

FENNER  DUNLOP
CONVEYOR BELTING

TOUGHEST CONVEYOR BELT PRODUCTS IN THE WORLD!



LONGEST LASTING

HEAVIEST LOADS

NORTH AMERICAN MADE

USA WEAVING & TREATING

150 YEARS OF TRADITION

We are proud to offer you the hardest working & longest lasting conveyor belts!

We make all of our belts in North American Fenner Dunlop factories – we do not import from other manufacturers in Asia or elsewhere. By weaving and treating our own fabric and pressing our own belts, we can ensure the integrity of our conveyor belts by monitoring each step of the production process.



We set the standard for conveyor belts through our involvement with various organizations.

All Fenner Dunlop belts exceed International Standards. Every belt is ozone resistant to withstand premature aging and cracking.

Environmentally Aware

By manufacturing robust product and being mindful of the materials we use, Fenner Dunlop is committed to Environmental Sustainability.



We employ globally recognized experts who provide first-class support. Our qualified technical team ensure your belts will achieve the best performance.

Welcome to Fenner Dunlop

The leader in serving all of your industrial conveyor belt demands!

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WE MAKE OUR OWN BELTS RIGHT HERE IN NORTH AMERICA

At Fenner Dunlop, we hold quality control in the highest regard. We accomplish this through ensuring the integrity of our conveyor belt manufacturing by monitoring each step of the production process.

Focused attention is given to each belting order to ensure that the materials and processes used to produce a belt will assist the end-user in reducing operation costs, maximizing uptime, and improving revenue.



Rubber belt

Manufacturing Process

RECEIVING YARN — TWISTING — BEAMING — WEAVING
— TREATING — CALENDERING — LAMINATE — CURING

NORTH AMERICA FACILITIES

UNITED STATES & CANADA

Production is then passed on to our conveyor belt manufacturing plants in Port Clinton, OH, Toledo, OH, and Bracebridge, Ontario.

Our state-of-the-art fabric weaving facility in Lavonia, GA is one of a kind in our industry.

We have invested more than \$150MM in our North American plants, and are proud to have the longest press in the world. Each of our 4 ISO 9001 Certified manufacturing facilities delivers measurable, sustainable results in the field, day in and day out.

We research, test and develop using our own facilities. Every compound batch is quality tested in the laboratory before it is used in belt production. Every foot of Fenner Dunlop belt undergoes the toughest quality checks throughout the production process.

We use only the very best materials in the production of each of our belts. We specially design all our rubber compounds to deliver maximum performance.

We are the only manufacturer to use a state-of-the-art fabric treating process to maximize rubber to fabric adhesion, eliminating belt delamination failures. We pair this technology with advanced production equipment in our three facilities in Ohio and Ontario.

We are proud of our new calender machine that has the latest high-pressure rollers to finish and smooth our carcass and cover compounds.

The Result = Unmatched Conveyor Belting Performance



Corporate office
Pittsburgh, PA



Manufacturing Plants
Lavonia, GA | Port Clinton, OH | Toledo, OH | Bracebridge, Ontario



Diagnostics Plant
Bluefield, WV



1861

Company founded by Joseph Henry Fenner in Hull, UK.

1920's

Production of woven transmission belting.

1937

Fenner becomes a public company traded on the London Stock Exchange.

1939

Wartime production of fire hose and military webbings.

- 1945

1960's

Straight warp belt UsFlex Patented.

1961

New Research and Development facility opened in Hull.

1996

Acquisition of Scandura Conveyor Belting.

**OVER 150 YEARS OF
MANUFACTURING
EXPERTISE**

HISTORY

OF FENNER DUNLOP

2001

Acquisition of UniPoly (Dunlop/Georgia Duck) Conveyor Belting.

2009

Expansion at Port Clinton, Ohio with two new high capacity belt presses.

2017

Patriot X dual crimp weave for lighter applications patented.

2010

Dual Crimp weave belt Nova-X patented.

2007

Opened new state of the art weaving facility in Lavonia, Georgia.

2020

Today

Fenner Dunlop delivers measurable, sustainable results in the field day in and day out. We make all of our own carcass materials and specially design our rubber compounds to outperform the competition. We are mindful of the materials for a more robust product and a better environmental footprint.

We are proud of the fact that over the course of our long history, our engineers and technicians have **consistently led the world** in developing and refining conveyor belts that provide **top-class performance combined with the longest possible operational lifetime.**



WE HAVE THE BEST COMBINATION OF CARCASS AND COVER COMPOUNDS TO MEET THE MOST DEMANDING APPLICATIONS!

Conveyor belts have to withstand an enormously wide range of physical and environmental conditions as well as increasingly tough safety demands.

**To meet these demands
requires conveyor belts
that have a carcass
construction that is capable
of handling extreme strains
and forces.**



**At the same time, the
rubber covers must
have the resistance and
durability needed to
protect that carcass over a
long period of time.**

It is the combination of top quality carcass construction and rubber cover compounds that will ultimately determine the operational lifetime of a conveyor belt and, overall, its cost effectiveness.

You need both the cover compound and the carcasses to work together to create the optimal product for your specific needs.

You need conveyor belts that provide the highest productivity for your operation.

You need Fenner Dunlop on your team.

Selecting the most suitable belt construction and cover compound quality depends on several different factors. The final choice from the available options for each application will depend on the actual working conditions.

FENNER DUNLOP CARCASSES

Fenner Dunlop produces a full range of the highest quality fabric and steel cord conveyor belts for your specific needs. Our reinforced, woven fabric made in the USA, consistently outperforms the competition in rigorous applications.



1st to market, best in class.
Straight warp + patented dual crimp weave.
Stronger & tougher than standard plied belts.
Best rip, tear, and impact resistance in the market.



— Ultra-strength, best in class straight warp fabric.



— Only Dual Crimp weave carcasses on the market!



The best engineered plied belting for a wide range of rigorous applications.



— Tough fabric plies vulcanized together with premium rubber skins, creating superior adhesions.



— Superb product for less demanding applications.



Best in class, one of a kind carcasses designed with your special application needs.

DYNAFLIGHT, HOTSHOT & ROYALON

X **SERIES**

X SERIES™

Our premium, longest-lasting fabric belts

- Straight warp + patented dual crimp weave
- Stronger and tougher than standard plied belts
- Best rip, tear and impact resistance in the market!

Members of the **X Series™** Group



Our high-performance manufacturing specifications meet the needs of your toughest applications.



US USFLEX[®]

Meet the UsFlex[®] Family

UsFlex covers almost every application, with specific Flex versions for Mining, Grain Handling, and Power Generation

- UsFlex[®]
- UsFlex W[™] (low stretch)
- Double UsFlex[™]
- KordFlex[™]
- MineFlex[™]
- LongFlex[™]
- LongFlex W[™]
- GrainFlex[™]
- PowerFlex[™]

Choose either Single Unit S or dual unit D series for outstanding carcass style and tension rating

DynaFlex[™]
BREAKER SYSTEM

USFLEX[®]



Not only are we the first to market straight warp, we are also **2x more rip resistant vs. competitors.**

Heavy weight straight warp weave with binding cords that are the most durable.

Markets & Applications

- Aggregates
- Crushed Stone
- Hard Rock/Heavy Metals
- Sand & Gravel
- Ready Mix
- Cement
- Phosphate
- Recycling

UsFlex[®] is a revolutionary concept in straight-warp conveyor belts.

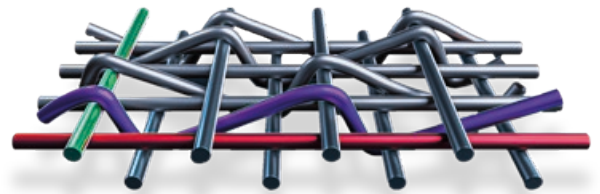
UsFlex is different from the competition. We use heavyweight straight yarns in parallel planes – lengthwise and crosswise – locked together with a unique binder to concentrate belt strength.

Our parallel planes reinforce like the multiple plies of traditional belts but without the crimping that weakens and stretches the yarn. Our binder is a built-in breaker to resist impacts and punctures.

For applications that require lower stretch, UsFlex W is available.

3x

IMPACT RESISTANCE UP TO THREE TIMES GREATER



Straight-warp construction

-  Weft
-  Binder Warp
-  Straight Warp

- ✓ Get longer belt life in tough service
- ✓ Greater cost savings per ton conveyed
- ✓ Greater rip, tear and impact resistance
- ✓ High strength
- ✓ Excellent load support, troughability, and tracking
- ✓ Increased insurance against belt damage
- ✓ Impact resistance up to three times greater than traditional plied belt construction
- ✓ Longitudinal rip resistance more than three times equivalent-rated multi-ply belts



BREAKER FABRICS

DynaFlex™

DynaFlex™ breaker fabrics are engineered with the properties and characteristics of our premium UsFlex® carcass construction.

DynaFlex™ is used primarily as a breaker fabric for our DynaFlight™ steel cord belting and in some cases for select fabric carcasses.

For protection beyond detection use the new standard in breaker fabrics: DynaFlex™.

