Belt Driven Live Roller Conveyors

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Transportation Type ............................................... 200

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Model BDRE-T provides a versatile means of transporting products of varying sizes and shapes. The tread rollers are driven by a belt which is forced against the tread roller by a pressure roller.

- Bolt-Together Construction
- 6 1/2 in. x 1 1/2 in. x 12 ga. Galvanized Frame
- Between Frame Widths 13 in. Through 39 in.
- Reversible (With Center Drive)

**Standard Specifications:**

- **Belt** - 6 in. wide PVC-120 with clipper lacing. 12 in. wide for 32 in. between frame and larger.
- **Bed** - Roller bed with 1.9 in. dia. x 16 ga. galvanized “pop-out” tread rollers spaced on 3 in. centers and 1.9 in. dia. x 16 ga. galvanized pressure rollers spaced on 6 in. centers. Mounted in 6 1/2 in. deep x 1 1/2 in. x 12 ga. galvanized steel channel frames. Standard 5 ft. and 10 ft. long bolt-together sections with bolt-on end couplers.
- **Floor Supports** - Adjustable 34 1/2 in. to 39 in. top of roller with 4 in. drive or 33 1/2 in. to 39 in. for 8 in. drive. One support at every bed joint and at ends of conveyor.
- **Cross Bracing** - Rods with turn buckles supplied on every other section for conveyors 30 ft. and longer. Allows frame to be squared to improve belt tracking.
- **Drive Pulley** - 4 in. dia. with 1 3/16 in. dia. shaft or 8 in. dia. with 1 17/16 in. dia. shaft, crowned and fully lagged.
- **Tail Pulley** - 4 in. dia. with 1 3/16 in. dia. shaft, crowned.
- **Snub Roller** - 2 1/2 in. dia. galvanized with grease packed ball bearings (adjustable).
- **Return Rollers** - 1.9 in. dia. galvanized with grease packed ball bearings.
- **Take-Up** - Provides belt take-up at tail pulley to allow for future belt stretch.
- **Bearings** - Sealed, pre-lubricated, self-aligning ball bearings on drive and tail pulleys.
- **Conveying Speed** - Constant 60 FPM.
- **Speed Reduction** - Sealed worm gear “C” face speed reducer with No. 50 chain to drive pulley.
- **Motor** - 1/2 HP - 230/460 V - 3 Phase - 60 Hz. - totally enclosed, fan cooled.
- **Electrical Controls** - Available as option.
- **Frame Capacity** - Max. load per linear foot with legs on 10 ft. centers = 310 lbs. Not to exceed capacities in chart on next page.

**CONVEYOR WEIGHT (LBS.)**

<table>
<thead>
<tr>
<th>OAL</th>
<th>14&quot;</th>
<th>18&quot;</th>
<th>22&quot;</th>
<th>26&quot;</th>
<th>30&quot;</th>
<th>32&quot;</th>
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<td>230</td>
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<td>295</td>
<td>330</td>
<td>380</td>
<td>431</td>
<td>480</td>
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<tr>
<td>10'</td>
<td>357</td>
<td>410</td>
<td>462</td>
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<td>598</td>
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<tr>
<td>15'</td>
<td>486</td>
<td>559</td>
<td>632</td>
<td>707</td>
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<tr>
<td>20'</td>
<td>614</td>
<td>707</td>
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<tr>
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<td>1301</td>
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<td>1648</td>
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<td>2173</td>
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<td>3336</td>
<td>3726</td>
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<td>3503</td>
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<td>4539</td>
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</tr>
</tbody>
</table>

*Other widths are available as standard from 13" through 39".*

**NOTE:** A short belt segment laced on both ends, commonly called a “dutchman”, is provided with conveyors over 47 ft. OAL. This allows future belt stretch with standard end take-up. If a short segment is not desired, a center drive/take-up is required.
### 4 in. End Drive

