Why Lewis-Goetz?

SOME OF THE WORLD’S LARGEST TIRE MANUFACTURERS HAVE BEEN TRUSTING LEWIS-GOETZ WITH THEIR BUSINESS SINCE 1978

THIS CONFIDENCE IS BASED ON OUR LONG-TIME TENURED PRODUCT SPECIALISTS*

BEING ABLE TO TROUBLESHOOT THEIR PROBLEMS THROUGH:

*We have an average sales staff tenure of nine years.

01 ON-SITE SURVEYS TO TROUBLESHOOT AND TO EVALUATE PROCESSES

02 ASSESSING THE PRODUCTS IN USE AND THEIR APPLICATIONS

03 PROVIDING 24/7 SERVICE AND TECHNICAL RESPONSIVENESS TO ALL OF THEIR NEEDS

04 MAKING RECOMMENDATIONS THAT ARE DESIGNED TO:

REDUCE THE TOTAL COST OF OWNERSHIP

INCREASE UPTIME, PRODUCTIVITY AND PREVENT EMERGENCIES

OFFER AN INNOVATIVE MARKET ADVANTAGE

24/7 24/7
Our process allows us to document the savings that we bring to our customers and in the last eight years, we’ve documented and saved one $5.6 million dollars of our tire manufacturer customers over.

Our North American geographic footprint and local presence of nearly 100 North American locations enable us to provide immediate on-site diagnostic and preventative service, local emergency response and faster delivery times.

20+ locations provide belt and field services including installation, maintenance and technical services 24/7.

We are active members of top accredited associations.

We are also ranked as a market leader in modern distribution management.

We work safely: Our service crews are certified to MSHA parts 46 and 48B; OSHA 10 and 30 where appropriate.
1 Rubber Mixing
Banbury Mixing Products
Charging Belts • Scale Belts
Overhead Loaders • Mill to Mill Belts
Wig Wags • Slurry Dip Belts
Transfer-Takeaway Belts • Hugger Belts
Mix to Mix Belts • Transfer Conveyors
Plastic Modular Belts • 1-inch and 2-inch Pitch Belts

Products Used Across All Areas of the Plant
Motorized Pulleys • Fasteners • Air Multipurpose Hose
Hydraulic Hose • Pneumatic Tubing Connections
Compressed NA General Service Sheet Gasket
Metal Gaskets • Braided Packing
Mechanical Seals • Joint Sealing • Safety Supplies
Valves and Pumps • Molded and Extruded Parts

2 Batch-off
Banbury Mixing Products
Charging Belts • Scale Belts
Overhead Loaders • Mill to Mill Belts
Wig Wags • Slurry Dip Belts
Transfer-Takeaway Belts • Hugger Belts
Mix to Mix Belts • Transfer Conveyors
Plastic Modular Belts • 1-inch and 2-inch Pitch Belts

3 Rubber Extrusion & Cooling
Component Prep Products
Cooling Tank Conveyors • Plastic Modular Belt
1-inch and 2-inch Pitch Belts • Live Roller
Drive Belts • Incline and Decline Belts
Overhead Loaders • Skiver Belts
Spool Windup Belts • Scale Belts
Takeaway Belts • Mill to Mill Belts
Cooling Tank Belts • Cementer Belts
Extruder Takeaway Belts
Overhead Mill Cooling Belts • Booking Belts
Extruder Takeaway Belts • Takeaway Belts
Rotary Unions • Live Rollers
4 Calendering - Tire Cord Cutting
Component Prep Products
- Cooling Tank Conveyors
- Plastic Modular Belt
- 1-inch and 2-inch Pitch Belts
- Live Roller Drive Belts
- Incline and Decline Belts
- Overhead Loaders
- Skiver Belts
- Spool Windup Belts • Scale Belts
- Takeaway Belts • Mill to Mill Belts
- Cooling Tank Belts • Cementer Belts
- Extruder Takeaway Belts
- Overhead Mill Cooling Belts • Booking Belts
- Extruder Takeaway Belts • Takeaway Belts
- Rotary Unions • Live Rollers

