

technobalt
Fenner Dunlop Conveyor Belting

www.technobalt.com

Technobalt **Product Range**

Fenner Dunlop Conveyor Belting

About Technobalt

Technobalt Eesti is based in Tallinn, Estonia with branch offices in Latvia and Lithuania. Our primary activities are the supply of hi-performance conveyor belts, components and industrial supplies together with the provision of conveyor maintenance services ranging from a single conveyor right through to a complete maintenance solution. Our sales and service network covers all of the key regions in the Baltics, assisting end-users across a wide cross-section of different industries including mining, quarrying, energy, waste management and paper industries.

Technobalt has been a part of the Fenner Dunlop Group since April 2021. Operationally, we represent Dunlop Service International's operation in the Baltic States. Dunlop Service is the service division of Dunlop Conveyor Belting in The Netherlands. They operate a worldwide network of sales and service centers in the Netherlands,

United Kingdom, Italy, Spain, Ghana, and Morocco and have built an enviable reputation for service quality.

Dunlop Conveyor Belting has consistently led the world in developing and refining conveyor belts that provide top-class performance combined with the longest possible operational life-time, even under the most extreme operating conditions imaginable. All of our conveyor belts are made exclusively in The Netherlands, which means that they have total control over the quality of their products from start to finish. At Technobalt we are proud to supply the full Dunlop range of belt constructions, rubber cover combinations, and specialist products. What sets Dunlop apart from the rest is that every single belt has one thing in common – it has been designed to be the toughest, best performing, and longest-lasting conveyor belt of its kind in the world. Value for money – guaranteed!