**4' DRIVE SECTION**
- 1/4"
- 4' DIA. DRIVE PULLEY

**INTERMEDIATE SECTIONS**
- 1.9" DIA. "POP-OUT" TREAD ROLLER

**5' TAKE-UP SECTION**
- 4' DIA. TAIL PULLEY

**Overall Conveyor Length (O.A.L.)**
- 5'

**Belt Driven Live Roller Conveyors**

**Standard Right-Hand Drive Location**

**DRIVE GUARD**

### 8 in. End Drive

**8' DIA. DRIVE PULLEY**

<table>
<thead>
<tr>
<th>Between Frames Width (13' Through 39')</th>
<th>Overall Length (5' to 100')</th>
</tr>
</thead>
<tbody>
<tr>
<td>5' to 100'</td>
<td>1 3/4 - 3 - 0 - T</td>
</tr>
<tr>
<td>13' to 39'</td>
<td>(T) Transportation Type</td>
</tr>
<tr>
<td>Horsepower</td>
<td>(4) 4&quot; dia. Drive Pulley</td>
</tr>
<tr>
<td>Angle of Incline (°)</td>
<td>(8) 8&quot; dia. Drive Pulley</td>
</tr>
<tr>
<td>Speed (FPM)</td>
<td>(1/4 HP to 2 HP)</td>
</tr>
<tr>
<td>Tail Pulley</td>
<td>(F) Fixed Speed</td>
</tr>
<tr>
<td>Other Drive Types</td>
<td>(V) Variable Speed</td>
</tr>
<tr>
<td>Standard Right-Hand Drive Location</td>
<td></td>
</tr>
<tr>
<td>Drive Guard</td>
<td></td>
</tr>
</tbody>
</table>

### Optional Equipment:

**Belt** - 3-ply neoprene friction surface.

**Conveying Speed** - Constant and variable speeds available other than standard 60 FPM.

**Center Drive** - Provides additional belt take-up and is suitable for reversible applications.

**Roller Centers** - Tread rollers spaced on 4 in., 6 in., 8 in. or 9 in. centers. **CAUTION:** With tread rollers on centers over 3 in. there is an increased likelihood of a person’s hand, foot, clothing, etc. slipping between the rollers. OMNI MUST RECEIVE WRITTEN ACKNOWLEDGMENT that the end user is aware of the potential safety hazard and will safeguard accordingly.

**Fixed Angle Guard Rails** - 1 1/2 in. x 2 in. or 1 1/2 in. x 6 in. formed 12 ga. galvanized angle. Other heights available. Channel types available. One or both sides. Spaced up to allow rollers to pop out.

**Note:** If product contacts guard rail, product flow may be affected.

**Floor Supports** - Heights available up to 84 in. top of leg.

**Ceiling Hangers** - 5/8 in. dia. x 10 ft. long threaded rod with mounting hardware. Other lengths available.

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**Maximum Uniformly Distributed Live Load**

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>1/2</td>
<td>650</td>
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<td>1</td>
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<td>1400</td>
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<tr>
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<td>5400*</td>
<td>4300*</td>
<td>3600*</td>
</tr>
<tr>
<td>2</td>
<td>3400*</td>
<td>2000</td>
<td>2780</td>
</tr>
</tbody>
</table>

*8 in. dia. drive pulley in lieu of 4 in. dia. drive pulley

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**Transportation Type BDLR Model Number:**

- B D R E - 3 - 0 - T
- (T) Transportation Type
- (4) 4" dia. Drive Pulley
- (8) 8" dia. Drive Pulley
- Horsepower (1/4 HP to 2 HP)
- Angle of Incline (°)
- Speed (FPM)
- (F) Fixed Speed
- (V) Variable Speed

---

**Tail Pulley** - 6 in. dia. with 1 3/16 in. dia. shaft, crowned.

**Other Drive Types** - Shaft mount, side mount chain driven to allow lower top of belt.

**Motors** - Single phase, explosion proof, drip proof, DC motors, inverter duty, etc. Available through 2 HP.

**Electrical Controls** - Start-stop push-button station, reverse drum switch, one direction and reversible magnetic starters.

**Tread Rollers** - 1.9 in. dia. x .145 in. wall., 1.9 in. dia. x 13 ga.

**Blade Stops** - Pneumatically or manually operated blade that pops up between rollers in order to accumulate product.

**Pusher Device** - Used to automatically divert product. Ram head is pneumatically actuated to divert product at 90° onto another conveyor, chute, etc.

**Transfer Device** - Chain or V-Belt. An air operated lifting device that raises above the roller surface to transfer product off at 90°.

