



DUNLOP
BELTING PRODUCTS



Company Profile
2021/22

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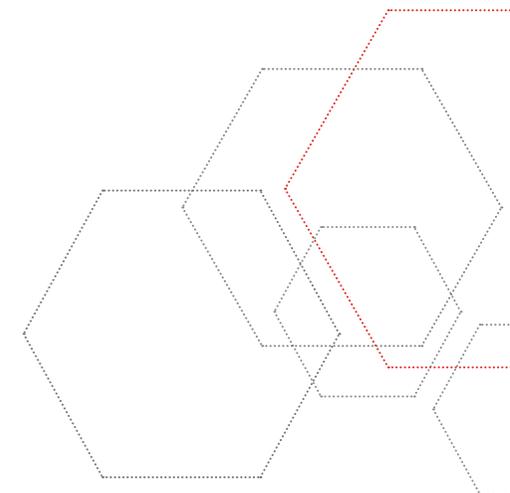
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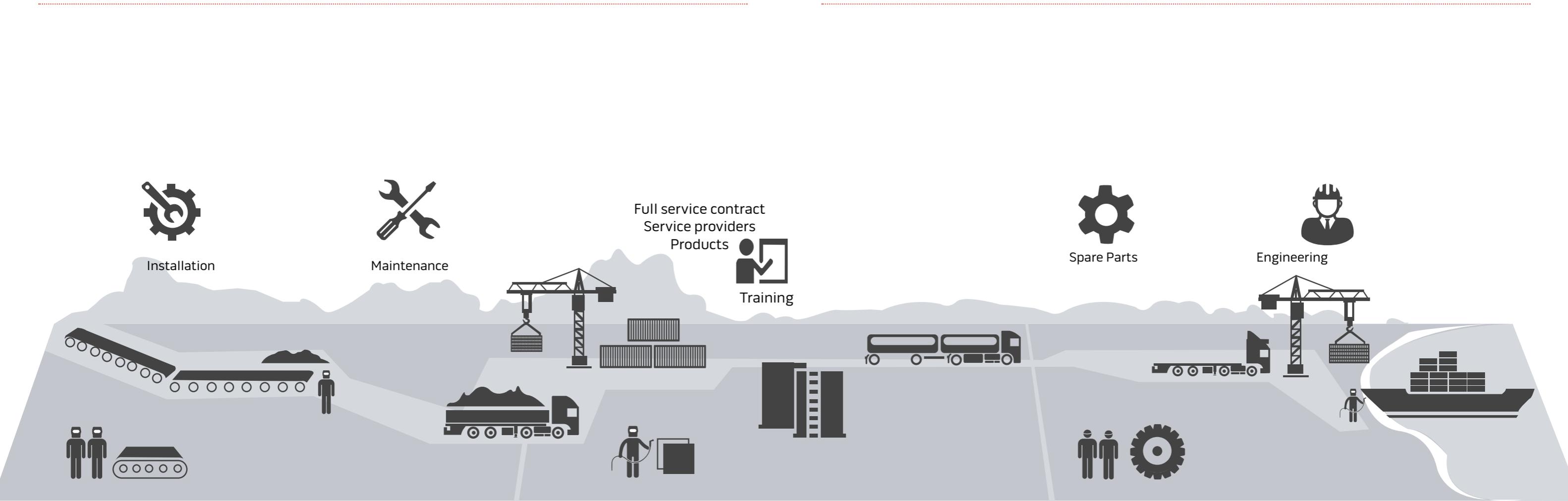
Legal Notice

All information is given to the best of our knowledge. All specifications are to be considered on-binding information. Any claim for damages of any kind is excluded. We reserve the right to change technical specifications without prior notice, provided that they ensure product improvement. The information presented is based on technical experience but does not guarantee a product's suitability for specific applications, and does not relieve the users of the responsibility to undertake their own testing, including where any third-party trademark rights are concerned.

