FENNER DRIVES
products are available from
MARYLAND METRICS
P.O. Box 261   Owings Mills, MD 21117 USA
ph: (410)358-3130 (800)638-1830
fx: (410)358-3142 (800)872-9329
web: http://mdmetric.com   email: sales@mdmetric.com
RFQ form: http://mdmetric.com/rfq.htm
The possibilities are endless with Eagle Polyurethane & Polyester Belting and O-Rings from Fenner Drives. As a world leader in belting, we have a comprehensive range of high quality non-reinforced and reinforced products.

From light, medium or heavy duty conveying to custom profiles, Fenner Drives has the right product for your application.

Contents

Food Grade Belting ............................................ 3
Non-Reinforced Polyurethane Belting .......... 4
Quick-Connect Belting ........................................ 5
Factory Welded Endless Belts ....................... 6
Reinforced Polyurethane Belting .................. 7
Polyester Belting ................................................ 8
Can Cable .......................................................... 9
Co-Extruded Polyurethane Belting ............... 10
SuperGrip Top Belting .................................... 11
Special Profiles & Durometers .................... 12
Welding Kits ..................................................... 13
Product Applications .................................... 14
Frequently Asked Questions ..................... 17
Product Range ............................................... 18
**Eagle® FDA Compliant Polyurethane Belting**

Over 400 of our Eagle Belting products are FDA Compliant. Choose from a broad range of durometers, colors and profiles for the right product for your application. FDA compliance is dependent upon these three primary principles:

**Materials**
Only supplier certified FDA compliant materials per regulations CFR 21 177.1680, CFR 21 177.2600 and CFR 21 178.3297 are used to manufacture Fenner Drives FDA compliant Eagle Belting.

**Good Manufacturing Processes (GMP)**
Fenner Drives FDA compliant Eagle Belting is manufactured in accordance to CFR 21 110. The products are comprised of raw materials that are traceable by lot number and are manufactured via controlled processes to eliminate contamination from handling and environmental conditions.

**Testing**
Fenner Drives FDA compliant Eagle Belting is independently tested and verified to meet FDA standards for direct food contact per regulations CFR 21 177.1680 and CFR 21 177.2600

Look for ‡ by the product name in the Product Range Chart (pg. 18-19) to designate FDA compliancy. Need help choosing the right Eagle product? Our Application Engineers are here to help!

**Eagle® Blue 80 MD: Metal Detectable Polyurethane Belting**

- Developed specifically for food processing
- Independently tested and verified to meet FDA standards for direct food contact
- Designed to be detected by standard metal detectors utilized to ensure food safety.
- Available in Round and Vee profiles.

**Eagle® EC Belting: Premium Belting for Direct Food Contact**

- Independently tested and verified to meet the requirements of European Regulation 10/2011 (and the legislation which it replaces; Commission Directive 2002/72/EC) within the framework defined by the Regulation 1935/2004/EC (27/10/2004) relating to plastic materials and articles intended to come into direct contact with foodstuffs.
- Suitable for repeat use food contact at temperatures up to 40°C (104°F) over a period of up to one hour with all food types having a pH of greater than 4.5.
- When used in a range of “typical” process environments, Eagle EC belting will not transfer its components into food in quantities that could endanger human health, change the composition of the food in an unacceptable way or deteriorate the taste and smell of foodstuffs.
- Available in Blue 80 and Clear 80 in Round, Vee or T-Top profiles.
Non-Reinforced Polyurethane Belting

Eagle: Non-Reinforced Polyurethane Belting — the proven workhorses for material transfer and light-duty power transmission applications.

- Solid polyurethane construction
- Round, V- and flat profiles
- Excellent abrasion resistance
- Self tensioning — no take-ups required
- Easily welded on site with a Fenner Drives Welding Kit
Eagle Non-Reinforced Quick-Connect Polyurethane Belting — the quick and easy way to avoid conveyor and system downtime; no welding required.