**Zero-Pressure Accumulation** - Allows product to accumulate without build-up of line pressure. Optional positive brakes for each zone. Sensor roller or photo-eye controlled logic.
Belt Driven Live Roller Conveyors

Model BDRE-M provides an inexpensive means of accumulating products with minimum back pressure. The tread rollers are driven by a belt which is forced against the tread roller by a pressure roller.

- Bolt-Together Construction
- 6 1/2 in. x 1 1/2 in. x 12 ga. Galvanized Frame
- Between Frame Widths 13 in. Through 39 in.
- Reversible (With Center Drive)

![Intermediate Cross Section](image)

**Standard Specifications:**

- **Belt**: 6 in. wide PVC-120 with clipper lacing. 12 in. wide for 32 in. between frame and larger.
- **Bed**: Roller bed with 1.9 in. dia. x 16 ga. galvanized “pop-out” tread rollers spaced on 3 in. centers and 1.9 in. dia. x 16 ga. galvanized pressure rollers spaced on 6 in. centers. Mounted in 6 1/2 in. deep x 1 1/2 in. x 12 ga. galvanized steel channel frames. Standard 5 ft. and 10 ft. long bolt-together sections with bolt-on end couplers.
- **Floor Supports**: Adjustable 34 1/2 in. to 39 in. top of roller with 4 in. drive or 33 1/2 in. to 39 in. for 8 in. drive. One support at every bed joint and at ends of conveyor.
- **Cross Bracing**: Rods with turn buckles supplied on every other section for conveyors 30 ft. and longer. Allows frame to be squared to improve belt tracking.
- **Drive Pulley**: 4 in. dia. with 1 3/16 in. dia. shaft or 8 in. dia. with 1 7/16 in. dia. shaft, crowned and fully lagged.
- **Tail Pulley**: 4 in. dia. with 1 3/16 in. dia. shaft, crowned.
- **Snub Roller**: 2 1/2 in. dia. galvanized with grease packed ball bearings (adjustable).
- **Return Rollers**: 1.9 in. dia. galvanized with grease packed ball bearings.
- **Take-Up**: Provides belt take-up at tail pulley to allow for future belt stretch.
- **Bearings**: Sealed, pre-lubricated, self-aligning ball bearings on drive and tail pulleys.
- **Conveying Speed**: Constant 60 FPM.
- **Speed Reduction**: Sealed worm gear “C” face speed reducer with No. 50 chain to drive pulley.
- **Motor**: 1/2 HP - 230/460 V - 3 Phase - 60 Hz. - totally enclosed, fan cooled.
- **Electrical Controls**: Available as option.
- **Frame Capacity**: Max. load per linear foot with legs on 10 ft. centers = 310 lbs. Not to exceed capacities in chart on next page.

**Model BDRE-M**

**CONVEYOR WEIGHT (LBS.) BETWEEN FRAME (BF)**

<table>
<thead>
<tr>
<th>OAL</th>
<th>14&quot;</th>
<th>18&quot;</th>
<th>22&quot;</th>
<th>26&quot;</th>
<th>32&quot;</th>
<th>38&quot;</th>
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<tbody>
<tr>
<td>5'</td>
<td>231</td>
<td>263</td>
<td>297</td>
<td>331</td>
<td>382</td>
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<tr>
<td>10'</td>
<td>359</td>
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<td>465</td>
<td>519</td>
<td>600</td>
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</table>

* Other widths are available as standard from 13" through 39".

**NOTE**: A short belt segment laced on both ends, commonly called a “dutchman”, is provided with conveyors over 47 ft. OAL. This allows future belt stretch with standard end take-up. If a short segment is not desired, a center drive/take-up is required.
### 4 in. End Drive

![Diagram of 4 in. End Drive]

**Optional Equipment:**
- **Belt**: 3-ply neoprene friction surface.
- **Conveying Speed**: Constant and variable speeds available other than standard 60 FPM.
- **Center Drive**: Provides additional belt take-up and is suitable for reversible applications.
- **Roller Centers**: Tread rollers spaced on 4 in., 6 in., 8 in. or 9 in. centers. CAUTION: With tread rollers on centers over 3 in. there is an increased likelihood of a person's hand, foot, clothing, etc. slipping between the rollers. OMNI MUST RECEIVE WRITTEN ACKNOWLEDGMENT that the end user is aware of the potential safety hazard and will safeguard accordingly.
- **Fixed Angle Guard Rails**: 1 1/2 in. x 2 in. or 1 1/2 in. x 6 in. formed 12 ga. galvanized angle. Other heights available. Channel types available. One or both sides. Spaced up to allow rollers to pop out.
- **Note**: If product contacts guard rail, product flow may be affected.
- **Floor Supports**: Heights available up to 84 in. top of leg.
- **Ceiling Hangers**: 5/8 in. dia. x 10 ft. long threaded rod with mounting hardware. Other lengths available.
- **Tail Pulley**: 6 in. dia. with 1 3/16 in. dia. shaft, crowned.