DYNAFLEX™ AND KORDFLEX™

Markets & Applications

- Power Generation
- Hard Rock/Heavy Metals
- Stacker/reclaimer & bulk terminal conveyors
- Ship unloaders, high capacity feeders, unit train load-outs
- Long overland conveyors

ARAMID REINFORCED

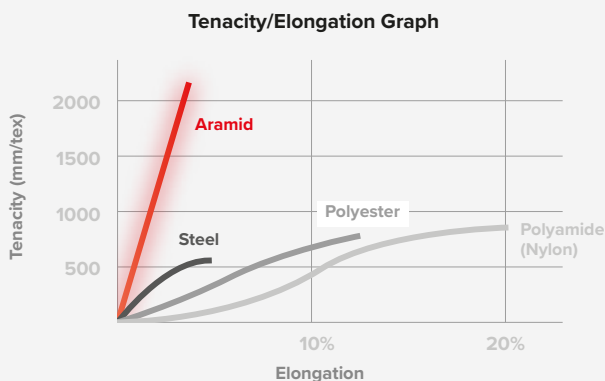
KordFlex™

Premium aramid reinforced straight warp carcass

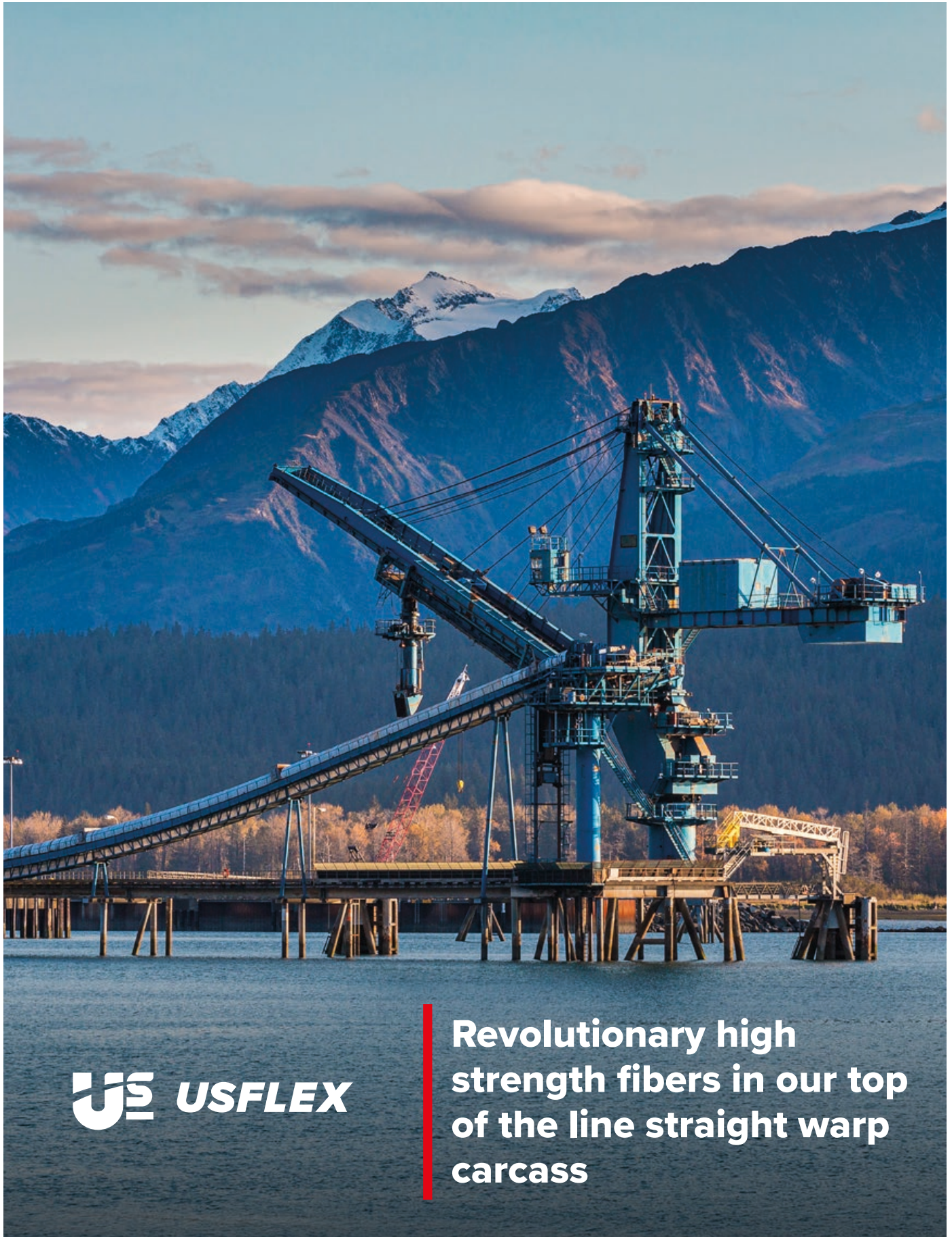
Like steel, Aramid fibers offer high tenacity, low elongation, and good thermal stability. But unlike steel, Aramid retains low density, chemical and fatigue resistance, and the positive handling qualities of synthetic fiber.

We use heavyweight straight yarns in parallel planes-lengthwise and crosswise. The carcass binder is a built-in breaker that resists impact & puncture.

Tensile Properties of Different Materials



- Longer belt life in tough service
- Low stretch belt with elongation similar to that of steel cord.
- Lighter weight for more energy savings/ton
- Less downtime, faster splicing than steel cord
- Greater rip, tear and impact resistance
- Excellent load support, troughability and tracking
- Longitudinal rip resistance more than five times plied or steel cord belts



 **USFLEX**

**Revolutionary high
strength fibers in our top
of the line straight warp
carcass**

Our UsFlex® and Nova-X® carcasses can handle the toughest aggregate applications from sand and gravel to primary crushers where premium products are required. UsFlex® and Nova-X® offer unsurpassed impact and tear resistance, excellent load support, and longer service life than other premium belts.



NOVA-X

Convey bulk materials more reliably with this advanced flexible core.

Excellent resistance to rips, tears, impacts and punctures using a technologically advanced and patented belt fabric design.

Patented dual crimp weave for higher strength and low stretch applications

Unique fabric weave allows for improved mechanical fastener retention & splice life

Smaller gauge carcass allows for smaller diameter pulleys, as well as superior troughability, tracking and load support

“*Fenner Dunlop Belting has been nothing but phenomenal for us. I can run 8,000 - 9,000 tons per day on my belts and not ever have to worry about system performance... that is saying something. With Fenner Dunlop, I get the job done and have zero down-time.*”

— **Korey Kibodeaux**
Quarry Plant Manager



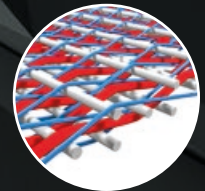
4 primary conveyors:
— 1 with UsFlex D6
— 3 with Nova-X F6

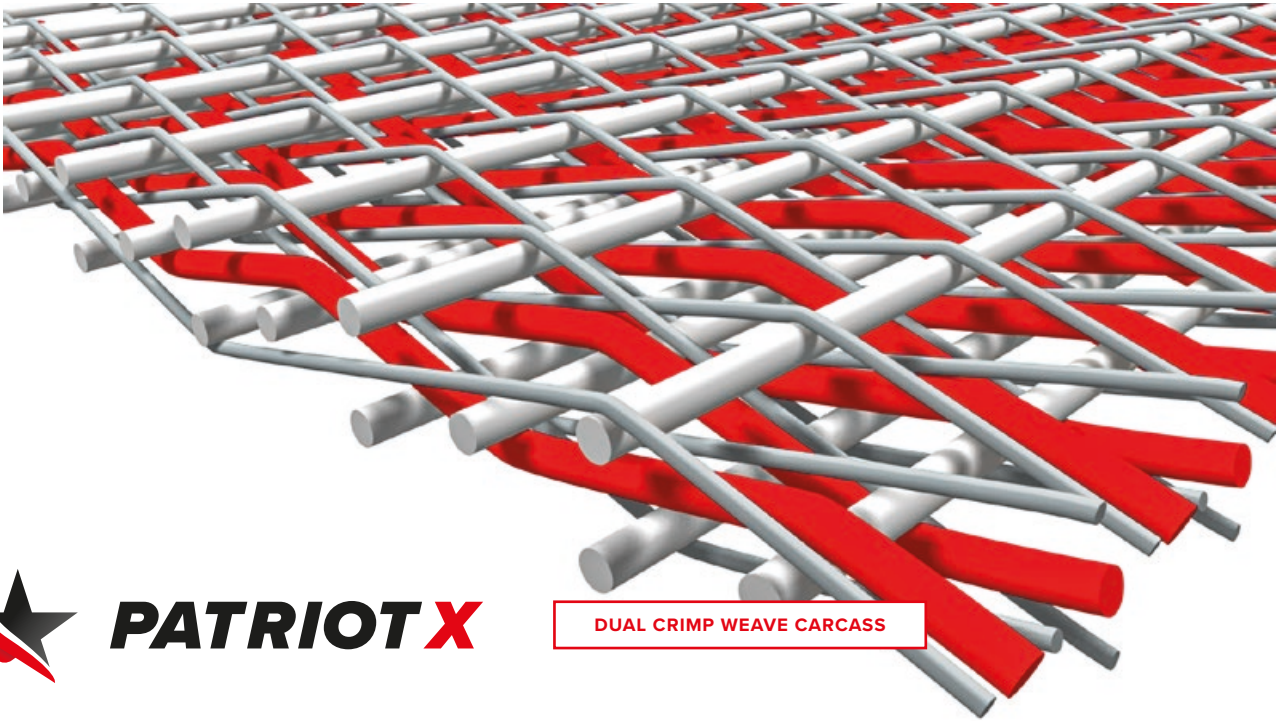
For his light to medium duty conveyors, he uses Patriot X®

Markets & Applications

- Aggregates
- Hard Rock
- Sand & Gravel
- Ready Mix
- Cement
- Phosphate
- Recycling
- Wood, pulp and paper

DUAL CRIMP
WEAVE CARCASS





 **PATRIOT X**

DUAL CRIMP WEAVE CARCASS

Single unit construction with patented dual crimp weave design offers superior carcass rubber adhesion.

