How to order products

At Cambridge Engineered Solutions, manufacturing outstanding quality products is only the beginning of our commitment to deliver total customer satisfaction. We provide all of the sales, service and engineering assistance you need via phone - 24/7/365.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Toll-Free:</td>
<td>1.877.649.7492</td>
</tr>
<tr>
<td>Outside the U.S. &amp; Canada:</td>
<td>1.410.901.2660</td>
</tr>
<tr>
<td>Fax:</td>
<td>1-410-901-8680</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:sales@cambridge-es.com">sales@cambridge-es.com</a></td>
</tr>
</tbody>
</table>

Ventas y servicios de exportación

Through our Export Division, we export products to all parts of the world. We are experienced in preparing FAS, C&F and CIF quotations, processing of necessary documents, and handling of all types of export shipments. To serve our international customers, we also have a network of representatives around the world plus manufacturing and sales facilities in the United States, Brazil and Mexico.
Welcome to Cambridge International. We're a company with a long history and global leadership ... but also "local small-town" values and exceptional customer service. This catalog provides a wide variety of information on our products, technology and expertise. Please use it to find product details, application resources and contact information.

The catalog presents an overview of our entire product line. Cambridge is 100% committed to helping you design the technology required to accomplish your goals ... or to enhance the efficiency and performance of your existing operation. It's a commitment we made nearly 100 years ago – and one that continues just as strong today.

We would love to talk with you about your product and system needs. Our customer experience team members are on hand to answer your call 24 hours a day, 365 days a year (1.877.898.2923 or 1.410.901.2660). They're trained to answer your questions and direct you quickly to additional resources for your convenience.

Integrity, discipline, accountability, teamwork and heartfelt commitment are at the core of Cambridge International's company values. These values provide the foundation for each of us at Cambridge to respond to your needs. Our goal is to make you a Customer for Life!

www.cambridge-es.com

| Table of Contents |
| Cambridge Capabilities | 5 |
| Straight Line Belts |
| DURAFLEX Belts | 6 |
| DURAFLEX EDGE | 7 |
| Precision Belts, Sprockets and Machined Rolls | 8 |
| Wire Mesh and Balanced Weave Belts | 10 |
| DiaCrimp | 10 |
| Flat Seat | 12 |
| Oven Balanced Flat Seat (OBFS) | 12 |
| Round Balanced Flat Seat (RBFS) | 12 |
| Furnace Balanced Flat Seat (FBFS) | 13 |
| Round Wire Mesh Belting | 14 |
| Eye-Link Modular and Non-Modular Belts | 14 |
| Sani-Grid Straight Line Belts and Sprockets | 15 |
| PacTite Flat Wire Belts and Sprockets | 16 |
| DuraHinge Belts and Sprockets | 18 |
| PacTitan Flat Wire Belt | 19 |
| Specialty Belts | 20 |
| Turn Belts |
| DuraLite Belts and Sprockets | 21 |
| Leading Edge Performance Link Belts and Sprockets | 23 |
| Leading Edge Performance Grid Belts and Sprockets | 24 |
| Cam-Grid Xtra Belts and Sprockets | 25 |
| Cambri-Link Belts and Sprockets | 26 |
| Cam-Grid Belts and Sprockets | 28 |
| Heavy Duty Tight Radius Cam-Grid | 30 |
| Sani-Grid Turn Belts and Sprockets | 31 |
| Wire Cloth Products and Filter Leaves |
| Continuweld Filter Leaves | 33 |
| Standard Filter Leaves | 34 |
| Traveling Water Screens | 35 |
| Panel Belts | 35 |
| Vibrating Screens | 36 |
| Wire Cloth Fabrication | 37 |
| Raw Cloth | 37 |
| Services |
| Comprehensive Service and Support Designed Around You | 38 |
Key Company Milestones

1911 Building completed and operations began
1915 Year of incorporation (Cambridge Wire Cloth Company)
1923 First wire belt manufactured
1953 Alloy Wire Belts founded
1964 Manufacturing and sales operations established in Mexico City
1972 Maryland Wire Belts founded
1993 Manufacturing operations established in Matamoros, Mexico
1996 Alloy Wire Belts acquired by Maryland Wire Belts
1998 Merger with Maryland Wire Belts ... creation of Cambridge International
2002 Architectural Division established
2006 Brazilian manufacturing operations secured
2009 Environmental Division established

Companies all over the world rely on Cambridge International for the widest selection of metal straight line belts, turn belts and woven wire cloth products available from a single manufacturer.

With a heritage that extends back to 1911, we pioneered the development of precision-engineered metal mesh conveyor belts and wire cloth fabrications. Because of our single-minded devotion to our craft, we continue to lead the industry today – nearly a century after our founding.

Our commitment to the global marketplace is unmatched by any other company in our industry. It’s exemplified by our sales and production facilities in Mexico, as well as our Brazilian manufacturing operation. And inside the U.S., our dominant market presence is supported by three manufacturing and distribution facilities – two in the East and one on the West Coast.

Being the industry leader means staying in the forefront of innovation. No matter where you’re located, Cambridge International stands ready to provide world-class R&D, engineering, products, service and support. Because of our many decades of innovative engineering and listening to customers, we can customize products for specific applications to help you attain heightened levels of efficiency and productivity in your operations.

This commitment to expertise and quality extends to our manufacturing operations as well. We build every product for efficiency and longevity, incorporating rigorous quality control and testing procedures that ensure mechanical integrity and optimum performance.

We’re also available to provide technical advice and customer assistance, along with “24/7/365” emergency services backed by a 100% satisfaction guarantee. Contact us toll-free at 1.877.898.2923 or catalog@cambridge-intl.com. Let’s talk!

Among the many markets we serve:

- Food processing
  - Frozen & prepared specialties
  - Bakery & snack foods
  - Meat, poultry & seafood processing
  - Fruit & vegetable processing
  - Dairy products
  - Beverages & breweries
- Agricultural
- Aerospace
- Automotive
- Building & architectural
- Chemical & petrochemicals
- Electronics, semiconductors & solar cells
- Energy
- Glass & ceramics
- Metalworking
- Mining
- Packaging
Cambridge International offers the widest range of metal straight line belt products available from a single manufacturer. Whatever your requirements, we have the solution. Our straight line metal belts are available for friction drive and sprocket-driven applications such as washing, baking, curing, transferring and freezing.

Mesh styles include balanced in both flattened wire and round wire varieties ... self-tracking ... and compound balanced, among others. If you do not find the product you are seeking, contact us toll-free at 1.877.898.2923. Chances are, we can provide the ideal solution for your needs.

DURAFLEX® is Cambridge International’s newest metal belt. It’s the most open metal belt available that does not compromise belt strength, can be easily retrofitted, and is easy to splice.

DURAFLEX® 1/2" pitch with Kwik Connect Splice Rod

Splices in as little as 30 seconds - Our unique splice design (patent pending) can be easily spliced from the side of the unit, without weaving, using our Kwik Connect Splice Rod. The splice is as strong as the rest of the belt, so there is no weak point to fail. No special tools are needed and welding is not required! Visit www.cambridge-intl.com to watch a splice video showing how “kwik” it is.

Longer belt life - Reduced belt weight means less energy is consumed by the belt and reduced wear on units without compromising strength. Unlike other light duty conveyor belts, DURAFLEX truly hinges, thereby reducing belt fatigue and providing increased belt life.

Easy to clean – DURAFLEX is made from food-safe stainless steel with unobstructed openings that allow for easy cleaning. Versions certified to meet rigorous 3-A sanitary standards are also available.

Increased carrying capacity - Handles heavier loads than typical light-duty conveyor belts due to the unique drive sprocket openings (patent pending), which add increased strength.

Allows for tight transfers – Small-diameter drive rolls or sprockets allow you to achieve an extremely tight transfer, reducing product damage and the loss of even small delicate products.

DURAFLEX belts are manufactured from durable, food-safe stainless steel. They are available in 1/2” and 3/8” pitches, and in widths from 4 to 72 inches.

Duraflex EDGE has patent pending ‘EDGE’ Technology for ultimate strength and durability. DURAFLEX belts are manufactured from durable, food-safe stainless steel. They are available in 1/2” and 3/8” pitches, and in widths from 4 to 72 inches.

DURAFLEX® EDGE

• Most open metal belt
• Strongest EDGE on the market
• Easy 30 second splicing
• Excellent durability ensures longer belt life

Duraflex EDGE is the cutting edge for all flex style belts. There is NO comparison!
Precision Belts™ and Sprockets

For hard-to-track and difficult-to-drive conveyors, or for those that are prone to belt distortion and short belt life, we offer MTS Sprockets, MTRplus Drive Rollers, and their precisely-matched companion meshes. The system is simple, and ensures conveyors will operate without constant cleaning, tracking adjustment, or replacing. The following systems are all positive drive combinations specifically designed to provide you with trouble-free operation. Don’t be fooled by imposters! Only Cambridge offers the original, most precise belts, sprockets and drive rolls.

Precision Belts™ Specifications

<table>
<thead>
<tr>
<th>Thickness</th>
<th>In</th>
<th>Mm</th>
<th>Lbs/SqFt</th>
<th>Kgs/SqM</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTR 3</td>
<td>0.310</td>
<td>7.87</td>
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<tr>
<td>MTR 4</td>
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<td>MTR 11</td>
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<td>9.72</td>
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<tr>
<td>MTR 12</td>
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<td>4.76</td>
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</tr>
<tr>
<td>MTR 13</td>
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<td>2.72</td>
<td>13.28</td>
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<tr>
<td>MTR 14</td>
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<td>0.93</td>
<td>4.56</td>
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<tr>
<td>MTR 15</td>
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<td>FFR 3/8</td>
<td>0.165</td>
<td>4.19</td>
<td>0.88</td>
<td>4.27</td>
</tr>
</tbody>
</table>

The MTS Sprockets and Mesh Belt System

The MTS system features belts matched precisely with machined tooth sprockets. The unique design of the machined teeth provides self-cleaning action necessary in many applications where product consistencies are thick or tend to bind. Additionally, numerous custom options are available. These include the widest range of diameters available in the industry, idle end “guide” sprockets, custom face widths, cleaning grooves for additional product buildup prevention, and many others.

Many standard and customized mesh combinations are available for short to long process conveyors, as well as for transfer conveyors. Precision Belts™ utilize our balanced Flat Seat™ technology which reduces vibration, improves product support and dramatically reduces belt stretch. Even better, many of the mesh designs are very flexible, and nosebar diameters as small as ⅛” are possible.