This guide is prepared as at 14 May 2021 and supersedes all previous guides.

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Conveyor Belting

Our Conveyor Belting Portfolio of products and service systems are tailored to the customers' needs providing economically efficient and technically proven solutions. Customers profit from a differentiated product range and optimum all-round customer care by our qualified specialists. State-of-the-art technology and pioneering innovations deliver a product that is customer centric, ensuring sustainability of our customers operation and in turn our organisation.

Industrial Hose

We are one of the largest manufacturers of hand built hose in South Africa and are recognized for our leading technology. In addition, we are proud of our unique facility to design and manufacture hose to exact customer specifications, con-forming to ISO 9001: 2008 approved quality standards. Our production facility is serviced with the materials, knowledge, and hose making equipment that enable us to custom design and fabricate hose for a wide range of industrial, agricultural, & mining applications.

ABOUT DUNLOP BELTING PRODUCTS

So why partner with us?

- Black Ownership
- Level 1 BBBEE
- 100% local manufacturing
- Aggressive and effective local development initiatives
- Unmatched production capacity
- Superior technical expertise and R&D
- Local to site service support
- The largest service footprint in the country

That's DUNLOP BELTING PRODUCTS.

About DUNLOP BELTING PRODUCTS

DUNLOP BELTING PRODUCTS is South Africa's largest majority Black Owned and part Black Woman Owned local manufacturer of conveyor belts and industrial hose. We are a Level 1 BBBEE contributor and all our conveyor belts are 100% locally manufactured at our world class SABS ISO 9001:2015 accredited production facility in Benoni (Gauteng).

Our Benoni manufacturing plant employs in the region of 350 full time employees and operates on a 3 shift rotation 24/7, with a capacity to manufacture north of 500kms of conveyor belting per annum, making us the largest manufacturer of conveyor belts on the continent.

All our locally manufactured conveyor belts are accredited by SABS and conform to SANS 1366 (Steel Cord reinforced Conveyors), SANS 1173 (Plied/Fabric reinforced Conveyors) and SANS 968 (Type F Conveyors).

In addition to conveyor belt manufacturing, our conveyor service and maintenance division has one of the largest service foot prints in South Africa with 8 service branches nationally and over 30 on-site service units currently being phased in to cater for all conveyor service and maintenance requirements.

We are not just your supplier- we are your partner and as a Black Owned 100% local manufacturer, we do not merely talk about empowerment and local development- we live it and it's a part of the DUNLOP BELTING PRODUCTS DNA.

We are cognizant of the responsibility our partners have to the development of the communities in which they operate and we pro-actively assist to achieve these objectives – our numerous, successful local development initiatives are a testimony to our aggressive and unwavering commitment to broad based empowerment and local economic development.

DUNLOP BELTING PRODUCTS is a proudly South African local manufacturer that is committed to job creation and retention as well as to making a meaningful and sustainable contribution to the socio-economic development of previously disadvantaged South Africans.

Mbuso Thabethe,
CEO DUNLOP BELTING PRODUCTS

OUR BENONI PLANT



Responsible For The Manufacture Of:

- Steel Cord, Solid Woven and Fabric conveyor Belts
- Lining material for Surface Protection
- 350 employees - 3 shifts a day 24/7
- ISO 9001 2015 accredited facility