**One team
Stronger Together**



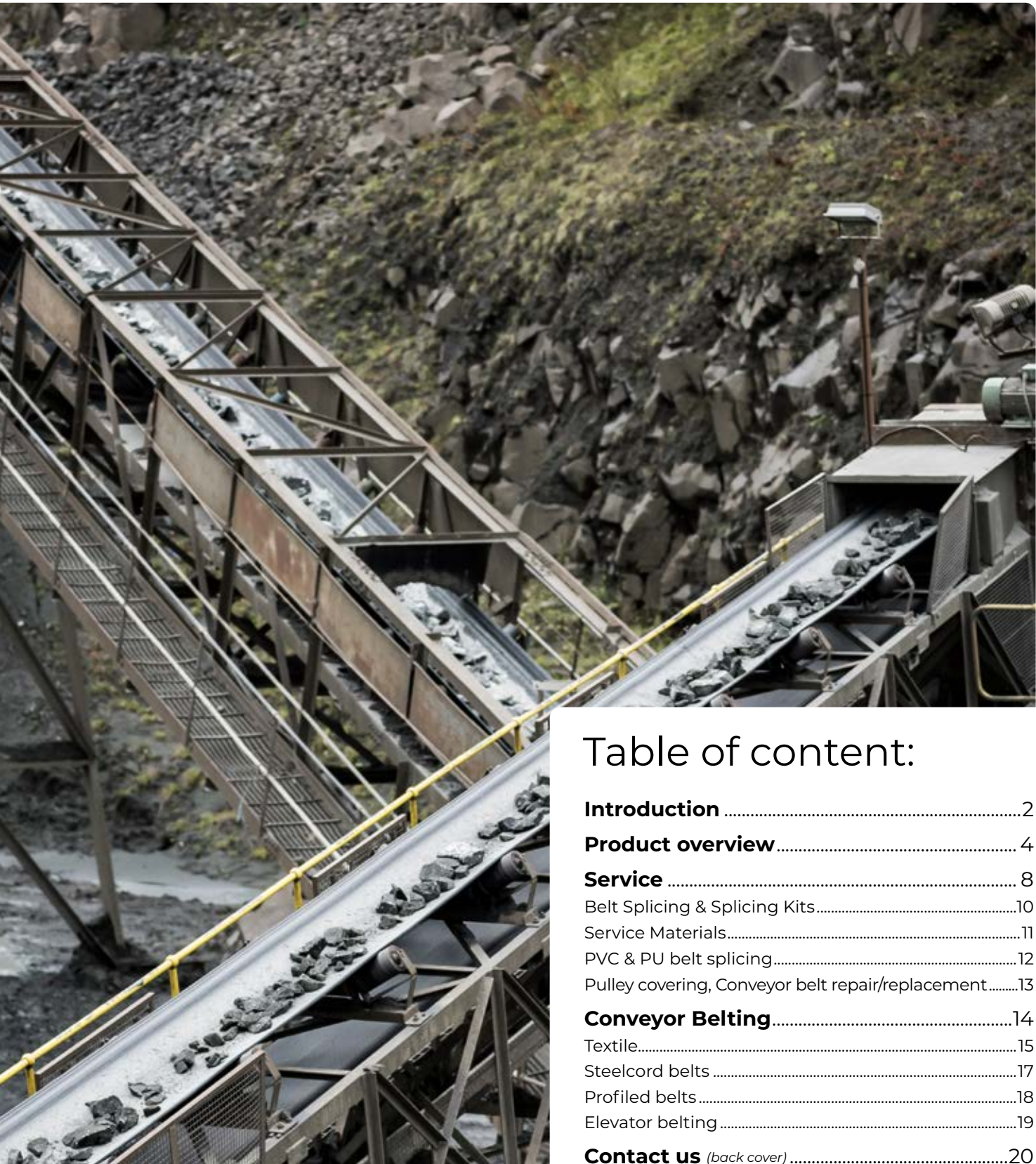


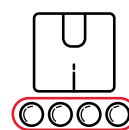
Table of content:

Introduction	2
Product overview	4
Service	8
Belt Splicing & Splicing Kits	10
Service Materials	11
PVC & PU belt splicing	12
Pulley covering, Conveyor belt repair/replacement	13
Conveyor Belting	14
Textile	15
Steelcord belts	17
Profiled belts	18
Elevator belting	19
Contact us (<i>back cover</i>)	20

Product overview

The Technobalt sales and service network covers all of the key regions in the Baltics, assisting users of conveyors across a wide cross-section of different industries including mining, quarrying, energy, waste management and paper industries. We provide a comprehensive 'total service' package of conveyor services and products designed to meet the individual needs of our customers.

Here at Technobalt, we supply market-leading Dunlop 'Made in The Netherlands' conveyor belts plus a wide range of components and spare parts. Our highly experienced team of engineers and project managers provide belt installation services, conveyor design and renovation, as well as conveyor maintenance programs that can range from a single conveyor through to complete maintenance solutions and much, much more. You can always rely on Technobalt to have the expertise and the solution.



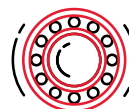
Conveyor belts



Conveyor components



Drives



Bearings

And more products for your industry!



Conveyor Belts

- Textile belts, PVC & PU belts,
- Steel belts
(Steel cord conveyor belt)
- Steel reinforced belts
(Ferroflex)
- Belt services (Services)
- Service materials



Rollers

- Upper (carrying) branch idlers
- Return idlers
- Impact rollers
- Guide rollers
- Garland sets



Idler Brackets



Drives

- Gear motors
- Electric motors
- Frequency Inverters
- Drum motors



Conveyor Covers



Bearings

- Standard bearings
- Bearing units



Couplings



Belts and Belt Pulleys

- V-belts
- Variable belts
- Timing belts
- Power belts



Belt self-aligning units



Pulleys

- Drive pulleys
- Tail pulleys
- Bend pulleys
- Take-up pulleys
- Drum & pulley lagging



Belt Cleaners

- Primary cleaners
- Secondary cleaners
- Return belt plough cleaners
- Pulley cleaners
- Belt brush cleaners



Belt scales



Conveyor Chains



Roller chains



Sprockets



Safety Devices

The best solutions for the following industries



Mining
& Quarries



Energy



Pulp
& Paper



Terminal
& Stevedore



Waste
management

Drive Solutions

Technobalt is the official service and distribution partner for NORD DRIVESYSTEMS in the Baltic States. We supply a wide selection of NORD geared motors, electric motors and drive electronics in various sizes and versions. We also provide a very high level of customer service and the industry's shortest lead times.



UNICASE parallel gear motor

NORD Parallel Shaft Geared Motors are highly suitable for use in applications with confined installation spaces. They offer a wide range of torques from 100 to 100,000 Nm.



UNICASE worm gear motor

Thanks to their universal housing, NORD Worm Gear Units can be quickly and simply configured for a wide range of applications.