5 Tire Building & Vulcanization (Curing) Unit
- Cutting Products:
  - Bias Cutter Belts
  - Fischer Festoon Belts
  - Slitter Belts • Transfer Belts
  - Spadone Splice & Windup Belts
  - Crossover Belts

- Tire Building Products:
  - Innerliner and Green Tire Takeaway Belts
  - Innerliner Applier Belts
  - Fischer Shear Feed and Cutting Belts

- Curing Products:
  - Accumulating Conveyors
  - Sorting Conveyors
  - Incline from Curing Press Takeaways
  - Overhead Inclines • Incline Kicker Belts
  - All Steep Inclines • Curing Press Takeaways
  - Curing Press Takeaway Trench Belts
  - Plastic Modular Belts
  - 2-inch Pitch Belts
  - PTFE Lined – Smooth and Corrugated
  - Rubber Cover and Stainless Steel Braided Hose
  - Live Rollers

6 Final Finish / Inspection
Final Finish Products
- Accumulating Conveyors • Sorting Conveyors
- Inspection Conveyors • Plastic Modular Belts
- 1-inch and 2-inch Pitch Belts • Transfer Belts
- Live Roller Drive Belts • Sort and Label Belts
- Inspection Belts • Trimmer Belts
# Lewis-Goetz Offers These Key Products to the Tire Industry

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Banbury Department</th>
<th>Component Prep</th>
<th>Curing Department</th>
<th>Final Finish/Inspection</th>
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<tbody>
<tr>
<td>Lightweight Conveyor Belt</td>
<td></td>
<td></td>
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<tr>
<td>PVC 150</td>
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<tr>
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<tr>
<td>New Era Blue</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Blue Slip Top</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Tyler Wire Silicone</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Vytaflex 120 Wedgegrip</td>
<td></td>
<td></td>
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<tr>
<td>Elastomer Thermoplastic Monofilament Belting</td>
<td></td>
<td></td>
<td>✔</td>
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<tr>
<td>Thermoplastic Polyurethane Timing Belts</td>
<td></td>
<td></td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Modular Conveyor Belt</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Roller Top 90 degrees</td>
<td></td>
<td></td>
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<td>✔</td>
</tr>
<tr>
<td>Raised Rib</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Flush Grid</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Flat Top</td>
<td>✔</td>
<td>✔</td>
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<td>✔</td>
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<tr>
<td>GripTop</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Conveyor Belt Accessories</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Motorized Pulleys - all sizes</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Fasteners - staple, clipper and alligator</td>
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<tr>
<td>Hose Products</td>
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<tr>
<td>PTFE lined - smooth and corrugated rubber cover and stainless steel braid</td>
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<td></td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Air multipurpose hose</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Hydraulic hose</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Pneumatic tubing connections</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Gasket Products</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressed NA General Service Sheet</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<td>Metal gaskets</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Braided Packing</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Mechanical seals</td>
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<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Joint sealing</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>
Our service portfolio is designed to reduce our customers’ total cost of ownership.
## Lightweight Belt

**PVC Interwoven 150# Black PVC Cover One Side (COS)**

### Feature and Benefits:
- Excellent whenever an economical transfer or drive belt is needed and heat and rubber release is not a problem.
- The unique weave pattern allows the belt to be more flexible around pulleys.
- Superior tracking, straightness, and flatness characteristics.
- Exceptional fastener retention, good tear and general abuse resistance.

### Specifications:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cover Surface</th>
<th>Bottom Surface</th>
<th>Working Tension</th>
<th>Plies</th>
<th>Weight</th>
<th>Min Pulley Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>150# Black Inter-woven PVC COS</td>
<td>Black PVC</td>
<td>Bare</td>
<td>150 LBS PIW</td>
<td>1</td>
<td>1.1 LBS/SF</td>
<td>4 IN</td>
</tr>
</tbody>
</table>

## Blue Stripe Polyester Polypreme

### Feature and Benefits:
- Can be used on 80% of the conveyors in a tire plant.
- Available in 2 and 3 ply constructions.
- Special Blue Stripe Polyester top cover is more resistant to knife cuts.
- 100% Polyester construction eliminates excessive stretch, shrinkage and fastener pullout.
- Excellent for non-marking applications.