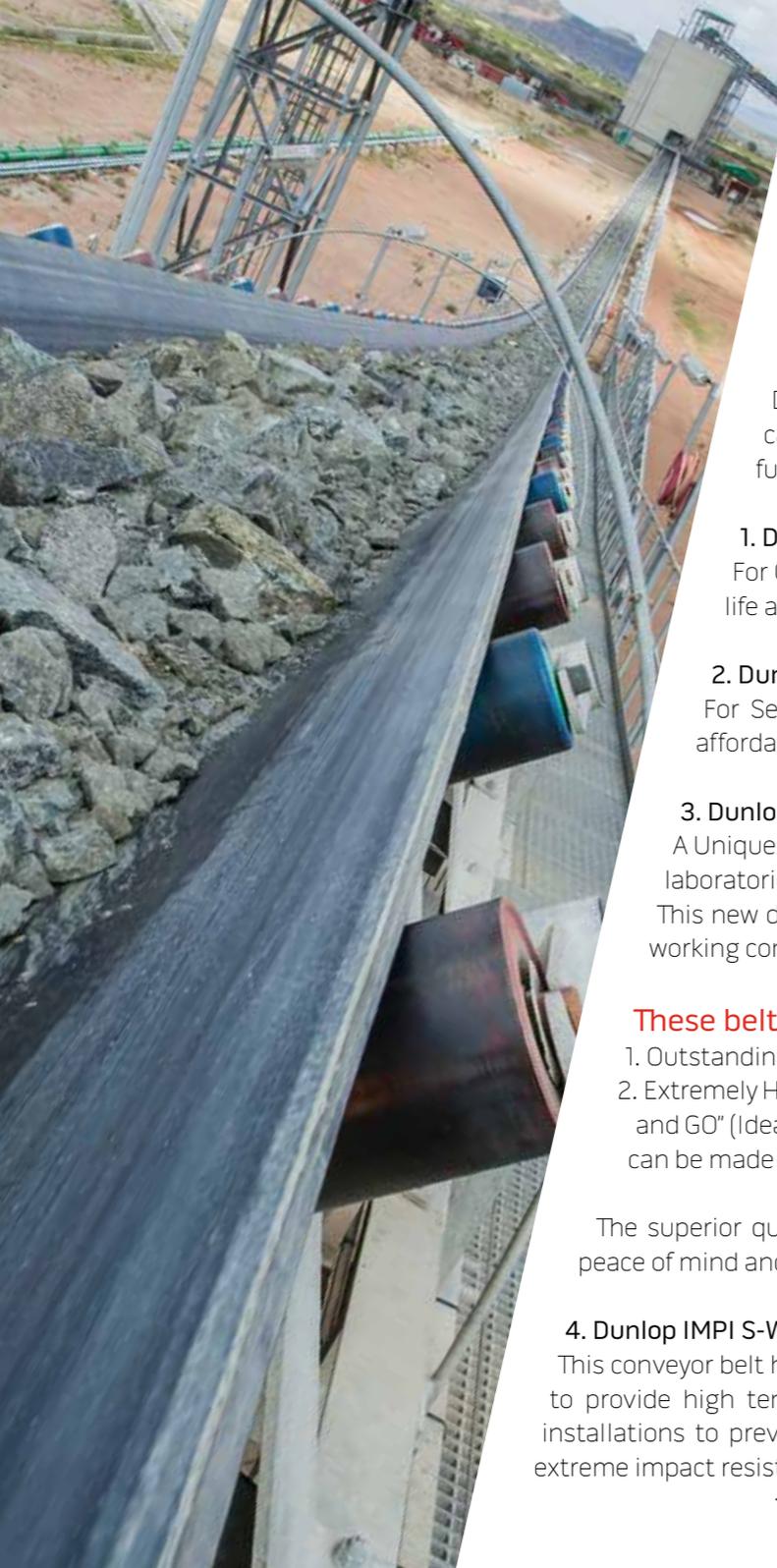
// CONVEYOR BELTING

Dunlop Belting Products believes in training local personnel to perform at world class levels and that our manufactured belts compare to and surpass the International Brand products.

Dunlop has a wide range of Conveyor Belts to suit all bulk materials handling applications.

All Dunlop manufactured belts comply with the South African Standards Authority (SABS) as well as all major International Standards.

The selection of the most suitable conveyor belt construction for a particular application must take into consideration the material conveyed, the operating environment, the length of the conveyor and the maximum belt tension.



