



Trellex Pulley and Roller Lagging



Trellex Traclag

– universal pulley lagging for use on a variety of pulleys

Increased friction – Reliable operation

Running a conveyor without pulley lagging on the drive pulley is like driving a car with worn tires. The more treacherous the conditions, the greater the danger of losing grip. Therefore, it is important to use a pulley lagging that can be relied upon to operate in the most difficult of conditions, e.g. rain, snow, ice and sludge. Slippage between the conveyor belt and the drive pulley occurs either when the friction coefficient is too low, there is insufficient tension or when the angle of wrap is too small. In order to ensure that the belt, pulley and rollers are subjected to the least amount of wear possible, tension should be as kept as low as possible, which in turn means that the friction coefficient and the angle of wrap should be as great as possible. However, increasing the angle of wrap by rebuilding the conveyor is extremely expensive and produces only limited improvement. The least expensive and most effective method of reducing the risk of slippage is by installing the correct type of pulley lagging. Trellex Traclag is produced in a range of different thicknesses, rubber qualities and patterns, which means that we can always offer the optimal lagging, whatever the application.

Prevents slippage – Reduced belt and pulley wear

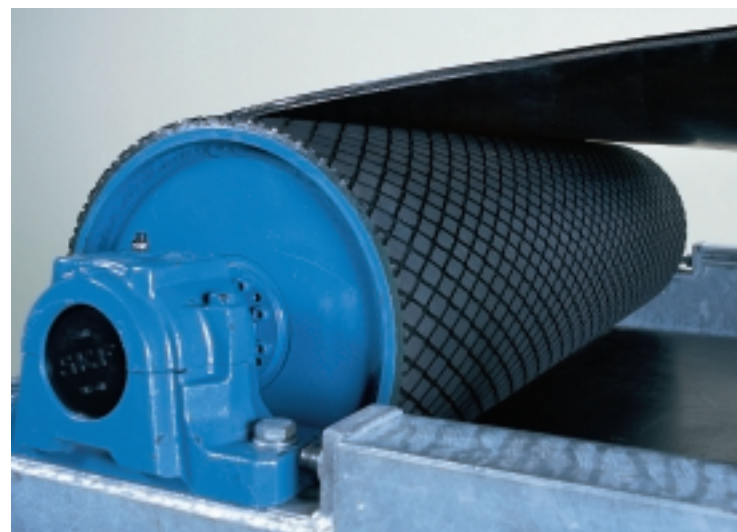
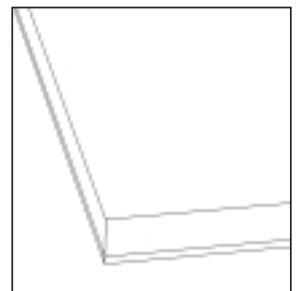
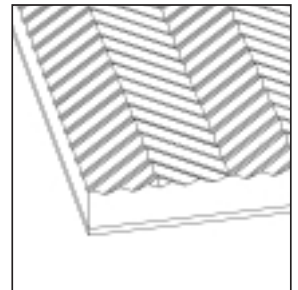
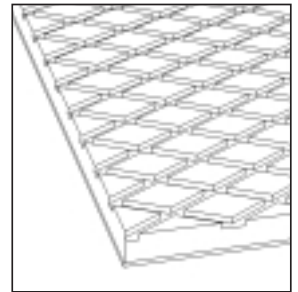
A conveyor belt that slips causes significant damage to both the drive pulley and the belt, damage that is time consuming and expensive to repair. In addition, slippage also leads to periods of unplanned downtime, with production shortfalls as a result. Bringing a fully loaded conveyor on-line when there is insufficient friction between belt and pulley is a difficult task to accomplish. Trellex Traclag is made from rubber with a high friction coefficient, which significantly reduces the danger of slippage and heightens the levels of reliability and conveyor availability.

Prevents material build-up – Improves belt controllability

It is often the case that bare steel pulleys are subject to deposits of moist and viscous materials. Where the diameter of a pulley is no longer consistent, the belt mistracks and damage to the belt edge and the conveyor itself is inevitable. By applying Trellex Traclag, material is not allowed to build up, thus preventing the possibility of mistracking and damage to the belt edge and conveyor.