Once the conveyor is aligned and started, the MTS Sprockets provide a reliable and consistent positive drive. This positive drive also maintains the belt position during operation. No other steering or tracking method is needed. The parallelogram-shaped teeth precisely match the shape of the belt opening to ensure slip-free and trouble-free operation. U.S. patent #6,041,916

MTRplus™ Drive Roll and Mesh Belt System

There has never been a positive drive roll like the MTRplus™. Using machinery specifically designed to produce these rolls, tooth profiles and tooth locations match the corresponding mesh belt perfectly – each and every time. The MTRplus thrives in those applications where heavy loads and high temperatures are the norm. Like our MTS Sprockets, a wide array of custom options are available to allow the MTRplus roller to provide the best possible performance for your conveyor system.

The individual teeth of the roll are machined to allow for expansion and contraction of the belt during startup, normal operation and cool-down, ensuring proper functionality throughout the entire production day.

MTRplus drive rolls are designed to accommodate thermal expansion and contraction. U.S. patent #5,816,988

Applications

MTS Sprockets and mesh convey cheese puffs through this Lanly oven high effectively.

Circuit boards ride smoothly on an MTR 14.

Bakery products transfer delicately on an MTR 14.

Key industries: Food processing, building products, electronics, automotive.

Key applications: Battering, coating, infeeds, baking ovens, fryers, freezers, cooling, collection chains, curing ovens, drying ovens, aqueous washing, transfers, firing.

Patented self-cleaning hollow rolls are designed to make sanitation a breeze. Perfect for areas plagued by sanitation issues and applications prone to buildup. U.S. patent #7,565,907

Key industries: Food processing, building products, electronics, automotive.

Key applications: Battering, coating, infeeds, baking ovens, fryers, freezers, cooling, collection chains, curing ovens, drying ovens, aqueous washing, transfers, firing.

MTS Sprockets
U.S. patent #5,816,988, #6,041,916

Cleaning groove sprockets are available for applications that are prone to product buildup.

U.S. patent #5,816,988, #6,041,916

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Wire Mesh and Balanced Weave Belts

Of the numerous wire mesh belt styles available, balanced weave are the most frequently used belts for general conveying in food processing, metalworking, electronics, glass, and ceramics manufacturing. Balanced weaves are suggested for first consideration in all applications, unless particular design requirements dictate the use of another belt type. Providing the widest variety of strengths, meshes, wire sizes and surface characteristics, the balanced construction, with its alternating right- and left-hand spirals, is easily tracked and may be used at elevated temperatures.

DiaCrimp® Construction

Available in a variety of rugged metals, these belts can handle on-belt processing of light and heavy loads, wet or dry, caustic or acid, from -100°F to +2,200°F. The extra surface area improves drive pulley contact, thereby reducing belt slippages, surging and vibration.

With its nearly perfect interface between the angled crimp seat and the diagonal angle of the spiral, a firmer, more stable seating is achieved. Better seating maximizes the bearing area and minimizes spiral movement for better tracking. By design, DiaCrimp matches perfectly the angle of the diagonal crimp with the inner curvature of the spiral for low-stress hinging, which assures longer belt life. It also results in approximately 60% less "wear-in" after a new belt is installed. (That so-called "wear-in" is actually a poorly designed belt wearing out as it stretches, seeking seating position.) Thin, flat spirals reduce belt weight, maximize drive pulley contact, and minimize stretching and distortion. DiaCrimp belts start smooth and last far longer.

Baking Belts

For perfectly controlled baking of cookies, biscuits, or cracker products, the ideal choice is a Cambridge compound balanced or DiaCrimp flat-top balanced weave baking belt. These belts are available in a variety of specifications to adapt to your particular product need. Many of the stand ard belts are shown on the next page, including the Cambridge lightweight CB3 baking belt. The compound balanced weave is frequently chosen for baking because of its tightly woven, flat-surface mesh which supports most dough, while permitting gases to escape for proper bottom bake. For many hearth ovens – and wherever a more open mesh can be used – DiaCrimp are the belts of choice. These belts have been developed to eliminate problems of vibration or pulsation which can occur when using ordinary round-wire belts in long ovens at higher operating speeds. Additional benefits of the DiaCrimp flat-top belts are their outstanding tracking tendencies and the minimal belt elongation achieved through this design. Both of these benefits are extremely important in baking oven operation. DiaCrimp belts are equally effective for cooling conveyor lines.

Lehr Belts

Cambridge lehr belts have long been the choice of original equipment manufacturers building new units, and of lehr operators for replacements. DiaCrimp Flat Top lehr belts are the standard for both annealing and decorating lehrs in the glass industry. Because the belt is one of the most important components of a lehr, proper belt selection will result in more efficient productivity at lower cost to you … and a long productive belt life.

A lehr belt must have the correct combination of specifications to meet product requirements for your expected operating conditions (loads, temperatures and time cycles).

We combine the very best in belt design and manufacturing technology to produce lehr belts which provide the ultimate in performance and service life. Our lehr belt engineers are at your service to evaluate and propose the correct Cambridge belt for your application.

Mesh Selection

Cambridge provides a wide selection of mesh specifications to meet product requirements, close mesh weaves for small ware … smooth, flat surfaced weaves for unstable ware … or strong, open mesh weaves for efficient heating and cooling of large pieces. Cambridge lehr belts are available in Cambroly 3 (3% chrome), T430 SS, and T316 SS.

Typical DCF (DiaCrimp® Flat) Belt Specifications

<table>
<thead>
<tr>
<th>Mesh Count</th>
<th>Wire Size</th>
<th>Weight</th>
<th>Max. Working Tension*</th>
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</thead>
<tbody>
<tr>
<td>DCF-18.16-11-12</td>
<td>.120 - .105</td>
<td>3.05 - 2.67</td>
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<tr>
<td>DCF-30-20-11-12</td>
<td>.120 - .105</td>
<td>3.05 - 2.67</td>
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</tr>
<tr>
<td>DCF-30-24-12</td>
<td>.105</td>
<td>2.67</td>
<td>3.44</td>
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<td>DCF-30-24-11-12</td>
<td>.120 - .105</td>
<td>3.05 - 2.67</td>
<td>3.34</td>
</tr>
<tr>
<td>DCF-30-30-12</td>
<td>.120 - .105</td>
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<td>DCF-36-20-12</td>
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<td>DCF-36-26-12-14</td>
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</tr>
<tr>
<td>DCF-48-32-14</td>
<td>.080</td>
<td>2.03</td>
<td>3.25</td>
</tr>
</tbody>
</table>

*For steel and stainless steel belts operating at temperatures to 600°F (316°C) maximum. Maximum working tension is per unit of belt width.
Flat Seat® Metal Belts

**Flat, Thin, Strong at the Hinge**

- Less stretch and camber (distortion)
- Less product marking
- Improved tracking
- Reduced maintenance cost
- Increased product support
- Smoother, flatter surface

Initial belt stretch and camber (distortion) are virtually eliminated because the Flat Seat® spiral has no surplus wire to distort or elongate. The thick, oval spiral of standard round wire belts has a weak shape that is all excess wire. Under tension, it bends and stretches beyond its original pitch length, causing distortion.

Flat Seat's smooth, flat surface offers the best product support with no telltale belt marks. Even before the Flat Seat spiral is formed, its round wire is flattened in a rolling mill. It is then formed into a flat, oval spiral. Computerized machines guarantee that each spiral is formed with a precise flatness that is uniformly parallel. Ordinary belts have spirals formed from round wire, and products conveyed on these belts ride unsteadily on the peaks of these spirals, resulting in product markings.

The design of a spirals hinge area is also critical to a belt's life. Ordinary spirals have a rounded hinge area with a point-to-point contact with the cross rod. This point-to-point contact causes excessive wear of the belt's rods and spirals. The loose fit of the cross rod in the spiral allows continuous rubbing of metal against metal. In contrast, the Flat Seat hinge is designed with a flat, broad contact area. Each spiral hinge is accurately matched and precisely seated to its cross rod to prevent continuous rubbing of metal to metal. This precise match reduces camber and increases belt life.

Plain belting is commonly used in food processing applications such as washing, dewatering, transfers, baking, cooking, infills and exits. In the building products industry, Flat Seat belts are used for curing, drying and forming applications. In the electronics industry, they are used for thick film firing, hermetic sealing and drying printed circuit boards.

Flat Seat metal belts are available in a wide range of alloys. Call to discuss selecting the one that is best for your application.

**Ultra-Smooth, Ultra-Thin, Vibration-Free**

The Oven Balanced Flat Seat® (OBFS) belt is an advancement of the Flat Seat design. It provides ultra-thin, ultra-smooth, vibration-free conveyance.

OBFS belts are preferred in drying, curing and baking operations because:

- They are strong, which leads to a longer life.
- They eliminate product and belt vibration.
- They leave no marks on the product.
- They track better.
- They can be easily spliced.

**RBFS**

Round Balanced Flat Seat® (RBFS) belts are the best of both worlds. The wire is round on the outside and flat on the inside, allowing for improved tracking and reduced belt stretch while still maintaining the product marking achieved with traditional round wire belts. RBFS belts are commonly used in the snack food industry.

**Furnace Balanced Flat Seat® Belts**

Cambridge FBFS belts handle heavy loads with ease.

Another advancement of the Flat Seat® design is the Furnace Balanced Flat Seat® (FBFS) belt. We revolutionized furnace belts by taking our patented Flat Seat design and enhancing it for use in high temperature applications. Designed to replace the old-fashioned Double Balanced belts, our FBFS belt weighs far less without compromising strength and durability. FBFS has no excess wire to stretch and camber (wavy distortion across the belt width), like Double Balanced belts where stretch is an on going problem.

The antiquated Double Balanced design's thick, overlapping spirals lengthen and flatten during each cycle through a furnace due to the excess wire. The result is stretch and camber which prevents the belt from hinging and tracking properly, eventually destroying the belt itself.

Stretch is an ongoing and costly problem. It must be removed and this requires frequent downtime, incurring additional expense beyond just the purchase cost of the belt. Additionally, all of the excess wire in a Double Balanced furnace belt is useless weight that must be heated and cooled with each cycle. This leads to useless energy consumption and increased energy cost, again adding more expense beyond the purchase price of the belt.

With no excess wire to stretch and camber the simple, efficient, single wire spiral design of our FBFS belt requires less energy to operate, stretches less, reduces downtime, and makes splicing easier.

