or Molded edge   |
| Breaker Ply                | Breaker is provided on the face, back & edges as per requirement  |
| Fabric                     | Cotton/cotton, Cotton/Polyester & Synthetic Fabric like Nylon/nylon and Polyester/Nylone (EP), Polyester/Polyester (EE)(EH) |

## UNMATCHED ADVANTAGES

A perfect combination of quality materials, modern technology, experience manpower and elaborate quality assurance measures, ensure that MAHAJAN conveyor belts have the following unmatched advantages

### HIGH ADHESION LEVELS

Special chemical bonding techniques ensure very high adhesion levels between cover to ply and ply to ply, achieving superior belt consolidation and higher peel resistance.

### OUTSTANDING IMPACT RESISTANCE

High adhesion levels and presence of thick rubber cushions between plies provides outstanding impact resistance and eliminates cover stripping and ply to ply desalination

### SUPERIOR TOUCHING & FLEXIBILITY

Higher transverse flexibility of MAHAJAN belts allows deeper touching, improving volumetric transfer capacity of conveyors. At the same time, higher long ideational flexibility allows use of smaller pulleys diameter and reduces flex fatigue

# ≡ TRANSMISSION BELTS

Transmission Rubber Belts are suitable to the most demanding conditions of various industries such as textiles, paper, pharmaceuticals, Food processing, Engineering & other allied industries.

- **FLAT BELTS**
- **ROUND EDGE**
- **FOLDING EDGE**



≡ • **LENGTH**  
As per requirement till 200 meters

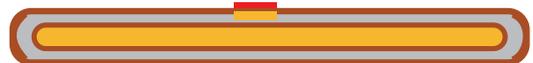
≡ • **COLORS**  
As per requirement

≡ • **SIDE PAINTS**  
Green, Red, Blue, Black, Silver

## ≡ • **QUALITY MARKETING SCHEME**

- Solid woven duck, cotton fabric ply
- Lighter, stronger and more durable
- Anti-abrasive
- Less Elongation, by use of specially treated touch cotton cords
- Uniform quality
- High tensile strength
- Modern testing facilities and equipped laboratory
- Reduction in bearing load to light weight