Patriot X® offers improved rip, tear, and impact resistance compared to import and typical domestic belting products.

It also provides excellent mechanical fastener retention and can utilize Fenner Dunlop finger splice technology.

Markets & Applications

- Aggregates
- Crushed Stone
- Sand & Gravel
- Cement
- Recycling


Patented dual crimp weave for lighter applications

**Great alternative for economical plied belting:
similar price point, but better quality and longevity**

**Enhanced resistance to edge damage, moisture
and mildew**



Like all our other belts, Patriot X is manufactured in North America, providing locally made, better quality belting, at a competitive price.



**THE BEST ENGINEERED
PLIED BELTING FOR
A WIDE RANGE
OF RIGOROUS
APPLICATIONS.**



Plylok Group™ covers almost every application, with specific Supreme versions for Mining, Grain Handling, Wood, and Power Generation

Markets & Applications

- Aggregates
- Crushed Stone
- Hard Rock
- Sand & Gravel
- Ready Mix
- Cement
- Phosphate
- Recycling
- Grain
- Wood
- Power Generation



**PLYLOK
SUPREME**

Plied belting that provides maximum performance and superior adhesion values for heavy-duty applications.

High impact and tear resistance, plus better fastener holding vs. PlylokMaster™ and competitors.

Heavier weft construction allows for enhanced load support.

Available in these industry-specific designs:

- Plylok**Supreme™**
- MineHaul **Supreme™**
- LongHaul **Supreme™**
- LogDeck **Supreme™**
- Grain**Supreme™**
- Wood**Supreme™**
- Power**Supreme™**



Custom engineered for each application

Heavy duty weft for better rip, tear and impact resistance as well as better mechanical fastener holding



**PLYLOK
MASTER**

Plied belting with superb performance for general purpose applications.

Increased rubber gauge between plies enhances energy absorption and belt load support.

Greater than 4:1 mechanical fastener retention.

Available in these industry specific designs:

- Rock**Master™**
- Grain**Master™**
- Wood**Master™**



Multi-ply construction

Weft design for better rip, tear and impact resistance as well as better mechanical fastener holding

SPECIALTY CARCASSES

DYNAFLIGHT® / ROYALON™ / HOTSHOT™

DynaFlight™ / STEELCORD BELTING

Specialty Carcass 

DynaFlight belts are designed for the highest tension applications. Using a single plane of carefully constructed, pre-tensioned steel cords, DynaFlight conveys the toughest loads over the longest distances and at the highest tensions.

A century of belt design and manufacturing experience, enhanced by today's technology, goes into every Fenner Dunlop DynaFlight belt. No wonder customers worldwide have such confidence in our DynaFlight steel cord belting.



Dynaflight™
Production Process

Reasons to count on DynaFlight™

Tension capabilities

Highly efficient, precision-engineered steel cords with belt operating ratings up to ST10,000.

Product quality

Superior results come from the finest materials, meticulous testing, and the best quality control.

Product design

Thanks to individually pre-tensioned cords with alternating twists, we position cables uniformly in-plane for optimum belt tracking

Adhesion & corrosion protection

Cable corrosion protection is assured with zinc plated steel cords and high-pressure curing.

Available with DynaFlex I and II

Engineered with the properties and characteristics of our premium UsFlex carcass construction, that resists impacts, tears and rips in your toughest applications.

Minimal elongation

Belt elongation less than 0.25% of conveyor centers

Energy efficient

Low rolling resistant compounds available

EagleEye®, rEscan®, and Rip Ranger®


Highly sophisticated electronic monitoring and rip protection options available

Unsurpassed performance

The finest materials, design, manufacturing and quality control make a problem-free belt



HotShot™ / FIBERGLASS BELTING

Specialty Carcass 

HotShot is specially designed for the hottest applications. It has a fiberglass carcass built into a solid-woven design, maximizing the heat resistance of the belt carcass. It is protected by Delta Heat 2.0®, the industry's best high-heat cover compound. HotShot will help protect your conveyor system against:

- Belt burn through
- Carcass meltdown
- Burned-away splices and carcasses

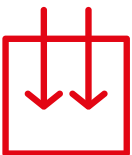


Even in contact with isolated pockets of extremely hot materials, your belt integrity is assured with **HotShot**.

Applications:

Cement clinker — Ore pelletizing — Sintering and coking — Calcined lime — Smelting and refining — Hot foundry/casting

- ✓ Unique fiberglass carcass, resists burn-through to 1,000 F
- ✓ No ply separation due to solid weave
- ✓ Premium cover compound DeltaHeat 2.0® gives optimal heat resistance and adhesion
- ✓ Minimal belt elongation



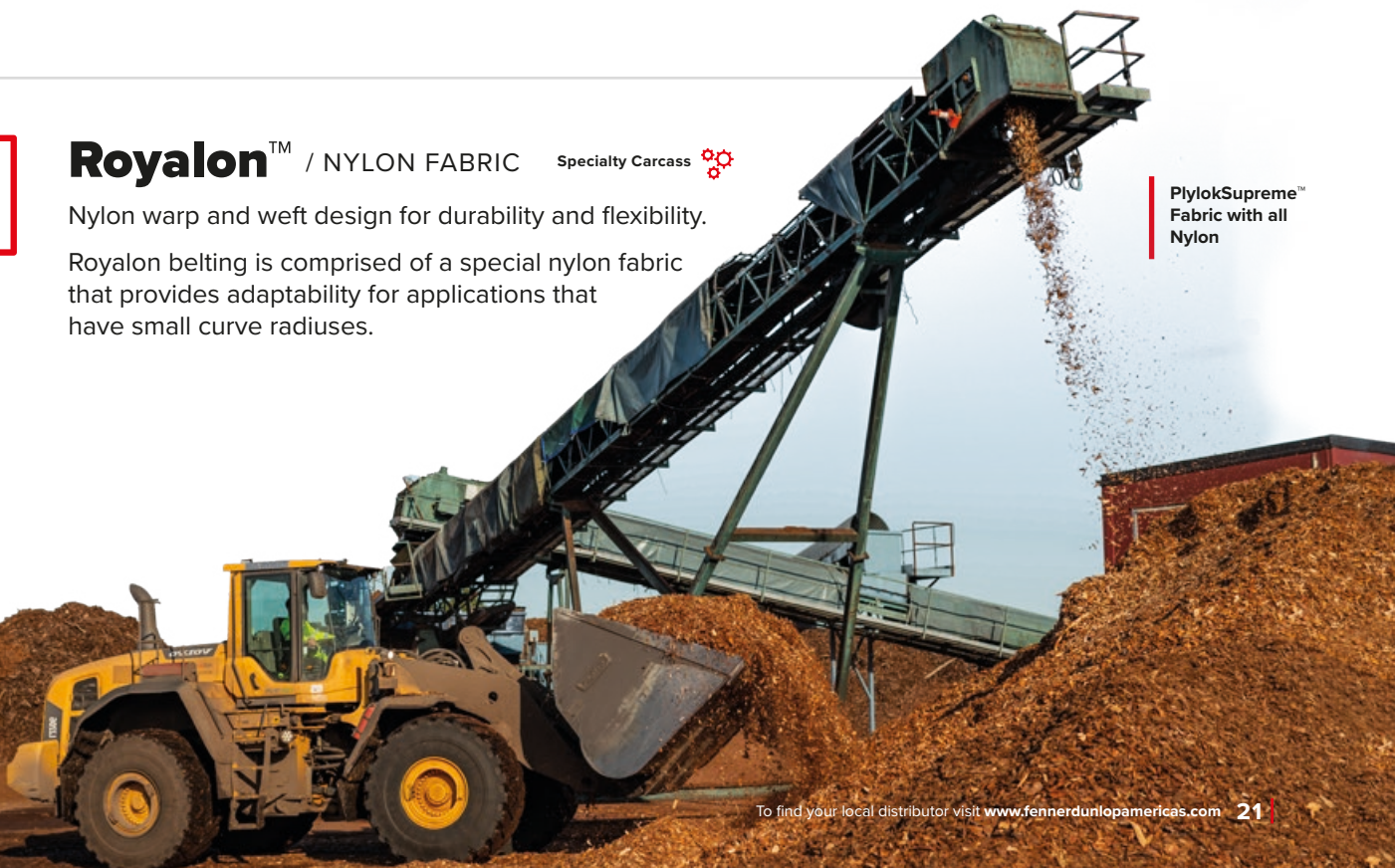
Royalon™ / NYLON FABRIC

Specialty Carcass 

Nylon warp and weft design for durability and flexibility.

Royalon belting is comprised of a special nylon fabric that provides adaptability for applications that have small curve radiuses.

PlylokSupreme™
Fabric with all
Nylon



FENNER DUNLOP COVER COMPOUNDS

While the actual construction and physical properties of the carcass are very important, it is the combination of the carcass with the physical strength and durability of the cover compounds that ultimately determines the operational lifetime of a conveyor belt and thus, its cost-effectiveness.

At Fenner Dunlop, extensive research and development, rigid quality control and years of experience, give you the most suitable compounds for your increasing demands to move more material.

