InnerDrive
Move the motor inside the conveyor
Easy Application Integration

The variable speed control card integrates easily with automation systems for “run-on-demand” applications, using inhibit/run controls from devices such as timers and photo-eyes. Lighted indicators identify status at a glance. The card can be frame-mounted or mounted in a NEMA 12 control box (shown at right).

Belts for Any Application

More than 50 belt styles are available to fit your application, including a variety of cleated belts.

Reduce Downtime

The unique snap-in sealed tail assembly makes belt changes quick and easy. Lube-for-Life bearings eliminate the need for bearing re-lubrication and the danger of leaking grease.

Low Profile Design

Only 2.54” tall, these conveyors will fit almost any application.

Easy Application Integration

The variable speed control card integrates easily with automation systems for “run-on-demand” applications, using inhibit/run controls from devices such as timers and photo-eyes. Lighted indicators identify status at a glance. The card can be frame-mounted or mounted in a NEMA 12 control box (shown at right).
Integrated internal gears give you maximum torque, speeds up to 50 feet per minute and loads up to 75 lbs. The integrated motor makes InnerDrive Conveyors maintenance-free, freeing you from lubricating bearings or drive packages. The motor’s low voltage protects workers from dangerous currents.

Safe, Efficient 24vdc Motor

Available in horizontal conveyors or angled-frame models with our unique Z-Track™ technology to keep tracking simple. Choose from Z, L or R configurations.
### Belts

<table>
<thead>
<tr>
<th>Surface Description</th>
<th>Ordering Code</th>
<th>Surface Material</th>
<th>FDA</th>
<th>Anti-Static</th>
<th>Tops Side Coefficient of Friction</th>
<th>Short Term Part Max Temp. (°F)</th>
<th>Max Ambient Operating Temp. (°F)</th>
<th>Average Belt Thickness (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Purpose</td>
<td>MAA</td>
<td>Smooth Urethane</td>
<td>✓</td>
<td>✓</td>
<td>Low</td>
<td>212</td>
<td>176</td>
<td>0.075</td>
</tr>
<tr>
<td>High-Friction</td>
<td>FAA</td>
<td>Snakeskin PVC</td>
<td>✓</td>
<td>✓</td>
<td>High</td>
<td>212</td>
<td>176</td>
<td>0.103</td>
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<tr>
<td></td>
<td>FAC</td>
<td>Smooth Silicone</td>
<td>✓</td>
<td>✓</td>
<td>High</td>
<td>212</td>
<td>176</td>
<td>0.072</td>
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<tr>
<td></td>
<td>FAD</td>
<td>Longitudinal Groove PVC</td>
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<td>High</td>
<td>194</td>
<td>158</td>
<td>0.083</td>
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</tr>
<tr>
<td></td>
<td>FAF*</td>
<td>Rough Top PVC</td>
<td>✓</td>
<td>High</td>
<td>212</td>
<td>176</td>
<td>0.185</td>
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<tr>
<td>Accumulation (Low Friction)</td>
<td>AAA</td>
<td>Fabric Urethane</td>
<td>✓</td>
<td>Very Low</td>
<td>212</td>
<td>176</td>
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<tr>
<td></td>
<td>AAC</td>
<td>Fabric Urethane Impreg.</td>
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<td>212</td>
<td>0.051</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AAE</td>
<td>Fabric Urethane Impreg.</td>
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<td>Very Low</td>
<td>175</td>
<td>175</td>
<td>0.054</td>
<td></td>
</tr>
<tr>
<td>Heat Resistant</td>
<td>HAA</td>
<td>Fine Texture Silicone</td>
<td>✓</td>
<td>Medium</td>
<td>356</td>
<td>356</td>
<td>0.059</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HAC</td>
<td>Smooth Silicone</td>
<td>✓</td>
<td>Medium</td>
<td>356</td>
<td>302</td>
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<tr>
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<td>Dimple Top Hard Urethane</td>
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<td>High</td>
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<td>212</td>
<td>0.083</td>
<td></td>
</tr>
<tr>
<td>FDA/USDA</td>
<td>UAC</td>
<td>Matte Urethane</td>
<td>✓</td>
<td>✓</td>
<td>Low</td>
<td>230</td>
<td>194</td>
<td>0.061</td>
</tr>
<tr>
<td>Static Conductive</td>
<td>EAA</td>
<td>Textured Urethane Impreg.</td>
<td>10^4 Ω</td>
<td>Medium</td>
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<td>176</td>
<td>0.063</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EAC</td>
<td>Smooth Urethane</td>
<td>10^5 Ω</td>
<td>Low</td>
<td>158</td>
<td>158</td>
<td>0.040</td>
<td></td>
</tr>
<tr>
<td>Color Contrasting</td>
<td>PAE</td>
<td>Smooth PVC</td>
<td>Medium</td>
<td>212</td>
<td>176</td>
<td>0.071</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

