CONVEYOR IDLERS

Lean Manufacturing For Higher Quality Products at Faster Lead Times

BENEFITS
- Annually, our components are installed on 1,000+ Superior brand conveyors
- SpinGuard® Seal Technology offers bullet proof bearing protection
- Powder coat paint offers long-lasting, color-durable finish

SPECIFICATIONS
- Bearing Sizes: 17mm - 60mm
- Diameters: 4” - 8” (101mm - 203mm)
- Belt Widths: 24” - 120” (609mm - 3,048mm)
- Single or double tube designs
- Stainless steel shaft and frame upgrades

Rock Face to Load Out™
MANUFACTURING LOCATIONS

STOCKING LOCATIONS

POWDER COAT

IDLER TESTING

LEAN MANUFACTURING
SPECIFICATIONS

<table>
<thead>
<tr>
<th>CLASS</th>
<th>BEARING</th>
<th>DIAMETER inch (mm)</th>
<th>SHELL THICKNESS inch (mm)</th>
<th>BELT WIDTH inch (mm)</th>
<th>TUBE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEMA B</td>
<td>17mm</td>
<td>4&quot;, 5&quot; (101, 127)</td>
<td>1/8&quot;, 5/32&quot; (3.1, 3.9)</td>
<td>18&quot; - 48&quot; (457 - 1,219)</td>
<td>Single</td>
</tr>
<tr>
<td>CEMA C</td>
<td>20mm</td>
<td>4&quot;, 5&quot;, 6&quot; (101, 127, 152)</td>
<td>1/8&quot;, 5/32&quot;, 3/16&quot; (3.1, 3.9, 4.7)</td>
<td>18&quot; - 60&quot; (457 - 1,524)</td>
<td>Single</td>
</tr>
<tr>
<td>CEMA D</td>
<td>25mm</td>
<td>5&quot;, 6&quot; (127, 152)</td>
<td>5/32&quot;, 3/16&quot; (3.9, 4.7)</td>
<td>24&quot; - 72&quot; (609 - 1,828)</td>
<td>Single</td>
</tr>
<tr>
<td>DX</td>
<td>30mm</td>
<td>5&quot;, 6&quot; (127, 152)</td>
<td>1/4&quot; (6.3)</td>
<td>30&quot; - 72&quot; (762 - 1,828)</td>
<td>Single</td>
</tr>
<tr>
<td>CEMA E</td>
<td>40mm</td>
<td>6&quot;, 7&quot; (152, 177)</td>
<td>1/4&quot; (6.3)</td>
<td>36&quot; - 96&quot; (914 - 2,438)</td>
<td>Single</td>
</tr>
<tr>
<td>400T</td>
<td>40mm</td>
<td>6&quot;, 7&quot; (152, 177)</td>
<td>1/4&quot; x 2 (6.3 x 2)</td>
<td>36&quot; - 72&quot; (914 - 1,828)</td>
<td>Double</td>
</tr>
<tr>
<td>450T</td>
<td>45mm</td>
<td>6&quot;, 7&quot;, 7.5&quot; (152, 177, 190)</td>
<td>1/4&quot; x 2 (6.3 x 2)</td>
<td>54&quot; - 108&quot; (1,371 - 2,743)</td>
<td>Double</td>
</tr>
<tr>
<td>CEMA F</td>
<td>50mm</td>
<td>7&quot;, 8&quot; (177, 203)</td>
<td>1/2&quot;, 3/4&quot; (12.7, 19.0)</td>
<td>42&quot; - 120&quot; (1,066 - 3,048)</td>
<td>Single</td>
</tr>
<tr>
<td>500T</td>
<td>50mm</td>
<td>7&quot;, 8&quot; (177, 203)</td>
<td>1/4&quot; x 2 (6.3 x 2)</td>
<td>42&quot; - 120&quot; (1,066 - 3,048)</td>
<td>Double</td>
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<tr>
<td>600T</td>
<td>60mm</td>
<td>7&quot;, 8&quot; (177, 203)</td>
<td>1/4&quot; x 2 (6.3 x 2)</td>
<td>60&quot; - 120&quot; (1,524 - 3,048)</td>
<td>Double</td>
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TROUGHING / CARRY IDLER STYLES

- Equal Troughing
- Moxie® Rolls
- Unequal Troughing
- CB504 Series
- Feeder/Picking
- Channel Mount Low Profile
- Impact
- Off Center Roll
- Wire Rope
- Variable Pitch
- Self-Aligner
- Steel Flat Carrier
- Rubber Flat Carries

RETURN / BOTTOM IDLER STYLES

- Return Roll
- Urathon® Return Roll
- Spiral Urathon® Return Roll
- Rubber Disc Return
- Navigator® Return Trainer
- Self-Aligner Return
- V-Return
- Garland
- Live Shaft Roller

Rock Face to Load Out™
SPINGUARD SEAL TECHNOLOGY

01/ FLAT SURFACE
Material will not build up across the flat end disc surface.