Fenner Dunlop cover compounds are some of the most innovative, offering superior ultraviolet and ozone protection, plus a range of properties that outperform the competition!

We are proud to be the only rubber manufacturer with CSA-A2 approval: with one of the most stringent fire and anti-static testing in the world!

And thanks to our engineers, Fenner Dunlop cover compounds keep getting better!

**OUR COVER COMPOUNDS EXCEED
ARPM STANDARDS**



THE BEST SUPER-TOUGH ‘LONG LIFE’ COVER GRADES

Depending on the kind of materials being conveyed and the environments in which they are used, conveyor belts need to withstand a wide range of operational demands. Our cover compounds are designed to protect your carcass from the harshest conditions.

No matter what demands you have, we have you covered!



Cut / Gouge



Fire Retardant



Low Extraction



Abrasion



Heat Resistant



Non stick



Cold Resistant



Oil Resistant



Power Saver





CUT/GOUGE

In some industries, the most common reason for having to repair or replace a belt is due to rip or impact damage rather than day-to-day wear. In more extreme conditions where heavy and sharp materials and/or large drop heights are involved, it is essential to have rubber covers that protect the carcass as much as possible against impact and rip tear.

For these kind of conditions, we recommend the following cover compounds.

Matchless Plus™

- Designed to resist the most severe cut, gouge, and impact applications, plus good abrasion resistance
- Complies with DIN standard 'X'
- Performs well in cold temperatures

Platinum Plus™

- Ultimate high tensile compound that combines the best impact and abrasion resistance

Black Diamond™

- Performs best in high impact application

**INCREASED
INSURANCE AGAINST
DAMAGED BELT**

**ABSOLUTELY RELIABLE
IN THE TOUGHEST
CONDITIONS**



ABRASION

Cover wear is a critical factor which impacts the working life of the belt. Fenner Dunlop abrasion resistant compounds provides significantly longer wear life vs the competition.

We offer a variety of abrasion resistant compounds, but the three listed below are some of our most popular.

ZR3™

- Highest abrasion resistance
- Increased service life without increasing cover thickness
- Good resistance to cutting and gouging + frigid temperatures

Titanium™

- Best combination of abrasion, cut and gouge
- Get more life with less cover thickness
- Performs well in high-impact applications

Granite™

- A popular choice for abrasive material handling applications
- Good resistance to cutting and gouging
- Exceeds ARPM grade 2 standards

Other abrasion resistant cover compounds:

- Sahara™ SAR
- GUARDIAN™ SAR
- Giant XE™
- ZR™ family



COLD RESISTANT

When the ambient temperature descends below 32°F (0°C) rubber begins to lose its elasticity. As the temperature falls, the rubber continues to lose flexibility and its ability to resist abrasion, impact and cutting. Eventually the belt is unable to trough and pass around pulleys and the belt begins to break down. Most cover compounds can usually withstand -22 °F to -40°F (-30°C / 40°C) Other cover qualities (such as oil or fire) are usually only able to withstand a minimum temperature of -20°C. For temperatures lower than this, conveyors should be installed with belts specially designed to withstand extreme cold.

Other cold resistant cover compounds:

— CGH™ — ZR3™ — CSA™ — Granite™

ZR2 ORB™

- Resists combined effects of cold, abrasion and petroleum or oil-based products
- Performs in cold conditions -50° F (-46° C)
- Great for conveying oil sands, bitumen, oil-sprayed coal and similar materials

CWOR™

- Designed for cold weather applications (up to -50 °F/-45.5 °C), abrasion and petroleum or oil based products

ZR1™

- Highest resistance to heavy, continuous abrasion
- Good resistance to cutting and gouging
- Great in extreme temperatures



FIRE RETARDANT

Conveyor belts have the ability to spread a fire along the path of the conveyor and belt may even transfer fire throughout the facility from one building to another. The consequences can be catastrophic to life and property. Fenner Dunlop offers a range of conveyor belting specifications that can meet any global standard in place today. This includes ignition and propagation resistant grades which may also offer friction and static electricity safety. Regulatory and corporate requirements such as MSHA, OSHA and CSA will determine belt selection.

FIREBOSS™

- Exceeds MSHA 30 CFR Part 14 requirements
- Meets or Exceeds ARPM FR class 1
- Ideal when an increased fire retardant level is desirable, as well as resistance to abrasion and cover wear

Other FIREBOSS™ covers:

- Fireboss AR** — Abrasion Resistant
- Fireboss SAR** — Super Abrasion Resistant;

GUARDIAN™

- Exceeds MSHA 30 CFR Part 18 requirements
- Meets OSHA anti-static requirement (300 megohms)
- Excellent resistance to de-dusting agents
- Ideal for power plants, coal terminals and surface applications where fire retardance is required or non-coal underground applications.

CSA-C

- Fire Retardant cover compound with greater abrasion resistance for mining and industrial applications
- Exceeds Canadian Standards Association M422 – M87 current specification for Grade C
- For surface applications

FIREBOSS™ CSA

- Exceeds CSA M422-14 requirements
- Ideal for surface application where fire retardance is required or non-explosive underground applications.
- FIREBOSS CSA-A2 is ideal for underground explosive environments and applications that require the most stringent CSA standard for conveyor belts.

Other fire retardant cover compounds:

- CGH™ — UGH™ — SAHARA™ FR — FIREBOSS™

Compound	ARPM Class	CSA Standards	Oil Resistant	Abrasion Resistant	DIN Standard
Guardian	Class 2	—	—	—	—
Guardian AR	Class 2	—	—	✓	—
Guardian SAR	Class 2	—	—	✓	—
Guardian HF  Halogen Free	Class 2	—	—	—	—
Guardian OR	Class 2	—	Medium	—	—
Guardian ORX	Class 2	—	Superior	—	—
DIN-K	Class 2	—	—	✓	✓
FireBoss AR	Class 1, Class 2	B2	—	—	—
FireBoss SAR	Class 1, Class 2	—	—	✓	✓
FIREBOSS CSA-C AR	Class 2	C	—	✓	—
FIREBOSS CSA-C OR	Class 2	C	Medium	—	—
FIREBOSS CSA-B2	Class 2, Class 1	C, B2	—	—	—
FIREBOSS CSA-A2	Class 2, Class 1	C, B2, A2	Medium	✓	—



HEAT RESISTANT

Of all the demands placed on conveyor belts, heat is usually one of the most challenging. High temperature environments accelerate the aging process, which causes the rubber to harden and crack. Our heat resistant cover compounds are superb for prolonged exposure to hot payloads and abrasive materials.

DELTA HEAT 2.0™

- Premium compound for high-temperature materials
- Temperature resistant to 400° F (205° C) for coarse lumps (2 in/ 50mm) and 350 °F (175 °C) for fines
- Resists the cover cracking, hardening, abrasion and tearing in high temperature environments

SAHARA™

- Good abrasion resistance in hot environments
- Temperature resistant to 300 °F (150 °C) for coarse lumps (>2 in/50mm) and 250 °F (120 °C) for fines
- Ideal for medium heat requirements

Available in several versions for your specific application:

- Sahara™ SAR** — Super Abrasion & Heat Resistant;
- Sahara™ OR** — Oil, Abrasion & Heat Resistant;
- Sahara™ FR** — Fire Retardant & Heat Resistant;
- Alumina** — Tailor Made to Handle Hot Alumina
- Sahara™ DS** — Low extraction resistant for frac sand processing




Photo: Example of cracking caused by hot materials conveyed on a belt cover not designed for heat resistance.



OIL RESISTANT

Conveying materials that contain oil, fat and grease can have a detrimental effect on the performance and life cycle of a conveyor belt. These materials penetrate the rubber causing it to swell and distort, resulting in premature failure.

Oil resistance can be divided into three sources — mineral, vegetable, and animal oils. Despite the different characteristics, most manufacturers produce a limited range of oil resistant cover compounds. However, Fenner Dunlop has developed several cover compounds that provide the best possible protection for your specific needs.

In order to minimize the swelling and distortion caused by oil, we apply stringent American ASTM D 1460 standard test methods.



MOR

- Great for specialized service – wood chips, waste disposal, sewage, sludge and lightly oil-treated materials
- Resists moderately oily materials and terpenes

ORP (Oil Resistant Premium)

- Superior Resistance to materials containing high concentrations of fats and oils.
- Recommended for use involving heavy exposure to aromatic hydrocarbons such as petroleum based oily coke, benzol, and toluene.

UGH

- Maximum resistance to grain oils and oil-based dust suppressant additives with a temperature range of -30° to 200 °F (-34°C to 93°C)
- Surpasses U.S. OSHA specifications for static conductivity; Fire-retardant, meets ARPM-FR Class 2

Other oil resistant cover compounds:

- | | |
|-----------|----------------------|
| – CGH™ | – SAHARA™ OR |
| – CSA A2™ | – GUARDIAN™ OR + ORX |
| – CWOR™ | – ZR2 ORB™ |



LOW EXTRACTION

- ✓ Resists leaching agents and dust suppressants
- ✓ Reduces durometer creep and related tracking issues
- ✓ Stops belts from hardening and cracking
- ✓ Combined with balanced cover gauge, cupping and curling can be minimized

GUARDIAN™

- Fire-retardant, abrasion resistance compound that meets ARPM-FR Class 2
- Increased resistance to abrasion and cover wear

Other Guardian™

- **AR** exceeds ARPM Grade 2
- **HF** halogen (chlorine) free
- **SAR** Superior abrasion resistance
- **OR** Excellent oil resistance
- **ORX** Superior oil resistance

GIANT XE™

- Ideal for heavy and abrasive materials in dry and dusty applications
- Excellent abrasion resistance
- -40 °F to 200 °F operating temperature
- Exceeds ARPM Grade 1 Specifications



NON-STICK

KWIK RELEASE COVER COMPOUND

When you have to carry really sticky or muddy materials, our non-stick cover compound prevents item build up, aiding your safety, house-keeping and maintenance requirements

Reduce your maintenance and carry back for all general purpose applications.