Extensive area of use – Fits most pulley types

Because of its wide range, Trellex Traclag can fit most pulley types and sizes. It can also be used effectively with turn and breaker pulleys. In addition, Trellex Traclag is suitable for use as pulley lagging on drive pulleys in reversible conveyors. Applied to pulleys using adhesive, its symmetrical pattern affords excellent grip between conveyor belts and pulley lagging in both directions. The topside of the lagging is available in either diamond, herringbone pattern, or smooth. Our standard rubber compound is hard-wearing and long lasting. Trellex Traclag is also available in oil or heat resistant rubber for applications where such properties are required. The rear side of the lagging is available with either a removable foil backing or a pre-treated contact layer. This simplifies the application process since buffing, degreasing and the need for applying a priming adhesive is eliminated.



Trellex Griplag

– the problem solver for drive pulleys operating under tough conditions

Long life – Reduces maintenance costs

Slippage causes extensive damage to conveyor belts and drive pulleys. Trellex Griplag has a special design that provides a number of unique advantages; the rubber element features a metal strip that is vulcanised into the front edge of the rubber. This strip contains several holes for fixing the rubber to the pulley using self-tapping screws. This special fixing method, combined with the elasticity of the rubber and the round, conical stubs protruding from the surface of the element, means that Trellex Griplag is able to eliminate practically all wear between belt and lagging caused by the difference in belt elongation on the upper (T1) and lower (T2) sides of the conveyor. This ensures that the pulley lagging lasts for a very long time. Using Trellex Griplag on the drive pulley reduces maintenance costs.

High coefficient of friction – Reduces the risk of slippage

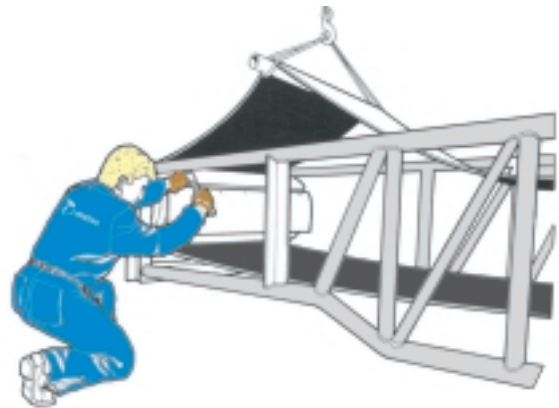
Slippage leads to falls in production. The special patterns of the Trellex Griplag pulley lagging element ensure high contact pressure, which reduces the danger of slippage. The high coefficient of friction between conveyor belt and drive pulley reduces the need for high tension, placing less stress on the belt, the pulleys and their bearings. At the same time, the underside of the belt is subjected to less wear where the cover layer is thinnest. Fitting Trellex Griplag to the drive pulley reduces slippage and stops your money from going up in smoke.

Self-cleaning pattern – Improves belt centring

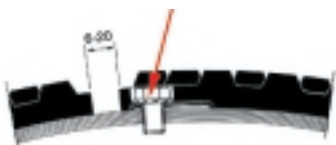
Material build-up on the drive pulley cause mistracking, which not only damages the belt and conveyor, but also leads to spillage. Trellex Griplag's open patterns, with its round conical stubs, and its flexible design effectively prevents the build up of deposits on the belt and pulley lagging, which improves belt centering. In wet operating conditions, where temperatures swing above and below zero, ice is prevented from forming on the pulley lagging as it touches the underside of the belt. Trellex Griplag increases operational reliability in all conditions.

Quick and simple installation – Reduces downtime

Replacing pulley lagging that has been glued on usually requires that the drive pulley be removed from the conveyor. Trellex Griplag is fitted to the drive pulley using special self-tapping screws. This unique fixing system makes fitting and replacing worn parts simple and straight forward. The fact that Trellex Griplag can be fitted and parts replaced without the drive pulley being removed from the conveyor, significantly reduces costs and ensures that lengthy spells of downtime are avoided. The low weight of Trellex Griplag makes it easy for it to be handled by one person. Trellex Griplag reduces the amount of downtime required to fit and replace pulley lagging.