### Specifications:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cover Surface</th>
<th>Bottom Surface</th>
<th>Working Tension</th>
<th>Plies</th>
<th>Weight</th>
<th>Min Pulley Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Stripe Polypreme Hot stock and Water</td>
<td>100% Polyester</td>
<td>Friction</td>
<td>150 LBS PIW 225 LBS PIW</td>
<td>2 3</td>
<td>.61#/SF 1.02#/SF</td>
<td>3 IN 4 IN</td>
</tr>
</tbody>
</table>

## New Era Blue

### Feature and Benefits:
- Excellent belt wherever sticky rubber buildup is a problem and release of rubber stock is needed.
- Rough blue texture manufactured exclusively for Lewis-Goetz.
- Special heat curing process prevents contamination in the tire manufacturing process.
- Greater life, better quality and less expensive than traditional products.

### Specifications:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cover Surface</th>
<th>Bottom Surface</th>
<th>Working Tension</th>
<th>Plies</th>
<th>TEMP Rating</th>
<th>Min Pulley Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Era Blue SWG II Release Silicone Belt</td>
<td>Abraded Blue Silicone</td>
<td>Friction</td>
<td>135 LBS PIW</td>
<td>3</td>
<td>400 DEG F</td>
<td>3 IN</td>
</tr>
</tbody>
</table>
Lightweight Belt

Blue Slip Top

Feature and Benefits:
• 10 mm thick solid Teflon sheet allows tires exiting the press to slide onto the center of the belt.
• Eliminates the need for costly modular roller top belting
• Polyester/Fleece pulley surface good for both slider belts and rollers
• Excellent tracking capabilities
• Seamless maximum width = 34”

Specifications:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cover Surface</th>
<th>Bottom Surface</th>
<th>Working Tension</th>
<th>OAG</th>
<th>Min Pulley Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Slip Top</td>
<td>10 mm solid sheet Teflon Ultra Glossy PTFE</td>
<td>Buffered non-woven PES</td>
<td>110 LBS PIW</td>
<td>.115</td>
<td>6 IN</td>
</tr>
</tbody>
</table>

Tyler Wire Silicone Release Belt

Feature and Benefits:
• Superior release belt that can be used wherever release of hot sticky rubber is a problem.
• Minimizes surface contact for better release.
• Special calendared Silicone provides a more durable top surface
• Gum rubber plies allow excellent flexibility for smaller pulley diameters.

Specifications:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cover Surface</th>
<th>Bottom Surface</th>
<th>Working Tension</th>
<th>Plies</th>
<th>TEMP Rating</th>
<th>Min Pulley Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tyler Wire Silicone</td>
<td>Fabric Impression silicone</td>
<td>Friction</td>
<td>90 LBS/IN</td>
<td>3</td>
<td>77 LBS/SF</td>
<td>½ IN</td>
</tr>
</tbody>
</table>

Vytaflex® 120 Black Wedgegrip

Feature and Benefits:
• Excellent when slippage is a problem due to steep inclines
• “Siped Diamond Design” can prevent slippage up to a 45 degree incline
• Tough abrasion resistant rubber will not harden and lose resiliency

Specifications:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cover Surface</th>
<th>Bottom Surface</th>
<th>Working Tension</th>
<th>Plies</th>
<th>Weight</th>
<th>Min Pulley Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vytaflex 120 Black Wedgegrip</td>
<td>Diamond</td>
<td>Friction</td>
<td>120 LBS PIW</td>
<td>2</td>
<td>1.04#/SF</td>
<td>4 IN</td>
</tr>
</tbody>
</table>
Lightweight Belt

Elastomer Thermoplastic Monofilament Belting

Cover coatings are mainly made of thermoplastic materials like TPU, TPO, PVC, etc., and elastomer-like rubbers, PUR, etc. – or feature a fabric cover. The running side is usually a fabric, often impregnated with a thermoplastic material, or with special wear-resistant PUR that provides a low and constant coefficient of friction. There are also pulley-side fabrics that feature special low-noise running capabilities.