### 8 in. End Drive

![Diagram of 8 in. End Drive]

**Maximum Uniformly Distributed Live Load**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td></td>
<td>5 - 50 ft.</td>
<td>55 - 100 ft.</td>
<td>5 - 50 ft.</td>
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<td>- -</td>
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</tr>
<tr>
<td>2</td>
<td>5400*</td>
<td>4300*</td>
<td>5000*</td>
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</table>

*8 in. dia. drive pulley in lieu of 4 in. dia. drive pulley

**Minimum Pressure Type BDLR Model Number:**

```
B D L R
(E) End Drive
(C) Center Drive
(S) Shaft Mount
Between Frames Width (13° Through 39°)
Roller Centers (3")
Overall Length (5" to 100")
(M) Minimum Pressure Type
(4) 4" dia. Drive Pulley
(8) 8" dia. Drive Pulley
Horsepower (1/4 HP to 2 HP)
Angle of Incline (0°)
Speed (FPM)
(F) Fixed Speed
(V) Variable Speed
```

**Other Drive Types**: Shaft mount, side mount chain driven to allow lower top of belt.

**Motors**: Single phase, explosion proof, drip proof, DC motors, inverter duty, etc. Available through 2 HP.

**Electrical Controls**: Start-stop push-button station, reverse drum switch, one direction and reversible magnetic starters.

**Tread Rollers**: 1.9 in. dia. x .145 in. wall, 1.9 in. dia. x 13 ga.

**Blade Stops**: Pneumatically or manually operated blade that pops up between rollers in order to accumulate product.

**Pusher Device**: Used to automatically divert product. Ram head is pneumatically actuated to divert product at 90° onto another conveyor, chute, etc.

**Transfer Device**: Chain or V-Belt. An air operated lifting device that raises above the roller surface to transfer product off at 90°.

**Zero-Pressure Accumulation**: Allows product to accumulate without build-up of line pressure. Optional positive brakes for each zone. Sensor roller or photo-eye controlled logic.

---

Omni Metalcraft Corp.

(989) 358-7000
Model MBDL is a welded version of Model BDRE-T on page 196. This allows greater frame capacity and wider between frame dimensions. It is an economical choice for products too large for the bolt-together version.

Model MBDL

Intermediate Cross Section

Standard Specifications:
- **Belt** - 6 in. wide PVC-120 with hidden clipper lacing. 12 in. wide for 32 in. between frame and larger.
- **Bed** - Roller bed with 1.9 in. dia. x 16 ga. galvanized or 1.9 in. dia. x .145 in. wall unplated "pop-out" tread rollers spaced on 3 in. centers and 1.9 in. dia. x 16 ga. galvanized pressure rollers spaced on 6 in. centers. Mounted in 6 1/2 in deep x 1 1/2 in. x 10 ga. painted steel channel frames. Standard 5 ft. and 10 ft. long welded sections with welded-in end couplers.
- **Floor Supports** - 3 in. structural channel legs with 4 in. adjustment. Available up to 89 in. top of roller. One support at every bed joint and at ends of conveyor.
- **Drive Pulley** - 4 in. dia. with 1 3/16 in. dia. shaft, 8 in. dia. with 1 7/16 in. dia. shaft or 1 11/16 in. dia. shaft, crowned and fully lagged.
- **Tail Pulley** - 4 in. dia. with 1 3/16 in. dia. shaft, 6 in. dia. with 1 7/16 in. dia. shaft, crowned.
- **Snub Roller** - 2 1/2 in. dia. galvanized with grease packed ball bearings (adjustable).

Return Roller - 1.9 in. dia. galvanized with grease packed ball bearings.