UNICASE and NORDBLOC helical inline gear motors

In spite of their high torque of up to 26,000 Nm, our Helical Geared Motors operate with great energy efficiency. The drives are wash-down capable and provide many connection options.



UNICASE



NORDBLOC

Service

1. Belt Splicing & Splicing Kits
2. Service Materials
3. PVC & PU belt splicing
4. Pulley covering
5. Conveyor belt repair/replacement

Lowest lifetime cost – guaranteed!

An integral part of the service we provide is helping to lower the cost per tonne of material conveyed and reduce the annual running costs of your conveyors by supplying only the very highest quality conveyor belts. For example, all of our Dunlop 'Made in the Netherlands' conveyor belts are designed to provide at least 50% lower lifetime cost compared to belts being offered by other manufacturers, both inside and outside of Europe. Longer life = lower cost!

Introduction

At Technobalt, our priority is to do whatever it takes to keep your operation moving with the absolute minimum of interruption. We achieve this by providing first-class emergency breakdown services and contracted maintenance programs that help avoid unscheduled downtime and lost production. Improving conveyor efficiency helps to maximize production and minimise costs.



Our highly experienced, fully qualified team of technicians maintain and service a wide range of conveyor systems and equipment. We believe in working closely with our customers in order to develop a comprehensive, cost-effective service maintenance program that is unique to your applications and your budget including:

- **Preventative maintenance programmes – inspections & servicing**
- **Site call-outs – contracted or emergency services**
- **Telephone assistance 24/7**
- **Electrical & mechanical services**
- **Conveyor system inspection & repairs**
- **Repairs, overhauls & upgrades**
- **Retrofit replacement equipment**
- **Consultancy – to identify cost savings and improve operational efficiencies**

1. Belt Splicing & Splicing Kits

SPLICING SERVICES

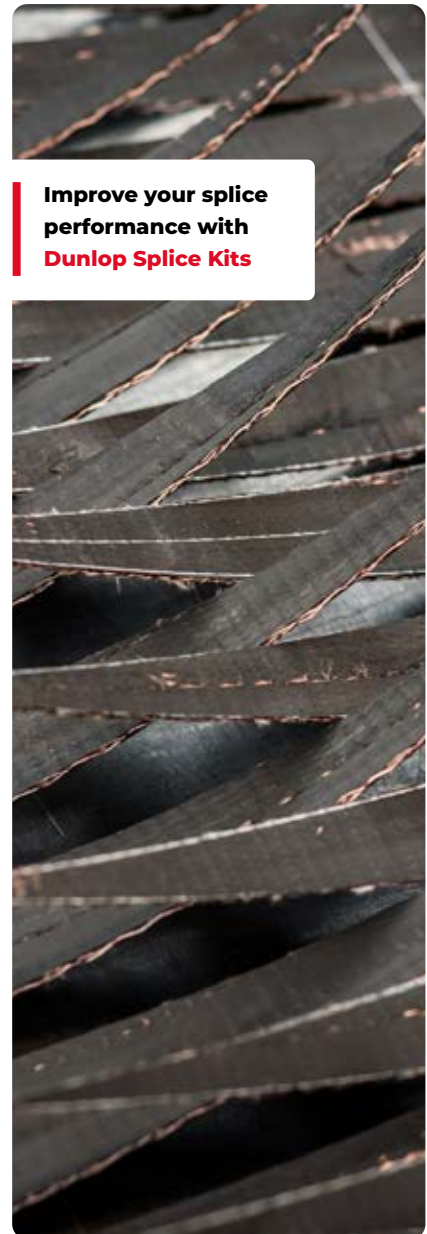
Our ongoing recruitment and training program ensures that our conveyor belt splicing teams are the best in the business. At Technobalt we offer both on-site and endless splicing services using our facilities. Our technicians are proficient in the splicing of all types of conveyor belts – plied rubber, solid woven PVC, and steel cord. With this kind of flexibility, you can be sure that we will provide your company with an unrivalled level of service.