Lewis-Goetz offers a multitude of these belts to fit each specific application in a tire plant.

Thermoplastic Polyurethane Timing Belts

Open-ended and truly endless timing belts are utilized in numerous industries, including the tire industry. They are the perfect choice for situations in which traditional belt designs will not provide ideal synchronization. Synchronization is achieved by meshing the belt teeth into a similar-pitch pulley. Belts are available in metric and imperial pitches. Joining of the belts can be achieved with finger punch joining, mechanical clamps, or the patent-pending Hinge-Joint.

Liners

Lewis-Goetz Tread Liner  XLPMFAS

A multitude of special monofilament yarns are fabricated together to provide cross rigidity throughout the product which provides extra support for each layer of tread stock. Its textured surface also provides excellent release of the rubber stock. Lewis-Goetz can fabricate to any dimension and attach Velcro trailing ends for ease of installation during the production process.

Lewis-Goetz Sidewall Liner  HDPEPPVA

Available in High Density Polyethylene, Polypropylene, and Poly Vinyl Alcohol these products offer excellent crease resistance, non-fraying edges, low elongation, and good release of the sidewall stock. Different thicknesses and tensile strengths provide the right product for your specific application. Available in a multitude of colors for stock color coding throughout the plant.
Modular Belt

Roller Top 90 degrees

Feature and Benefits:
- Designed for easy 90° transfer
- Imperial belt width
- Large robust roller with diameter 23 mm (0.9”)
- Roller distance 50 mm (2”)
- Smart-Fit rod retention
- Rod diameter 7 mm (0.27”)
- Closed hinge
- Indent 50 mm (2”)
- Lug teeth sprockets

Specifications:

<table>
<thead>
<tr>
<th>Belt material</th>
<th>Polypropylene (PP)</th>
<th>Acetal (POM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rod material</td>
<td>Acetal (POM)</td>
<td>Polyamide (PA)</td>
</tr>
<tr>
<td>Roller material</td>
<td>N/m</td>
<td>lb/ft</td>
</tr>
<tr>
<td>Nominal tensile strength</td>
<td>°C</td>
<td>°F</td>
</tr>
<tr>
<td>Temperature range</td>
<td>kg/m²</td>
<td>lb/sqft</td>
</tr>
<tr>
<td>Belt weight</td>
<td>mm (nom.)</td>
<td>inch (nom.)</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>inch</td>
</tr>
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</table>

Diameter of idling rollers (minimum) | Diameter of support rollers (minimum) | Diameter for gravity take-up and center drive rollers (minimum) | Backbending radius for elevators without side guards or hold down devices (minimum)

<table>
<thead>
<tr>
<th>mm</th>
<th>inch</th>
<th>mm</th>
<th>inch</th>
<th>mm</th>
<th>inch</th>
<th>mm</th>
<th>inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>90</td>
<td>4</td>
<td>100</td>
<td>4</td>
<td>150</td>
<td>6</td>
<td>150</td>
<td>6</td>
</tr>
</tbody>
</table>

Standard range of belt widths $b_0$

Real belt widths are in most cases 0.1% to 0.3% smaller.

For Polypropylene (PP) material up to 750 mm (30”) -3 mm to 0 mm and -0.4% to 0% for wider belts.

For Acetal (POM) material up to 750 mm (30”) -3 mm to 0 mm and -0.4% to 0% for wider belts.

Standard belt widths in increments of 2.0” (50.8 mm). Cut width: Standard belt width - 0.5” (- 12.7 mm).