CONVEYOR BELTING

Dunlop Conveyor Belting Range

The following are the conveyor belts manufactured by Dunlop Belting Products.

Descriptions provided are easy to read and show the capabilities and common uses of each belt type rather than the full technical explanation which is available on request.

1. Dunlop PERFORMANCE PLIED

For General use and non-severe applications. Good price and long life are the hall marks of these belts.

2. Dunlop HARD ROCK PLIED

For Severe mining operations. Made to the highest quality at an affordable Price and offer assurance to the users.

3. Dunlop HCR X-TREME PLIED

A Unique recently developed Plied belt for extreme applications. Dunlop laboratories have developed a breakthrough fabric and belt design. This new design has been tested in the most abusive, tough and harsh working conditions both locally and worldwide with great success.

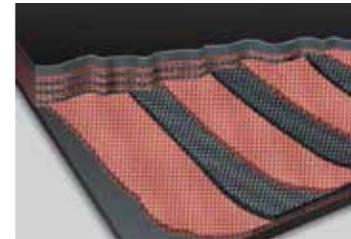
These belts provide:

1. Outstanding Impact, Cut and Gouge, Tear, Rip and Abrasion Resistance.
2. Extremely High Clip Joint Strength retention and Belt Joint longevity. "CLIP and GO" (Ideal for limiting conveyor down time until suitable arrangements can be made to Splice the belt on maintenance days)

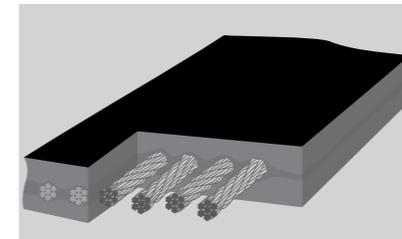
The superior quality and ability of this conveyor belt construction provides peace of mind and confidence and ensures optimum operation efficiency.

4. Dunlop IMPI S-WARP

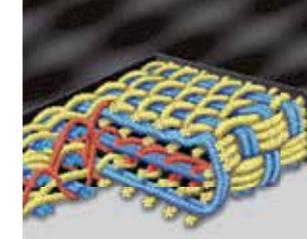
This conveyor belt has a Straight Warp carcass design which has been innovated to provide high tensile strength in a Mono or Dual ply. Used on heavy duty installations to prevent longitudinal ripping, Straight warp conveyor belts have extreme impact resistance and low elongation attributes.



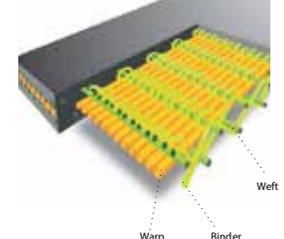
Multi-ply textile reinforced carcass conveyor belting



Steel cord reinforced carcass conveyor belting



Solid woven carcass conveyor belting



Straight warp carcass conveyor belting

5. Dunlop FIREPROOF

Dunlop is a leading producer of Fire Propagation Resistant Belting - TYPE F. Type F belts are used in Underground and Tunnel applications, where lives are at risk. Dunlop has formulated and designed these belts to be just as tough and long lasting as Hard Rock Belts. Dunlop belts have been tested and passed the most stringent requirements in South Africa, USA, Australia, Poland and Russia.

Due to the serious safety implications, each and every belt manufactured by Dunlop is tested in our Mid-Scale Fire Propagation test unit and a Certificate of Conformance is supplied to our customers.

Available in all carcass reinforcements. (Plied – Steel Cord, Aramid and Solid Woven)

6. Dunlop ARAMID

As the name implies these conveyor belts are lighter and have extremely high strengths. These Aramid belts have very high tenacity warp members which provide the exceptional high strength to weight ratio. The reduced weight ensures savings in power consumption.

In addition due to the high elastic modulus the elongation is minimal (0.3%), therefore permanent elongation is negligible.

This unique design provides extreme high tensile strength, exceptional rip and tear resistance and provides excellent durability, also suitable for smaller pulley diameters.