Use **KWIK RELEASE** to enable a better release of sticky and powdery materials and an easier clean.



PowerSaver™

ENERGY SAVING AND ENVIRONMENTALLY FRIENDLY

- ✓ Low rolling resistance means that less force is required for a belt to roll over idlers.
- ✓ Reduced power consumption & lower operating costs.
- ✓ Optimal for above ground flat or low-incline conveyor systems.



CleatLine

Applicable in the following markets:



Grain



Wood chips



Bark



Cement



Light aggregates



Road Construction
Equipment

Cleated products for **free flowing material** transport

Our Cleatline ensures efficient and quick pick up at loading points. Made for aggressive transfer and elevation of material on steep slope and high incline conveyors, our molded cleats ensure years of trouble free service. A variety of Cleatline patterns are available.

8 AVAILABLE CLEAT PATTERNS



Chevron 24 & 42



C-Top

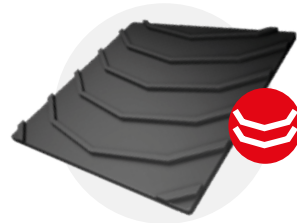


V-Top

Great for aggregates



F-18 & F-36



B-Top

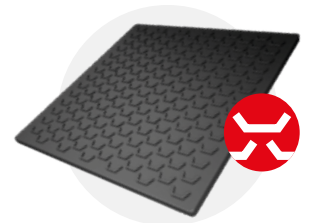


Bucket Top

✓ Ideal for Grain transport

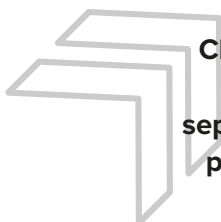


Y-Top



Mini-Bucket

✓ Ideal for Grain transport



Cleat patterns are integrated into the belt cover. No separation problems or post production vulcanizing of cleats to the belt.





HIGH INTEGRITY FINGER-SPLICE TECHNOLOGY

ONLY AVAILABLE AT FENNER DUNLOP

The conventional step splice or mechanical fastener will always create a proportional loss of tensile strength within the belt. At Fenner Dunlop, we recommend the finger splice method that creates the strongest and most reliable joint possible (up to 100% of the belt's original rated tension).

Our premium tie gum and noodle compounds are designed for use within the finger splice design to provide maximum adhesions. Our cover stocks are specifically designed for use with our finger splice procedure resulting in the best possible wear, resistance and durability.

**Strongest
Splice,
Longest
Life**



To maximize splice performance always use Fenner Dunlop splice materials

Splices are a critical component of any conveyor belt. A strong, long-lasting splice relies on the following factors:

- ✓ The skill / workmanship of the technician making the splice
- ✓ The actual quality of the splicing materials being used
- ✓ The splice design
- ✓ Quality of the belt

To get the best results, it is essential that the rubber being used in the splice joint has exactly the same (or better) qualities as the rubber used to make the belt. Using Fenner Dunlop splicing material will ensure the longest lasting splice possible.

In order to help our customers achieve the best possible results, Fenner Dunlop supplies a wide range of splicing materials that have been designed and developed to provide optimum performance.



As a leader in conveyor belt splicing technology, Fenner Dunlop's certified technicians have been extensively trained on numerous splicing procedures and techniques to ensure the best possible splice. Our technicians offer a wide array of splicing services for belts up to 102" wide, up to 2,500 PIW for fabric belts and up to ST8500 for steel cord belts.

Fenner Dunlop certified technicians can install steel cord, finger, step or mechanical splices. Each splice is assembled with the highest quality materials. Fenner Dunlop and our distributor team can perform the perfect splice for your application maximizing the life of the splice and your conveyor belt.

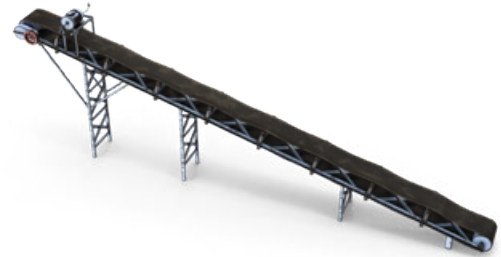
FENNER DUNLOP VALUE ADDED SERVICES

Fenner Dunlop will help you maximize your uptime by reducing belt damage, premature wear and costly repairs.



FENNER DUNLOP **BELT DIAGNOSTICS**

The leading-edge of conveyor diagnostics with the latest breakthroughs in the industry. Protect your investment with the leading — edge conveyor diagnostics equipment.

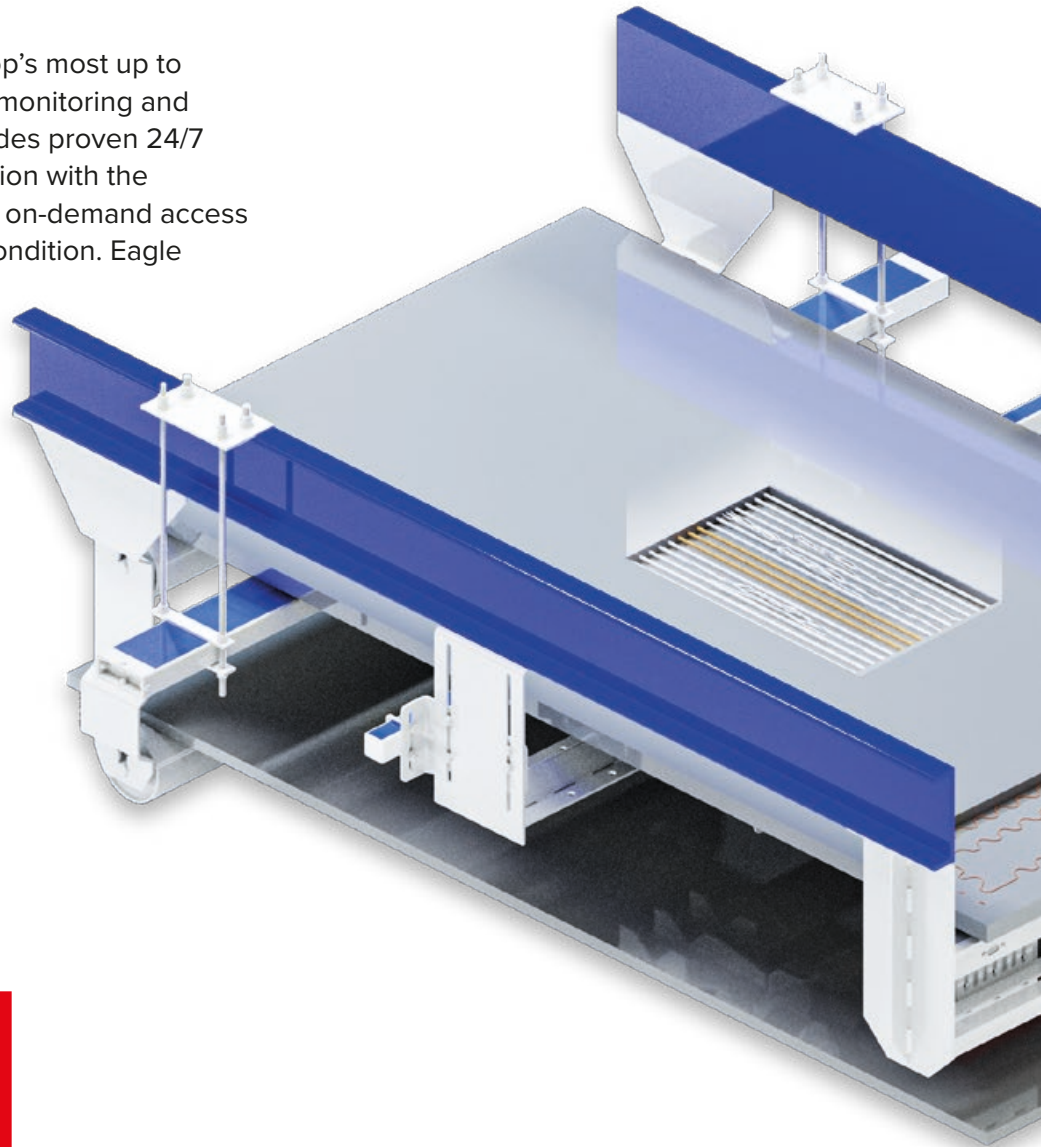


- Extended belt life, reduced downtime and improved productivity
- 24/7 support
- Prevent catastrophic belt failures before they occur
- Dedicated team of diagnostic engineers for support and service after the sale with a proven history of excellence.
- Periodic and 24/7 support contracts available to maintain your investment and protection
- Comprehensive system training for each product offering
- Extensive service offering including steel cord scanning with splice analysis, cover wear surveys, and X-rays to uncover hidden damage.
- All Diagnostic services are supported by our network of Fenner Dunlop Service centers.

EAGLE EYE™ ADVANCED

The leading-edge of conveyor diagnostics with the latest breakthrough in the industry.

