



FennerTM
PRECISION POLYMERS
A Michelin Group Company



INDUSTRIAL BELTING

A variety of belts for specialised
Industries

WHO WE ARE

Experts in Belting for over 150 Years

Fenner Precision Polymers is a global engineered solutions leader, with a single-minded purpose: to provide world class, precision-engineered elastomeric solutions that help our customers succeed. Harnessing advanced materials technology and manufacturing capability, we expand the limits of possibility in a world of industries and applications. Beginning with a fast, efficient prototype development process, we tailor everything to meet your specific cost, timeline and operational requirements. Operating hand in-hand with your engineering teams, we combine our elastomeric expertise with detailed knowledge of applications and functionality to specify the ideal solution for every project.

We make everything from belting to sheeting and seals. And we have the scope to offer products in the right sizes, profiles and shapes, all with the specific heat resistance, stretch, strength, and wear properties to fit your exact requirements.

Belting Expertise

Our in house team of technical experts live and breathe Belting. We supply belting for the Mining, Agriculture, Food and Beverage and Automotive Industry, adhering to the strictest customer specifications and tolerances. No matter what your requirement, we can develop and manufacture a belt to meet your needs.

Michelin Owned

On 31 May 2018, Fenner became part of the Michelin group of companies following the purchase of Fenner PLC. The company was and was incorporated into its High Tech Materials division. Michelin ownership has allowed Fenner Precision Polymers to benefit from world class R&D and capital investment in both our machinery and processes.

Trusted & Accredited

Fenner Precision Polymers has been manufacturing belting at our UK site in Lincoln as far back as the 1800's. In the 1900's the company invented the Balata rubber process which was used for its Balata Belts which were marketed as being 200% stronger than leather belts whilst costing less.

In addition to decades of experience producing belts, Fenner Precision Polymers holds both ISO9001 & ISO4001 & ISO45001 certification



BELTING RANGE

Fenner Precision Polymers manufactures a wide range of Industrial Belting solutions for a diverse set of applications across different industries.

Non Contaminating Belting

Specially designed to handle hot, sticky materials such as uncured rubber, our Non Contaminating Belting is utilised in tire manufacturing process

Food Grade Belting

Primarily deployed in food manufacturing, Fenner Precision Polymers Food Grade belting transports food throughout the food production line

Baler Belting

Used in harvesters for the compaction of round straw and hay into bales for the Agriculture industry

Blast Cleaner Belting

Utilised to transport a variety of materials through shot blast cleaning machines

Thrower Belting

Designed for the precise, accurate 'throwing' of grain from silos onto trucks for the Agriculture industry

Super Tensile Belting

Employed in the Agriculture and Manufacturing industries for use as drive, conveyor or elevator belting

Chevron Belting

Primarily utilised to transport materials on an incline, the Chevron Belt is commonly utilised in the Mining and Agriculture industries.



Non Contaminating Belting

Fenner Precision's non-contaminating belting is specially designed to handle hot, sticky materials such as uncured rubber. Its excellent product release properties eliminates any possible cross-contamination of products handled.

Manufactured on our state of the art machinery installed and commissioned in 2021, our Non Contaminating belts are able to be manufactured up to 2.75 metres wide taking into account the most minute tolerances to ensure the finished products meets your exact specification.

Developed in conjunction with a leading tyre manufacturer, our technical team have been able to access developmental testing data to aid in the design of the belt.

Construction

Our belting is made by coating silicone over a cotton fabric. There is a choice of bottom surface finishes: bare back, friction back, or silicone back. Featuring a folded edge to give superior edge protection from machine wear, increasing heat protection and belt lifespan.

In addition, our Belts are able to be supplied fitted with metal clips to join belts end to end, allowing for easier installation with less preparation and machine downtime.