**Take-Up** - Provides belt take-up at tail pulley to allow for future belt stretch.

**Bearings** - Sealed, pre-lubricated, self-aligning ball bearings on drive and tail pulleys.

**Conveying Speed** - Constant 60 FPM.

**Speed Reduction** - Sealed worm gear base mount speed reducer with No. 50 chain to drive shaft.

**Motor** - 1/2 HP - 230/460 V - 3 Phase - 60 Hz. - totally enclosed, fan cooled.

**Electrical Controls** - Available as option.

**Frame Capacity** - Max. load per linear foot with legs on 10 ft. centers = 360 lbs. Not to exceed capacities in chart on next page.

**Welded Construction**

**6 1/2 in. x 1 1/2 in. x 10 ga. Frame**

**Between Frame Widths 13 in. Through 50 in.**

**Reversible (With Center Drive)**

**1.9 in. dia. x 16 ga. Galvanized Tread Rollers For 13 in. - 39 in. Between Frames**

**1.9 in. dia. x .145 in. Wall Unplated Tread Rollers For 40 in. - 50 in. Between Frames**

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**CONVEYOR WEIGHT (LBS.)**

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<th>OAL</th>
<th>18&quot;</th>
<th>22&quot;</th>
<th>26&quot;</th>
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Note: Other widths are available as standard from 13" through 50".
**Optional Equipment:**

- **Belt** - 3-ply neoprene friction surface.
- **Conveying Speed** - Constant and variable speeds available other than standard 60 FPM.
- **Center Drive** - Provides additional belt take-up and is suitable for reversible applications.
- **Roller Centers** - Tread rollers spaced on 4 in., 6 in., 8 in. or 9 in. centers. **CAUTION:** With tread rollers on centers over 3 in. there is an increased likelihood of a person's hand, foot, clothing, etc. slipping between the rollers. OMNI MUST RECEIVE WRITTEN ACKNOWLEDGMENT that the end user is aware of the potential safety hazard and will safeguard accordingly.
- **Fixed Angle Guard Rails** - 1 1/2 in. x 2 in. or 1 1/2 in. x 6 in. formed 10 ga. Other heights available. Channel types available. One or both sides. Spaced up to allow rollers to pop out. **Note:** If product contacts guard rail, product flow may be affected.
- **Floor Supports** - Larger structural channel legs available.
- **Ceiling Hangers** - 1/4 in. formed angle mounted to underside of conveyor. Hanging hardware not included.
- **Tread Rollers** - 1.9 in. dia. x 13 ga. rollers. 2 1/2 in. dia. x 11 ga. is also available but requires 7 in. high frame.

**Other Drive Types** - Shaft mount, side mount chain driven to allow lower top of belt.
- **Motors** - Single phase, explosion proof, drip proof, DC motors, inverter duty, etc. Available through 2 HP.
- **Electrical Controls** - Start/stop push-button station, reverse drum switch, one direction and reversible magnetic starters.
- **Blade Stops** - Pneumatically or manually operated blade that pops up between rollers in order to accumulate product.
- **Pusher Device** - Used to automatically divert product. Ram head is pneumatically actuated to divert product at 90° onto another conveyor, chute, etc.
- **Transfer Device** - Chain or V-Belt. An air operated lifting device that raises above the roller surface to transfer product off at 90°.
- **Minimum Pressure Accumulation** - Provides an inexpensive means of accumulating products with minimum back pressure.
- **Zero-Pressure Accumulation** - Allows product to accumulate without build-up of line pressure. Optional positive brakes for each zone. Sensor roller or photo-eye controlled logic.

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**4 in. End Drive**

**8 in. End Drive**

**Standard Right-Hand Drive Location**
Model HDBD is ideal for applications conveying heavy palletized or other similar product that may be side loaded and unloaded from a relatively low elevation (12 in. minimum). Zero-Pressure Accumulation is also an option.

- **Welded Construction**
- **11 3/4 in. x 1 1/2 in. x 7 ga. Frame**
- **Between Frame Widths Up To 85 in.**
- **Reversible (With Center Drive)**

### CONVEYOR WEIGHT (LBS.)

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*Other widths are available as standard from 39" through 85".*

### Standard Specifications:

**Belt** - PVC-120 with hidden clipper lacing BF dependent.

**Bed** - Roller bed with 2 1/2 in. dia. x 11 ga. “pop-out” tread rollers spaced on 3 in. centers and 1.9 in. dia. x 16 ga. galvanized pressure rollers spaced on 6 in. centers. Mounted in 11 3/4 in. deep x 1 1/2 in. x 7 ga. painted steel channel frames. Standard 5 ft. and 10 ft. long welded sections with welded-in end couplers.