Eagle Eye Advanced is Fenner Dunlop's most up to date solution to steel cord condition monitoring and rip detection. While the system provides proven 24/7 protection through seamless integration with the conveyor control, it also allows users on-demand access to information about conveyor belt condition. Eagle Eye Advanced allows for the extraction of data for historical analysis used to provide insights on conveyor performance.

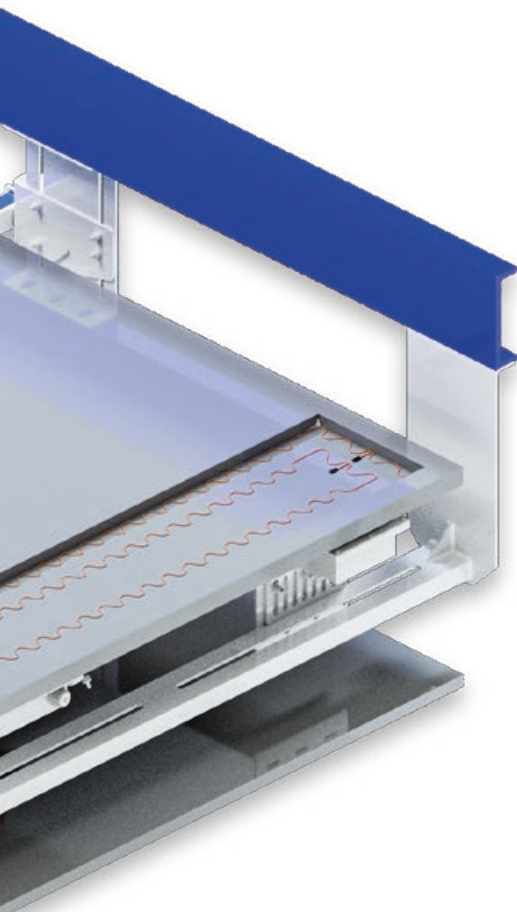


**NEW AND
ADVANCED**



The system collects data from multiple sensors to build a detailed map of events. Once the map of data is complete it continuously monitors each splice and steel cord damage event for real time changes and trends the data so the user is able to forecast potential issues through an intuitive interface. The system also continuously monitors Inductive loops at up to four points to ensure belting continuity and minimize risk.

- 24/7 protection with steel cord condition monitoring, splice analysis, and rip detection
- Advanced real-time belt graphics to keep an eye on your investment with the ability to select multiple view points and zoom levels
- New multicore processing to couple technical belt data with an intuitive interface for simplified user interaction and experience
- Historical data collection for cradle-to-grave analysis
- Automatic reporting, extensive smart log messages and information filters
- Remote connectivity to other devices such as smartphones, tablets and control room computers
- Superior internal diagnostics for ease of system maintenance
- Multiple rip detection locations can be added to create up to four monitoring stations
- Park events such as splices or damage events in specific locations along the conveyor for inspection or maintenance on demand or by schedule.



Join Satisfied Users

More than 100 companies use Fenner Dunlop's Belt Monitoring Systems. **Join them!**

“

One of the biggest wins for us purchasing the Eagle Eye system is the technical support we have received. The Fenner Dunlop group has been excellent to deal with.

 **GOLDCORP**

TECHNICAL SUPPORT & FIELD SERVICES SUPPORT

At Fenner Dunlop, you get more than just conveyor belts. If you have conveyors where belts need to be replaced at frequent intervals, require constant maintenance, or are performing poorly, Fenner Dunlop's highly experienced engineers can provide advice and practical assistance to help you.



Belt Wizard

Belt Wizard is a belt conveyor modeling tool used exclusively by Fenner Dunlop Americas. It is a powerful engineering program developed to determine the precise conveyor belt recommendation based on the unique criteria of a conveyor system. Formulas used in this program follow the calculations found in the 7th Edition of "Belt Conveyors For Bulk Materials" published by the Conveyor Equipment Manufacturers Association (CEMA).



Fenner Dunlop provides an unrivaled level of customer service

- visiting our customers on-site, providing advice, guidance and practical support including:

- Site visits and surveys
- Belt calculation service
- Technical training (on site and Fenner Dunlop based)
- Splice training
- Troubleshooting and problem solving
- In-house research, testing and development
- After-sales support

We are here to help!

If you have any concerns or questions, please call.

(800) 661-2358

Industrial and Mining Conveyor Belting Sales





BEST IN CLASS DISTRIBUTION NETWORK

FULL MARKET COVERAGE

We are proud to work alongside our world-class distribution network to deliver the best in class total conveyor solutions to our end users

BEST IN CLASS

Our distributors carry a full line of best in class Fenner Dunlop conveyor belts, matched with top of the line service capabilities.

Key Distributor Capabilities

- Conveyor Belt Inventory
- Technical Training
- Diagnostics Services
- Conveyor Components
- Conveyor Belt Installation
- Belt Conditioning & Repairs
- Local 24/7 Support
- Conveyor Trouble Shooting
- Vulcanized Splicing
- Belt Slitting & Repair



FENNER DUNLOP USFLEX BELTING													
Carcass Style	S1	S2	S3	S4	S5	D5	D6	D8	D10	D12	D15	D18	D20
Number of Plies	1	1	1	1	1	2	2	2	2	2	2	2	2
Carcass Gauge (in)	0.075	0.095	0.132	0.146	0.175	0.244	0.278	0.320	0.340	0.388	0.446	0.468	0.468
Carcass Weight (lbs/in/ft)	0.020	0.024	0.041	0.044	0.056	0.103	0.113	0.130	0.140	0.162	0.188	0.212	0.212
Elastic Modulus (lbs/in)	25,000	30,000	40,000	40,000	45,000	50,000	60,000	65,000	70,000	85,000	90,000	150,000	213,000
CONVEYOR BELT SPECIFICS													
Max Tension Rating (PIW)	200	245	330	440	550	550	660	800	1,000	1,250	1,500	1,800	2,000
TROUGHING/EMPTY - MIN BELT WIDTH (IN)													
20 degree idlers	14	16	20	24	24	24	24	30	30	30	30	36	36
35 degree idlers	18	20	24	30	30	30	30	36	36	36	36	42	42
45 degree idlers	0	24	30	36	36	36	36	42	42	42	42	48	48
LOAD SUPPORT – MAX BELT WIDTH (IN)													
20 deg idlers 0 – 40 lbs/ft ³	42	60	72	84	84	84	84	84	84	84	84	96	96
20 deg idlers 41 – 80 lbs/ft ³	36	48	66	72	72	84	84	84	84	84	84	96	96
20 deg idlers 81 – 120 lbs/ft ³	30	42	60	66	72	84	84	84	84	84	84	96	96
20 deg idlers over 120 lbs/ft ³	0	36	48	60	66	72	72	84	84	84	84	96	96
35 deg idlers 0 – 40 lbs/ft ³	36	48	66	72	72	84	84	84	84	84	84	96	96
35 deg idlers 41 – 80 lbs/ft ³	30	36	54	60	66	72	84	84	84	84	84	96	96
35 deg idlers 81 – 120 lbs/ft ³	24	36	48	54	60	66	72	84	84	84	84	96	96
35 deg idlers over 120 lbs/ft ³	0	30	42	48	54	60	72	84	84	84	84	96	96
45 deg idlers 0 – 40 lbs/ft ³	0	42	54	60	66	72	84	84	84	84	84	96	96
45 deg idlers 41 – 80 lbs/ft ³	0	36	48	54	60	72	84	84	84	84	84	96	96
45 deg idlers 81 – 120 lbs/ft ³	0	30	42	48	54	60	72	84	84	84	84	96	96
45 deg idlers over 120 lbs/ft ³	0	24	36	42	48	54	66	72	72	84	84	96	96

FENNER DUNLOP USFLEX BELTING													
Carcass Style	S1	S2	S3	S4	S5	D5	D6	D8	D10	D12	D15	D18	D20
MINIMUM PULLEY DIAMETERS (IN)													
81 – 100% belt rated tension	8	10	14	16	20	24	30	36	36	36	36	42	42
61 – 80% belt rated tension	7	8	12	13	16	20	24	24	30	30	30	36	36
Up to 60% belt rated tension	5	6	9	10	12	15	18	20	22	24	24	30	30

ELEVATOR BELT SPECIFICS

MAXIMUM TENSION RAITNG (PIW)													
“Grain, Wood Chip” Service (50 lbs/ft³)	170	208	280	374	468	468	560	680	850	1063	1275	1530	1700
“Industrial” Service (100 lbs/ft³)	150	184	248	330	413	413	495	600	750	938	1125	1350	1500
MINIMUM PULLEY DIAMETERS (IN)													
81 – 100% belt rated tension	8	10	14	16	20	24	30	36	36	36	36	42	42
61 – 80% belt rated tension	7	8	12	13	16	20	24	24	30	30	30	36	36
Up to 60% belt rated tension	5	6	9	10	12	15	18	20	22	24	24	30	30
MAXIMUM BUCKET PROJECTION (IN)													
“Centrifugal” Elevators	7	8	10	10	10	12	14	15	16	17	18	18	18
“Continuous” Elevators	6	7	9	10	12	13	15	16	18	20	22	22	22