M10 Self-tapping screw



Trellex Pulley Bars – rugged design for heavy duty drive pulleys

Rugged design – Suited for heavy duty operation

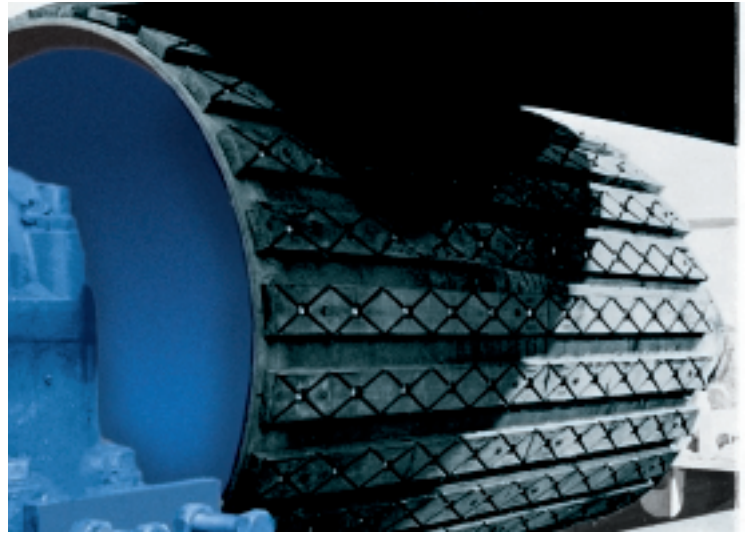
Trellex Pulley Bars are constructed with heavy-duty operation in mind and are made from a durable, long lasting rubber compound. An aluminium profile has been vulcanised into the rubber and bars are fixed in position on the pulley with self-tapping screws. The design of the bar lends itself to inclined and vertical lift conveyors. Trellex Pulley Bars are symmetrical. This means that they are ideally suited for use with reversible operation conveyors. Trellex Pulley Bars have a long operating life, even in heavy-duty applications.

Soft rubber compound – Prevents slippage

The most effective way of reducing slippage is by increasing the friction between conveyor belt and drive pulley. Trellex Pulley Bars are made from a special rubber compound that has a high friction coefficient. A high friction coefficient reduces the need for high belt tension and large angles of wrap, which in turn leads to other conveyor components being subjected to fewer wearing stresses. Trellex Pulley Bars maintain grip and increase operational reliability.

Open pattern – Prevents aquaplaning

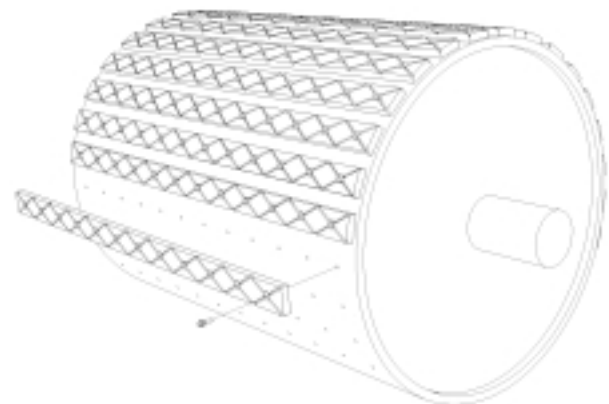
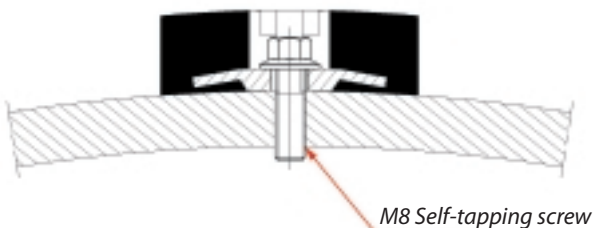
A common cause of slippage is that the friction coefficient falls when belts are exposed to rain or fog. Trellex Pulley Bars work superbly on conveyors that operate in environments exposed to heavy rain. The patterned topside of the pulley bars and the gap between the bars work together to effectively channel water away and prevent aquaplaning. Trellex Pulley Bars ensure operation in both the wet and the dry.



Installs without removing pulley – Makes maintenance easier

In contrast to pulley lagging that is fixed in position with adhesive and usually require the drive pulley to be lifted out of the conveyor in order to be replaced, Trellex Pulley Bars can be fitted with the pulley still in place. The bars are fixed to the pulley using special self-tapping screws.

The mechanical attachment method makes the process of fitting and replacing worn elements simple and easy. Major savings can be made, both in terms of costs and downtime. Trellex Pulley Bars are lightweight, which means that they can be handled easily by just one person. Trellex Pulley Bars simplify your maintenance programme.