SPLICE KITS

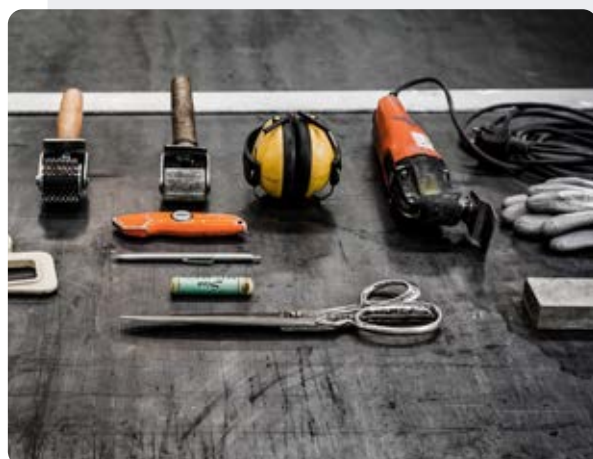
The weakest point of any rubber conveyor belt is the splice joint. If the splice joint is not sufficiently strong and durable then failure can be catastrophic. To get the best operational results it is essential that the splicing material rubber has very similar physical properties and characteristics compared to the rubber used to make the belt itself including the outer cover rubber and the skim

(inter-ply) rubber. This is because each rubber-based component has very specific properties applicable to its function. The splicing materials must also be a compatible match to bond with each other. This is vital in order to ensure that the most efficient bond possible with good adhesions on both carcass and the transition to the base belt is created. These objectives are usually best achieved by using splicing materials supplied by the original manufacturer of the belt.

In order to help our customers achieve the strongest, most reliable splice joints, we supply a wide range of high performance splicing materials and splicing kits. A virtually unique feature of the Dunlop range is that it has been developed by the same engineers and technicians who developed the conveyor belts they are designed to be used on. This means that Dunlop splicing materials and kits are as close to the perfect match that it is possible to achieve. The result is optimum performance in terms of adhesion, dynamic life and efficient application.



Improve your splice performance with Dunlop Splice Kits



Splicing kits

We supply full splicing kits containing everything necessary to create strong and durable splice joints for a wide range of cover qualities including abrasion, heat, fire and oil resistant versions and different belt types such as UsFlex and Ferroflex. The range also includes standard and pre-formed splicing kits for steelcord belting. All splicing materials and kits can be ordered in bulk quantities.

2. Service Materials

Adhesives, Solutions & Solvents, Belt Maintenance & Repair, Splicing materials, Rubber materials.

*Service materials from **Technobalt** facilitate optimal splicing, maintenance and repair of conveyor belts. Pulley lagging materials. Wear resistant rubber material for loading and unloading areas.*

SPLICING MATERIALS

Dundisol hot vulcanization solution provides the best possible tack characteristics during the assembly of the splice and excellent adhesion levels in combination with Dunlofol.

Dunlofol uncured inter-ply rubber is designed for use on the 'steps' of the splice to rebuild the belt carcass.

Duncover uncured cover rubber is for use on the top and bottom of the splice to rebuild the belt's cover area.

Uncured rubberised fabrics can be provided for use as reinforcements in heavy duty / high tensile splices, for making 'spot repairs' and for speciality splices such as UsFlex finger splices.

Enerkol Cold Glue & Hardener Cement For cold splicing of conveyor belts with textile carcass suitable for abrasion resistant rubber covers. Enerkol is also a highly effective bonding glue for pulley lagging*. (* For this purpose we advise that a special steel primer is used.)

The safest splicing materials

Nobody in our industry works so physically close to rubber conveyor belts than splicing technicians. Yet another virtually unique advantage of using Dunlop splicing materials is that they are compliant with **REACH** (Registration, Evaluation and Authorisation of Chemical substances) regulation EC 1907/2006.

These regulations stipulate that all European manufacturers are legally obliged to comply with the regulations relating to chemicals, preparations (mixtures) and substances used to create finished products. The European Chemicals Agency (ECHA) based in Helsinki is the central point in the REACH system. At Technobalt, we believe that REACH compliance is very important for the health and well-being of our customers a vital consideration for anyone responsible for the welfare of those who use splicing materials as part of their daily function.



INDUSTRIAL RUBBER SHEETING

Dunlop Ultima can be bonded to most surfaces using the majority of good quality cold bonding systems available in the market. In applications where Ultima with an adhesive layer (AL) is used there is no need for time-consuming grinding prior to bond. The adhesive layer is protected by a plastic film, which enables rapid processing. The combination of high adhesion and high tensile strength in the adhesive layer ensures maximum bond strength and increased reliability.