FENNER DUNLOP USFLEX BELTING						
Carcass Style	UsFlex DW5	UsFlex DW6	UsFlex DW8	UsFlex DW10	UsFlex DW12	UsFlex DW15
Number of Plies	2	2	2	2	2	2
Carcass Gauge (in)	0.228	0.264	0.298	0.334	0.368	0.404
Carcass Weight (lbs/in/ft)	0.092	0.114	0.126	0.139	0.163	0.175
Elastic Modulus (lbs/in)	60,000	65,000	70,000	80,000	100,000	120,000
CONVEYOR BELT SPECIFICS						
Max Tension Rating (PIW)	500	600	800	1,000	1,250	1,500
TROUGHING/EMPTY - MIN BELT WIDTH (IN)						
20 degree idlers	24	24	30	30	30	30
35 degree idlers	30	30	36	36	36	36
45 degree idlers	36	36	42	42	42	42
LOAD SUPPORT – MAX BELT WIDTH (IN)						
20 deg idlers 0 – 40 lbs/ft ³	84	84	84	84	84	84
20 deg idlers 41 – 80 lbs/ft ³	84	84	84	84	84	84
20 deg idlers 81 – 120 lbs/ft ³	84	84	84	84	84	84
20 deg idlers over 120 lbs/ft ³	66	84	84	84	84	84
35 deg idlers 0 – 40 lbs/ft ³	84	84	84	84	84	84
35 deg idlers 41 – 80 lbs/ft ³	84	84	84	84	84	84
35 deg idlers 81 – 120 lbs/ft ³	84	84	84	84	84	84
35 deg idlers over 120 lbs/ft ³	60	66	84	84	84	84
45 deg idlers 0 – 40 lbs/ft ³	66	84	84	84	84	84
45 deg idlers 41 – 80 lbs/ft ³	66	84	84	84	84	84
45 deg idlers 81 – 120 lbs/ft ³	60	84	84	84	84	84
45 deg idlers over 120 lbs/ft ³	54	60	66	84	84	84

FENNER DUNLOP USFLEX BELTING						
Carcass Style	UsFlex DW5	UsFlex DW6	UsFlex DW8	UsFlex DW10	UsFlex DW512	UsFlex DW15
MINIMUM PULLEY DIAMETERS (IN)						
81 – 100% belt rated tension	25	30	32	36	40	42
61 – 80% belt rated tension	20	24	26	29	32	34
Up to 60% belt rated tension	15	18	20	22	24	26

ELEVATOR BELT SPECIFICS

MAXIMUM TENSION RAITNG (PIW)						
“Grain, Wood Chip” Service (50 lbs/ft³)	425	510	680	850	1,063	1,275
“Industrial” Service (100 lbs/ft³)	375	450	600	750	938	1,125
MINIMUM PULLEY DIAMETERS (IN)						
81 – 100% belt rated tension	25	30	32	36	40	42
61 – 80% belt rated tension	20	24	26	29	32	34
Up to 60% belt rated tension	15	18	20	22	24	26
MAXIMUM BUCKET PROJECTION (IN)						
“Centrifugal” Elevators	11	13	13	14	15	16
“Continuous” Elevators	11	13	13	14	15	16

Carcass Style	KordFlex K8	KordFlex K10	KordFlex K12	KordFlex K16	KordFlex K20
Number of Plies	1	1	1	1	1
Carcass Gauge (in)	0.150	0.150	0.170	0.190	0.210
Carcass Weight (lbs/in/ft)	0.043	0.044	0.055	0.062	0.066
Elastic Modulus (lbs/in)	213,000	230,000	333,000	425,000	500,000
CONVEYOR BELT SPECIFICS					
Max Tension Rating (PIW/ lbs/ft ²)	800	1,000	1,250	1,600	2,000
TROUGHING/EMPTY - MIN BELT WIDTH (IN)					
20 degree idlers	36	36	36	36	36
35 degree idlers	36	36	36	36	36
45 degree idlers	36	36	36	36	36
LOAD SUPPORT – MAX BELT WIDTH (IN)*					
20 deg idlers 0 – 40 lbs/ft ³	60	72	84	84	84
20 deg idlers 41 – 80 lbs/ft ³	60	72	84	84	84
20 deg idlers 81 – 120 lbs/ft ³	48	72	84	84	84
20 deg idlers over 120 lbs/ft ³	48	60	72	84	84
35 deg idlers 0 – 40 lbs/ft ³	54	72	84	84	84
35 deg idlers 41 – 80 lbs/ft ³	54	72	84	84	84
35 deg idlers 81 – 120 lbs/ft ³	42	60	84	84	84
35 deg idlers over 120 lbs/ft ³	42	54	60	72	84
45 deg idlers 0 – 40 lbs/ft ³	48	60	72	84	84
45 deg idlers 41 – 80 lbs/ft ³	48	60	72	84	84
45 deg idlers 81 – 120 lbs/ft ³	42	60	72	84	84
45 deg idlers over 120 lbs/ft ³	36	48	60	72	84

*Wider load support is available with a Dynaflex breaker.

MINIMUM PULLEY DIAMETERS (IN)					
81 – 100% belt rated tension	24	24	28	30	36
61 – 80% belt rated tension	20	20	24	24	30
Up to 60% belt rated tension	18	18	22	20	24

Carcass Style	Nova-X F3	Nova-X F4	Nova-X F6
Belt Style	1 - 300	1 - 400	1 - 600
Number of Plies	1	1	1
Carcass Gauge ³ (in)	0.115	0.146	0.186
Carcass Weight ⁴ (lbs/in/ft)	0.038	0.044	0.067
Elastic Modulus (lbs/in)	30,000	35,000	40,000
Carcass Safety Factor	10 : 1	10 : 1	10 : 1
CONVEYOR BELT SPECIFICS			
Max Tension Rating ² (PIW)	300	400	600
TROUGHING/EMPTY¹ - MIN BELT WIDTH (IN)			
20 degree idlers	18	20	24
35 degree idlers	20	24	30
45 degree idlers	24	30	36
LOAD SUPPORT¹ - MAX BELT WIDTH (IN)			
20 deg idlers 0 – 40 lbs/ft ³	72	84	84
20 deg idlers 41 – 80 lbs/ft ³	66	72	72
20 deg idlers 81 – 120 lbs/ft ³	60	66	72
20 deg idlers over 120 lbs/ft ³	48	60	66
35 deg idlers 0 – 40 lbs/ft ³	66	72	72
35 deg idlers 41 – 80 lbs/ft ³	54	60	66
35 deg idlers 81 – 120 lbs/ft ³	48	54	60
35 deg idlers over 120 lbs/ft ³	42	48	54
45 deg idlers 0 – 40 lbs/ft ³	54	60	66
45 deg idlers 41 – 80 lbs/ft ³	48	54	60
45 deg idlers 81 – 120 lbs/ft ³	42	48	54
45 deg idlers over 120 lbs/ft ³	36	42	48

MINIMUM PULLEY DIAMETER (IN)			
81 – 100% belt rated tension	14	16	20
61 – 80% belt rated tension	12	13	16
Up to 60% belt rated tension	9	10	12

ELEVATOR BELT SPECIFICS

MAXIMUM TENSION RATING (PIW)			
“Grain, Wood Chip” Service (50 lbs/ft ³)	255	340	510
“Industrial” Service (100 lbs/ft ³)	225	300	450
MINIMUM PULLEY DIAMETER (IN)			
81 – 100% belt rated tension	14	16	20
61 – 80% belt rated tension	12	13	16
40 – 60% belt rated tension	9	10	12
MAXIMUM BUCKET PROJECTION (IN)			
“Centrifugal” Elevators	10	10	12
“Continuous” Elevators	9	10	13

Fabric Ply	PSR 80		PSR 110				PSR 125		
Carcass Style	2-160	3-240	2-220	3-330	4-440	5-550	2-250	3-375	4-500
Number of Plies	2	3	2	3	4	5	2	3	4
Carcass Gauge ³ (in)	0.114	0.164	0.118	0.170	0.208	0.266	0.128	0.182	0.226
Carcass Weight ⁴ (lbs/in/ft)	0.052	0.078	0.054	0.083	0.103	0.133	0.060	0.089	0.113
Elastic Modulus (lbs/in)	26,000	29,000	35,000	45,000	55,000	65,000	30,000	45,000	55,000
Max Tension Rating ² (PIW)	160	240	220	330	440	550	250	375	500
TROUGHING/EMPTY¹ – MIN BELT WIDTH (IN)									
20 degree idlers	14	20	14	20	24	30	14	20	30
35 degree idlers	18	24	18	24	30	30	18	24	30
45 degree idlers	N/A	N/A	24	30	36	36	24	30	36
LOAD SUPPORT – MAX BELT WIDTH (IN)									
20 deg idlers 0 - 40 lbs/ft ³	36	60	54	60	72	72	54	72	84
20 deg idlers 41 - 80 lbs/ft ³	30	54	48	54	66	72	48	60	72
20 deg idlers 81 - 120 lbs/ft ³	30	42	42	48	60	66	42	54	66
20 deg idlers over 120 lbs/ft ³	N/A	N/A	36	42	54	60	36	48	60
35 deg idlers 0 - 40 lbs/ft ³	36	54	48	54	72	72	48	60	72
35 deg idlers 41 - 80 lbs/ft ³	24	48	42	48	60	72	42	60	66
35 deg idlers 81 - 120 lbs/ft ³	24	36	36	42	54	60	36	54	60
35 deg idlers over 120 lbs/ft ³	N/A	N/A	30	36	48	54	30	42	54
45 deg idlers 0 - 40 lbs/ft ³	30	N/A	48	48	60	72	48	60	72
45 deg idlers 41 - 80 lbs/ft ³	24	N/A	36	42	54	66	36	54	60
45 deg idlers 81 - 120 lbs/ft ³	N/A	N/A	30	36	48	54	30	48	54
45 deg idlers over 120 lbs/ft ³	N/A	N/A	N/A	30	42	48	N/A	36	48