The nominal tensile strength is valid for 23 °C (73 °F). The admissible tensile force depends on the operating temperature near the drive sprockets. Within the temperature range allowed, the admissible tensile force may vary from 100% to 20% of the nominal tensile strength. For detailed information and correct calculation of effective tensile force contact your local Lewis-Goetz representative.
Modular Belt

Raised Rib

Feature and Benefits:

• Imperial belt width
• 36% open area; 67% open contact area, largest opening 17.5x3.55 mm (0.69”x0.14”)
• Easy to clean
• Straight ribs 2.8 mm thick

• Rod diameter 7 mm (0.27”)
• Smart fit rod retention
• Strong edges
• Lug teeth sprockets
• Food approved materials available

Available accessories

• Combs (finger transfer plates) long and short

Specifications:

<table>
<thead>
<tr>
<th>Belt material</th>
<th>Hot Water Resistant Polypropylene (PP + HW)</th>
<th>Submersible Polypropylene (PP + GH)</th>
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<tbody>
<tr>
<td>Rod material</td>
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<td></td>
</tr>
<tr>
<td>Nominal tensile strength F₁₁</td>
<td>N/m</td>
<td>lb/ft</td>
</tr>
<tr>
<td>Temperature range</td>
<td>°C</td>
<td>°F</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40 - 220</td>
</tr>
<tr>
<td>Belt weight m₁</td>
<td>kg/m²</td>
<td>lb/sqft</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Diameter of idling rollers (minimum)</th>
<th>Diameter of support rollers (minimum)</th>
<th>Diameter for gravity take-up and center drive rollers (minimum)</th>
<th>Backbending radius for elevators without side guards or hold down devices (minimum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
</tr>
<tr>
<td>90</td>
<td>3.5</td>
<td>100</td>
<td>4</td>
</tr>
</tbody>
</table>

Standard range of belt widths b₀

| mm (nom.) | 229 | 305 | 381 | 457 | 533 | 610 | 686 | 762 | 838 | 914 | 991 | 1067 | 1143 | etc. |
| inch (nom.) | 9   | 12  | 15  | 18  | 21  | 24  | 27  | 30  | 33  | 36  | 39  | 42   | 45   | etc. |

Hot Water Resistant Polypropylene (PP + HW): Real belt widths are in most cases 0.1% to 0.3% smaller.

Submersible Polypropylene (PP + GH): Real belt widths are 0.25% wider.

Standard belt widths in increments of 76.2 mm (3”). Non-standard widths are offered in increments of 38.1mm (1.5”).

The nominal tensile strength is valid for 23 °C (73 °F). The admissible tensile force depends on the operating temperature near the drive sprockets. Within the temperature range allowed, the admissible tensile force may vary from 100% to 20% of the nominal tensile strength. For detailed information and correct calculation of effective tensile force contact your local Lewis-Goetz representative.
Modular Belt

Flush Grid

Feature and Benefits:
- 37% open area; 55% open contact area; largest opening 6.0x8.5 mm (0.24”x0.33”)
- Excellent for cooling and draining
- Open hinge
- Easy to clean
- Food approved materials available
- Rod diameter 7 mm (0.27”)

Available accessories
- Flights and scoops
- Side guards
- Hold-down devices
- GripTop modules

Specifications:

<table>
<thead>
<tr>
<th>Belt material</th>
<th>Polypropylene (PP)</th>
<th>Polyethylene (PE)</th>
<th>Acetal (POM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rod material</td>
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</tr>
<tr>
<td>Nominal tensile strength F₁, straight run</td>
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<td>18000</td>
</tr>
<tr>
<td></td>
<td>lb/ft</td>
<td>1781</td>
<td>1233</td>
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<tr>
<td>Temperature range</td>
<td>°C</td>
<td>5 - 105</td>
<td>-70 - 65</td>
</tr>
<tr>
<td></td>
<td>°F</td>
<td>40 - 220</td>
<td>-94 - 150</td>
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<tr>
<td>Belt weight mₖ</td>
<td>kg/m²</td>
<td>6.8</td>
<td>7.2</td>
</tr>
<tr>
<td></td>
<td>lb/sqft</td>
<td>1.39</td>
<td>1.48</td>
</tr>
</tbody>
</table>

Diameter of idling rollers (minimum) | Diameter of support rollers (minimum) | Diameter for gravity take-up and center drive rollers (minimum) | Backbending radius for elevators without side guards or hold down devices (minimum) | Backbending radius for elevators with side guards or hold down devices (minimum) |
| mm | mm | mm | mm | mm | mm | mm | mm |
| 90 | 100 | 150 | 150 | 6 | 250 | 10 |

Use the largest possible backbending radius for elevators with side guards or hold down devices.