- Ideal quick fixes — zero downtime products
- Twisted O-Rings (TOR) — ideal fast fit solution for live roller conveyors
- Twisted loop construction packaged with metal hooks. Plastic hooks also available.
- Round hollow construction packaged with metal connectors
- No need to dismantle drive components
- Custom colours and durometers available to order
Eagle Endless O-Rings and Fabricated Belts — let us do the work for you and take the hassle out of fabricating your own endless belts.

- Available in all Eagle Belting colours and durometers except Can Cable
- O-Rings for line shaft, live roller and motion transfer conveyors
- High coefficient of friction
- Elastic with excellent memory
- Popular ⅛", 3/16", ¼", 5mm and 6mm sizes in stock
- Additional sizes, colours and durometers are made to order
- Rapid order turnaround for all specials
Reinforced Polyurethane Belting

Eagle Opaque 80 R
Eagle Hyfen® 85 R
Eagle Ivory 85 R
Eagle Orange 85 R
Eagle Green 89 R
Eagle Green 89 RT
Eagle Beige 95 R
Eagle Hyfen 95 R

Reinforced Polyurethane Belting — the ideal high-strength, low-stretch choice for longer conveyor lengths, heavier conveyed loads, or medium-duty power transmission applications.

- For more highly loaded applications
- Either polyester cord or tape reinforcement
- High strength — low stretch
- Round, V- and Twin V- profiles
- Can be cogged for increased flexibility
- Reinforced belting is not self-tensioning — take up the slack with a Fenner Drives T-Max Belt & Chain Tensioner®
Eagle Polyester Belting — a low-stretch, hard-wearing option. Ideal for conveying heavy or abrasive materials; also for longer conveyor lengths.

- Made from solid polyester
- Low stretch characteristics
- Ideal for longer spans
- Ideal for conveying heavy materials
- Lower coefficient of friction than polyurethane
- Allows for accumulation while conveying
- Not self-tensioning — take up the slack with a Fenner Drives T-Max Belt & Chain Tensioner®

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ph: (410)358-3130 (800)638-1830   fx: (410)358-3142 (800)872-9329   RFQ form: http://mdmetric.com/rfq.htm
How to order: Please prefix the FENNER DRIVES part number with ‘R609F-’ example: R609F-6202120UP
Eagle® Reinforced Can Cable — when canning lines go down, don’t call in the wire splicing team and wait; weld our Can Cables endless in minutes yourself!

• Blue, Green and Natural are 100% polyester reinforced with high tensile cord; Red is a Fenner Drives engineered proprietary polymer blend
• Blue 55D Aramid is 100% polyester with high strength Aramid cord reinforcement
• High performance, low cost alternative to steel cables
• Fast installation — a zero downtime product
• Easily welded endless on site with Fenner Drives Overlap Welding Kit
• Eagle Red 50D has a lower coefficient of friction (LCF)
• Popular 3/16” (9.5mm) diameter cable always in stock
• Other sizes and colours made to order
Co-Extruded Polyurethane Belting

Eagle Red 85 CXF
Eagle Hyfen 85 CXF®
Eagle Hyfen 85 CXR®

Eagle Red 85 & Reinforced Hyfen 85 Co-Extruded Polyurethane Belting — provides extra grip and cushioning for flat or inclined conveyors.

- Non-reinforced and reinforced versions
- Ultra-grip co-extruded 60A top surface
- Tough 85A base
- Flat (CXF) and ribbed (CXR) top surfaces available
- V- and Twin V- profiles
- Integrally bonded top cannot delaminate
- Outperforms all adhesively bonded special surface belts
- Reinforced belting is not self-tensioning — use a T-Max Belt & Chain Tensioner® from Fenner Drives

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SuperGrip Top Belting

A variety of colours, durometers, and top surfaces are available.

Eagle SuperGrip Top (SGT) Belting — incorporating high grip, low wear top surfaces. Ideally suited for ceramic, wood processing and corrugated conveying applications.