More than 50 styles of belting are available, please contact the B & C for more information or visit our website - [www.bandcip.com](http://www.bandcip.com).

* Subtract 10 lbs. from conveyor max load capacity
**Sides & Guides**

**1/3” Aluminum Extruded High Sides**
Part # 125–0153–LLL

**1/3” Aluminum Extruded High Sides with Seals (pictured)** *
Part # 125–0169–LLL

**1/3” Aluminum Extruded High Sides with Wear Strip**
Part # 125–0170–LLL

To Order: Replace the last three digits of the part number (“LLL”) with the nominal conveyor length in inches. Side rails start 1 11/16” from the tail end and stop 3 1/2” from the drive end. Ex. 125–0153–048 for 48” long 1/3” sides.

**1” Aluminum Extruded High Sides**
Part # 125–0174–LLL

**1” Aluminum Extruded High Sides with Seals** *
Part # 125–0177–LLL

**1” Aluminum Extruded High Sides with Wear Strip (pictured)**
Part # 125–0178–LLL

To Order: Replace the last three digits of the part number (“LLL”) with the nominal conveyor length in inches. Side rails start 1 11/16” from the tail end and stop 3 1/2” from the drive end. Ex. 125–0174–048 for 48” long 1” sides.

**2” Aluminum Extruded High Sides (pictured)**
Part # 125–0215–LLL

**2” Aluminum Extruded High Sides with Seals** *
Part # 125–0217–LLL

**2” Aluminum Extruded High Sides with Wear Strip**
Part # 125–0216–LLL

To Order: Replace the last three digits of the part number (“LLL”) with the nominal conveyor length in inches. Side rails start 1 11/16” from the tail end and stop 3 1/2” from the drive end. Ex. 125–0216–048 for 48” long 2” sides.

* Side seals are not intended for cleated belts, high friction belts, or belt speeds exceeding 30 FPM.

**1” High 2-Axis Adjustable Guides**
Part # 125–0281–LLL–T/S

**2” High 2-Axis Adjustable Guides**
Part # 125–0282–LLL–T/S

**3” High 2-Axis Adjustable Guides**
Part # 125–0283–LLL–T/S

To Order: Replace the last three digits of the part number (“LLL”) with the nominal conveyor length in inches. Choose a set screw (S) or thumb wheel (T; pictured) adjustment by adding the appropriate letter to the end of the part number. Ex. 125–0281–120–T for 120” long 1” guides with thumb wheel adjustment.

**Flared Side Rail**
Part # Z–1004–LLL (Set of 2)
Require adjustable guides; available in lengths 12”–48” in 6” increments. Order one size smaller than conveyor length. **To Order:** Replace “LLL” with desired length.

**End Stops**
Part # 125–0234–WW
Used in conjunction with flared side rails. Swing gate accommodates 1” or 2” cleats. **To Order:** Replace “WW” with nominal conveyor width.

**Adjustable Hopper**
Used in conjunction with flared side rails to create a drop zone on the conveyor. **To Order:** Order 2 End Stops (Part # 125–0234–WW) in addition to Flared Side Rails (Part # Z–1004–LLL).
**Mounts**

Universal Adjustable Side Mount
Frame mounted version attaches directly to the frame with mounting holes every 3" (compatible with cleats 1" or lower). Tee slot mounted version attaches to single tee slot, and 1" or 2" side rails (compatible with cleats 1/2" or lower).

Part # 125–0181–01 (Tee Slot)
Part # 125–0181–04 (Frame Mounted)

Universal Raised Side Mount
Frame mounted version attaches directly to the frame with mounting holes every 3". Tee slot mounted version attaches to single tee slot, and 1" or 2" side rails. Both are compatible with cleats of any height.