7. Dunlop PIPE Conveyor (DPC)

Plied and Steel Cord Pipe conveyors that really work.

Ideal for the safe and secure transportation of valuable material as well as very light or Eco (Environmentally) unfriendly material in fines or dust form such as Diamond ore, Coal, Sulphur, Cement, Fertilizer, Wood Chips and Ash.

Dunlop Pipe Conveyor designs allow excellent transverse rigidity which prevents pipe collapse and perfect seal closure.

8. Dunlop HIGH HEAT

For extreme heat conveyor applications. The belts resist temperatures of up to 200 Degrees C. Even higher temperature Resistant Plied and Steel Mesh belts are designed for specific customer needs.

These belts are formulated to provide high performance and to maintain flexibility and elasticity and to resist hardening and cracking when conveying very hot materials. Dunlop High Heat resistant belting ensures a longer belt life and reduction in replacement of conveyor belting.

CONVEYOR BELTING

9. Dunlop INSIMBI STEEL CORD

Steel Cord belts are mainly used for long overland applications as well as inclined shaft operations where Strength, Safety and Reliability are paramount.

Performance speaks louder than words and every Dunlop Steel Belt is guaranteed to provide maximum performance and maximum life.

Dunlop Steel Cord Belts have competed very successfully internationally with exports to Spain, Netherlands, Germany, USA, Russia, Israel, Chile, Peru, Middle East, Arctic and African countries.

10. Dunlop RIP GUARD (Steel Mesh)

This type of belt is made of a steel woven carcass. It is mainly used in high heat operations that require extreme cut resistance.

Available in various strengths and designs to increase productivity. Excellent for use in Foundries.

11. Dunlop TRANSPORTER

This is a single layer bulky PVC dipped woven belt used mainly in the transportation of coal underground on long trunk lines as well as strike belts.

Dunlop prides itself on a self-extinguishing anti-fire propagation conveyor belt which is extremely safe for underground use. It meets all recognized world safety standards.

Dunlop Coal's main attributes are Rip Resistance, Fire Propagation Resistance as well as Abrasive Resistance and extreme longevity.

12. Dunlop STEEP INCLINE

Steep Incline Belts (Plied and Steel) are manufactured with precision and offer the simplest yet most effective way of transporting materials in a Vertical or Steep Incline plane.

These conveyors are manufactured in Fabric or Steel construction and are custom made to suit your efficiency needs where space is a constraint.

It's main uses are in the Steel and Cement industries but are suitable for all operations.

13. Dunlop WOOD MASTER

The Wood Master Belts have been designed and formulated to provide high performance and durability for the wood product industry.

These belts perform under severe conditions while still maintaining flexibility and elasticity, eliminating rubber swelling distortion caused by wood oils

Dunlop Wood master belting ensures a longer life span and reduction in replacement costs.

14. Dunlop BUCKET ELEVATOR

These Steel Cord or Plied Cross Stabilised belts are fitted with Steel Buckets and are used in extreme angle material feeding operations such as Power Stations, Dredging, Foundries, Steel Mills, Ball Mills.

15. Dunlop GLYDER POCKET Conveyor

These belts are similar to Pipe Conveyors without the need for high structural capital outlay. Safe, Secure and Environmentally friendly conveying of similar products as conveyed using pipe conveyors.

16. Dunlop ECO FRIENDLY

The benefits of Dunlop Energy Saver and Super Energy Saver Steel Cord Conveyor Belts are derived from Low Indentation Resistant compounds formulated to reduce belt resistance when transporting material over long distances.

The energy usage saving is very evident on long overland conveyor systems.

17. Dunlop MAGNET BELTS

Used in all applications to work in conjunction with magnetic systems which remove metal from conveyed material to prevent damage to conveyor systems as well as removing metal impurities from product.

Dunlop has manufactured these magnet belts for many years and they are regarded as the best in the industry.