- Polyurethane 80A, 85A, 89A, and 90A base durometers
- Polyester 40D base durometer
- Non-reinforced (SGT) and reinforced (RSGT) versions
- PVC SuperGrip Top for high grip — non-abrasive materials
- Polyurethane (PU) SuperGrip Top for heavier duty — highly abrasive materials
- Proprietary Thermoplastic Elastomer (TPE) SuperGrip Top with nearly the grip of PVC and the wear of polyurethane
- Integrally bonded top cannot delaminate
- Custom base and top surfaces available on request
Work one on one with our design engineers to develop an optimum solution

Eagle® Custom Belting — our product design and engineering teams work with you to develop the correct belt profile and optimum material selection for your specific application.

- Dual durometers — a variety of options are available to utilize the best properties of two different polyurethane materials
- Static dissipative and UV stabilized material options
- Tracking features to fit unique pulleys and drive configurations
- Ridged profiles for reduced product contact surface
- Special grip top surfaces for a variety of direct conveying applications
- Larger surface areas to lower unit pressure on heavy or sensitive product surfaces

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Welding Kits

EAGLE FREESTYLE by FENNER DRIVES

Cordless belt welding in the palm of your hand!
- Quick, effective welds for Eagle Non-Reinforced polyurethane belting
- Weld anywhere, any time – no plug required during welding
- Four specialty rechargeable batteries and charger included with kit – two to use, and two to spare

Kit Includes:
- Welder
- Control Box
- Set of Dies
- Flash Cutters
- Cutting Shears
- Carrying Case

BUTT WELDING
- Fast, economical way to join all Eagle Non-Reinforced and some Reinforced polyurethane belting
- Unique, reliable, easy-to-use clamping tool ensures proper belt-end alignment
- 75mm (3") hot knife available for larger profiles
- Available in 115 V or 240 V kits

Kits Include:
- Hot Knife
- Large Clamp or Mini Clamp
- Flash Cutters
- Cutting Shears
- Carrying Case

OVERLAP WELDING
- Specifically designed to weld your Eagle Reinforced polyurethane and Can Cable belting
- Strongest weld you can make in the field, yet still flexible
- Proper weld delivers 100% of belts’ maximum working load
- Smooth surfaces will not damage transferred product
- Available in 115 V or 240 V kits

Kits Include:
- Welder
- Control Box
- Set of Dies
- Flash Cutters
- Cutting Shears
- Carrying Case

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Eagle® Belting provides solutions for all sorts of applications in virtually every industry. For inspiration on how we can solve your application problem, here’s just a small sampling of our belting products at work. Not sure what you need? Contact us for advice on your specific application.

1. Eagle® Hyfen® Ridge-Top on a pop-up diverter conveying wood products.
2. Eagle Hyfen on a tray conveyor system, such as found in cafeterias, hospitals, etc.; chosen for its high strength, low stretch characteristics on long center distances.
3. Wood panels being moved by Eagle Opaque 80; chosen for its non-marking characteristics.
4. Eagle Green 89T, with its excellent abrasion resistance, is a great choice for conveying egg cartons.
5. Eagle Blue 80 EC, approved for direct food contact, used on tomato packaging line.
6. Eagle® Red 90 moving roofing tile; chosen for its excellent abrasion resistance.

7. Eagle Twisted O-Rings easily installed without dismantling line shaft.

8. Eagle Orange 85 belts driving the roller conveyor.


10. Co-extruded reinforced Eagle Hyfen 85 CXF® on conveying system. Lower durometer top surface increases coefficient of friction for excellent grip to convey or move products.
1. Eagle® EC Blue 80 is certified for repeat use food contact, perfect for this pizza conveyor.

2. Non-marking Eagle Ivory SGT with a polyurethane top surface carries ceramic tiles up an incline for further processing.

3. Eagle Natural Can Cable transports soft drink cans in the manufacturing and filling process, providing a low cost alternative to steel cables.