Numerous edge treatments are available for finishing furnace belts. Our skilled craftsmen have extensive experience producing both the knuckled and welded edge and the trimmed and welded edge. Other special edge treatments are available if needed.

The choice of the appropriate alloy is an important decision which will affect belt life and cost. There is often a trade-off between the two, and the decision will be based on the historical experience with the belt being used in your application, where the only variable has been the alloy.

**T 314 stainless steel offers economy, oxidation resistance and high-temperature strength.** The high silicon content is very important for adding adhesion to the high temperature scale. It is used in temperatures up to 1,600°F (870°C) in air and up to 2,100°F (1150°C) in protected environments.

**35-19CB** is the next step in oxidation resistance. It is more carburization-resistant than T 314 in many applications. This stabilized alloy is proven superior in resisting corrosion and carbon embrittlement. 35-19CB is not commonly susceptible to preferential oxidation (green rot). It is used in temperatures up to 1,800°F (980°C) in air and up to 2,150°F (1,200°C) in protected environments.

80-20CR, Inconel 601 and Incoloy 30 are additional choices of high temperature alloys. These alloys solve specific problems caused by temperature, atmosphere, and process.

Through decreased downtime, energy savings, and with fewer belt replacements, each FBFS belt you order helps pay for itself. Years of experience in working with customers in high temperature industries gives us the advantage in helping you choose your best furnace belt. Contact us today to make sure you are using the most economical and appropriate metal and alloy for your application.
### Round Wire Mesh Belting

Various types of Round Wire Mesh belting are available, including but not limited to:

- **Balanced belting** — an economical weave with high tensile strength and minimal tendency to track to either side of the drive pulley. These features make the balanced belt a most suitable belt for many applications.

- **Double-balanced belting** — consisting of pairs of interlaced right- and left-hand spirals, suitable for ambient medium- and high-temperature applications.

- **Compound balanced belting** — this belt has right- and left-hand spirals fitted closely together for a smooth, dense weave. It is excellent for conveying very fine or small products, as well as unstable or top-heavy items. The compound balanced belt is used extensively in baking cookies, crackers, and snack foods.

- **Gratex belting** — similar to balanced belting except that the spirals are more closely wound, with a straight rod connector, producing a stronger, semi-closed mesh ideal for carrying small parts and heavy loads.

- **Duplex belting** — a close mesh with a smooth carrying surface, most efficient for carrying small parts or parts that would be marked by a more open mesh. Woven in pairs of spirals, each pair is turned into the preceding pair and reinforced with a rod through the hinging point. Duplex belting has high strength.

- **Eye-Link modular belts** are available in a variety of standard belt pitches from 5/8" (13mm).

- **Spacing of the eyelink wires can be set in the conveyor path, such as for hold-down products where a vertical change of direction is needed to accomplish the change of direction.**

- **The modular design allows for fast replacement of modules, bars and links, reducing downtime and maintenance.**

### Non-Modular Belt Specifications

#### Sani-Grid® Straight Line Belts and Sprockets

The lightweight, open design of Sani-Grid® belting makes it an economical choice for many applications. The simple, open design provides efficient operation with minimum maintenance and easy cleanup to meet sanitation requirements.

- **Choice of 5, 7, or 9 gauge rods**
- **Available for straight line or 45°, 90° or 180° turns** (see page 28 for belts for turns)
- **Flat, uniform surface for gentle product handling**
- **High strength wire resists stretching and reduces downtime**
- **Positive sprocket drive**
- **Smooth edges for easy travel**
- **Offset rod flights or welded rod flights are available for inclines or declines**
- **U-bar filler rods available for additional product support**
- **Hinge clips to strengthen the belt (suggested for belts 18" (457mm) and wider)**
- **Available in steel, galvanized and stainless steel**

#### Applications

- Ideal for material handling, cooking, icing, cooling, filling, inspecting and packaging of products such as breads, rolls, buns, doughnuts, confectons, cakes, pies, pastries, light loads of meat, seafood, poultry, and processed products.

### Eye-Link Modular and Non-Modular Belts

#### Eye-Link Modular belts

- **Eye-Link modular belts are available in a variety of standard belt pitches from 5/8" (15.9mm) to 3-1/2" (76.2mm). Standard cross rods range from .126" (.325mm) to .512" (13mm).**

#### Non-Modular Belt Specifications

- **Traditional Eye-Link belts of non-modular construction are used to achieve an exceptionally narrow slot opening — less than 0.098" (2.5mm) — and reduced open area.**

- **We also provide a full range of accessories including drive sprockets, tail roll discs, drive rollers, side plates, and flights.**

### Sani-Grid® Sprockets

We supply metal and plastic sprockets for use with Sani-Grid® straight line belts. UHMWPE Sani-Grid sprockets were developed specifically for 5- and 7-gauge Sani-Grid belting. Sprockets for straight line Sani-Grid belts are offered in a two-piece design, with stainless steel hubs and screws, and UHMWPE outer sprocket rings. This allows for reuse of the hub and replacement of only the outer sprocket ring, as necessary.

#### Sani-Grid® with U-Bar filler rods

<table>
<thead>
<tr>
<th>Belt Width*</th>
<th>5 Ga.</th>
<th>7 Ga.</th>
<th>9 Ga.</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Mm</td>
<td>Lbs</td>
<td>Kg</td>
<td>Lbs</td>
</tr>
<tr>
<td>10</td>
<td>381</td>
<td>2.78</td>
<td>66.7</td>
</tr>
<tr>
<td>12</td>
<td>577</td>
<td>4.25</td>
<td>83.6</td>
</tr>
<tr>
<td>15</td>
<td>864</td>
<td>6.19</td>
<td>113.6</td>
</tr>
<tr>
<td>18</td>
<td>1050</td>
<td>7.49</td>
<td>133.5</td>
</tr>
<tr>
<td>20</td>
<td>1200</td>
<td>8.74</td>
<td>149.2</td>
</tr>
</tbody>
</table>

*Many other widths for special applications are available upon request.

#### Sani-Grid® Sprockets for Straight Line Belts

<table>
<thead>
<tr>
<th>Belt Width</th>
<th>Sprocket</th>
<th>No. of Teeth</th>
<th>Belt Pitch</th>
<th>Pitch Dia.</th>
<th>Outside Dia.</th>
<th>Approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Gauge</td>
<td>5.26 Mm</td>
<td>5-12*</td>
<td>12</td>
<td>3/4</td>
<td>19.1</td>
<td>2.898</td>
</tr>
<tr>
<td>7 Gauge</td>
<td>4.50 Mm</td>
<td>7-11*</td>
<td>11</td>
<td>5/8</td>
<td>15.9</td>
<td>2.218</td>
</tr>
<tr>
<td>9 Gauge</td>
<td>3.76 Mm</td>
<td>9-11</td>
<td>11</td>
<td>1/2</td>
<td>12.7</td>
<td>1.775</td>
</tr>
</tbody>
</table>

All sprockets available in 304 stainless steel. *Also available in UHMWPE. Sprocket numbers 6-10, 7-12, and 7-16 are hexagonal sprockets, with UHMWPE outer sprocket rings and stainless steel hubs.*

---

**Call us for service 24/7 | Toll-Free: 1.877.898.2923 | Outside the U.S. and Canada: 1.410.901.2660 | catalog@cambridge-intl.com**
Our Flat Wire belts track better because of the patented PacTite® design – they are made with no gaps between the pickets. There is no product tippage, vibration, sprocket jumping or adjustment shimmy. With the PacTite® design, it’s impossible for parallelogramming to occur.

Unlike other Flat Wire belts, our standard-duty belts are made with 11-gauge rods, while our heavy-duty belts are made with 8-gauge rods. They are available also in modified ½” x ½”, true ½” x 1/4” and can duty styles. Mat picket style belts are available for certain applications that require it.

**Clinched Edges**
Clinched edges form a clean, smooth selvage which prevents the belt from necking down and hanging up on the side of the conveyor. Since the belt edge has not been metallurgically altered through the welding process, it is stronger and lasts longer.

**Materials**
PacTite Flatwire belting is offered in a variety of materials including wear-resistant stainless steel (WRSS), which hardens with use. WRSS delivers superior strength and longevity. Perfect for abrasive applications like rock traps, cement bagging lines, and in insulation plants or when product release from the belt is critical. Also available in high-carbon steel, galvanized, and T316 SS.

**Flat Strip Rod Size Approx. Weight Max. working load**
<table>
<thead>
<tr>
<th>Mesh</th>
<th>Flat Strip</th>
<th>Ga.</th>
<th>Mm</th>
<th>Lbs/Ft</th>
<th>Lbs/SqFt</th>
<th>Kgs/Ft</th>
<th>Kgs/SqM</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD 1” x 1”</td>
<td>3/8 x .050</td>
<td>9.65 x 1.27</td>
<td>11</td>
<td>9.23</td>
<td>470</td>
<td>699</td>
<td></td>
</tr>
<tr>
<td>SD 1/2” x 1”</td>
<td>3/8 x .050</td>
<td>9.65 x 1.27</td>
<td>11</td>
<td>10.64</td>
<td>670</td>
<td>997</td>
<td></td>
</tr>
<tr>
<td>HD 1” x 1”</td>
<td>1/2 x .062</td>
<td>12.7 x 1.59</td>
<td>6</td>
<td>1782</td>
<td>1,350</td>
<td>2,028</td>
<td></td>
</tr>
<tr>
<td>HD 1/2” x 1”</td>
<td>1/2 x .062</td>
<td>12.7 x 1.59</td>
<td>6</td>
<td>1,782</td>
<td>1,350</td>
<td>2,028</td>
<td></td>
</tr>
<tr>
<td>MD 1/2” x 1”</td>
<td>3/8 x .050</td>
<td>9.65 x 1.27</td>
<td>11</td>
<td>11.72</td>
<td>670</td>
<td>997</td>
<td></td>
</tr>
<tr>
<td>TR 1/2” x 1”</td>
<td>3/8 x .050</td>
<td>9.65 x 1.27</td>
<td>11</td>
<td>15.87</td>
<td>750</td>
<td>1,116</td>
<td></td>
</tr>
<tr>
<td>CD 1” x 1”</td>
<td>3/8 x .050</td>
<td>9.65 x 1.27</td>
<td>12</td>
<td>14.8</td>
<td>722</td>
<td>360</td>
<td></td>
</tr>
<tr>
<td>CD 1/2” x 1”</td>
<td>3/8 x .050</td>
<td>9.65 x 1.27</td>
<td>12</td>
<td>15.3</td>
<td>747</td>
<td>360</td>
<td></td>
</tr>
</tbody>
</table>

**Flight clips and other accessories are available.**

**Sprockets**
- Available in 4”, 6”, 8”, 10”, 12” and 14” diameter
- Our extensive line of flatwire sprockets are guaranteed to be keyed in line. Our knowledgeable customer service representatives will assist you in choosing the best product for your application.

