

When you need us, we are there. All the right BELTS, for every industrial drive...

Whenever our customers face any belting problems, they never panic. Instead, they contact the Lakhotia Service Team nearest to them, and relax - confident of receiving our prompt response and speedy service.

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Product

Catalog



Rubber Conveyor Belt



Bucket Elevator Belt



Motorized Pulley



Bonfiglioli Industrial Geared Motors

Industrial Conveyor Belt Benefits:

- Abrasion resistance, grease, oil resistant.
- Consistent, easy & fast transportation of materials from one location to another
- Prevent product damage while transportation.
- Proven longer life
- High impact & tear resistance
- Reduce labor costs and improves productivity
- Easy to splice using standard materials and methods

Characteristics

- **Conveyor belting width up to:** 300 mm to 2500 mm.
- **Carcass material:** EP / NN fabric ply
- **Rubber cover thickness:** 3 mm to 25 mm (1/16" to 1")
- **Avg Tensile strength belt** of 110 to 1000 kN/m
- **Splicing Method:** Hot, Cold, Mechanical Joints
- **Edge Construction:** Cut

Rubber Conveyor Belt

Rubber conveyor belt primarily used for **stone crusher unit** output bulk conveying or transporting highly abrasive materials like **stone, sand, coal** and all kind of **gravel materials** from **stone crusher plant, mining or quarrying, clinker** manufacturing industries.

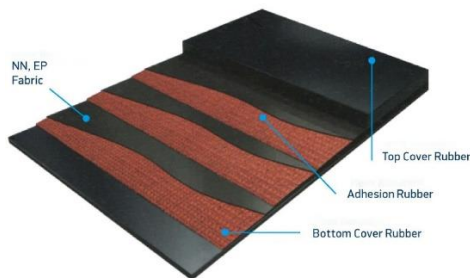
Heavy duty conveyor belt construction of the carcass and **EP / NN fabric** belt has **2 to 6 layers** of **Polyester-Nylon** fabric and the covers are made of various grade rubber. The rubber belt has **2 to 10 mm thick top cover**, **1, 1.5, 2, 2.5, 3 mm thick bottom cover**.



Conveying Material	Feeding Conditions
Class 1 material 0-50mm low unit weight slightly abrasive	Favorable <0.5m feeding height low speed
Class 2 material 50-150mm medium unit weight, medium abrasive	Normal 0.5 to 2.5m feeding height average speed
Class 3 material 150-400mm high unit weight, sharp edged.	Unfavorable >2.5m feeding height, high speed

Different Grade for Conveyor Belts

Rubber Belt Grade	Temperature Range	Standards	Belt Characteristic	Applications
M-24	Upto 80C	IS: 1891 (Part I) BS: 490(Part I)	High tensile strength and superior in abrasion resistant.	Metallic Ore, Coke stone, Copper Ore Limestone, Broken glass, etc
Super HR	+65 to 180C	IS: 1891 PART II (T2)	Heat and less abrasion resistant	Cement clinker, Foundry Sand, Sintered ore, etc.
Ultra HR	+65 to 200C	IS: 1891 PART III (T3)	High heat and light abrasion resistant. Manufactured in conjunction to withstand high temperature	Iron pellet, Hot coke, Burnt limestone, etc.
Fire Retardant	Upto 60C	ISO 284	Fire retardant and anti-static.	Coal, Coke, Sulphur, etc.



- **Aggregate / Cement Industry**
- **Blast Furnace Slag, Coal & Clinker**
- **Construction Lines**
- **Granite, Lime Stone**
- **Food Processing & Packaging**
- **Mining and Quarries Industries**
- **Paper & Printing Industry**
- **Stone Crushing Industries**
- **Sand & Gravel Processing**
- **Steel Pellets and Metallic Ores Handling**