4. A light bulb conveyor uses Eagle Orange 85 5/16” round to safely move light bulbs.

5. Eagle Orange 85 on egg conveyor.

6. This hot dog conveying machine is fitted with Eagle Orange 85 Flat. In one section of the process, the belt flexes into a vee-shape to guide product consistently.
1. **Frequently Asked Questions**

**Q** I will be using Eagle® Belting in a high humidity environment. Will this affect the life of the belting?

**A** High humidity will have some effect, although not believed to be significant, on the belt life.

**Q** I have an application involving 200°F/93°C temperature. Can I use your polyurethane belting?

**A** Our Eagle polyurethane products are usually limited to 150°F/66°C (see Eagle Technical Data Brochure for details). At higher temperatures the polyurethane softens and loses strength, resulting in excessive stretch. However, Fenner Drives’ PowerTwist Plus® should be considered as an option.

**Q** My application involves washdown. What effect will it have on the belt?

**A** Polyurethane is resistant to water and many industrial chemicals, but not resistant to all. Consult the Eagle Technical Data Brochure for chemical resistance information or contact Fenner Drives Applications Engineering group with the contaminants present and we will make a recommendation.

**Q** The standard profiles shown do not appear to suit my needs. Do you make special profiles?

**A** Yes! At Fenner Drives, we welcome the opportunity. Contact Fenner Drives Applications Engineering group at ae@fennerdrives.com for assistance.

**Q** Are Eagle® Polyurethane and Polyester belting products REACH compliant?

**A** Most of our products do not contain substances listed as hazardous in the REACH Regulation. Please visit www.fennerdrives.com for further information.

**Q** I plan on using a B/17 section polyurethane belt. Will your belt fit pulleys that I can buy from numerous power transmission distributors?

**A** Yes. All of our “classical” polyurethane belts, i.e. Z/10, A/13, B/17, C/22 and D/32, are designed to fit RMA/BS/DIN/ISO compliant pulleys.

**Q** Why can’t I butt weld your reinforced polyurethane belting?

**A** You can, but it will be necessary to drill back the reinforcement. Follow butt welding instructions available at www.fennerdrives.com.

**Q** Do I need some take-up adjustment when using your polyurethane belts?

**A** When using non-reinforced polyurethane belting, take-up is not required. However, all reinforced type belt does require take-up. One good option is our T-Max Belt & Chain Tensioner® with a PowerMax™ Idler Pulley.

**Q** On my conveying application, the product being moved could occasionally accumulate. What belt do you recommend for this?

**A** Our Eagle Green 89 T with its textured surface provides a lower coefficient of friction, ideal for applications where product accumulation can occur.

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**For any questions about our extensive line of products, just call 1-800-243-3374 or +44 (0)870 757 7007 and your Customer Support Specialist will help you.**
<table>
<thead>
<tr>
<th>Non-Reinforced Belting</th>
<th>Reinforced Belting</th>
<th>Round Belting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eagle Blue 80 EC ‡</td>
<td>Eagle Opaque 80</td>
<td>3mm 2.4mm 3.0mm 3.25mm 3.5mm 4mm 5mm 6mm 7mm 8mm 9.5mm 10mm 12mm 13mm 14mm 15mm 16mm 18 mm 19 mm 20mm</td>
</tr>
<tr>
<td>Eagle Clear 80 EC ‡</td>
<td>Eagle Opaque 80 R</td>
<td>3/32” 1/8” 3/16” 1/4” 5/16” 3/8” 1/2” 9/16” 5/8” 3/4”</td>
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<tr>
<td>Eagle Blue 80 MD ‡</td>
<td>Eagle Orange 85‡</td>
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<tr>
<td>Eagle Opaque 80</td>
<td>Eagle Clear 85‡</td>
<td></td>
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<tr>
<td>Eagle Orange 85‡</td>
<td>Eagle Beige 95</td>
<td></td>
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<tr>
<td>Eagle Clear 85‡</td>
<td>Eagle White 40D</td>
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<tr>
<td>Eagle Ivory 85</td>
<td>Eagle Blue 55D</td>
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<tr>
<td>Eagle Green 89</td>
<td>Eagle Red 85 CXF</td>
<td></td>
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<tr>
<td>Eagle Green 89 T</td>
<td>Eagle Clear 85 QC</td>
<td></td>
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<tr>
<td>Eagle Red 90</td>
<td>Eagle Yellow 85 QC</td>
<td></td>
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<tr>
<td>Eagle Beige 95</td>
<td>Eagle Clear 85 TOR</td>
<td></td>
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<tr>
<td>Eagle Clear 95‡</td>
<td>Eagle Ivory 85 SGT*</td>
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<tr>
<td>Eagle White 40D</td>
<td>Eagle Green 89 SGT PVC</td>
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<tr>
<td>Eagle Red 80 D</td>
<td>Eagle Red 90 SGT PVC</td>
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<tr>
<td>Eagle Red 85 CXF</td>
<td>Eagle Ivory 85 SGT and RSGT available with PVC, PU or TPE top surface.</td>
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<tr>
<td>Eagle Clear 85 QC</td>
<td>Eagle Green 89 R</td>
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<td>Eagle Yellow 85 QC</td>
<td>Eagle Ivory 85 R</td>
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<td>Eagle Ivory 85 SGT</td>
<td>Eagle Green 89 R</td>
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<tr>
<td>Eagle Ivory 85 RSQT‡</td>
<td>Eagle Green 89 R</td>
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<tr>
<td>Eagle Can Cable†</td>
<td>Eagle Green 89 R</td>
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<tr>
<td>Eagle White 40D SGT PVC</td>
<td>Eagle Gre 89 R RSGT PVC</td>
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<tr>
<td>Eagle Fabricated Belts</td>
<td>Eagle Can Cable†</td>
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</tbody>
</table>