**Moulded**



**Cut edge**

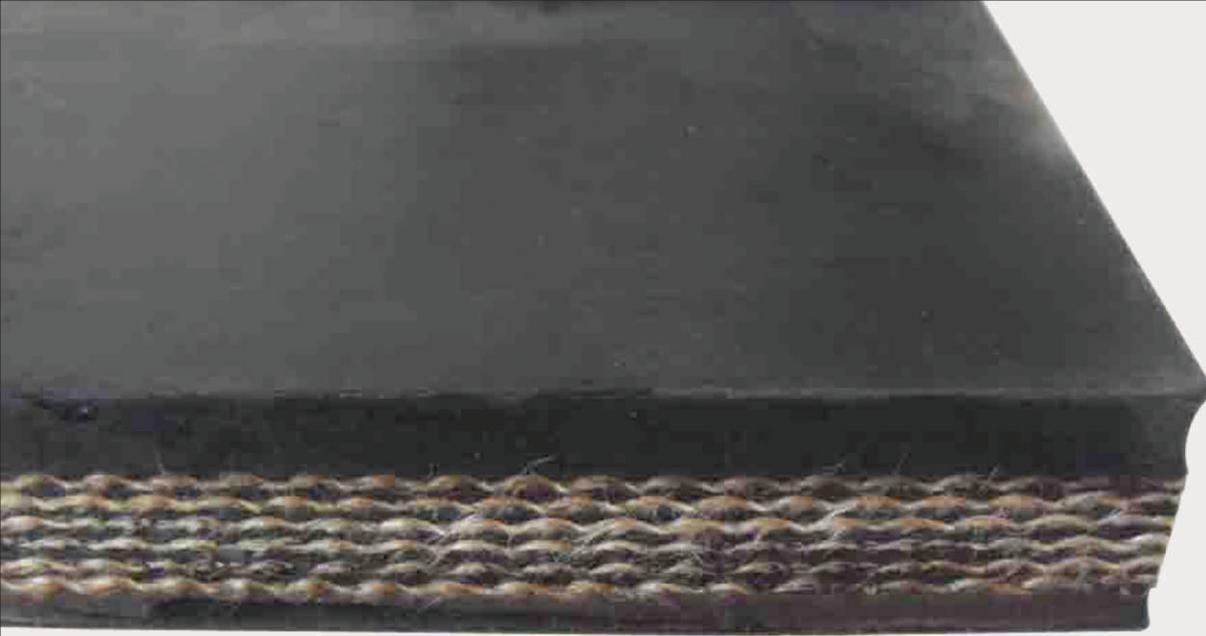




# ≡ NYLON CONVEYOR BELT

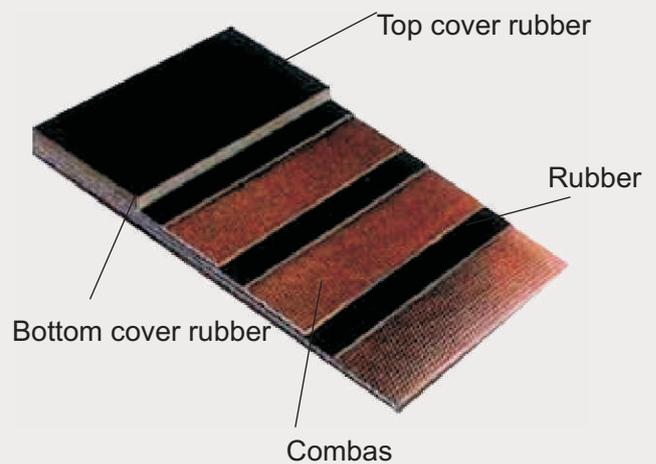
≡● Specification and technical data of multi-ply nylon conveyor belt

| Fabric type | Fabric structure |           | Fabric type | Fabric Thickness (mm/p) | Strength series |      |      |      |      | Cover rubber Thickness |       | Width (mm) | Length (m) |
|-------------|------------------|-----------|-------------|-------------------------|-----------------|------|------|------|------|------------------------|-------|------------|------------|
|             | Warp             | Weft      |             |                         | 2ply            | 3ply | 4ply | 5ply | 6ply | Upper                  | Lower |            |            |
| Nylon (NN)  | Nylon (N)        | Nylon (N) | NN-100      | 0.75                    | 200             | 300  | 400  | 500  | 600  | 1.5-8                  | 0-4.5 | 100-2000   | <300       |
|             |                  |           | NN-150      | 0.80                    | 200             | 450  | 600  | 750  | 900  |                        |       |            |            |
|             |                  |           | NN-200      | 0.90                    | 300             | 600  | 800  | 1000 | 1200 |                        |       |            |            |
|             |                  |           | NN-250      | 1.15                    | 400             | 750  | 1000 | 1250 | 1500 |                        |       |            |            |
|             |                  |           | NN-300      | 1.25                    | 500             | 900  | 1200 | 1500 | 1800 |                        |       |            |            |
|             |                  |           | NN-400      | 1.45                    |                 |      | 1600 | 2000 | 2400 |                        |       |            |            |
|             |                  |           | NN-500      | 1.55                    |                 |      | 2000 | 2500 | 3000 |                        |       |            |            |



## ≡ NYLON TO POLYESTER CONVEYOR BELT

Polyester conveyor belt also called EP conveyor belts, which tension resistant body is canvas that is woven by polyester in warp and Nylon in weft. The belts have the characteristics of low elongation in wrap and good trough ability in weft, good water proof, good wet strength, no mould, suitable for medium, long-distance and heavy-load transportation of materials. Because of the high initial modulus of polyester, the belts can choose a relative low safety factor