**Machined Steel** – Lasts up to five times longer than cast; concentric; precision machined; cut from solid bar stock; flame-hardened and manually deburred; and because they’re keyed on the centerline of the tooth, they’re always matched. Taper lock designs offer easy installation and alignment.

**Self Cleaning Machined Steel** – Prevents buildup of product; cleans itself with each revolution; long lasting, and available in stainless and other alloys. We guarantee our precision machined steel and self cleaning sprockets will outperform and outlast your current cast sprockets by 2 times their life, or we will refund the difference in price.

**Cast Iron** – Our economy line of sprockets.

**Visual Specifications**

- **Normal**
- **Material**
- **Application**

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DuraHinge® Belts and Sprockets

Buy Less … Save More!

As proven by rigorous testing and product development, DuraHinge® belting is a mor...
Chain-Driven Metal Mesh Belts

Chain-driven metal mesh belts should be considered whenever timing, transfer, and/or positive belt drive are important... in cases such as travel-up inclines, under heavy loads, for long distances, through quenching liquids, cooking oils or other slippery conditions.

Chain-driven belts are also the only belts that are self supporting. They can provide efficient operation in applications where friction-driven belts would not be desirable.

Any mesh can be used in a chain-driven construction, but the selection is made on the basis of what is needed to support the product.

Balanced weave should be given first consideration, as it is economical and appropriate for most conditions. Grateex weave provides a closer mesh, while a Duplex weave is a close mesh that also provides strength and a straight through opening. A conventional weave provides unobstructed openings.

Typical Applications

In food processing, chain-driven belts are used in washing, drying, cooking, freezing, dewatering and blanching operations. In other applications, metals, electronic parts, chemicals, ceramics, leather, lumber, textiles, rubber and many other products are moved through a host of processes where positive drive is needed.

Chain Selection

Chain is normally selected according to the strength and speed required. The most frequently used types of chain for metal mesh conveyors are roller chain, employed for most room-to-medium temperature applications, and pintle chain which is recommended for heavier loads and higher temperatures.

Due to the important and specialized nature of the applications requiring these products, each inquiry is reviewed thoroughly. Our goal is to supply the most suitable belt for your specific application. We strive to provide solutions for each situation, assuring value for our customers. Our engineers and technical support group are involved in every specialty belt inquiry and order.

Chain-driven belts are also the only belts appropriate for most conditions. Gratex weave is a close mesh that also provides strength and a straight through opening. A conventional weave provides unobstructed openings.

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DuraLite® Belts

Are you tired of being forced to choose... one that simply isn’t cost-efficient? As today’s newest innovation in belting, our DuraLite® belts offer you a far better choice.

DuraLite® belts really pull their weight for you. They deliver greater load-carrying capacity and smoother operating performance, resulting in dramatically fewer breaks or mishaps... thereby reducing plant downtime and service costs.

More carrying capacity – The highest strength-to-belt weight ratio on today’s market... twice as strong as rod-only belts... and 35% stronger than standard 1” x 1” style belts.

Improved efficiency – Our unique 3” x 1” interior mesh chills and freezes foods faster by improving air circulation and drainage.

Stronger yet lighter-weight – A belt that’s up to 40% lighter means less wear on the belt and cage components, thereby saving energy while greatly reducing potential debris.

One style works for all spiral cage applications – With turn ratios ranging from 1.0 to 2.8, DuraLite® gives you the widest possible array for any one belt construction.

Easy to clean – Made from stainless steel, the 3” x 1” interior mesh provides twice the open area of modular plastic belts.

Food safe – The sanitary materials used in the construction of DuraLite® belts make them the food industry’s best choice for food safety and protection.

Applications – DuraLite® belts are ideal for processes ranging from cooking and proofing to cooling and freezing... as well as in diverse product applications like breads, pies & tarts, pizza, ice cream and other ready-to-eat foods.

Cambridge International offers the widest range of metal belt products available from a single manufacturer. Whatever your requirements – from a simple rods-only belt to achieving the precise balance between open areas and product support – we have the solution.

Long recognized for our leadership in the design and manufacture of spiral cage and turn belting for a wide variety of high-performance belt systems, we work closely with you to develop and deliver the best, most effective product solution for each specific application. Our turn belts are the industry’s proven performers – running smoothly and dependably year after year in the spiral system installations of production plants throughout the world.

If you do not find the turn belt product you are seeking, contact us toll-free at 1.877.898.2923. Chances are, we can provide the ideal solution for your needs.
**DuraLite® Specifications**

- **Belt Pitch:** 1.33" (33.8 mm)
- **Mesh Size:** 1" x 1" (nominal) on outer edges and 3" x 1" (nominal) in the belts interior – two times stronger than rod-only belt designs and 35% stronger than conventional 1" x 1" style cage belts.
- **Extra Heavy-Duty Flat Strips:** 1/16" x 0.0625" (12.7 mm x 1.59 mm)
- **Extra Heavy-Duty Rods:** 6 gauge, 0.192" (5.9 mm) diameter
- **Outer Edge Construction:** Double extra heavy-duty reinforcing bars (standard)
- **Belt Width Range:** 24" to 56" (610 mm to 1,422 mm) overall (standard) ... other widths also available
- **Materials:** Wear-resistant stainless steel (WRSS) throughout (standard) ... also available in T-304, T-316 or high carbon steel
- **Welding:** Button-head welds on rods
- **Sprockets:** 14 tooth, 6.34" OD, extra-heavy-duty sprocket. UHMW material (standard) ... stainless and carbon steel also available on request

**DuraLite® Rebar Weight Table**

<table>
<thead>
<tr>
<th>Turn Ratio</th>
<th>Radius Type</th>
<th>Add Lbs/Lin Ft</th>
<th>Add Kg/Lin M</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00 - 1.34</td>
<td>Super-tight</td>
<td>0.30</td>
<td>0.45</td>
</tr>
<tr>
<td>1.35 - 1.59</td>
<td>Tight</td>
<td>0.45</td>
<td>0.67</td>
</tr>
<tr>
<td>1.60 - 1.99</td>
<td>Reduced</td>
<td>0.50</td>
<td>0.74</td>
</tr>
<tr>
<td>2.00 - 2.39</td>
<td>Standard</td>
<td>0.60</td>
<td>0.89</td>
</tr>
<tr>
<td>2.40 - 2.80</td>
<td>Oversize</td>
<td>0.67</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**Tension Limits for DuraLite® Belts**

- **Belt Material:** Straight Running Application
- **Turn or Spiral Application**
  - **WRSS:** 850 lbs. per ft. of width
  - **T-304 or T-316:** 650 lbs. per ft. of width
  - **Carbon Steel:** 850 lbs. per ft. of width

**DuraLite® Sprockets**

A sprocket drive provides a smooth, positive means of driving the belt, serves to keep the belt properly aligned and provides accurate synchronization of belt movement with operations.

- **Nom. Dia.**
- **No. Teeth/Sprocket Designation**
- **Overall Dia.**
- **Pitch Dia.**
- **Hub Dia. (Bottom Dia.)**
- **Hub Length**
- **Bore Size**
- **Face Width**
- **Approx. Wt.**

<table>
<thead>
<tr>
<th>No. Teeth/Sprocket Designation</th>
<th>Overall Dia.</th>
<th>Pitch Dia.</th>
<th>Hub Dia. (Bottom Dia.)</th>
<th>Hub Length</th>
<th>Bore Size</th>
<th>Face Width</th>
<th>Approx. Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>18E</td>
<td>6.117</td>
<td>155.4</td>
<td>5.617</td>
<td>142.7</td>
<td>2.0</td>
<td>50.8</td>
<td>1.0 - 4.0</td>
</tr>
<tr>
<td>23E</td>
<td>7.875</td>
<td>200.0</td>
<td>7.368</td>
<td>187.1</td>
<td>2.0</td>
<td>50.8</td>
<td>1.0 - 4.0</td>
</tr>
</tbody>
</table>

**Leading Edge® Performance Link Belts**

- **The Latest In Leading Edge® Innovation**
- **Leading Edge® DuraLite®**
  - For applications that need more carrying capacity while still having the benefits of a lighter belt.
  - Cambridge offers new Leading Edge® DuraLite. Our Leading Edge series offers the strongest belts on the market. The strength-to-belt weight ratio of this product is three times as strong as rod-only belts, and twice as strong as standard 1" x 1" style belts.

**Leading Edge® Performance Grid**

- **Leading Edge® Performance Link**
  - **Specifications**
    - **Belt Pitch:** 1" (25.4 mm) nominal
    - **Mesh:** 1" x 1" or 1/2" x 1"
    - **Materials:** Wear-resistant stainless steel (WRSS)
    - **Belt Tensioning Radius:** Down to 1.5 x belt width

- **Leading Edge® DuraLite®**
  - **Weight-bearing capacity of 15 lbs. per lineal foot**
  - **Tangential tension rating of at least 600 lbs.**
  - **Wear-bearing capacity of 15 lbs. per lineal foot**
  - **Ability to collapse to a 1.5 turn radius ratio**
  - **Double rows of extra heavy-duty reinforcing bars plus three rows of heavy duty links on the outside edge – engineered to be stronger where you need it.**

- **Leading Edge® Performance Grid**
  - **Warranty:** 10 year/50,000 duty cycle limited service life warranty. U.S. Patent #5,934,448
**Leading Edge® Performance Grid Belts**

**Wider – Faster – Stronger**

Leading Edge® Performance Grid belts were designed by Cambridge to process and move baked goods, meats, poultry, fish and prepared foods of all kinds. This belt’s versatility allows it to be used in a wide variety of light- and heavy-duty applications including heating, cooling, proofing and freezing at sustained speeds up to 240 feet per minute.

Available in a standard rod-only design or with spring temper stainless steel mesh overlay, Leading Edge Performance Grid belts allow exceptional flexibility around turns, yet maintain high levels of stability and performance. The pilot wear mark assures proper alignment of the rods and links, which causes the belt to run “square” and resist turn belts.