Key Features

- ✱ Available in widths up to 2.75 metres wide and custom lengths
- ✱ Customised release coatings available
- ✱ Folded edge gives superior edge protection



Food Grade Belting

Available in three material choices; Silicone, Natural Rubber and Neoprene, Fenner Precision Polymers Food Grade Belting is compliant with US FDA21 CFR making it the perfect choice to transport hot viscous food stuffs such as toffee or caramel along production lines.

Our Food Grade belting is the result of extensive research and development done in conjuncture with our customers to ensure that our belts meet the most stringent standards whilst not sacrificing longevity of the belt.

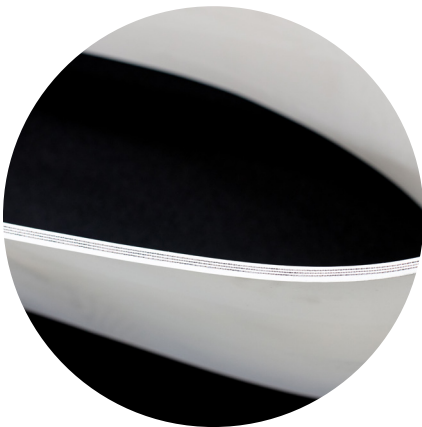
Construction

Our food grade belts feature a moulded side wall which ensures that food is not dropped over the side of the belt when it is being transported. The moulding process ensures that there are no weak points along the side walls which could become failure points over extensive usage.

In addition, the formulation of the different Silicone, Natural Rubber and Neoprene compounds ensures excellent release properties for even the stickiest substances with the added bonus of being able to be cleaned in place.

Key Features

- ✱ Available in widths up to 2.75 metres wide and custom lengths
- ✱ Compliant with US FDA21 CFR and REACH
- ✱ Custom features including side walls and cleats



Baler Belting

Working closely with a leading manufacturer of bale wrapping machines, we applied our polymeric expertise to develop an 'endless' belt.

Fenner Precision Polymers manufactures specially-built, fabric-reinforced rubber belts for Bale Wrapping Machines. These truly endless belts prevent joint failure and dramatically improve performance on bale wrapping machines when used in arduous conditions, such as silage or wet climates. Our belts provide manufacturers and OEMs with better performance and reliability on their machines.

This flat belt technology is designed to provide resilient operation in the most demanding conditions, preventing 'belt splitting' and the costly disruption of the baling process.

Technical Expertise

Fenner Precision Polymers application Engineers work with qualified OEMs to develop, prototype and produce application specific endless belts with the most demanding environmental conditions in mind.



Key Features

- ✱ Specifically-built, fabric-reinforced rubber belts for bale wrapping machine
- ✱ Truly endless belts prevent joint failure and dramatically improve performance
- ✱ Designed to provide resilient operation in the most demanding conditions, preventing 'belt splitting' and the costly disruption of the baling process



Blast Cleaning Belting

Fenner Precision Polymers custom-manufacture high quality shot-belt for a range of blast cleaning requirements, including rust and scale removal. Whether it's for machine refurbishment or new equipment, our reinforced rubber belting is engineered for maximum durability, and is specified to provide optimum performance for each application.

Manufactured with high quality reinforced rubber, our hard-wearing belting enables the reliable conveyance and removal of surplus material, enabling a fast and efficient blast cleaning process.