### ≡● Specification and technical index of multi-ply EP conveyor belt

| Fabric type    | Fabric structure |               | Fabric type | Fabric Thickness (mm/p) | Strength series |      |      |      |      | Cover rubber Thickness |       | Width (mm) | Length (m) |
|----------------|------------------|---------------|-------------|-------------------------|-----------------|------|------|------|------|------------------------|-------|------------|------------|
|                | Warp             | Weft          |             |                         | 2ply            | 3ply | 4ply | 5ply | 6ply | Upper                  | Lower |            |            |
| Polyester (EP) | Nylon (E)        | Polyester (P) | EP-100      | 0.75                    | 200             | 300  | 400  | 500  | 600  |                        |       | 100-2000   |            |
|                |                  |               | EP-150      | 1.0                     | 300             | 450  | 600  | 750  | 900  |                        |       |            |            |
|                |                  |               | EP-200      | 1.1                     | 4300            | 600  | 800  | 1000 | 1200 | 2.0-8                  | 0-4.5 | 100-2000   | <300       |
|                |                  |               | EP-250      | 1.25                    | 500             | 750  | 1000 | 1250 | 1500 |                        |       |            |            |
|                |                  |               | EP-300      | 1.35                    | 600             | 900  | 1200 | 1500 | 1800 |                        |       |            |            |
|                |                  |               | EP-350      | 1.45                    |                 | 1050 | 1400 | 1750 | 2100 |                        |       | 100-2000   |            |
|                |                  |               | EP-400      | 1.55                    |                 |      | 1600 | 2000 | 2400 |                        |       |            |            |
| EP-500         | 1.70             |               |             | 2000                    | 25000           | 3000 |      |      |      |                        |       |            |            |

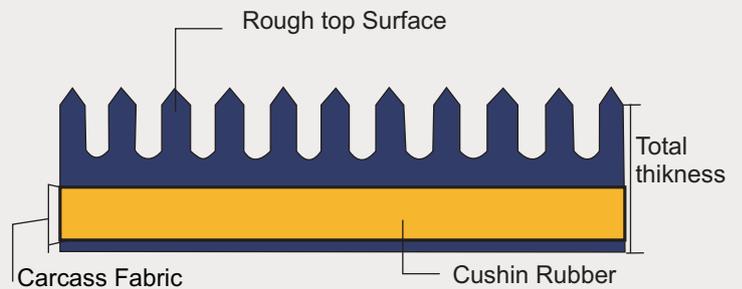
# ≡ PATTERNED & ROUGH TOP CONVEYOR BELTS

## APPLICATION:

Rough Top belt is designed for transporting light weight goods, either being inclined or being horizontal, also suitable for transporting fragile or deformed materials and packed good, such as glass, papers, bags, boxes or cartons at angle from 15 to 45 degree.

To slope 0-45° to prevent materials from falling off, and to improve the capability of the belt.

1. The material select cotton canvas or polyester canvas.
  2. Production width: 300-1000 mm, layers.
- Category: there are common, heat-proof, acid and alkali resistant and oil-resistant belts, categorized according the characteristics of cover rubber.



# ≡ OTHERS BELTS

## Selection of rubber cover

Selection of rubber Should be done by taking into account the type and size of materials beconveyed and the operating condition of the belt. MAHAJAN standard rubber conveyor beltingis a available in the following grades.