02/ STATIONARY EXTERNAL SEAL
Helps prevent material pinch points between the frame and the end of the roller.

03/ CENTRIFUGAL FORCE CHAMBER
Creates a self-cleaning flinger effect, keeping water and dirt out.

04/ CONTACT SEAL
First line of defense against contaminants is the contact seal, which creates less drag than a rubber seal.

05/ TRIPLE LABYRINTH SEAL
Second line of defense, which makes contaminants travel a longer distance. The labyrinth is also grease filled to keep contaminants away from the ball bearing. The durable seal material is less susceptible to corrosion.

06/ BALL BEARING
Factory sealed metric ball bearing on all CEMA rated idlers.

IDLER STAND FEATURES

01/ Open end base allows access for single or double bolt holes.

02/ No fugitive material pinch points between roll and frame.

03/ Narrow roll gap eliminates pinch point, which damages belt.

04/ Non-clogging center stands.

05/ Base angle sheds material and prevents build-up.

<table>
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<th>IDLER SPECIFICATIONS</th>
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<tr>
<td>Class</td>
</tr>
<tr>
<td>CEMA B</td>
</tr>
<tr>
<td>CEMA C</td>
</tr>
<tr>
<td>CEMA D</td>
</tr>
<tr>
<td>CEMA E</td>
</tr>
<tr>
<td>CEMA F</td>
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</tbody>
</table>

LOCKING TAB HOLDS ROLL TIGHT TO FRAME
DX IDLERS

» 1/4” (6mm) shell for increased roll life.
» Premium bearing for heavy-duty alternative to CEMA D.
» Seal resists moisture and harmful contaminants.

DOUBLE TUBE (DT) IDLER

» Increased rigidity with inner and outer tube.
» Inner tube insulates bearing from vibration.
» 20% higher load rating than CEMA.
» As outer shell wears, inner tube maintains integrity.
» Premium bearing for heavy-duty applications.
» Trusted by largest producers in the world:

HIGH PERFORMANCE RUBBER IMPACT IDLERS

» Shock absorbing rubber vulcanized directly to roll.
» Extend belt life in load zones.
» Special rubber can remain in operation until fully worn.
» No tire slippage common to rubber tires.
» Premium bearing for heavy-duty applications.
PART NUMBER GUIDE

Example: C6-35E-36

<table>
<thead>
<tr>
<th>CEMA Rating</th>
<th>Roll Diameter</th>
<th>Troughing Angle</th>
<th>Idler Type</th>
<th>Belt Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>B, C, D, E, F</td>
<td>4” - 8”</td>
<td>20˚, 35˚, 45˚</td>
<td>See Below</td>
<td>18” - 120”</td>
</tr>
</tbody>
</table>

IDLER TYPES

- **E** Troughing Idler Equal Length Rolls
- **EI** Rubber Cushion Troughing Idler
- **EA** Self-Aligner
- **BA** Bi-Directional Aligning Idler
- **RET** Return Idler
- **FLT** Flat Carrier Idler
- **FLTI** Flat Carrier Rubber Cushion Idler
- **RETI** Return Rubber Cushion Idler
- **RETU** Urathon® Return
- **RETV** Spiral Urathon® Return Roll
- **RETA** Return Self-Aligning Idler Roll
- **RETAI** Return Self-Aligning Rubber Cushion Idler
- **RETV** V-Return Idler
- **P** Picking Idler Length Rolls
- **U** Troughing Idler Unequal Length Rolls
- **CM** Low-Profile Channel Mount Idler
- **CMI** Channel Mount Impact Low Profile Idler
- **SM** Low-Profile Standard Mount Idler
- **SMI** Standard Mount Impact Low Profile Idler
- **GO** Offset Troughing Idler
- **EW** Wire Rope Idler
- **VPE** Variable Pitch Idler
- **MOX** Moxie® Roll
- **CB** CB504 Series
- **LS** Live Shaft
- **LSB** Live Shaft Beater

CUSTOM DESIGNED IDLERS

In 40+ years of manufacturing conveyor idlers, we’ve built a treasure trove of unique designs. If you have a special application or constantly fight disruption and maintenance using standard designs, we encourage you to contact us. Here is just a small sampling of some of our custom engineering and manufacturing.

- Lower Channel Idler
- Impact Cradle
- No Center Shift Idler Roller
- Assembly For Pipe Conveyor
- One Way Belt, Low Profile Idler
- Graduated Impact Bed
- Wire Rope Trainer
- Steep Troughing Idler
- 20˚-35˚ Impact Low Profile Idler
- Impact Center On Modular Bed
- Cleated Belt Roller
- Urethane Stub Roller
- Deep Angle, Extra Long Idler
- Adjustable Wing Roller Bed
- Heavy Duty V-Return Idler
- High Angle Conveyor Pressure Idler
- Spiral Urathon® Return Roll
- Pressure Idler
- Spiral Urathon® Return Roll