- **EXCELLENT WEAR RESISTANCE**
- **SAFE TO HANDLE**
Fully compliant with REACH regulations
- **EXCELLENT ADHESION CAPABILITIES**



3. PVC and PU Conveyor belts

Polyurethane (PU) and polyvinyl chloride (PVC) conveyor belts are commonly used for the transport of relatively lightweight, non-aggressive materials. These types of conveyor belts can be ordered specifically according to the material being conveyed, by different thickness, number of layers and many other factors. PVC and PU conveyor belts have the advan-

tage of not creating unsightly marks on the material being carried. We hold good levels of stock of PVC and PU belting in our operational centres in Estonia, Latvia and Lithuania. As with rubber belting, we also provide a splicing services, both in our own workshops and on site.

Most commonly used materials

PVC

Good wear resistance, most commonly used, economically priced. Available with different hardness covers.

PU

Very good wear resistance, used on fast running and high abrasion positions.

Polyolefin

Very good chemical resistance, used in color chambers.

Conveyor belt attachments

- Guide profiles
- Cleats
- Mechanical fasteners
- Vacuum holes
- Side profiles

4. Pulley Covering

Pulley Lagging for all styles and types of head, tail, snub, bends, take-ups and drives.

Pulleys are a critical part of virtually all conventional conveyor systems and therefore need to be hard-wearing and reliable. However, even a top quality pulley can fail if the lagging used to protect it and the surfaces of the conveyor belts does not perform the way it should do. A key function of pulley lagging

is to increase the traction (surface grip) between the belt and the pulley. This in turn reduces load and wear on the drive motor, the conveyor belt, the pulleys, bearings and take-up mechanisms. Failure of the lagging material can quite easily cause a very expensive shut down of an entire operation.

Dunlop Pulley Lagging

Dunlop Ultima Pulley Lagging is made from top quality, high abrasion resistant premium grade rubber and provides outstanding wear life and value for money. The grooved diamond profile allows moisture to disperse and reduces material build-up and slippage between belt and pulley. The lagging also effectively acts as a wear indicator so maintenance can be planned before the steel face of the pulley becomes damaged. Dunlop Ultima lagging has a Neoprene based adhesion layer that creates a simple but highly effective bonding to steel pulley surfaces when used with the appropriate bonding system. Ultima is suitable for use on all drive and non-drive pulleys and can also be applied in a single sheet to minimise the number of joints.

Key features

- Exclusively 'Manufactured in the Netherlands'
- Extends the lifetime of plant infrastructure
- Protects against abrasion, chemicals, acid and noise
- Prevents the build-up of transported bulk material, water, snow or ice
- Optimises friction (grip) between surfaces of the lagging and the belt
- Safe to handle - fully compliant with REACH regulations
- Excellent adhesion capabilities
- Low maintenance / easy to clean

Ceramic lagging solutions

Ceramic lagging provides the highest possible level of wear resistance by using aluminium oxide tiles that are moulded into the surface of the lagging. These tiles are extremely hard and resistant to cutting and gouging and surface wear caused by just about every type of sharp, aggressive material imaginable.

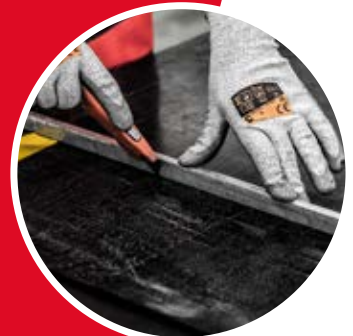


Learn More about
Dunlop Pulley Lagging
by scanning QR code.



5. Conveyor Belt repair/replacement

We keep conveyors running by providing an emergency breakdown service to minimise unscheduled downtime and lost production. Our aim is to keep your business moving, increase output and avoid unnecessary expenses. When there is a crisis you can always count on our team to provide quick and solid repairs or replacements.