Specifications

- **Belt Pitch:** 1” (25.4 mm) nominal
- **Materials:** Stainless steel throughout
- **Belt Turning Radius:** 2.2 x belt width
- **Special Construction:** Integral side plate/link for product retention

**Superior design and construction deliver increased service life:**

- Available in a rod-only design or with a variety of spring temper stainless steel mesh overlays.
- Overall width up to 52 inches.
- Travels at speeds of 240 feet per minute and higher.
- Tangential tension rating of at least 450 lbs.
- Double compression welds increase belt strength and minimizes weld fatigue and breakage.
- Flattened, oblong (.192” x .226”) high-tensile crimped rods ensure that belts run flat and true.
- Designed to eliminate belt tenting, rod bending and rod racking.
- Design prevents system jam-ups, failure.
- Designed to eliminate belt tenting, rod bending and rod racking.
- Tensile strength of 450 lbs.
- Double compression welds increase belt strength and minimizes weld fatigue and breakage.
- Flattened, oblong (.192” x .226”) high-tensile crimped rods ensure that belts run flat and true.
- Designed to eliminate belt tenting, rod bending and rod racking.
- Design prevents system jam-ups, failure.
- Available in a rod-only design or with a variety of spring temper stainless steel mesh overlays.
- Overall width up to 52 inches.
- Travels at speeds of 240 feet per minute and higher.
- Tangential tension rating of at least 450 lbs.
- Double compression welds increase belt strength and minimizes weld fatigue and breakage.
- Flattened, oblong (.192” x .226”) high-tensile crimped rods ensure that belts run flat and true.
- Designed to eliminate belt tenting, rod bending and rod racking.
- Design prevents system jam-ups, failure.

**Leading Edge® Performance Grid with mesh overlay.**

**Leading Edge® Performance Grid (rods-only).**

**Cam-Grid® Xtra Spiral System Belting**

Available in a rod-only construction or with a variety of mesh overlays, Cam-Grid® Xtra spiral system belting is tougher, stronger, faster, and able to carry heavier loads than any belt in the traditional Cam-Grid product line. Yet, gentle handling of fragile products is not sacrificed. With a longer belt service life, greater load-carrying capacity and fewer required belt repairs than traditional Cam-Grid or competitor’s grid style belts, Cam-Grid Xtra is the better value.

- **Tire-free operation in tough applications.**
- Designed for superior strength, Cam-Grid Xtra is made with .225” diameter high tensile rods that are 35% more deflection-resistant than the rods in competitors’ belts . . . as well as super heavy duty links that are more than twice as heavy as our standard heavy duty links.
- Cam-Grid Xtra incorporates links that allow the belt to travel with a 1.6:1 turn ratio, making it ideal for smaller-radius spiral cage systems.
- Wears evenly for extra-long service life. All Cam-Grid Xtra belts can be flipped – the only 1.6:1 turn radius belt with this feature – meaning that these belts wear more evenly and provide maximum service life.
- Outlasts competitor’s belts and saves you money. Made with super heavy duty links and .225” diameter rods, Cam-Grid Xtra belts are designed to wear better, handle more tension, require fewer repairs, and last longer than competitors’ belts.
- Another aspect of our superior construction is the use of spring temper stainless steel mesh overlays. Advantages include:
  - Exceptionally smooth, flat mesh surfaces offer uniform product support with minimal product marking.
  - Resistance to deformation when products that are frozen to the belt are forcibly removed.
  - Extreme resistance to fatigue and damage results in a long, trouble-free belt life. 

![Cam-Grid® Xtra Mesh Overlay](image)

**Specifications**

- **Belt Pitch:** 1.5” (38.1mm)
- **Belt Turn Radius Ratio:** Standard radius 2.0 – 2.4:1 . . Reduced radius 1.6 – 2.0:1
- **Welds:** Standard duty – plasma arc . . Heavy duty – double compression
- **Belt Width Range:** Standard duty welds 18” to 42” . . Heavy duty welds 18” to 54”

**Tension Limits for Cam-Grid® Xtra Belts**

*U.S. Patents: #6,360,882, #6,354,432 European Patents: #1,192,096*

**Type of Belt** | **Edge Construction** | **Total Allowable Tension** | **Straight Running Application** | **Turn or Spiral Application** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lbs</strong></td>
<td><strong>Kg</strong></td>
<td><strong>Lbs</strong></td>
<td><strong>Kg</strong></td>
<td></td>
</tr>
<tr>
<td><strong>1.5”</strong></td>
<td><strong>Super Heavy Duty Link Double Compression Weld</strong></td>
<td>600</td>
<td>272</td>
<td>300</td>
</tr>
<tr>
<td><strong>1.5”</strong></td>
<td><strong>Super Heavy Duty Link Single Compression Weld</strong></td>
<td>400</td>
<td>182</td>
<td>200</td>
</tr>
</tbody>
</table>

**Leading Edge® Performance Grid**

**Sprockets for 1” Pitch Belts**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>In</strong></td>
<td><strong>Mm</strong></td>
<td><strong>In</strong></td>
<td><strong>Mm</strong></td>
<td><strong>In</strong></td>
<td><strong>Mm</strong></td>
<td><strong>Lbs</strong></td>
</tr>
<tr>
<td>18E</td>
<td>6.117</td>
<td>155.4</td>
<td>5.617</td>
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<td>50.8</td>
</tr>
</tbody>
</table>

Available in UHMW and stainless steel.

---

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<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>In</strong></td>
<td><strong>Mm</strong></td>
<td><strong>In</strong></td>
<td><strong>Mm</strong></td>
<td><strong>In</strong></td>
<td><strong>Mm</strong></td>
<td><strong>Lbs</strong></td>
</tr>
<tr>
<td>13-1.5E</td>
<td>6.44</td>
<td>163.65</td>
<td>5.63</td>
<td>143.03</td>
<td>7.68</td>
<td>179.53</td>
</tr>
<tr>
<td>18-1.5E</td>
<td>8.88</td>
<td>225.55</td>
<td>8.13</td>
<td>206.50</td>
<td>9.51</td>
<td>241.43</td>
</tr>
</tbody>
</table>

Sprockets are available in UHMW and stainless steel.

---

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Cambri-Link® Belts

Tension Limits for Standard and Reduced Radius Cambri-Link® Belts

<table>
<thead>
<tr>
<th>Type of Belt</th>
<th>Double Reinforcement Edge Construction</th>
<th>Straight Running Application</th>
<th>Turn or Spiral Application</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Double Bars One Side</td>
<td>Double Bars Both Sides</td>
</tr>
<tr>
<td>Lbs/Ft</td>
<td>Kg/M</td>
<td>Lbs</td>
<td>Kg</td>
</tr>
<tr>
<td>1/2” x 1” MESH</td>
<td>Extra Heavy Duty</td>
<td>1,700</td>
<td>2,530</td>
</tr>
<tr>
<td>1” x 1” MESH</td>
<td>Extra Heavy Duty</td>
<td>1,350</td>
<td>2,009</td>
</tr>
</tbody>
</table>

Efficient and economical, these belts provide many outstanding benefits:

- Large open-mesh area for air circulation and drainage.
- High-strength-to-weight ratio for increased capacity.
- Collapsible for quick and easy cleaning.
- Minimum maintenance for low operating costs.
- Long service life for maximum return on investment.
- Flat surface for excellent product stability.
- Smooth, vibration-free operation in straight or turn configurations.

Cambri-Link® 1" x 1" with double bars.

Extended bar side plate for product retention.

Cambri-Link® 1/2" x 1"

Cambri-Link® 1” x 1” Standard Radius

Cambri-Link turn belts offer processors the advantages of a rugged flat wire style of belt for spiral system applications. Designed for multi-tier spiral conveyor systems used in the food industry, they are also ideal for many other applications requiring tight- and left-turn capabilities, such as in conveying around obstacles or in limited space, and eliminating transfers.

Cambri-Link spiral system belts are available in standard (2.2) radius … reduced (1.0) radius available in standard (2.2) radius … reduced (1.0) radius and tight (1.0) radius transfers.

obstacles or in limited space, and eliminating turn capabilities, such as in conveying around other applications requiring right- and left-turn capabilities for spiral system applications. Designed for advantages of a rugged flat wire style of belt

Tight Radius Belts

With a 1.0 turning radius, Cambri-Link tight radius belts offer maximum productivity in minimum space. The design consists of two turn belts sharing a common rod. The inner belt section is a 1/2" x 1" or 1" x 1" mesh. Cambri-Link belt, while the outer section has an elongated pitch to allow for the edge extension necessary to accomplish the tight turning radius. The belt tension is carried by rows of extra heavy-duty reinforcement where the belts meet in the center. Single or double reinforcing bars are also available.

Tension Limits for Tight Radius Cambri-Link® Belts

<table>
<thead>
<tr>
<th>Belt Pitch: 1” (25.4mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mesh Sizes: 1/2” x 1” / 1” x 1”</td>
</tr>
<tr>
<td>Belt Width Range: 12” to 48” (305mm to 1,219mm) overall, standard … other widths also available</td>
</tr>
<tr>
<td>Materials: Wear-resistant stainless steel (WRRS) is standard. Other materials available including T-304, T-316 and HCS.</td>
</tr>
<tr>
<td>Special Constructions: Side plates and lane dividers available</td>
</tr>
</tbody>
</table>

The tension-bearing reinforcing bars can be placed further from the center of the belt, if desired, to adjust the turn radius to a greater dimension — ideal for balancing floor space requirements with carrying surface and dwell time requirements.

*Note: All other specifications are the same as noted for Cambri-Link® standard radius belts.