Standard range of belt widths bₑ

| mm (nom.) | 225 | 300 | 375 | 450 | 525 | 600 | 675 | 750 | 825 | 900 | 975 | 1050 | 1125 | 1200 | etc. |
| inch (nom.) | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | etc. |

Real belt widths are in most cases 0.1% to 0.3% smaller.

For Polyethylene (PE) material up to 750 mm (30”) -3 mm to 0 mm and -0.4% to 0% for wider belts.

For Polypropylene (PP) material up to 750 mm (30”) -3 mm to 0 mm and -0.4% to 0% for wider belts.

For Acetal (POM) material up to 750 mm (30”) -3 mm to 0 mm and -0.4% to 0% for wider belts.

Standard belt widths in increments of 75 mm (3”). Non-standard widths are offered in increments of 18.75 mm (0.74”). Smallest possible width 112.5 mm (4.42”).

The nominal tensile strength is valid for 23 °C (73 °F). The admissible tensile force depends on the operating temperature near the drive sprockets. Within the temperature range allowed, the admissible tensile force may vary from 100% to 20% of the nominal tensile strength. For detailed information and correct calculation of effective tensile force contact your local Lewis-Goetz representative.
Modular Belt

Flat Top

Feature and Benefits:
• 0% open area
• High lateral stiffness
• Food approved materials available
• Rod diameter 5 mm (0.2")
• “Open window” sprockets

Available accessories
• Flights and Scoops
• Side guards
• Hold-down devices
• GripTop modules

Specifications:

<table>
<thead>
<tr>
<th>Belt material</th>
<th>Polypropylene (PP)</th>
<th>Acetal (POM)</th>
<th>Polyethylene (PE)</th>
<th>Polypropylene (PP)</th>
<th>Polyamide (PA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rod material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal tensile strength $F_1$ (straight run)</td>
<td>N/m lb/ft</td>
<td>18000 1233</td>
<td>18000 1233</td>
<td>9000 616</td>
<td>21500 1473</td>
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<tr>
<td>Temperature range</td>
<td>°C °F</td>
<td>5 - 105 40 - 220</td>
<td>5 - 93 40 - 200</td>
<td>-70 - 65 -94 - 150</td>
<td>5 - 93 40 - 200</td>
</tr>
<tr>
<td>Belt weight $m_b$</td>
<td>kg/m² lb/sqft</td>
<td>5.5 1.13</td>
<td>5.5 1.13</td>
<td>5.8 1.19</td>
<td>8.4 1.71</td>
</tr>
</tbody>
</table>

Diameter of idling rollers (minimum) | Diameter of support rollers (minimum) | Diameter for gravity take-up and center drive rollers (minimum) | Backbending radius for elevators without side guards or hold down devices (minimum) | Backbending radius for elevators with side guards or hold down devices (minimum) |
| mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| 50 | 2 | 50 | 2 | 100 | 4 | 150 | 6 | 250 | 10 |

Use the largest possible backbending radius for elevators with side guards or hold down devices.

Standard range of belt widths $b_0$

| mm (nom.) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | etc. |
| inch (nom.) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | etc. |

Real belt widths are in most cases 0.1% to 0.3% wider.

For Polyethylene (PE) material up to 750 mm (30”) -3 mm to 1 mm and -0.4% to 0.1% for wider belts.

For polypropylene (PP) material up to 750 mm (30”) -1 mm to 2 mm and 0% to 0.4% for wider belts.