Conveyor Belting

by Dunlop Conveyor Belting

The Dunlop conveyor belt range - meeting all of your needs



To find out more about the full range of Dunlop premium-grade conveyor belting, including the wide selection of specialist cover grades such as fire resistant and extreme cold resistant, simply visit:

www.dunlopcb.com/conveyor-belts/



- We make all of our belts ourselves – we do not import from Asia or elsewhere.
- We make all of our own rubber compounds.
- We test, research and develop using our own facilities.
- We employ world-leading experts who provide first class technical support.
- All Dunlop belts exceed international standards.
- Every belt can be used in **ATEX** regulated areas.
- Every belt is fully ozone resistant and tested according to EN/ISO 1431.
- Safe to handle - every belt complies with European **REACH** regulations.
- Only the very best quality materials are used.
- Every rubber compound has been specifically developed so that Dunlop belts out-perform our competitors.
- Every compound batch is quality tested in the laboratory before it is allowed to be used in belt production.
- Every meter of Dunlop belt undergoes the toughest quality checks throughout the production process.

Superfort®

textile**multi-ply**

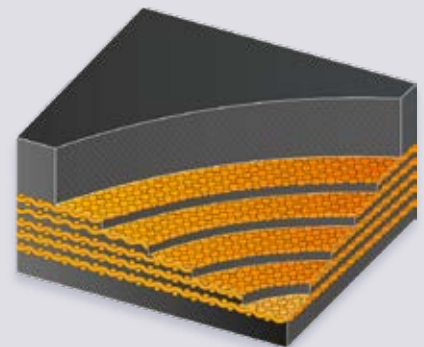
Dunlop Superfort 'long life' multi-ply conveyor belts have a long history of outstanding reliability and durability. These factors include abrasion (wear) resistance, tensile strength at break (for both the carcass and the covers), adhesion between the plies and between the covers and the carcass. It also has particularly good low elongation (low stretch) characteristics. Dunlop Superfort 'long life' belts are the ideal solution from light-duty up to the very heaviest materials.

APPLICATION AREAS

Outstanding reliability and durability in a wide cross-section of industries including cement, chemicals & fertilizers, mining, quarries, power plants, recycling, wood, paper and pulp, sugar & food, steel, and transshipment.

AVAILABILITY

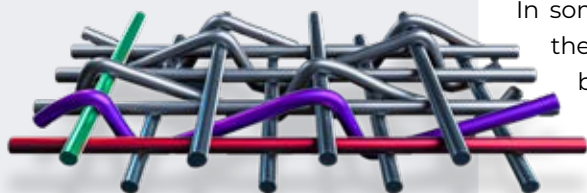
Dunlop Superfort belts are available from stock in widths from 400 mm up to 2200 mm and in tensile strengths from 250 N/mm up to 1000 N/mm. Superfort belts with tensile strengths up to 3150 N/mm can be custom-made to order (including abrasion resistant, heat resistant, extreme cold, oil-resistant, fire resistant, heat & oil)



Scan the QR code
to learn more about
Dunlop Superfort®



Straight-warp construction



Key features:

- Unrivalled impact, rip and tear resistance
- High strength
- Excellent load support
- Outstanding troughability

Scan the QR code to learn more about Dunlop UsFlex®



UsFlex®

textile

single-ply

In some applications, especially primary and secondary crushers, even the strongest and heaviest conventional belts can be ripped or torn by large lumps of heavy, sharp objects, either falling from a height or becoming trapped. In extreme cases, belts can be destroyed within a matter of weeks or months. The Dunlop solution to this problem is UsFlex, which has a longitudinal rip resistance that is more than five times stronger than multi-ply belts of equivalent rating because of its unique 'straight-warp' construction. UsFlex provides impact resistance up to three times greater than that of conventional plied belting. This unequaled toughness means that UsFlex will provide the longest belt life even in the harshest conveying conditions.

APPLICATION AREAS

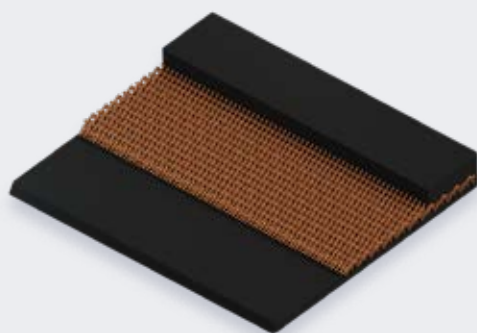
Suitable for use in all areas, especially in high impact conditions and low maintenance environments including the mining, quarry, wood, paper and pulp, recycling, road construction, steel, and transshipment industries.