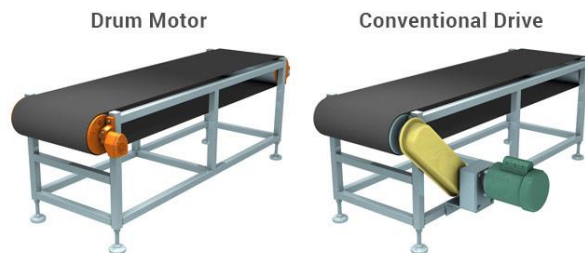
RUBBER CONVEYOR BELT INDUSTRIAL APPLICATIONS



Rubber conveyor belt is suitable for transporting bulk dry granular materials, such as coal, sand, stone, cement, fertilizer

Motorized Pulley (Drum Motor)

The Motorized Pulley (**Drum Motor**) is mainly used for **driving conveyor belt**. Easy to install and low running costs and minimize maintenance. The Motorized Pulley has been specifically designed for belt conveyors. Motorized pulley is totally sealed, with a **protection class IP 67** and a maximum power of **250kW**. A drum motor is a one component **conveyor drive** where the **motor, gear drive and all moving parts** are enclosed inside the drum. Used in heavier plants for the mining industries, mobile quarries installation and in the food industry. The Motorized pulley the ideal drive unit for conveyors "Fit it and forget it"



Standard range of motorized pulley	Shell diameter (mm)	Motorized pulley (Type)	Power Range (kW)
	138	138i	0.09 – 1.0
	165	165i	0.15 to 2.2
	216	220M/220H	0.37 to 5.5
	320	320L/320M/320H	0.75 to 7.5
	400	400L/400M/400H	2.2 to 15.0
	500	500L/500M/500H	2.2 to 22.0
	630	630M/630H	5.5 to 55.0
	800	800M/800H/800HD	22 to 132
	1000	1000HD	160 to 250

Benefits Purpose-built design Totally enclosed Efficiency & Reliability Space saving design Easy & Quick installation Low maintenance cost Thermal protection Variable frequency converter Fewer parts Low Noise	Technical Specification			
	Component	Motorized pulley includes pulley shell, bracket, coupler, motor and gear reducer.	Driving Power	1.5~250 KW
	Belt Width	400 to 2000 mm	Belt Speed	0.35~4.5 (m/s)
	Drum Diameter	138 to 1000 mm	Standard	Quality assurance ISO9001:2008
	Type conveyor	Belt Conveyor, Mobile Conveyor, Stacking Conveyor, Mobile Shiploader, etc.		
	Surface: Smooth steel surface, rubber faced, rubber lagged, ceramic lagged, diamond rubber covered			
	Application: Used in mining, coal mine, steel industry, cement industry, aggregate industry			

INSTALLATION, MAINTENANCE & TROUBLESHOOTING GUIDE

PROBLEM: Conveyor belt runs to one side at given point on structure AND PROBLEM: Belt runs off at the tail pulley / head pulley	CAUSE: Buildup of material on idlers SOLUTIONS: Remove accumulation; improve maintenance; install scrapers or other cleaning devices	CAUSE: Sticking idlers SOLUTIONS: free idlers and improve maintenance and lubrication	CAUSE: Idlers or pulleys out-of-square with centerline of belt SOLUTIONS: Readjust idlers in affected area	CAUSE: Belt running off-center around the tail pulley and through the loading area SOLUTIONS: Install training idlers on the return side prior to the tail pulley	CAUSE: Off-center or poor loading SOLUTIONS: Adjust chute to place load on center of belt; discharge material in direction of belt travel at or near belt speed
PROBLEM: Belt slip on starting PROBLEM: Excessive belt stretch	CAUSE: Insufficient traction between the belt and pulley: SOLUTIONS: Lag the drive pulley; increase the belt wrap; install belt-cleaning devices CAUSE: Sticking idlers SOLUTIONS: Free idlers and improve maintenance and lubrication	CAUSE: Counterweight too light SOLUTIONS: Add counterweight or increase the screw take-up tension to value determined from calculations	CAUSE: Improper belt installation, causing excessive belt stretch SOLUTIONS: Pull belt through the counterweight with tension equal to at least the empty running tension; break belt in with mechanical fasteners	CAUSE: Tension too high SOLUTIONS: Increase belt speed at same tonnage; reduce tonnage; maintain same belt speed; reduce friction with better maintenance and replacement of damaged idlers;	CAUSE: Counterweight too heavy SOLUTIONS: Lighten counterweight to the value required by calculations CAUSE: System under belted SOLUTIONS: Recalculate belt tensions and select proper belt
PROBLEM: Grooving, gouging or stripping of the top cover Gauging	CAUSE: Skirt boards improperly adjusted or wrong material SOLUTIONS: Adjust the skirt board supports to a minimum of 1" between metal and belt, with gap increasing in direction of belt travel; use skirt board rubber, not old belt	CAUSE: Belt spanning down under load impact SOLUTIONS: Install cushion idlers	CAUSE: Material hanging up in or under the chute SOLUTIONS: Improve loading to reduce spillage; install baffles; widen chute	CAUSE: Impact of material on the belt SOLUTIONS: Reduce impact by improving the chute design; install impact idlers	
PROBLEM: Excessive top cover wear, uniform around the belt	CAUSE: Dirty, stuck, or misaligned return rolls SOLUTIONS: Remove accumulation; install cleaning devices; use self-cleaning	CAUSE: Cover quality too low SOLUTIONS: Replace with a belt of heavier-	CAUSE: Excessive sag between idlers causing the load to work and shuffle on the belt as it passes over idlers	SOLUTIONS: Increase tension if unnecessarily low; reduce idler spacing return rolls; improve maintenance and lubrication	