Part # 125–0182–01 (Tee Slot)
Part # 125–0182–04 (Frame Mounted)

Universal Bottom Mount
Attaches directly to the underside of the conveyor frame to attach conveyor to a horizontal or vertical surface. Not compatible with cleated or high-friction belts. To order: Use the part number below and replace the last two digits (“WW”) with the nominal conveyor width in inches.

Part # 125–0011–WW

**Stands**

Aluminum Exact Width Conveyor Stands
Part # 0182–H1–H2–WW (1 stand)

**Stand Height Range (in inches):**

\[
<table>
<thead>
<tr>
<th>H1 - H2</th>
<th>H1 - H2</th>
<th>H1 - H2</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 - 09</td>
<td>24 - 27</td>
<td>42 - 45</td>
</tr>
<tr>
<td>09 - 12</td>
<td>27 - 30</td>
<td>45 - 48</td>
</tr>
<tr>
<td>12 - 15</td>
<td>30 - 33</td>
<td>48 - 51</td>
</tr>
<tr>
<td>15 - 18</td>
<td>33 - 36</td>
<td>51 - 54</td>
</tr>
<tr>
<td>18 - 21</td>
<td>36 - 39</td>
<td>54 - 57</td>
</tr>
<tr>
<td>21 - 24</td>
<td>39 - 42</td>
<td>57 - 60</td>
</tr>
</tbody>
</table>
\]

**To Order:** Choose height range above and replace “H1” and “H2” in part number. Remember: Conveyor profile adds 2.54" to height. Replace “WW” with nominal conveyor width in inches.

Note: No additional mounts are required.

Steel Telescoping Conveyor Stands
Part # 0184–H1–H2–WW (1 stand)

**Stand Height Range (in inches):**

\[
<table>
<thead>
<tr>
<th>H1 - H2</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 - 24</td>
</tr>
<tr>
<td>23 - 36</td>
</tr>
<tr>
<td>35 - 48</td>
</tr>
<tr>
<td>47 - 60</td>
</tr>
</tbody>
</table>
\]

**To Order:** Choose height range above and replace “H1” and “H2” in part number. Conveyor profile adds 2.54" to height. Replace “WW” with desired top plate width (see below).

**Top Plate Width (inches):**

- For conveyor widths up to 12": 14"
- For conveyor widths up to 18": 21"
- For conveyor widths up to 24": 27"

Note: Mounts are required to attach conveyor to stands (see above).

**Angle Brace**
Part # 125–0189–00 (set of 2)

For use with aluminum stands only. Can be used on conveyors 5’ or longer with a minimum top of belt height of 28”. When used with casters, angle braces must be used on both stands.

**Aluminum Cross Ties**
Part #125–0235–LLL (set of 2)

Replace “LLL” with desired length in inches from table below. Customer must cut cross ties to final length.

<table>
<thead>
<tr>
<th>024</th>
<th>036</th>
<th>048</th>
<th>060</th>
</tr>
</thead>
<tbody>
<tr>
<td>072</td>
<td>096</td>
<td>120</td>
<td>144</td>
</tr>
</tbody>
</table>
### Step 1: Construction Type and Frame

<table>
<thead>
<tr>
<th>Construction</th>
<th>Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>C</td>
</tr>
<tr>
<td>R</td>
<td>F</td>
</tr>
</tbody>
</table>

### Step 2: Width and Length

<table>
<thead>
<tr>
<th>Width</th>
<th>Lengths (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot;</td>
<td>024 036 048 060 072 096 120 144</td>
</tr>
<tr>
<td>18&quot;</td>
<td>024 036 048 060 072 096 120 144</td>
</tr>
<tr>
<td>24&quot;</td>
<td>036 048 060 072 096 120 144</td>
</tr>
</tbody>
</table>

### Step 3: Motor Options and Control Wire Position

<table>
<thead>
<tr>
<th>Max Speed</th>
<th>Max Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 fpm</td>
<td>50 lbs.</td>
</tr>
<tr>
<td>75 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

Choose control wire position.

### Step 4: Belt

For flat belt applications: Choose belt style from the belt selection page; enter ordering code. Omit last three digits of part number. MAA belt is standard.

For cleated belt applications: Choose a base belt material and cleat height below. Enter the belt ordering code. Then, multiply the conveyor length (in inches) by two, and divide by the desired spacing between the cleats (in inches). This will result in the total number of cleats evenly spaced around the circumference of the belt which should be indicated in the final three digits of the part number. Note: The number of cleats must be a whole number.