For Acetal (POM) material up to 750 mm (30”) -2 mm to -1 mm and -0.25% to 0.25% for wider belts.

Standard belt widths in increments of 50 mm (2”). Non-standard widths are offered in increments of 16.66 mm (0.66”). Smallest possible width 83.4 mm (3.25”). Non-bricklayed belts 50 mm (2”) and 100 mm (4”) wide.

The nominal tensile strength is valid for 23 °C (73 °F). The admissible tensile force depends on the operating temperature near the drive sprockets. Within the temperature range allowed, the admissible tensile force may vary from 100% to 20% of the nominal tensile strength. For detailed information and correct calculation of effective tensile force contact your local Lewis-Goetz representative.
Modular Belt

Grip Top

Feature and Benefits:
- Open area dependent on percentage of GripTop modules installed, as illustrated approx. 20%
- Food approved materials available
- Abrasion resistant GripTop, high friction
- Rod diameter 5 mm (0.2”)
- “Open window” sprockets

Specifications:

<table>
<thead>
<tr>
<th>Belt material</th>
<th>Polypropylene (PP)</th>
<th>Acetal (POM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GripTop material</td>
<td>Polyamide (PA)</td>
<td>Acetal (POM)</td>
</tr>
<tr>
<td>Rod material</td>
<td>Polyamide (PA)</td>
<td>Acetal (POM)</td>
</tr>
<tr>
<td>Nominal tensile strength $F_{t,n}$, straight run (N/m lb/ft)</td>
<td>14000 959</td>
<td>14000 959</td>
</tr>
<tr>
<td>Temperature range °C °F</td>
<td>5 - 60 40 - 140</td>
<td>5 - 60 40 - 140</td>
</tr>
<tr>
<td>Belt weight $m_b$, kg/m² lb/sqft</td>
<td>6.5 1.34</td>
<td>6.5 1.34</td>
</tr>
<tr>
<td>Standard belt color</td>
<td>grey</td>
<td>grey</td>
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<table>
<thead>
<tr>
<th>Diameter of idling rollers (mm)</th>
<th>Diameter of support rollers (mm)</th>
<th>Diameter for gravity take-up and center drive rollers (mm)</th>
<th>Backbending radius for elevators without side guards or hold down devices (mm)</th>
<th>Backbending radius for elevators with side guards or hold down devices (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
</tr>
<tr>
<td>50</td>
<td>2</td>
<td>50</td>
<td>2</td>
<td>100</td>
</tr>
</tbody>
</table>

Use the largest possible backbending radius for elevators with side guards or hold down devices.

Standard range of belt widths $b_0$

| mm (nom.) | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | etc. |
| inch (nom.) | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 43 | 47 | 51 | 55 | 59 | etc. |

Real belt widths are in most cases 0.1% to 0.3% smaller.

For Polypropylene (PP) material up to 750 mm (30”) -2 mm to 1 mm and -0.4% to 0.1% for wider belts.

For Acetal (POM) material up to 750 mm (30”) -3 mm to 0 mm and -0.4% to 0.1% for wider belts.

Standard belt widths in increments of 50 mm (2”). Non-standard widths are offered in increments of 16.66 mm (0.66”), minimum indent 33.3 mm (1.5”).

The nominal tensile strength is valid for 23 °C (73 °F). The admissible tensile force depends on the operating temperature near the drive sprockets. Within the temperature range allowed, the admissible tensile force may vary from 100% to 20% of the nominal tensile strength. For detailed information and correct calculation of effective tensile force contact your local Lewis-Goetz representative.
Lewis-Goetz also services the following industries:

- Aggregate
- Agriculture
- Chemical Processing
- Construction
- Food Processing
- Government
- Manufacturing
- Mining
- Oil & Gas
- Package Handling
- Petrochemical
- Petroleum Dispensing
- Petroleum Refining
- Pharmaceutical
- Power Generation
- Pulp and Paper/Wood
- Rental
- Steel
- Transport/Bulk Hauling

Please Contact Your Local Division for More Information

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