**Drive Pulley** - 8 in. dia. with 1 7/16 in. dia. shaft, crowned and fully lagged.

**Tail Pulley** - 4 in. dia. with 1 3/16 in. dia. shaft, crowned.

**Snub Roller** - 2 1/2 in. dia. with grease packed ball bearings (adjustable).

**Return Rollers** - 1.9 in. dia. galvanized with grease packed ball bearings.

**Floor Supports** - 4 in. structural channel legs with 4 in. adjustment. Available up to 89 in. top of roller. One support at every bed joint and at ends of conveyor.

**Take-Up** - Provides belt take-up at tail pulley to allow for future belt stretch.

**Bearings** - Sealed, pre-lubricated, self-aligning ball bearings on drive and tail pulleys.

**Conveying Speed** - Constant 30 FPM.

**Motor** - 1 HP - 230/460 V - 3 Phase - 60 Hz. - totally enclosed, fan cooled.

**Electrical Controls** - Available as option.

**Frame Capacity** - Max. load per linear foot with legs on 10 ft. centers = 1280 lbs. Not to exceed capacities in chart on next page.
Optional Equipment:

Belt - 3-ply neoprene friction surface.

Conveying Speed - Constant and variable speeds available other than standard 30 FPM.

Center Drive - Provides additional belt take-up and is suitable for reversible applications.

Roller Centers - Tread rollers spaced on 4 in., 6 in., 8 in. and 9 in. available. CAUTION: With tread rollers on centers over 3 in. there is an increased likelihood of a person’s hand, foot, clothing, etc. slipping between the rollers. OMNI MUST RECEIVE WRITTEN ACKNOWLEDGMENT that the end user is aware of the potential safety hazard and will safeguard accordingly.

Frames - MC 12 x 10.6# Junior Channel.

Fixed Angle Guard Rails - 1 1/2 in. x 2 in. or 1 1/2 in. x 6 in. formed 10 ga. Other heights available. Channel types available. One or both sides. Spaced up to allow rollers to pop out. Note: If product contacts guard rail, product flow may be affected.

Other Drive Types - Side mount chain driven to allow lower top of belt.

Motors - Single phase, explosion proof, drip proof, DC motors, inverter duty, etc. Available through 5 HP.

Electrical Controls - Start/stop push-button station, reverse drum switch, one direction and reversible magnetic starters.

Ceiling Hangers - 1/4 in. formed angle mounted to underside of conveyor. Hanging hardware not included.

Floor Supports - Larger structural channel legs available.

Blade Stops - Pneumatically or manually operated blade that pops up between rollers in order to accumulate product.

Tread Rollers - 2 9/16 in. OD x .180 in. wall unplated rollers, 11/16 in. hex spring retained axle or 3 1/2 in. OD x .300 in. wall unplated rollers, 1 1/16 in. hex spring retained axle.

Chain Transfer Device - An air operated lifting device that raises above the roller surface to transfer product off at 90°.

Turntable - Manual, hydraulic or gear motor operated turntable allows short conveyor mounts to rotate. Conveyor mounts to table surface.

Pivoting Device - Device used to pivot a short section conveyor about a fixed point while maintaining correct product orientation.

Iron Cross - Mechanism used to lift product above roller surface and rotate in 90° increments to change product orientation.

Transfer Car - Portable conveyors used to pick up and deliver product between parallel conveyor lines while maintaining correct product orientation.

Minimum Pressure Accumulation - Provides an inexpensive means of accumulating products with minimum back pressure.

Zero-Pressure Accumulation - Allows product to accumulate without build-up of line pressure. Optional positive brakes for each zone. Sensor roller or photoeye controlled logic.
The V-Belt Driven Live Roller Curve Conveyor is a live roller curve used to make 30°, 45°, 60° or 90° turns.

- 30°, 45°, 60° and 90° Curves
- 10 in. x 1 1/2 in. x 10 ga. Galvanized Frame on Tangents, 8 in. x 1 1/2 in. x 10 ga. Galvanized Frame on Curve
- Between Frame Widths 13 in. Through 39 in.