Cambri-Link® Tight Radius

Cambri-Link® Sprockets

A sprocket drive provides a smooth, positive means of driving the belt, serves to keep the belt properly aligned and provides accurate synchronization of belt movement with operations.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>In Lm</td>
<td>In Mm</td>
<td>In Mm</td>
<td>In Mm</td>
<td>In Mm</td>
<td>In Mm</td>
<td>In Mm</td>
<td>Lbs</td>
<td>Kg</td>
</tr>
<tr>
<td></td>
<td>Cambri-Link® E-Code Stainless Steel and Stainless Steel for 1” x 1” or 1/2” x 1” Belts</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4 101.6</td>
<td>13E</td>
<td>4.719</td>
<td>121.4</td>
<td>121.4</td>
<td>4.406</td>
<td>111.9</td>
<td>540</td>
<td>3/4 x 1.5/8</td>
</tr>
<tr>
<td>6 152.4</td>
<td>18E</td>
<td>6.625</td>
<td>168.3</td>
<td>165.6</td>
<td>6.125</td>
<td>155.6</td>
<td>540</td>
<td>3/4 x 2</td>
</tr>
<tr>
<td>8 203.2</td>
<td>23E</td>
<td>8.376</td>
<td>212.7</td>
<td>200.0</td>
<td>8.875</td>
<td>199.8</td>
<td>540</td>
<td>3/4 x 2.5</td>
</tr>
<tr>
<td></td>
<td>Cambri-Link® E-Code UHMW Plastic Sprockets for 1” x 1” or 1/2” x 1” Belts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 101.6</td>
<td>13E</td>
<td>4.719</td>
<td>121.4</td>
<td>121.4</td>
<td>4.406</td>
<td>111.9</td>
<td>540</td>
<td>3/4 x 1.5/8</td>
</tr>
<tr>
<td>6 152.4</td>
<td>18E</td>
<td>6.617</td>
<td>168.1</td>
<td>155.4</td>
<td>6.177</td>
<td>154.4</td>
<td>540</td>
<td>3/4 x 2</td>
</tr>
<tr>
<td>8 203.2</td>
<td>23E</td>
<td>8.368</td>
<td>212.5</td>
<td>199.8</td>
<td>8.768</td>
<td>198.8</td>
<td>540</td>
<td>3/4 x 2.5</td>
</tr>
</tbody>
</table>

Turn Belts

Call us for service 24 / 7 / 365

Toll-Free: 1.877.898.2923 • Outside the U.S. and Canada: 1.410.901.2660 • catalog@cambridge-intl.com
Cam-Grid® belts are our most popular designs. It can be manufactured with a double reduced (1.7) radius, and tight (1.1) radius. Grid belts are available in standard (2.2) radius, protecting product quality and reducing waste.

Delicate products. They save money by product flow that is gentle with fragile or Cam-Grid® Sprockets

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in</td>
<td>Mm</td>
<td>in</td>
<td>Mm</td>
<td>in</td>
<td>lbs</td>
</tr>
<tr>
<td><strong>Cam-Grid® Sprockets for 3/4&quot; Pitch Belts</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12T**</td>
<td>2.898</td>
<td>73.6</td>
<td>2.43</td>
<td>61.7</td>
<td>1.0</td>
<td>25.4</td>
</tr>
<tr>
<td>25T**</td>
<td>5.938</td>
<td>150.8</td>
<td>5.50</td>
<td>139.7</td>
<td>1.5</td>
<td>38.1</td>
</tr>
<tr>
<td><strong>Cam-Grid® Sprockets for 1&quot; Pitch Belts</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9T**</td>
<td>3.172</td>
<td>80.6</td>
<td>2.625</td>
<td>66.7</td>
<td>1.0</td>
<td>25.4</td>
</tr>
<tr>
<td>13E**</td>
<td>4.410</td>
<td>112.0</td>
<td>3.805</td>
<td>99.78</td>
<td>2.0</td>
<td>50.9</td>
</tr>
<tr>
<td>18E**</td>
<td>6.117</td>
<td>155.4</td>
<td>5.617</td>
<td>142.7</td>
<td>2.0</td>
<td>50.8</td>
</tr>
<tr>
<td>23E**</td>
<td>7.875</td>
<td>200.0</td>
<td>7.388</td>
<td>187.1</td>
<td>2.0</td>
<td>50.8</td>
</tr>
</tbody>
</table>

*Sprockets are available in stainless steel or carbon steel. **Available in UHMW and stainless steel.

Rods-Only Construction

A rods-only construction provides maximum air circulation, making these Cam-Grid® belts ideal for cooking, proofing and freezing of baked goods. They are also suitable for other applications such as freezing of larger cuts of meat and poultry, and products in trays or packages where minimal product support is required.

Mesh Overlay

When product support or smaller openings are needed, a balanced weave mesh overlay is added. Flexibility is maintained, while adapting the Cam-Grid® belt for a particular application such as freezing soft dough products, beef patties, fish sticks, and other prepared products.

Standard Radius Specifications

Belt Pitch: ¾" or 1" (19.1 mm or 25.4 mm)

Links: ¾" pitch standard duty or heavy duty, 1" pitch standard duty or heavy duty.

Belt Width Range: 12" to 48" (305 mm to 1,219 mm overall) contact us for other available widths.

Belt Turning Radius: 2.2 x belt width (nominal) special links also available for oversized radii.

Materials: T-304 stainless steel throughout – with spring-tempered mesh, rods and mesh also available in T-316 stainless steel or high carbon steel, mesh overlays also available in annealed stainless steel.

Mesh Overlay: Standard mesh overlays available in 14 – 18 gauge mesh wire sizes – specifications are available to fit a variety of product and applications needs, such as open mesh for airflow or tighter meshes for product support.

Special Constructions: Standard side plates available for ¾" or 1" pitch.

Standard Radius Belts

The turning radius of a Cam-Grid® belt is determined by the ability of the links to nest on the inside edge of the turn and by the width of the belt. Since the slot length determines the amount of nesting and is a fixed dimension, the minimum turning radius becomes a factor of belt width. For a standard radius Cam-Grid® belt, the nominal belt radius is 2.2 x the belt width.

Tight Radius Belts

Cam-Grid® tight radius belts are configured with an internal row of ¾" pitch heavy-duty non-collapsing links which carry the drive tension through the turn. This row of links, located based on turn radius, provides two belt lanes of equal width while allowing a tight turning radius of 1.1 x the belt width.

The tension-bearing inner links can be moved to adjust the belt turning radius; however, Cam-Grid® tight radius belts should operate only with a radius appropriate to the belt width and central diver link location. The inner edge of the Cam-Grid® tight radius belt is the standard ¾" pitch link; while a 1" pitch link is used on the outer edge to allow for additional extension.

Rods-Only Construction Provides a smooth, positive means of driving the belt, serves to keep the belt side plates available for ¾" pitch standard duty or 1" pitch heavy-duty non-collapsing links which carry the drive tension through the turn. This row of links, located based on turn radius, provides two belt lanes of equal width while allowing a tight turning radius of 1.1 x the belt width.

The tension-bearing inner links can be moved to adjust the belt turning radius; however, Cam-Grid® tight radius belts should operate only with a radius appropriate to the belt width and central diver link location. The inner edge of the Cam-Grid® tight radius belt is the standard ¾" pitch link; while a 1" pitch link is used on the outer edge to allow for additional extension.

Tight Radius Specifications*

Belt Pitch: ¾" (19.1 mm)

Belt Width Range: 12" to 48" (305 mm to 1,219 mm overall) wider widths available depending on application.

Belt Turning Radius: 1.1 to 1.7 x belt width (nominal inside turning radius when tension-bearing links are located in the center of the belt). Contact us for applications involving other turn radii.

Drive Sprockets: Located on the belt's inner and center links only.

Special Constructions: Integral side plate/links available for product retention.

Reduced Radius Specifications*

Belt Pitch: 1" (25.4 mm) nominal

Belt Turning Radius: 1.7 to 2.2 x belt width (nominal inside turning radius) Special Constructions: Integral side plate/links available for product retention.

*Tension Limits for Cam-Grid® Belts

<table>
<thead>
<tr>
<th>Type of Belt</th>
<th>Edge Construction</th>
<th>Straight Running Application</th>
<th>Turn or Spiral Application</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>lbs</td>
<td>Kg</td>
</tr>
<tr>
<td><strong>Standard Radius</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4&quot; Pitch</td>
<td>Standard Duty Link</td>
<td>200</td>
<td>90.7</td>
</tr>
<tr>
<td>3/4&quot; Heavy Duty Link</td>
<td>200</td>
<td>90.7</td>
<td>150</td>
</tr>
<tr>
<td>1&quot; Pitch</td>
<td>Standard Duty Link</td>
<td>300</td>
<td>136.1</td>
</tr>
</tbody>
</table>

**Reduced Radius**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>lbs</th>
<th>Kg</th>
<th>lbs</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; Pitch</td>
<td>Standard Duty Link</td>
<td>200</td>
<td>90.7</td>
<td>100</td>
<td>45.4</td>
</tr>
<tr>
<td>Heavy Duty Link</td>
<td>200</td>
<td>90.7</td>
<td>150</td>
<td>68.1</td>
<td></td>
</tr>
</tbody>
</table>

**Tight Radius**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>lbs</th>
<th>Kg</th>
<th>lbs</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; Pitch</td>
<td>Heavy Duty Link</td>
<td>200</td>
<td>90.7</td>
<td>150</td>
<td>68.1</td>
</tr>
</tbody>
</table>

Note: Except as noted, all other specifications are the same as for Cam-Grid® standard radius belts.

Cam-Grid® with filler strips.

Cam-Grid® plastic sprocket.

Cam-Grid® with filler rods.

Cam-Grid® with mesh overlay.

Cam-Grid® heavy-duty.

Cam-Grid® rods-only.

Cam-Grid® belts are our most popular application – adaptable spiral systems belts. They've proven themselves in spiral system applications throughout the world, running smoothly and dependably year after year. With their positive sprocket drive, Cam-Grid® belts provide a smooth, continuous product flow that is gentle with fragile or delicate products. They save money by protecting product quality and reducing waste. Fully collapsible for easy cleaning, Cam-Grid® belts are available in standard (2.2) radius, reduced (1.7) radius, and tight (1.1) radius designs. It can be manufactured with a double pitch overlay, or with plastic filler rods or strips for supporting extremely small products.

Call us for service 24/7/365

Catalog toll-free: 1.877.898.2923

Outside the U.S. and Canada: 1.410.901.2660
catalog@cambridge-intl.com
**HEAVY DUTY TIGHT RADIUS CAM-GRID**

- Tight 1.1 turning radius
- 250 lb. (113.4 kg) rating for turn or spiral applications
- 500 lb. (226.8 kg) rating for straight-line applications

The tightest turn radius in a grid style belt. Heavy Duty Tight Radius Cam-Grid has a maximum throughput with a minimum footprint.