AVAILABILITY

Dunlop UsFlex is available from stock in two tensile strengths; 630/1 6+3 and 1000/2 8+3 in widths up to 2000mm. UsFlex belts are supplied with the abrasion-resistant 'RS' cover as standard. The Dunlop RS cover grade exceeds the very highest DIN and ISO grades (DIN W and ISO 14890 'D'). Other tensile strengths and cover qualities can be made to order. Available in widths from 400 mm up to 2200 mm.



A new, economical solution to expensive problems



Scan the QR code to learn more about Dunlop Ultra X®



Ultra X®

textile

single-ply

In a great many industries, up to 80% of conveyor belts have to be replaced because of accidental damage long before they are worn out. Even the thickest, heaviest belts can be ripped, torn or punctured by heavy, sharp materials or foreign objects falling from a height or becoming trapped. Belts can often be destroyed within a matter of weeks or months. The answer is – Ultra X, our super strength abrasion-resistant breaker weft construction single-ply belt.

APPLICATION AREAS

Ultra X1 is a stronger alternative to 250/2, 315/2 and 400/3 abrasion-resistant multi-ply belts. Ultra X3 is designed as a stronger alternative to 500/3, 500/4, 630/3 and (630/4 abrasion-resistant multi-ply belts.

AVAILABILITY

In order to provide the most economical prices possible, Ultra X is only available in full rolls of 300 m or alternatively 2 X 150 m rolls if necessary.

Key Advantages:

- More than 3 times greater longitudinal rip resistance
- Up to 5 times better tear resistance
- Far superior impact resistance
- Up to 90% tensile splice strength (using finger splice method)
- Excellent mechanical fastener retention
- Greater flexibility – can be used on smaller than usual pulleys



Steel Cord

The worldwide Fenner Dunlop Group has more than 40 years of experience in producing top-quality steelcord belting. In our manufacturing facilities in The Netherlands, we combine all of that experience with the latest, most technologically advanced steelcord manufacturing line in the world. This combination is used to produce belts that provide outstanding reliability and durability and exceed just about every international standard imaginable.

- **Unbeatable wear resistance – longer operational lifetime**
- **Low elongation**
- **Low maintenance**
- **First class splicing characteristics**



Scan the QR code
to learn more about
Dunlop Steel Cord



AVAILABILITY

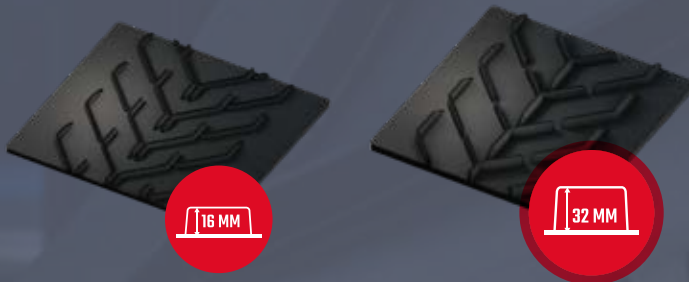
All Dunlop steelcord belts are custom made to order and can be supplied with or without breakers in a wide range of Dunlop abrasion, cut, rip & tear cover grades as well as oil-resistant and fire-resistant. Available in widths from 500 to 1600 mm, all Dunlop steelcord belting has moulded rubber edges

APPLICATION AREAS

Dunlop steelcord belts are used in a wide cross-section of industries.

Profiled Belts

Chevron and High Chevron



To find out more about Dunlop chevron belting as well as other types of Dunlop profiled belts such as Multiprof and Fishbone, please scan the QR code.

SUPER STRENGTH

Dunlop 'super strength' chevron belts are quite simply the strongest and most reliable chevron belts available today. Unlike nearly all other manufacturers, Dunlop profiles are moulded and vulcanised in one continuous production process together with the base belt to form a single, homogeneous belt structure. Apart from the far superior strength, another key advantage is that this allows the use of smaller pulley diameters.