### Standard Specifications:

**Belt** - Endless “B” section V-belt.

**Frame** - 10 in. deep x 1 1/2 in. x 10 ga. galvanized steel channel frames with bolt on end couplers on tangents. 8 in. deep x 1 1/2 in. x 10 ga. galvanized steel channel frames on curve.

**Outside rail of curve has “triple-punched” hex holes to allow skewing of rollers which affects product tracking.**

**Curve Roller** - 2 1/2 in. dia. tapered to 1 11/16 in. dia. x 14 ga. zinc-plated rollers on 3 in. nom. centers. Grease-packed ball bearings. **Curve rollers do not represent true taper.**

**Tangent Roller** - 1.9 in. dia. x 16 ga. galvanized rollers on 3 in. centers. Grease-packed ball bearings.

**Floor Supports** - Adjustable 32 1/2 in. to 36 1/2 in. from floor to top of rollers. One support at ends of conveyor and one single leg support at center of curve.

**Driving Sheave** - 5 3/4 in. dia. V-belt sheave with 1 in. bore.

**Pressure Sheave** - 3 in. dia. V-belt sheave with 1/2 in. bore.

**Idler Sheave** - 3 in. dia. V-belt sheave with 1/2 in. bore or 3 in. dia. flat belt sheave with 1/2 in. bore.

**Take-Up** - Screw take-up with 3 in. dia. V-belt sheave with 1/2 in. bore. Provides take-up to allow for future belt tension.

**Bearing** - Sealed, pre-lubricated, self-aligning ball bearings.

**Conveying Speed** - Constant 60 FPM.

**Speed Reduction** - Sealed worm gear “C” face speed reducer with No. 50 chain to driving sheave.

**Motor** - 1/2 HP - 230/460 V - 3 Phase - 60 Hz. - totally enclosed, fan cooled.

**Electrical Controls** - Available as option.

**Capacity** - 500 lbs. total live load.

### QUANTITY OF ROLLERS PER CURVE

**30° Curve**
- 8 Tapered Rollers
- 16 Straight Rollers

**45° Curve**
- 12 Tapered Rollers
- 16 Straight Rollers

**60° Curve**
- 16 Tapered Rollers
- 8 Straight Rollers

**90° Curve**
- 24 Tapered Rollers
- 8 Straight Rollers
Optional Equipment:

Conveying Speed - Constant and variable speeds available other than standard 60 FPM.

Fixed Angle Guard Rails - 1 1/2 in. x 2 in. formed 12 ga. galvanized angle. Other heights available. Channel types available. One or both sides. Note: If product contacts guard rails, product flow may be affected.

Floor Supports - Heights available up to 84 in. top of leg.

Ceiling Hangers - 5/8 in. x 10 ft. long threaded rod with mounting hardware. Other lengths available.

Slave Driven - Curve to come less complete drive package and to be slaved to any belt driven live roller conveyor (V-belt or flat belt).

Other Tangent Lengths - Tangent lengths 12 in. through 48 in. available.

True Tapered Roller Curve - True tapered roller curve available. Will require special radius or special rollers.

Other Drive Types - Shaft mount to allow lower top of belt. Left hand drive.

Motors - Single phase, explosion proof, drip proof, DC motors, inverter duty, etc. Available through 2 HP.

Electrical Controls - Start/stop push-button station, reverse drum switch, one direction and reversible magnetic starters.
The V-Belt Driven Live Roller Straight Spur Conveyor is a live roller spur used where product lines converge or diverge.

- Bolt-Together Construction
- 30° and 45° Spurs
- 10 in. x 1 1/2 in. x 10 ga. Galvanized Frame on Head Section, 8 in. x 1 1/2 in. x 10 ga. Galvanized Frame on Spur
- Between Frame Widths 13 in. Through 39 in.
- Self Powered or Slave Driven
- Transportation Conveyor Only