#### Base Belt Material

<table>
<thead>
<tr>
<th>5mm</th>
<th>19mm</th>
<th>1/2&quot;</th>
<th>3/4&quot;</th>
<th>1&quot; w/ corrs.</th>
<th>1&quot;</th>
<th>2&quot;</th>
<th>3&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAB</td>
<td>CAD</td>
<td>CAE</td>
<td>CAF</td>
<td>CAH*</td>
<td>CAG</td>
<td>CAI</td>
<td>CAK</td>
</tr>
<tr>
<td>CAB</td>
<td>CBM</td>
<td>CBE</td>
<td>CBF</td>
<td>CBH*</td>
<td>CBG</td>
<td>CBI</td>
<td>CBK</td>
</tr>
</tbody>
</table>

#### Example

Example: A conveyor 48" long with 1/2" cleats spaced every 6" would use belt CAE016 - \((48 \times 2) / 6 = 16\) cleats. * Subtract 15 lbs. from conveyor max load capacity

### Step 5: Controller and Power Supply (Choose One)

#### Plug-and-Play Controller

Part #ID-CBX-LLL-A-01

Includes: NEMA 12 Box, 24vdc power supply, control card, cable. Wiring is completed at the factory. To Order: Replace “LLL” with desired control wire length from table below.

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>Note: Max distance from roller to control card is 96&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot;</td>
<td>012</td>
<td></td>
</tr>
<tr>
<td>24&quot;</td>
<td>024</td>
<td></td>
</tr>
<tr>
<td>48&quot;</td>
<td>048</td>
<td></td>
</tr>
<tr>
<td>96&quot;</td>
<td>096</td>
<td></td>
</tr>
</tbody>
</table>

#### Control Card*

Part #ID-CC-LLL-A-01

Includes frame-mounted control card and cable. To Order: Replace “LLL” with desired control wire length from table below.

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>Note: Max distance from roller to control card is 96&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot;</td>
<td>012</td>
<td></td>
</tr>
<tr>
<td>24&quot;</td>
<td>024</td>
<td></td>
</tr>
<tr>
<td>48&quot;</td>
<td>048</td>
<td></td>
</tr>
<tr>
<td>96&quot;</td>
<td>096</td>
<td></td>
</tr>
</tbody>
</table>

* A 24vdc (6.5 amp) power supply is required (QC Industries Part #ID-PS-001 or may be customer supplied).

#### Example

Part #1MSCH18-060-AACA-MAA is an 18" wide, 60" long conveyor, standard, powder coated frame, 50fpm, right side control wire, MAA belt. Also required (assumes 96" control wires): Part #ID-CBX-096-A-01 (Plug-and-Play) or Part #ID-CC-096-A-01 (Integration Kit) with Part #ID-PS-001 (Power Supply).
### Specifications

#### Available Widths
- 12", 18", 24"

#### Available Lengths
- 24" to 144"
  Actual conveyor length for conveyors 78" or longer is nominal length minus 1.12"; for conveyors under 78" subtract .81" from nominal length.

#### Available Speeds
- Incrementally variable speeds from 7 to 50 feet per minute (fpm)

#### Frame Construction
- Epoxy powder coated steel OR stainless steel

#### Motor
- Long life – 15,000 hours
- Sealed construction design
- IP-54 rating

#### Load Capacity
- 12" 50lbs. @ 50fpm
- 18", 24" 75 lbs. @ 50fpm

#### Rated Power
- 12" .09hp (65 watts)
- 18", 24" .11hp (80 watts)

#### Input Voltage
- 115vac / 230vac, 1ph

#### Motor Voltage
- 24dc brushless

#### Available Control Wire Lengths
- 12", 24", 48", 96"

#### Available Options
- 24dc power supply
  - UL listed NEMA 12 control panel

#### Controller Specifications
- Variable speed (in increments) via dip switches
- Run/Stop input
- LED status indicators
- Built-in thermal overload protection
- NEMA Type 1
- Accelerate/Decelerate Capable

#### Available Conveyor Styles
- Horizontal Conveyor
- Angled Frame Conveyor

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Specifications are subject to change as technologies improve. For the most up-to-date specifications please consult the factory or visit www.qcindustries.com.