R  Reinforced LCF  Low Coefficient of Friction
T  Textured CXF  Co-extruded Flat
RT  Reinforced Textured CXR  Co-extruded Ribbed
QC  Quick-Connect SGT  SuperGrip Top
TOR  Twisted O-Rings RSGT  Reinforced SuperGrip Top

‡  Eagle Ivory 85 SGT and RSGT available with PVC, PU or TPE top surface.
†  Eagle Can Cable available in Red 50D LCF, Blue 55D, Blue 55D Aramid, Natural 55D, Green 63D, and Natural 63D.
‡  These belts are FDA compliant.
**V Belting**

<table>
<thead>
<tr>
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<td>Eagle Opaque 80</td>
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<tr>
<td>Eagle Clear 80 EC&lt;sup&gt;†&lt;/sup&gt;</td>
<td>Eagle Orange 85&lt;sup&gt;†&lt;/sup&gt;</td>
</tr>
<tr>
<td>Eagle Blue 80 MD&lt;sup&gt;†&lt;/sup&gt;</td>
<td>Eagle Clear 85&lt;sup&gt;†&lt;/sup&gt;</td>
</tr>
<tr>
<td>Eagle Opaque 80</td>
<td>Eagle Ivory 85</td>
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<tr>
<td>Eagle Orange 85&lt;sup&gt;†&lt;/sup&gt;</td>
<td>Eagle Green 89</td>
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<tr>
<td>Eagle Clear 85&lt;sup&gt;†&lt;/sup&gt;</td>
<td>Eagle Green 89 T</td>
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<tr>
<td>Eagle Ivory 85</td>
<td>Eagle Red 90</td>
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<tr>
<td>Eagle White 85D</td>
<td>Eagle Beige 95</td>
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<tr>
<td>Eagle Clear 85 QC</td>
<td>Eagle Hyfen 85 R&lt;sup&gt;†&lt;/sup&gt;</td>
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<tr>
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<td>Eagle Ivory 85 RSGT&lt;sup&gt;*&lt;/sup&gt;</td>
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<td>Eagle Green 89 SGT PVC</td>
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</tbody>
</table>

**Note:** Some diameters and cross sections may be subject to minimum orders. Dimensions are for reference only. Flat belting available in Eagle Orange 85. Additional cross sections, colours, and durometers are available. Contact Applications Engineering at ae@fennerdrives.com for design assistance.
Fenner Drives is a proven leader in the design and manufacture of problem-solving power transmission and motion transfer components. Recognized widely for our expertise and innovation in manufacturing technology, we consistently blend reliability, quality and value in our products. As part of our commitment to provide unsurpassed technical support and service, we maintain extensive engineering, development and testing facilities.

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