APPLICATION AREAS

There are two chevron height sizes to choose from – 16mm (low chevron) and 32mm (high chevron). The 16mm high profile is typically suitable for smaller lump sizes and conveyor angles up to 20 to 25 degrees. For larger lump sizes and steeper inclinations, the 32mm high chevron profile will provide the best results. Dunlop Superfort 'super strength' chevron belts can handle everything from light duty applications up to the very heaviest, toughest materials and the most challenging working environments.

AVAILABILITY

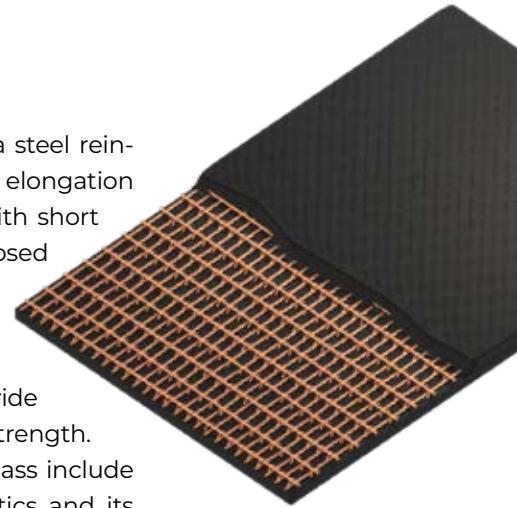
Standard profile widths range from 400mm up to 1600mm, depending on profile type. Dunlop 'super strength' chevron belts are available in RA (high abrasion resistant), and ROS (mineral oil resistant) qualities. Other cover grades are available on request. All Dunlop chevron belts are supplied with moulded edges.

Elevator Belting

Elevator belts are often exposed to some of the most physically demanding and technically challenging environments imaginable. The consequences of an elevator belt failing can be catastrophic. This is why safety must always be the single most important consideration.

Dunlop Ferrofex® steel reinforced elevator belts

The highly successful Dunlop Ferrofex elevator belt has a steel reinforced carcass construction with particularly good low elongation characteristics. This makes it ideally suited to elevators with short take-up systems. Ferrofex 'SW' has a tension layer composed of longitudinal steel cords, through which power transmission is effected, together with two transversal layers of steel cords situated on either side of the longitudinal steel cords. These transverse steel cords reinforce the belt to provide outstanding durability and excellent bucket and fastener strength. Other significant advantages of the Dunlop Ferrofex carcass include high bolt tear resistance, excellent clamping characteristics and its suitability for use on conveyors with small pulley diameters. In addition to the Ferrofex SW standard 'full width' steel-reinforced carcass there is also the Ferrofex FKS, which has custom-made 'cable-free zones'. These zones make the installation of buckets and fasteners easier and help to create a dynamically stronger endless belt.

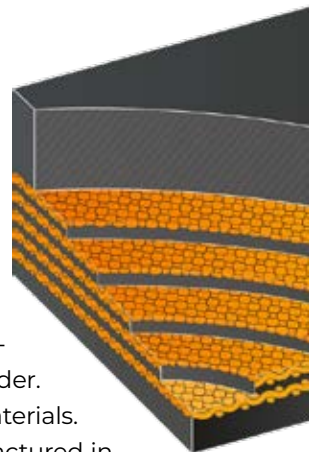


Steel reinforced carcass construction

Dunlop Superfort® fabric-ply reinforced elevator belts

The tried and tested Dunlop Superfort carcass construction elevator belts provide outstanding reliability and durability with the added advantage of very low elongation (low stretch) characteristics. Dunlop Superfort elevator belts significantly exceed the international standards for tear strength, elongation at break, tensile strength at break (for both the carcass and the covers) as well as excellent adhesion between the plies and between the covers and the carcass.

Because of the extremely wide range of available specifications, carcass constructions and cover grades, all Dunlop elevator belts are custom made to order. Each belt carries a 24-month warranty against faulty workmanship and/or materials. As with all Dunlop conveyor belts, every belt we supply is exclusively manufactured in our own production facilities in The Netherlands. Every belt is fully compliant with REACH regulations to safeguard both human health and the environment and is fully resistant to the damaging effects of ozone and ultra violet light according to ISO 1431 test methods. Unlike other manufacturers, we do not import and re-sell belt made by other manufacturers.



Scan the QR code to learn more about Dunlop's steel and fabric-ply reinforced belts.





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