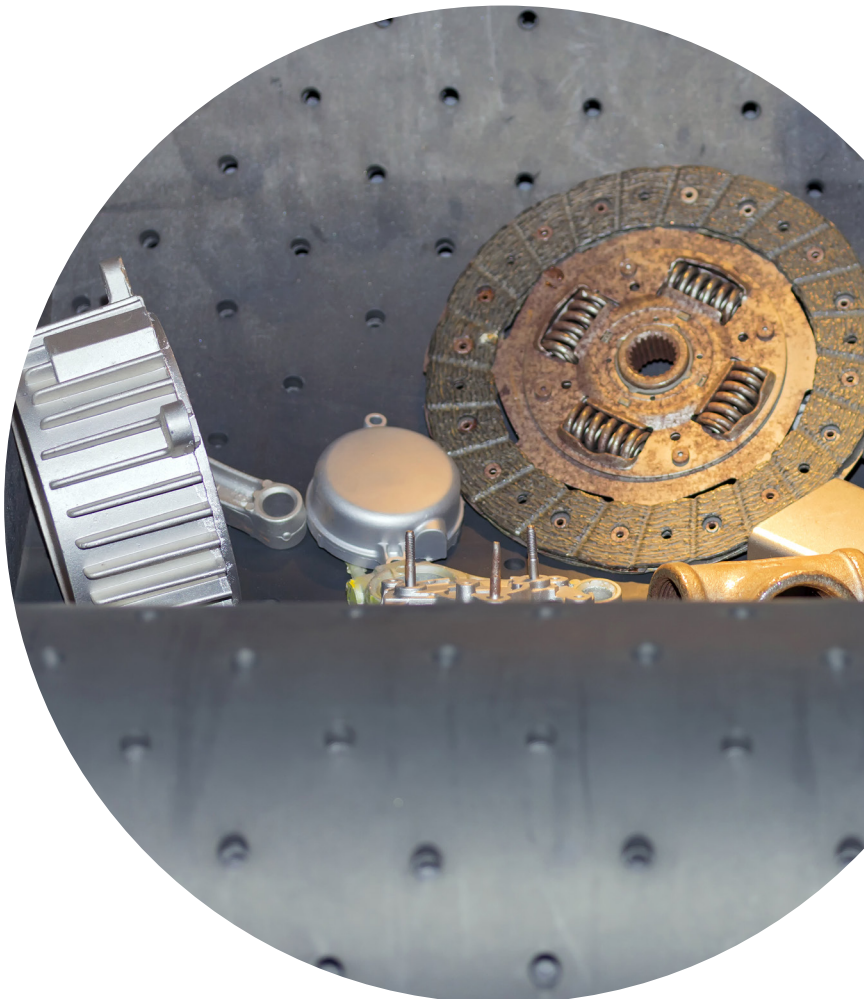
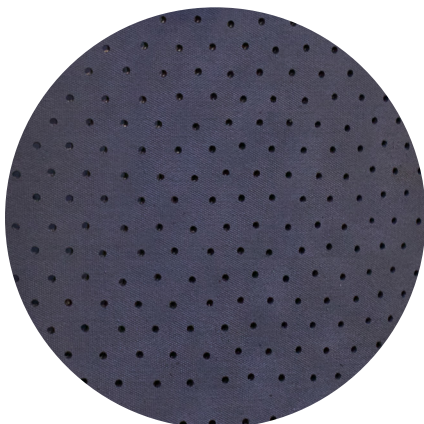
Successful shot blasting demands a robust blast cleaner belt. Our technical team have the capability to design and manufacture a belt for your exact shot blaster requirements. You no longer have to worry about belt failure or costly downtime – our blast cleaner belts (also known as tumble blast conveyor belts) are made from tough reinforced rubber for extra durability.

Technical Expertise

With over 30 years' experience in the blast cleaning industry, you can trust Fenner Precision Polymers components. Rather than having to build your shot blaster around our belts, our knowledgeable engineers work with you to create a custom product for your unique application needs.

Key Features

- ✱ Custom-manufactured high-quality shot-belt for a range of blast cleaning requirements
- ✱ Manufactured from tough reinforced rubber for extra durability
- ✱ Custom Widths and Lengths available



Thrower Belting

Our wide thrower belts (from 12 – 20” wide, and 1/2” thick and 2-4 metres) are designed for the precise, accurate ‘throwing’ of grain from silos onto trucks.

Fast, constant operation requires supreme durability and high performance that delivers efficiency for agricultural businesses where the safe handling of produce together with speed of operation are imperative.