18. Dunlop VOLUMETRIC FEEDER

These belts are designed for feeding specific, timed quantities of material in various processes applied mainly in Power Stations.

19. Dunlop CHEVRON Belts

Used in medium incline operations to prevent material slippage when being transported.

20. Dunlop SANDWICH Belts

These belts have an all Nylon fabric carcass construction and are designed to transport sheeting or product in a sandwich formation between two conveyor belts situated one above the other (and in contact). The material is "gripped" between the two belts whilst being conveyed.

Dunlop Design Engineers will gladly assist you in making the right choice of Conveyor Belt for your application.



CONVEYOR BELTING



Tips For Optimising Conveyor Performance

Belt conveyors require regular inspection of condition of all components. The frequency of these inspections will change over the life of the system. Initially, while everything is new, less frequent inspections merely to confirm correct operation will be required. As the components age more frequent inspection will be required. Using a standardised check list helps ensure that every component is properly monitored.

The check list should include checks of free rotation of all the idler rollers, unhindered movement of the belt under all conditions of loading and free flowing loading and discharge of the material without spillage. Further-more the correct adjustment and state of wear of scrapers, ploughs and skirt seals must be checked regularly. At the beginning of each

operating shift an experienced operative must carry out the inspection of the conveyor system and while doing so verify that all is in order by completing a check list.

The check list used at every inspection should be retained so that a history of component performance can be established.

Trends stemming from the inspection history will dictate future inspection frequency.

A strict maintenance regime linked to the conveyor inspection is required. The conveyor belt condition is a very good indicator of the health of the conveyor system. In particular sudden changes to the belt condition require

immediate investigation into the cause. Poor or incorrect design, poor quality of the belt, poor quality splices, lack of maintenance on the conveyors and lack of accurate sizing of material and typically failing to pay attention to the conveyor are typically the most likely causes of conveyor belt failures.

Be Reasonable!

Look after the equipment, or outsource to an organisation able to provide expert maintenance and management services. Note that no conveyor belt will just break, as there are safety factors built into the designs. Typically these machines will provide adequate warning before failing.

Spilled material, particularly large lumps of material that are carried back into pulleys are a major cause for concern. Spilled material accumulates on and/or below the conveyor structure and if this is not rectified the belt will eventually slide continuously over the material causing cuts, gouges and rips in the belt.

Lumps of material passing around a pulley, trapped between the belt and pulley face puncture the rubber cover or fracture the carcass. Material spillage is often a cause of misalignment of the belt that can result in damage to the belt edges.



We have developed systems to continuously and automatically monitor belt condition. These include rip detection systems, belt thickness monitoring, splice condition monitoring and belt tracking monitors.

We have teams of experienced conveyor inspectors that are used to identify root cause of conveyor system malfunction, identify risks to continuous operation and check condition of all components. These teams provide fast feedback on system condition with a prioritised listing of corrective action to maintain uninterrupted operation of each conveyor. The common goal that a partnership with the operation aims to achieve is 100% conveyor availability since this represents least amount of downtime and maximises production potential.

Our offering is to make a team available to the mines to review their conveyors and identify issues, and then maintain on behalf of the mines, increasing the life of their belts and minimising operational risk. Our goal is to maximise predictive maintenance, which will lead to preventative maintenance, thereby minimising the requirement for reactive maintenance. We are able to provide a seamless, reliable, professional service, reliable splicing, after sales service, maintenance and management of conveyor



// MATERIAL PROCESSING

DUNLOP BELTING PRODUCTS specialises in the consistent optimization of production plant operational readiness.

In approximately 50 years of research and development work, we continuously improve production and application possibilities in cooperation with our customers.

INDUSTRIAL HOSE



Industrial Hose

The competitive advantage of the Industrial Hose segment within DUNLOP BELTING PRODUCTS is our customer centric approach to business due to the technical expertise we possess. The combination of years of technical expertise and specialist industry knowledge gives us a unique ability to conceptualise a solution for your plant that will exceed your expectations.