Trellex Roller Sleeve – Rubber lagging for conveyor rollers

Prevents material build-up – Improves belt centering

One of the most common causes of mistracking is the build up of material on return rollers. When no scrapers or poor quality scrapers are used on a conveyor, a certain amount of material will remain on the belt after the discharge point. This material has a propensity to form build-up on the return rollers. When this happens, the roller loses its consistent diameter and the belt becomes exposed to forces that makes it pull to one side. As a result, both the edge of the belt and the conveyor structure are put at risk of damage when the two come into contact with each other. The flexibility inherent in the Trellex Roller Sleeve effectively counteracts material build-up and reduces the risk of mistracking.

Protects against corrosion – Reduces operating costs

Materials transported on conveyor belts usually contain a certain amount of moisture. This causes steel roll shells to rust. As the belt constantly wears the rust away, new metal is exposed to corrosive attack. This is augmented in situations where acidic substances with a low pH value are transported on the belt. In contrast to painting or galvanizing, Trellex Roller Sleeve provides long-term anti-corrosion protection that normally lasts for the lifetime of the roller. In short, Trellex Roller Sleeve reduces operating costs.

Hard-wearing rubber – Extends the life of your rollers

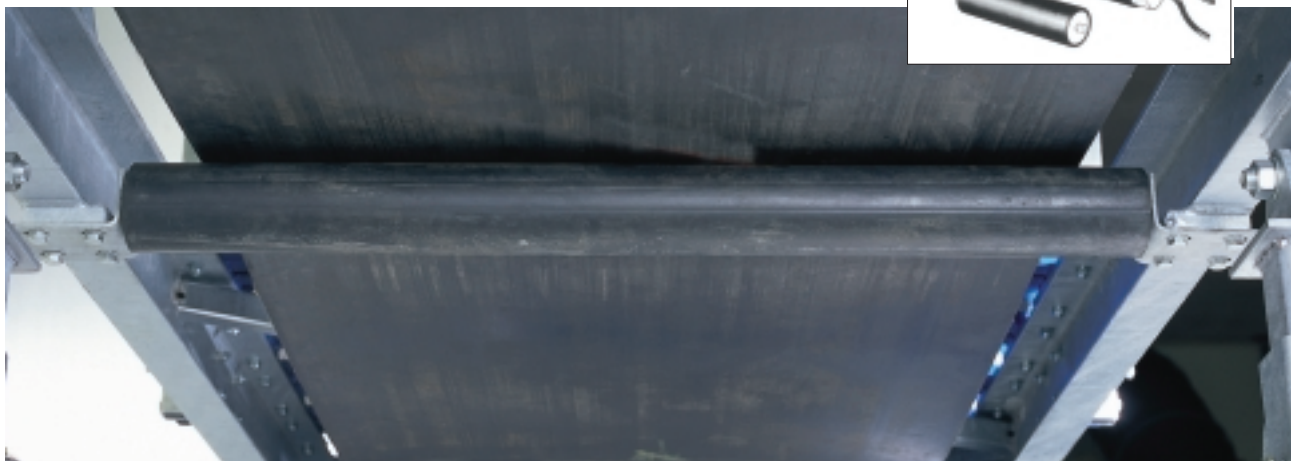
Return rollers come into direct contact with the dirty side of the conveyor belt. When abrasive material is transported on the conveyor, the return roll shells experience increased wear. Protecting the roll shell with a Trellex Roller Sleeve reduces wear and considerably extends roller life. The low level of friction between a steel shell and the belt, coupled with the roll's built in rolling resistance, may cause the roller to wear down quickly and unevenly. By using Trellex Roller Sleeve, this problem is eliminated and the life of the roller is extended.

Large contact surface – Improved controllability

Rubber discs have a relatively small contact surface on the conveyor belt, which means that their ability to control lateral movement of the belt is limited. By encasing rollers in a Trellex Roller Sleeve, the roll's ability to control this lateral movement is greatly enhanced. This is particularly useful on return rollers that are used in conjunction with Trellex belt guiding systems.

The rubber discs' small contact surface also leads to rapid and uneven wear, which produces undesirable vibrations, noise and mistracking. Trellex Roller Sleeve increases reliability in operation.

Trellex Roller Sleeve is easily fitted using compressed air and a special tool.



Trellex Conveyor Components

Our range:

Adhesives
Air Knife Cleaners
Belt Brushes
Belt Guiding Systems
Belt Scrapers

Belt Splicing material
Conveyor Enclosure
Conveyor Hoods
Conveyor Rollers
Conveyor Sealing Systems

Glide Bars
Hold Backs
Idlers
Impact Bars
Impact Table

Pinch protection
Pulleys
Pulley Lagging
Roller Sleeves
Wear Liner

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