### Cam-Grid Specifications: Heavy Duty Tight Radius Belts

**Specifications for Cam-Grid Tight Radius belts are the same as Cam-Grid Standard Radius belts, except as noted**

<table>
<thead>
<tr>
<th>Belt Pitch</th>
<th>1&quot; (25.4 mm) nominal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Links</td>
<td>Inner: standard collapsible 1&quot; pitch - 1/2&quot; x .105&quot; (12.7 x 2.7 mm)</td>
</tr>
<tr>
<td></td>
<td>Center: standard collapsible 1&quot; pitch - 1/2&quot; x .105&quot; (12.7 x 2.7 mm)</td>
</tr>
<tr>
<td></td>
<td>Outer: standard collapsible 1.33&quot; pitch - 1/2&quot; x .105&quot; (12.7 x 2.7 mm)</td>
</tr>
</tbody>
</table>

**Belt Turning Radius**

- Nominal inside turning radius is 1.1 x belt width

**Effective Belt Carrying Surface**

- 4.0\" (101.6 mm) less than the overall belt width

**Special Construction**

- Only standard construction currently available

**Sprockets**

- Uses standard sprockets for 1\" pitch Cam-Grid belts (18E and 23E only)
- Drive sprockets are located on the inner and center links of this belt

**Tension Limits: Heavy Duty Link**

- 500 lbs. (226.8 kg) straight run
- 250 lbs. (113.4 kg) turn or spiral

Heavy duty links are located in the center load-bearing section of the belt and on the outer edge.

### Constant Radius Belting

**Belt Weight**

- 5 Ga. Wire (.207\" dia.) (5.26mm) – inside pitch 3/4\" (19.05mm)
- 7 Ga. Wire (.177\" dia.) (4.50mm) – inside pitch 5/8\" (15.88mm)
- 9 Ga. Wire (.148\" dia.) (3.76mm) – inside pitch 1/2\" (12.70mm)

### Sani-Grid® Turn Belts and Sprockets

- 7-gauge Sani-Grid®
- The light weight, open design of Sani-Grid® belts makes them an economical choice for many turning belt applications. The simple, open design provides efficient operation with minimum maintenance and easy cleanup to fully meet stringent sanitation requirements.
- Camgrid Sani-Grid® belts are well-suited for simple conveyor layouts as well as more complex straight and turning conveyor systems.
- Factors which should be considered during the design of the conveyor include the environment in which the belt must operate, the nature of the load, and the maximum tension required to drive the belt and load.
- System designs that minimize or prevent over-tensioning, that allow easy access for maintenance, and that facilitate cleaning will increase belt life and minimize the overall cost of operation.

**Optional Construction Features**

- Sani-Grid® belts may be specified with U-bar filler rods. This option is generally recommended to provide additional product support on turn belt applications. The U-Bar design maintains open areas sufficient for cleanup while increasing the belt-to-product contact area.

**Key applications**:

- Material handling, cooking, icing, filling, inspecting and packaging of products like breads, rolls, buns, doughnuts, confections, cakes, pies, pastries, light loads of meat, seafood, poultry and processed products.

### Heavy Duty Tight Radius Cam-Grid Sprockets

**Materials:** Stainless Steel, Steel, UHMW

**Sani-Grid® with U-bar filler rods.**

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- Camgrid Sani-Grid® belts are well-suited for simple conveyor layouts as well as more complex straight and turning conveyor systems.
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**Key applications**:

- Material handling, cooking, icing, filling, inspecting and packaging of products like breads, rolls, buns, doughnuts, confections, cakes, pies, pastries, light loads of meat, seafood, poultry and processed products.

### Cambridge Sani-Grid belts are well-suited for:

- Material handling, cooking, icing, filling, inspecting and packaging of products like breads, rolls, buns, doughnuts, confections, cakes, pies, pastries, light loads of meat, seafood, poultry and processed products.

**Choice of 5, 7, or 9 gauge rods**

- Available in steel, galvanized and stainless steel
- Available for straight line or 45°, 90° or 180° turns (see page 14 for straight line belting)
- Flat, uniform surface for gentle product handling
- High-strength wire resists stretching and reduces downtime
- Positive sprocket drive
- Smooth edges for easy travel around curves
- U-bar filler rods available for more product support
- Welded rod for internal stabilization available

**Contact area**

**Key applications**:

- Material handling, cooking, icing, filling, inspecting and packaging of products like breads, rolls, buns, doughnuts, confections, cakes, pies, pastries, light loads of meat, seafood, poultry and processed products.

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- 9 Ga. Wire (.148\" dia.) (3.76mm) – inside pitch 1/2\" (12.70mm)

**Sani-Grid® Turn Belts and Sprockets**

**7-gauge Sani-Grid®**

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- System designs that minimize or prevent over-tensioning, that allow easy access for maintenance, and that facilitate cleaning will increase belt life and minimize the overall cost of operation.

**Optional Construction Features**

- Sani-Grid® belts may be specified with U-bar filler rods. This option is generally recommended to provide additional product support on turn belt applications. The U-Bar design maintains open areas sufficient for cleanup while increasing the belt-to-product contact area.

**Key applications**:

- Material handling, cooking, icing, filling, inspecting and packaging of products like breads, rolls, buns, doughnuts, confections, cakes, pies, pastries, light loads of meat, seafood, poultry and processed products.

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- Flat, uniform surface for gentle product handling
- High-strength wire resists stretching and reduces downtime
- Positive sprocket drive
- Smooth edges for easy travel around curves
- U-bar filler rods available for more product support
- Welded rod for internal stabilization available

**Contact area**

**Key applications**:

- Material handling, cooking, icing, filling, inspecting and packaging of products like breads, rolls, buns, doughnuts, confections, cakes, pies, pastries, light loads of meat, seafood, poultry and processed products.
Sani-Grid® Sprockets

We supply metal and plastic sprockets for use with Sani-Grid constant-radius turn belts. It is important that the outside sprocket be selected for the particular belt width being used.

UHMWPE Sani-Grid sprockets were developed specifically for 5- and 7-gauge Sani-Grid belting. Outside sprockets for constant radius turn Sani-Grid belts are offered in a two-piece design, with stainless steel hubs and screws, and UHMWPE outer sprocket rings. This allows for reuse of the hub and replacement of only the outer sprocket rings as necessary.

Sani-Grid® Outside Sprockets for Constant Radius Turn Belts

A sprocket drive provides a smooth, positive means of driving the belt, serves to keep the belt properly aligned and provides accurate synchronization of belt movement with operations.

<table>
<thead>
<tr>
<th>Belt Type</th>
<th>Sprocket No.</th>
<th>For Belt Width</th>
<th>No. of Teeth</th>
<th>Pitch Dia.</th>
<th>Outside Dia.</th>
<th>Approx. Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>In Mm</td>
<td>In Mm</td>
<td>In Mm</td>
<td>Lbs</td>
<td>Kg</td>
</tr>
<tr>
<td>5 Gauge</td>
<td>207*</td>
<td>5.26Mm</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5TC12*</td>
<td>12</td>
<td>304.8</td>
<td>9</td>
<td>2.986</td>
<td>75.8</td>
<td>3.247</td>
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<tr>
<td>5TC18*</td>
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<td>457.2</td>
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<td>86.8</td>
<td>3.689</td>
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<td>5TC24*</td>
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<td>4.113</td>
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Sani-Grid® Inside Sprockets for Constant Radius Turn Belts

All sprockets available in 303 stainless steel. *Two piece sprockets, with UHMWPE outer ring and stainless steel hubset. Assembly hardware included. Sprockets supplied with 3/4” or 1” bore, standard keyway, and set screw. Larger bore sizes available upon request.

Wire Cloth

Wire Cloth Products & Filter Leaves

Cambridge International offers the widest range of woven wire cloth products available from a single manufacturer. Whether your need is for the top-quality wire cloth weaves used in the chemical and food processing industries ... or for coarser weaves for sizing, dewatering, extruding or retaining operations, our comprehensive and diverse products lineup has it all. If you do not find the wire cloth product you are seeking, contact us toll-free at 1.877.898.2923. Chances are, we can provide the ideal solution for your needs.

Continuweld® Filter Leaves

Continuweld filter leaves eliminate pockets where bacteria and contaminant buildup and also allow for easy cake removal during clean up. More importantly, they reduce maintenance downtime and allow you to exceed your production goals.

7-ply Continuweld® Filter Leaf

Specifications:
- Precision stainless steel outlets
- 1/32” x 1/32” solid bar frame
- 1” x 1” mesh, 177° diameter wire drainage support screen
- Double layer of perforated sheet spot welded to the support screen
- 16 x 16 mesh, 0.040” diameter wire intermediate screens
- Filter cloth, stretched drum-tight, aligned with warp wires horizontal to the axis of the leaf
- Continuously welded
- Easy to repair
- A variety of filter cloth types and specifications available

5-ply Continuweld® Filter Leaf Specifications:
- Precision stainless steel outlets
- 1/32” x 1/32” offset bar frame
- 1 mesh, 177° diameter wire drainage support screen
- 6 mesh, 0.040” diameter wire cloth or 20-gauge perforated sheet intermediate components
- Filter cloth, stretched drum-tight, aligned with warp wires horizontal to the axis of the leaf
- Continuously welded
- Easy to repair
- A variety of filter cloth types and specifications available

Note: 3-ply Continuweld® filter leaves are also available.

Filter Leaf Reconditioning

In addition to a long service life, our Continuweld technology offers an attractive alternative to discarding worn or damaged standard riveted filter leaves: economical, like-new reconditioning. Our experienced filter leaf craftsmen carefully remove the outer wire cloth, thoroughly clean and inspect the inner components, and continuously weld new filter cloth to the frame. Like-new Continuweld filter leaves are leak proof, durable, and repairable—just like the original.
Standard Filter Leaves

Quality design, materials and construction add up to outstanding performance in a filter leaf.

Our standard-construction filter leaves provide consistent, continuous, high-quality filtration, representing an especially good value to our customers. We combine high-quality materials, components and design to achieve high performance at the minimum cost.

Premium features include:
- Quality filter cloth
- Precision fit frames – riveted, welded or bolted
- Proper cloth tension
- Extra-heavy support or drainage screens
- Machined outlets

Components

Good filter leaf design requires careful selection of each component to meet the requirements of the filtering operation and the product involved.

The four basic components of all filter leaves are:

- Frame
- Filter cloth
- Support or drainage screen
- Drains or support screen

Constructions:

- Tubular frame riveted
- Heavy-duty tubular frame riveted
- T-Bar frame with capping channel
- Custom-manufactured filters.

Outlets

A wide variety of wire cloth styles are available.

Filter Cloth

Selection of filter cloth is determined by the nature and content of the pre-filter as well as the filter design. In all cases the filter cloth should provide:

- Good flow characteristics with minimum pressure drop.
- The ability to acquire and hold an even filter aid coating with no plugging or bleeding.
- Easy filter aid removal characteristics with sufficient strength to resist damage from backwash pressures or scraping.