We have a proven track record with both established and new customers in the mining industry and have achieved great success in other industries such as agriculture, cement, railroad and dredge mining.

Some of our customers are Rio Tinto, De Beers, AngloGold Ashanti, Anglo Plats, Glencore, Kenmare Moma Sands, Corflex, BHP Billiton, Metso, Sibanye and Harmony Gold.

In addition to our tailor-made Hose for specialist applications, we have our standard range of Hand Built Materials Handling Hose. DUNLOP BELTING PRODUCTS has the capability to design and manufacture Industrial Hose to the unique needs and specifications of your plant and Industry.

Our production facility is serviced with the materials, knowledge, and hose making equipment that enable Dunlop Industrial Hose to custom design and fabricate hose for a wide range of industrial, agricultural, & mining applications.

Materials Include:

- The use of a range of high tensile textile cord-fabrics & Ultra high tensile steel-corded fabrics
- Widest possible range of integrally built-in couplings designed to meet the needs of specific applications.
- Rubber engineering with a range of elastomers that can be compounded to customers exacting specifications.

INDUSTRIAL HOSE



Tailor Made Hoses for Specialist Applications

- Dredge Suction & Delivery Hose
- Ceramic Lined Hose and Bends
- Pinch Valves
- Concentric / Eccentric Reducers
- Customised Fabrications
- Furnace Coolant Hoses
- Bunkering Hose
- Backfill Cementation Hose
- Fuel and Oil Handling Hose
- Oxygen Lancing Hose
- Gripon Couplings



Inner Liner:

- The Liner forms the basis of any hose.
- It is an impermeable barrier with many possible characteristics.
- These characteristics are determined by the end use of the actual hose.
- The choice of the material is based on the possible physical, chemical and thermal influences on the liner.

Steel Reinforcement:

- The Steel Wire Helix is a reinforcement which imparts added strength or suction ability to the hose.

Textile Reinforcement:

- The Textile Reinforcement imparts the required string stroke pressure capabilities of the hose.
- The final strength of the hose is determined by the requirements of the working application.
- The textile reinforcement can be braided, knitted, wound or weaved.

Cover:

- The Cover is mainly a protective layer to withstand weathering and abrasion depending on use.



// SERVICE EXCELLENCE

Our customers have for decades relied on individual all-in care and support by our highly-qualified specialists.

Outstanding quality that conforms to the highest safety requirements, materials specifically selected for a long lifetime that we manufacture ourselves, and insuring that installation is done with the greatest care and craftsmanship precision. We offer quick, flexible solutions for any market requirements.

Outstanding quality and greatest care

Proximity to your operations is our watchword, and our 8 strategically located service and maintenance branches (all authorised distributors of Rema Tip Top products) ensure quick turn around time in instances of unscheduled breakdowns that can be very costly.

24 Hours a day, seven days a week

As a conceptually strong and successful partner, we stand by our customers with a 24/7 service mentality that concentrates on their needs and requirements.

Tailor-made solutions

We combine individually matched-up ready-to-fit products with first class service. In collaboration with our customers we develop concepts that not only keep their plant or specialist operation running, but also save on resources in the long term.

We're at your service for further consultation and conceptual solutions at all times – because your success is of the highest importance to us. We specialize in ensuring that your conveyor structures and systems are always ready and operating to their maximum. This means longer service life, reduced downtime, optimized operational safety, increased production capacity and higher profits.



Further Education /Training

Comprehensive training measures

Employees who can identify (threatening) technical problems and know what to do about these are the best form of insurance for the trouble-free and productive operation of your plant.

Easy-to-understand manuals

We offer comprehensive training measures as well as continuously running training courses in our Training Academy or on-site at your facilities.