MINIMUM PULLEY DIAMETERS (IN)									
81 – 100% belt rated tension	14	18	14	18	22	30	14	20	24
61 – 80% belt rated tension	12	15	12	15	18	24	12	16	20
Up to 60% belt rated tension	9	11	9	11	14	20	9	12	15

ELEVATOR BELT SPECIFICS

MAXIMUM TENSION RATING (PIW)									
“Grain, Wood Chip” Service (50 lbs/ft ³)	136	204	280	280	370	475	213	319	425
“Industrial” Service (100 lbs/ft ³)	120	180	250	250	330	425	188	281	375
MINIMUM PULLEY DIAMETERS (IN)									
81 – 100% belt rated tension	14	19	14	20	26	30	14	20	26
61 – 80% belt rated tension	12	15	12	18	20	24	12	16	20
Up to 60% belt rated tension	9	11	9	16	16	20	9	12	15
MAXIMUM BUCKET PROJECTION (IN)									
“Centrifugal” Elevators	6	N/A	8	8	10	10	7	9	11
“Continuous” Elevators	N/A	N/A	7	7	10	12	6	8	11

Standard Carcass Style	Max Tension Rating	Elastic Modulus	Cord Pitch	Carcass Weight	Max. Cord Diameter	Troughing/Empty Minimum Belt Width			Minimum Pulley Diameter			Splice Pattern
						IDLERS:			% RATED BELT TENSIONS			
						20°	35°	45°	81-100	61-80	up to 60	
	PIW	lbs/in	in	lbs/in/ft	in	in	in	in	in	in	in	
ST500	430	206,000	0.551	0.092	0.118	24	24	24	24	20	16	1-Step
ST630	535	259,000	0.433	0.097	0.118	24	24	24	24	20	16	1-Step
ST800	685	329,000	0.472	1.164	0.146	24	24	30	36	30	18	1-Step
ST1000	860	411,000	0.472	1.127	0.165	24	24	30	36	30	18	1-Step
ST1250	1,070	514,000	0.551	1.584	0.193	24	30	36	42	36	20	1-Step
ST1400	1,195	576,000	0.551	1.644	0.197	24	30	36	48	36	20	1-Step
ST1600	1,370	658,000	0.591	1.944	0.220	24	30	36	48	36	24	1-Step
ST1800	1,535	740,000	0.531	2.052	0.220	30	30	36	48	36	24	1-Step
ST2000	1,720	822,000	0.472	2.196	0.220	30	30	36	48	36	24	2-Step
ST2250	1,920	925,000	0.433	2.316	0.220	30	30	36	48	36	24	2-Step
ST2500	2,140	1,030,000	0.591	2.724	0.283	30	30	36	54	42	36	2-Step
ST2800	2,390	1,151,000	0.531	2.784	0.283	30	30	36	54	42	36	2-Step
ST3150	2,690	1,295,000	0.591	3.564	0.319	30	30	36	54	48	36	2-Step
ST3500	2,985	1,439,000	0.591	3.912	0.339	30	30	36	60	48	36	2-Step
ST4000	3,440	1,640,000	0.591	4.080	0.350	36	42	42	60	48	42	3-Step
ST4500	3,840	1,850,000	0.630	4.644	0.382	36	42	42	66	54	48	3-Step
ST5000	4,280	2,055,000	0.669	5.160	0.429	36	48	48	72	60	54	3-Step
ST5400	4,605	2,220,000	0.669	5.568	0.445	36	48	48	78	66	54	3-Step

PSR 150				PSR 200					PSR 250				PSR 300				PSR 500	
2-300	3-450	4-600	5-750	2-400	3-600	4-800	5-1,000	6-1,200	2-500	3-750	4-1,000	5-1,250	2-600	3-900	4-1,200	5-1,500	3-1,500	4-2,000
2	3	4	5	2	3	4	5	6	2	3	4	5	2	3	4	5	3	4
0.150	0.183	0.252	0.321	0.182	0.231	0.316	0.401	0.486	0.198	0.255	0.348	0.441	0.180	0.282	0.384	0.486	0.455	0.620
0.066	0.080	0.114	0.148	0.083	0.114	0.152	0.197	0.241	0.089	0.118	0.166	0.212	0.079	0.133	0.187	0.241	0.205	0.256
37,000	47,000	57,000	67,000	44,000	72,000	82,000	105,000	132,000	62,000	72,000	90,000	98,000	63,000	94,000	100,000	108,000	108,000	134,000

300	450	600	750	400	600	800	1,000	1,200	500	750	1,000	1,250	600	900	1,200	1,500	1,500	2,000
18	24	30	36	20	28	30	36	42	24	30	36	42	28	30	36	48	42	48
20	30	36	36	24	30	36	42	48	30	36	42	48	30	36	42	54	48	54
28	36	42	42	30	36	42	48	54	36	42	48	54	36	42	48	60	54	60
60	72	84	84	66	72	84	84	84	72	84	84	84	72	84	84	84	84	84
54	60	84	84	60	72	84	84	84	66	72	84	84	72	84	84	84	84	84
48	54	72	84	54	60	84	84	84	60	72	84	84	60	72	84	84	84	84
42	48	66	72	48	54	84	84	84	54	60	72	84	54	66	72	84	84	84
54	60	84	84	60	72	84	84	84	66	72	84	84	72	84	84	84	84	84
48	60	72	72	54	60	84	84	84	60	66	84	84	60	72	84	84	84	84
42	54	66	66	48	54	72	72	84	54	60	72	84	54	60	72	84	84	84
36	42	54	60	42	48	60	66	84	48	54	66	72	48	54	66	84	72	84
48	60	72	84	54	72	72	84	84	60	72	84	84	66	72	84	84	84	84
42	48	66	72	48	60	72	84	84	54	66	72	84	54	66	72	84	84	84
36	48	60	60	42	48	60	72	84	48	54	60	84	48	60	66	84	72	84
30	36	54	54	36	42	54	66	72	42	48	54	72	42	54	60	72	72	72
16	22	28	32	20	24	30	36	48	20	28	36	42	20	30	40	50	42	48
13	18	24	26	16	20	24	32	40	16	23	30	36	16	24	32	40	36	42
10	14	17	22	12	15	20	26	32	12	17	22	30	12	18	24	32	30	36

255	383	510	638	340	510	680	850	1,020	425	638	850	1,063	510	765	1,020	1,275	1,275	1,700
225	338	450	563	300	450	600	750	900	375	563	750	938	450	675	900	1,125	1,125	1,500
16	22	28	32	20	24	30	36	48	20	28	36	42	20	30	40	50	42	48
13	18	24	26	16	20	24	32	40	16	23	30	36	16	24	32	40	36	42
10	14	17	22	12	15	20	26	32	12	17	22	30	12	18	24	32	30	36
7	10	11	11	10	10	11	12	12	10	11	12	12	10	11	12	12	12	14
6	9	12	14	9	12	14	16	20	8	14	14	18	8	14	14	18	14	16

Carcass Style	2-220		3-330		4-440	
Number of Plies	2		3		4	
	Imperial	Metric	Imperial	Metric	Imperial	Metric
Carcass Gauge (in / mm)	0.097	2.5	0.133	3.4	0.172	4.4
Carcass Weight (lb/in/ft /kg/m ²)	0.046	2.7	0.063	3.7	0.083	4.9
Elastic Modulus (lbs/in / N/mm)	26,000	4,550	29,000	5,100	46,000	8,050
Max Tension Rating (PIW /N/mm)	220	39	330	58	440	77
TROUGHING/EMPTY¹ - MIN BELT WIDTH (IN / MM)						
20 idlers	14	350	20	500	24	600
35 idlers	18	450	24	600	30	750
45 idlers	18	450	-	-	-	-
LOAD SUPPORT¹ - MAX BELT WIDTH (IN / MM)						
200 idlers (0 – 40 lbs/ft ³ / 0 – 640 kg/m ³)	42	1,050	60	1,500	72	1,800
200 idlers (41 – 80 lbs/ft ³ / 641 -1280 kg/m ³)	36	900	54	1,400	60	1,500
200 idlers (81 – 120 lbs/ft ³ / 1281 -1920 kg/m ³)	30	750	42	1,050	54	1,400
350 idlers (0 – 40 lbs/ft ³ / 0 – 640 kg/m ³)	36	900	54	1,400	60	1,500
350 idlers (41 – 80 lbs/ft ³ / 641 -1280 kg/m ³)	30	750	48	1,200	54	1,400
350 idlers (81 – 120 lbs/ft ³ / 1281 -1920 kg/m ³)	24	600	36	900	48	1,200
MINIMUM PULLEY DIAMETERS (IN / MM)						
81 – 100% belt rated tension	14	400	18	500	22	600
61 – 80% belt rated tension	12	350	15	450	18	500
Up to 60% belt rated tension	9	300	11	350	14	450
STANDARD CONSTRUCTIONS AVAILABLE						
1/8" X 1/16" Platinum & Abrader covers	Yes		-		-	
3/16" x 1/16" Platinum & Abrader covers	Yes		Yes		-	
1/4" x 1/16" Platinum & Abrader covers	-		Yes		Yes	

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