Drainage Screen

Proper specification selection is based on providing adequate support for the filter cloth, without restricting flow of liquid to the outlet. Support is usually a heavy wire mesh, but can also be provided by perforated metal or a slit tubular sheet.

Frames

Selected to assure a firm, taut filter cloth and to prevent edge leakage while providing overall strength and rigidity to the leaf. Usually secured by welding, bolting or riveting, depending on application requirements.

Outlets

Various types to adapt to any manifold available to give maximum flow rates and support for the leaf.

Alloys

Cambridge metallic filter cloth specifications are available from stock in Type 304 and Type 316 stainless steel. Many other alloys are available from stock or by special order.

Calendering

Filter Cloth is often calendered to provide a smoother surface or greater density. Calendering also allows better filter cake release and improves resistance to scraping.

Special Requirements

Filter cloth can be supplied in standard rolls or cut in pieces of any size or shape. Special weaves can be developed to meet specific application requirements.

Ultrafine Cloth

A complete line of ultrafine meshes down to a 5.0 micron opening is available.

Drainage Screens

The most popular drainage or support screens are 4 x 4 mesh of .083” or .080” diameter wire, and 1” x 1” mesh of .177” diameter wire.

Ultrafine Mesh

The four basic components of all filter leaves are:

- Quality filter cloth
- Precision fit frames – riveted, welded or bolted
- Proper cloth tension
- Extra-heavy support or drainage screens

Drainage or support screen

Proper specification selection is based on providing adequate support for the filter cloth, without restricting flow of liquid to the outlet. Support is usually a heavy wire mesh, but can also be provided by perforated metal or a slit tubular sheet.

Frames

Selected to assure a firm, taut filter cloth and to prevent edge leakage while providing overall strength and rigidity to the leaf. Usually secured by welding, bolting or riveting, depending on application requirements.

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Drainage Screens

The most popular drainage or support screens are 4 x 4 mesh of .083” or .080” diameter wire, and 1” x 1” mesh of .177” diameter wire.

Panel Belts

Panel belts are available with plain, folded mesh, or folded plate edges.

For corrosive environments or for cleanliness, we can fabricate a panel belt in a material suited for the application, such as stainless steel, galvanized or carbon steel.

Because of their versatility in design and application, Cambridge panel belts are used for processing a wide variety of food, textile, chemical and tobacco products. They are particularly suited to handling light or fine materials in industrial driers and washers. A variety of meshes and wire diameters are available, including square or oblong meshes.

Specifications

Belt lengths, widths and allowable loads for all types of applications are provided by numerous available chain and belt support member designs. Plate edges, flights, dividers and hinges are available to meet your requirements. Replacement parts are also available.

Traveling Water Screens

Traveling water screens are used for the removal of suspended solids from intake water for industrial and municipal use. They provide an effective and economical means for removing twigs, leaves, seaweed, kelp, grass, needle ice, fish, and many other solids from lake, river, or seawater.

We offer both single-flow (thru-flow) and dual-flow type screens. With thru-flow type screens, the raw water flows through the ascending and descending runs of the screens from front to back. The refuse is carried up on the ascending tray and discharged into a draw for disposal.

Dual-flow type screens are capable of handling higher capacities than single-flow screens. Their design allows water to flow through the ascending and descending runs plus the curved bottom of the screens simultaneously. The clean water portion of the well is positioned between the two runs of the screen. Refuse disposal is the same as with thru-flow type screens.

Materials used in fabricating traveling water screens include T-304 and T-316 stainless steel, PVC, Monel, copper, bronze and galvanized steel.

These specifications are all available with double crimp (with or without selvage), or with single intermediate crimp (without selvage).
Vibrating Screens

Vibrating screens are used for operations such as dewatering, washing, sizing and scalping in a wide range of industries including food processing, chemical processing, papermaking, coal, clay and metals mining and others. They are also widely used on shale shakers for reclaiming drilling mud. We supply a wide range of screen section specifications in square mesh or oblong weaves. Each screen section is provided with the proper edge preparation to suit the wire cloth selected and to fit the screening machine on which it will be used. Vibrating screen sections are available in stainless steel and other specialty metals. Cloth for popular specifications and standard hooks are stock items. Complete screens in standard sizes, such as 4”x5’, 4”x8’, and 4”x10’ are also readily available.

Edge Preparation

Our vibrating screens’ standard hook design is the square two-piece hook with inlet. For heavier screens or special applications, various other hooks are available. All hooks are available in galvanized steel, stainless steel or copper for heated screens.

For Longer Screen Life …

Back-up Screens – Some vibrating screen users find that screen life is increased by using a back-up screen. The coarser mesh wire cloth supports the load while the fine mesh actually performs the screening. A back-up is normally used with screens of 80 mesh and finer. Various meshes are used, such as 12, 20, or 30 mesh, depending on the specific application.

Tensioning – Proper tensioning of a vibrating screen is an important factor in screen life. Tension should be distributed evenly along the length of the hooks, and screens should be re-tensioned periodically to maintain optimum capacity and screen life.

Half-panels – Since the greatest wear occurs where the load impacts the screen, this area often fails first, requiring replacement of the entire screen. An alternative for 8’ and 10’ long screens is to use two half-panels joined by a 1” extension of cloth to make up the length. This may require modification of the screen box, but can result in significant savings on replacement screens (the half-panels can be reversed to distribute the wear, and can be replaced one at a time).

Screening Capacity – Effective screening area, screening rate and screen section life have a significant relationship to one another. Generally, in any given size opening, larger wire sizes provide longer life, but less screened material. Conversely, smaller diameter wires give greater capacity, but shorter service life.

Common Vibrating Screen Specifications

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<tr>
<th>Mesh</th>
<th>Wire Dia.</th>
<th>Opening</th>
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Wire Cloth Fabrication

Wire cloth fabrication is one of the custom services we provide our clients. We can fabricate wire cloth parts of any size or shape – and in any metal or alloy – that are tailored to fit your process needs in new or replacement capacities. It’s an ideal resource for accurate, durable and efficient filtering, sizing, siftng, straining, heat treating and many other processes when standard parts are not available.

Our wire cloth fabrication department includes skilled craftsmen with years of experience, backed by extensive engineering and design facilities and precision manufacturing equipment. Filter leaves, screens, baskets, strainers, trays and other special fabrications are available. Contact us at 1.877.898.2923 or catalog@cambridge-intl.com for more details.

Raw Cloth

As one of the largest wire cloth manufacturers in the U.S. we offer industrial wire cloth in a complete range of specifications from 1 mesh to 500 mesh in various wire diameters. You may also choose from a wide variety of weaves, from ultrafine to the heaviest mesh.
Comprehensive Service and Support Designed Around You

Did you know that approximately 80% of all belt problems can be traced to poor tracking and improper conveyor alignment during installation? As a result, one in every three belt replacements could have been avoided.

Unfortunately, many in-house operations and maintenance teams lack the experience needed to properly install, align and maintain a conveyor belt system. Let us do the job for you! Cambridge International’s mission is simple – to maximize your conveyor up-time, increase your productivity, and relieve some of the stresses you encounter every day.

We’re a comprehensive conveyor solutions provider, always responsive to the needs of our customers. In addition to our comprehensive product offerings, our range of services includes:

- Belt and conveyor troubleshooting
- Conveyor evaluations
- Belt pre-installation evaluations
- Complete belt installations
- Technical training

Through years of hands-on involvement in conveyor design and onsite troubleshooting, belt installation and system evaluations, our teams of engineers and technicians have encountered almost every conveying situation and solved every type of problem. Our focus on conveyors, belts, and related conveyor components – combined with our experience and history of innovation and problem solving – gives us unparalleled knowledge and resources to service all of your conveyor needs.

When you call on Cambridge International, our engineers and technical service personnel will assess the overall performance of the conveyor system. Specifically, we will:

- Determine if the drive system is positioned and functioning properly.
- Evaluate belt tensioning and take-up systems.
- Check for presence of and effectiveness of a belt tracking system.
- Examine belt support structures.
- Check the size, condition, placement and the adjustment ability of shafts and rollers.

Belt Installations

Packages include:

- Alignment services.
- Removal of “old” belt and “new” belt pull-in. Custom lead-in devices are available.
- Proper sequential installation of belt rolls.
- Properly splicing and finishing of the belt. We can also perform demos for your maintenance team.
- Removing excess belting and adjusting to ideal tension level. Maintenance team demos available.
- Tracking the belt at ambient temperatures with incremental adjustments to support rollers.
- Continuous monitoring of belt tracking in medium-to-high temperature applications until the belt is properly cured and at operating temperature.
- Providing permanent aligned reference points for future alignment, upon request.

Spiral Conveyor Systems Evaluations and Belt Installations

During a spiral system evaluation, we will:

- Determine belt condition and estimate the remaining belt life.
- Check belt path in cage and belt return areas.
- Examine the cage structure and components for signs of damage.
- Evaluate, and replace if necessary, all wear items such as wear strips, drive bar caps, edge guides, hold downs and sprockets.
- Check all system shafts for proper alignment.
- Full belt installations.
- Determine if proper overdrive is being used.
- Map system tension via the TagTester digital remote sensing package and provide suggestions to achieve optimum tension levels.
- Provide instruction on proper system cleaning, lubrication and general maintenance techniques.

Customized Belt Tracking Systems are also available.

To put the Cambridge service team to work for you … call 1.877.898.2923 or e-mail us at catalog@cambridge-intl.com.
Cambridge Engineered Solutions is a knowledgeable team of belting system experts always looking for a better way to solve your problems. Nothing gives us more satisfaction than helping our customers run their plants more efficiently and profitably. To easily connect you with an expert in your field, we put together a series of informative videos featuring our own Cambridge “Market Experts.” Visit www.Cambridge-ES.com to meet your market expert who can guide you in selecting the right belt for improved productivity and performance. We have more videos to come in this series, so check back often.

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How to order products

At Cambridge Engineered Solutions, manufacturing outstanding quality products is only the beginning of our commitment to deliver total customer satisfaction. We provide all of the sales, service and engineering assistance you need via phone - 24/7/365.

Toll-Free: 1.877.649.7492
Outside the U.S. & Canada: 1.410.901.2660
Fax: 1-410-901-8880
E-mail: sales@cambridge-es.com

Ventas y servicios de exportación
Through our Export Division, we export products to all parts of the world. We are experienced in preparing FAS, C&F and CIF quotations, processing of necessary documents, and handling of all types of export shipments. To serve our international customers, we also have a network of representatives around the world plus manufacturing and sales facilities in the United States, Brazil and Mexico.

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