Maintenance /Upkeep

Optimal use of resources

We help you to utilize new maintenance and upkeep methods that focus on plant availability. The goal of this approach is a change from passive to active downtime management, i.e. ensuring successful long-term planning while utilizing resources in an optimal manner. In this respect, upkeep must be regarded as an investment, not as a cost factor.

WHAT IS TRAINING AND DEVELOPMENT?



What is Training and Development?

Training is an activity that helps the employee to better perform in their roles by teaching them new skills and refining their thought processes. Training and development may consist of learnerships, skills courses, on-the-job training, mentorship and coaching.

The development of management and employees is a more long-term activity that broadens the mindset of an employee, equipping them with additional information and a new perspective on a topic or discipline, helping them to be more strategic in their execution. Development expands knowledge and pushes people beyond their present mindset and broadens their way of thinking.

Good people want to advance. Good people naturally want to improve themselves and want to keep learning. They want to continuously develop their knowledge and skills and become more valuable to their organization. Such people appreciate it when their employer supports them in this.

Managers should take a real personal interest in developing their direct reports. When organizations invest considerable effort in the development of their employees, this supports their desire to advance, which is often appreciated and builds loyalty within the organization.

Training and development increases the competence of employees. The quality of a strategy and its execution depends on the quality of the people who implement it. The quality of employees can be improved by educating them. Training and development allows employees to execute their tasks in a more professional and skillful way.

Implementing a new strategy often requires a different way of thinking, a creative, resourceful mindset, which can be taught through mentorship and by training employees.

Training and developing employees supports cultural change and plays an important role when a new strategy requires cultural changes to the organisation. Training courses must be held to educate employees about the new organizational culture, such as practices, codes of conduct, and values.

Training and development helps retain talent. Young managers and professionals often place great value on formal development such as training, mentoring and coaching.

During the development of a strategy it is crucial to assess whether the organization has the people with right skills and competencies to achieve the strategy. To be successful, and implement the strategy, an organization must link its educational efforts to its strategic requirements

Many top achievers don't receive the career development support they want. While they generally receive on the job development opportunities such as high visibility positions and considerable increases in responsibility, they don't get the formal development they desire and value highly.



SUSTAINABLE BUSINESS PRACTICE



Sustainable Business Practice

We are committed to principled business conduct and operating in a responsible manner, minimizing the impact on the environment and ensuring the wellbeing of our customers, employees and the communities we operate in.

We believe that an integrated and transparent approach to governance, ethics, risk and compliance, strengthen our values and promote our objectives as a responsible business.

In a practical extension of our commitment, we empower our people at all levels of the organization, developing leadership capabilities and the relevant skills in order to shape the company's successful future.

The impetus for our Corporate Social Investment originates largely from our desire to be a contributor to the solution in South Africa by stimulating the economy through various initiatives. We are focused on good corporate citizenship

and empowerment and central to this is the desire to be a part of creating economic stability and growth within South Africa. Our current initiatives in this division focus on job creation and the empowerment and transfer of skills to young entrepreneurs (SMME's) and interns.

We support the South African government's transformation objectives and are committed to the implementation of B-BBEE. We have taken proactive steps to ensure that we adopt and implement an achievable B-BBEE strategy that contributes to the sustainability of our business. Through a diligent and disciplined approach, we have been able to secure a Level 4 rating in the Dunlop Group and a level 4 rating in the REMA TIP TOP Group of Companies which is a value add for all customers conducting business with us within the borders of South Africa.

Our drive is to find the right people who compliment the culture of the organisation and who support and uphold our values. One of the key success factors of our business are 'OUR PEOPLE – highly skilled and engaged'. In striving towards, and living out mutually agreed values, we are committed to actively developing all employees in the Company. We have defined ourselves as a learning organisation and continue to build and retain a workforce of knowledgeable workers. Through our 'Brand Academy' an initiative of our Training Foundation, we ensure the upskill of all employees and strategic partners of our group of companies.





GAUTENG

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