Fenner Precision Polymers has developed a truly endless belt designed to prevent failure in specialized Bulk Thrower Machines. When loading containers with sensitive bulk materials like pellets, granulate and grain, customers want conveyance that is gentle on the product but that also provides maximum output efficiency. Fenner Precision’s white, custom food-grade thrower belts provide this this specialized performance.

Bulk material handling equipment also requires a flexible thrower belt with good abrasion resistance to transport the bulk materials. Fenner Precision Polymers special rubber belt with fabric reinforcement performs much better in this application than jointed polyurethane belts due to high running speeds and small pulley diameters.



Key Features

- ✱ Truly endless belt designed specifically for bulk throwing machines
- ✱ White, custom food-grade thrower belts is gentle on the product but also provides maximum output efficiency
- ✱ Custom Widths and Lengths available



Super Tensile Belting

Commonly used as drive, conveyor or elevator belting for industrial machinery and agriculture Fenner Precision Polymers Super Tensile Belting is extraordinarily strong, densely woven and specially designed for machine-tool use.

Constructed utilising an extremely high-performance Polychloroprene Rubber with Nylon reinforced cores. Our standard Super Tensile Belt is a 3-ply that is between 3.5 and 4 mm thick. For heavy-duty use 4 and 5ply belts can be manufactured.

Construction

These low profile drive belts are constructed with excellent mechanical properties enabling high belt speed drives that offer extremely high-performance and vibration-free operation. Due to the specially formulated rubber compound our belt features a higher than standard friction coefficients and requires minimal maintenance after installation whilst remaining extremely robust and long lasting.

Key Features

- ✱ High strength, durable and customisable Belts
- ✱ Can be manufactured in 3 ply, 4 ply and 5 ply
- ✱ Custom Widths and Lengths available



Chevron Belting

Fenner Precision Polymers designs and manufactures heavy-duty moulded rubber belts for conveyor machine OEMs. These robust belts are made with a fabric liner for added strength, durability and flexibility and they have proven to be effective and long-lasting across a wide range of agricultural and industrial elevator and conveyor applications.

Our industrial chevron belting is specially designed to handle a diverse range of materials. Operating at angles of up to 40° our integrally moulded chevron belting is designed to handle the stiffest of material conveying challenges. With extensive manufacturing know-how, we can specify a huge variety of specialist profiles across a broad range of chevron widths, without compromise on resistance to abrasion, heat or oil and grease.

Construction

These robust belts are made with a fabric liner for added strength, durability and flexibility and they have proven to be effective and long-lasting across a wide range of agricultural and industrial elevator and conveyor applications.



Key Features

- ✱ Multiple chevron profile options available
- ✱ Belts are made with a fabric liner for added strength, durability and flexibility
- ✱ Able to be manufactured to individual customer's designs



Machinery

Key to our Belting Range is our state of the art machinery and technical excellence. To enable an expansion our product offering and to aid in the development of a wider non contaminating belt for a leading global tire manufacturer Fenner Precision Polymers invested over €7 million in our Kronos project.

The Kronos project involved the installation and commissioning of an impressive new suite of state of the art machines comprising a 3 metre wide Calendar, Rotocure, Spreader and Laminating Line enabling wider production and more precise tolerances.

Our Engineers and Technicians worked tirelessly to install and commission the machinery despite setbacks and global challenges. Now running continuously, Kronos has allowed Fenner Precision Polymers to expand our product offering whilst simultaneously increasing our production capability.

Precision Guaranteed

Kronos boasts a suite of impressive features, not only allowing wider manufacturing capability up to 2.75 metres but also enabling world class production for a range of silicone and organic rubber based belts.

The larger format of the Kronos equipment allows for faster production of standard width belting. Manufacturing at double wide allows us to reduce lead times by slitting stock to standard widths after it has been produced.



GET IN TOUCH

Fenner Precision Polymers operates globally and have a presence in Europe, America, China and India

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