| APPLICATION   | MATERIALS REFERENCE   |
|---|---|
| <p><b>Heat Resistance Belting</b><br/> <b>HR(T-1)GRADE</b><br/>                     suitable for transporting hot materials (up to 125 degree centigrade for coarse materials and 100 degree centigrade for fines)</p> <p><b>Heat Resistance Belting</b><br/> <b>HR(T-2)GRADE</b><br/>                     suitable for transporting hot materials (up to 150 degree centigrade for coarse materials and 125 degree centigrade for fines)</p> | <p>Foundry sand, soda ash, Hot Limestone, Cement Clinker, Ash Handling, Hot Coker, Etc.</p> |
| <p><b>Oil Resistant Belting</b><br/>                     Good resistance to mineral, vegetable and animal oils and fats etc.</p>  | <p>Soya Beans oil, Fish Oil, Coffee, Rice, Oil, etc</p>                                     |
| <p><b>Hygienic conveyor belting</b><br/>                     These belts with food grade rubber covers so not impart odor and do not stain the materials to be conveyed and thus are particularly suitable for food processing industries.</p>  | <p>Tea, Tobacco, Salt Confectioneries, Fruit &amp; Food processing etc.</p>                 |
| <p><b>FIRE Resistant(FR) Grade</b><br/>                     Recommended for use in coal such types of mines enveloped in fire. Rubber covers are fire resistant and antistatic</p>  | <p>Coal, Coal sulphur, etc.</p>   |
| <p><b>SHR+OR</b></p>  | <p>Soya Beans oil, Fish Oil, Rice, etc</p>  |

# ≡ ULTRA HEAT RESISTANT CONVEYOR BELT

The belt carcass is made of EP fabric which select high modulus, low shrink, and high breaking tensile strength canvas cover rubber of this product uses EPDM rubber that has very good high temperature resistance, The belt is made with mixing rubber with high temperature resistant materials after assembling and vulcanizing.

The carcass of this product has very high adhesion after the special treatment of coating and shaping, under normal working temperature of below 180°C, the belt is low in elongation, excellent shaping, under normal working temperature of below 180°C, the belt is low in elongation, excellent in anti-abrasion. and can bear 250°C high temperature for a short timothy belt is suitable for use in cement, metallurgical and steel industry.

## ≡● Type and specifications of high temperature-resistant conveyor belt.

| Fabric type    | Fabric type | Strength series |      |      |      |      | Cover rubber Thickness |       | Width (mm) | Length (m) |
|----------------|-------------|-----------------|------|------|------|------|------------------------|-------|------------|------------|
|                |             | 2ply            | 3ply | 4ply | 5ply | 6ply | Upper                  | Lower |            |            |
| Polyester (EP) | EP-100      | 200             | 300  | 400  | 500  | 600  | 3-10                   | 0-4.5 | 500-2000   | <300       |
|                | EP-150      | 300             | 450  | 600  | 750  | 900  |                        |       |            |            |
|                | EP-200      | 400             | 600  | 800  | 1000 | 1200 |                        |       |            |            |
|                | EP-250      | 500             | 750  | 1000 | 1250 | 1500 |                        |       |            |            |
|                | EP-300      | 600             | 900  | 1200 | 1500 | 1800 |                        |       |            |            |
|                | EP-400      | 800             | 1200 | 1600 | 2000 | 2400 |                        |       |            |            |
|                | EP-500      | 1000            | 1500 | 2000 | 2500 | 3000 |                        |       |            |            |

## ≡● The physical performance of cover rubber after head-proof test conform to the specification in the table

| Index               |   | (Mode)             |        |         |        |
|---------------------|---|--------------------|--------|---------|--------|
|                     |   | Model              | Modell | Modelll | ModelV |
|                     |   | (variations range) |        |         |        |
| Hardness            | Difference after and before aging(IRHD) | 20                 |        | +20     | +20    |
|                     | maximum after aging (IRHD)              |                    |        |         |        |
| Tensile strength    | Decrease of performance variance rate%< | -25                | -30    | -40     | -40    |
|                     | Maximum after aging Mpa                 | 12                 | 10     | 5       | 5      |
| Elongation at break | Performance variance rate%              | -50                |        | -55     | -55    |
|                     | Maximum after aging%                    | 200                |        | 180     | 180    |

SUGAR MILLS

STEEL  
INDUSTRY

PAPER  
INDUSTRY

WOOD &  
CHIPBOARD

AIRPORTS

QUARRIES  
& CRUSHERS

POWER  
PLANTS

COALMINES

CEMETN  
INDUSTRY

PORTS

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