<p>TA series Shaft Mounted Speed Reducers</p> <ul style="list-style-type: none"> - Cost effective solution - High Reliability - Robustness - Very Compact design - Highly customizable product <p>Applications Processing Crushers, Storage Bagging machines & conveyors, Raw material handling</p> <p>Torque range 150 ... 16,000 Nm (1,327 ... 141,611 in-lb)</p> <p>Transmissible Mechanical Power Up to 226 kW</p>		
<p>A Series Helical Bevel Gearmotors & Units</p> <ul style="list-style-type: none"> - Minimized mounting space - Forced gears-shafts coupling - Wide output speed selection range - Reduced standard backlash - High dynamic and energy saving solution - Wide output speed selection range - ATEX gearbox for explosive environments 2G/2D <p>Transmissible Mechanical Power 0.22 ... 150kW</p> <p>Torque range 100 ... 14,000 Nm (885 ... 123,910 in-lb)</p>		
<p>Planetary Gearmotors (300 Series)</p> <p>The 300 series is compact and powerful. Their planetary drive train makes them the ideal choice for all severe duty applications where shock loads and impacts are more the rule than the exception.</p> <p>The product configuration is modular, highly versatile and offers several options for mounting and motor interface. Foot and flange mounted</p> <p>Torque range: 1,000 ... 1,100,000 Nm</p> <p>Transmissible Mechanical Power up to 1,050 kW</p>		
<p>F Series (Helical Parallel Shaft Mounted Gearmotor)</p> <ul style="list-style-type: none"> - High mounting flexibility - Minimized mounting space - Robustness - Reduced standard backlash - High dynamic and energy saving solution - Wide output speed selection range - (ATEX) gearbox for explosive environments 2G/2D <p>Torque range 140 ... 14,000 Nm</p> <p>Transmissible Mechanical Power 0.09 ... 123 kW</p>		
<p>AS series (In-Line Helical Gearmotors)</p> <p>The AS Series benefits from years of recognition in the industry and has become a best seller for quarry and mining applications, where reliability and low maintenance are key factors.</p> <ul style="list-style-type: none"> - Space optimized design - Reduced installation space and wide output speed selection range - Reduced standard backlash - Highly dynamic, energy-saving solution - Wide output speed selection range <p>Torque Range: 50 ... 12,000 Nm (442 ... 106,208 in-lb)</p>		
<p>BN Series asynchronous motors with aluminum frames are the right solution for a wide range of general-purpose industrial applications.</p> <ul style="list-style-type: none"> - Reduced operating cost - Complete (Gearbox + Motor) Solution - Wide output speed selection range - Energy saving - protection class up to IP 56 - Power Output 0.06...30kW 230/400 v @50Hz 		
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