### V-Belt Driven Live Roller Straight Spur Conveyor

**1.9 in. dia. x 16 ga. Galvanized Straight Rollers**

**Standard Specifications:**

- **Belt** - Endless “B” section V-belt.
- **Frame** - 10 in. deep x 1 1/2 in. x 10 ga. galvanized steel channel frames with bolt on end couplers on head section. 8 in. deep x 1 1/2 in. x 10 ga. galvanized steel channel frames on spur.
- **Roller** - 1.9 in. dia. x 16 ga. galvanized rollers on 3 in. centers. Grease-packed ball bearings.
- **Floor Supports** - Adjustable 32 1/2 in. to 36 1/2 in. from floor to top of rollers. One support at end of conveyor.
- **Driving Sheave** - 5 3/4 in. dia. V-belt sheave with 1 in. bore.
- **Pressure Sheave** - 3 in. dia. V-belt sheave with 1/2 in. bore.
- **Snub Return Sheave** - 3 in. dia. flat belt sheave with 1 in. bore.
- **Take-Up** - Screw take-up with 4 in. dia. V-belt sheave with 1/2 in. bore. Provides take-up to allow for future belt tension.
- **Bearings** - Sealed, pre-lubricated, self-aligning ball bearings.
- **Conveying Speed** - Constant 60 FPM.
- **Speed Reduction** - Sealed worm gear “C” face speed reducer with No. 50 chain to driving sheave.
- **Motor** - 1/2 HP - 230/460 V - 3 Phase - 60 Hz. - totally enclosed, fan cooled.
- **Electrical Controls** - Available as option.
- **Capacity** - 500 lbs. total live load.

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<thead>
<tr>
<th>BETWEEN FRAME WIDTH</th>
<th>“A” (IN.)</th>
<th>“B” (IN.)</th>
<th>“C” (IN.)</th>
<th>“A” (IN.)</th>
<th>“B” (IN.)</th>
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Optional Equipment:

Conveying Speed - Constant and variable speeds available other than 60 FPM.

Fixed Angle Guard Rails - 1 1/2 in. x 2 in. formed 12 ga. galvanized angle. Other heights available. Channel types available. One or both sides. Note: If product contacts guard rails, product flow may be affected.

Floor Supports - Heights available up to 84 in. top of leg.

Ceiling Hangers - 5/8 in. x 10 ft. long threaded rod with mounting hardware. Other lengths available.

Traffic Cop - Controls product flow where two lines converge, eliminating product collisions. Only one line is open at a given time.

Turning Wheel - Used on converging lines to insure proper product orientation when product is transferred onto a main line.

Slave Driven - Spur to come less complete drive package and to be slaved to any belt driven live roller conveyor. (V-belt or flat belt.)

Other Drive Types - Shaft mount to allow lower top of belt.

Motors - Single phase, explosion proof, drip proof, DC motors, inverter duty, etc. Available through 2 HP.

Electrical Controls - Start/stop push-button station, reverse drum switch, one direction and reversible magnetic starters.
V-Belt Driven Live Roller Curve Spur Conveyor

11/16 in. dia. to 2 1/2 in. dia. x 14 ga. Zinc-Plated Tapered Rollers on Curve
1.9 in. dia. x 16 ga. Galvanized Straight Rollers on Spur and Tangent

The V-Belt Driven Live Roller Curve Spur Conveyor is a live roller spur used where product lines converge or diverge.

- Bolt-Together Construction
- 30° and 45° Spurs
- 10 in. x 1 1/2 in. x 10 ga. Galvanized Frame on Tangent, 8 in. x 1 1/2 in. x 10 ga. Galvanized Frame on Spur and Curve
- Between Frame Widths 13 in. Through 39 in.
- Self Powered or Slave Driven
- Tapered Rollers on Curve, Straight Rollers on Spur and Tangent
- Transportation Conveyor Only

Standard Specifications:

- **Belt** - Endless “B” section V-belt.
- **Frame** - 10 in. deep x 1 1/2 in. x 10 ga. galvanized steel channel frames with bolt on end couplers on tangents. 8 in. deep x 1 1/2 in. x 10 ga. galvanized steel channel frames on spur and curve.

Outside rail of curve has “triple-punched” hex holes to allow skewing of rollers which affects product tracking.

- **Curve Roller** - 2 1/2 in. dia. tapered to 1 11/16 in. dia. x 14 ga. zinc-plated rollers on 3 in. nom. centers. Grease-packed ball bearings. Curve rollers do not represent true taper.

- **Spur and Tangent Roller** - 1.9 in. dia. x 16 ga. galvanized rollers on 3 in. centers. Grease-packed ball bearings.

- **Floor Supports** - Adjustable 32 1/2 in. to 36 1/2 in. from floor to top of rollers. One support at both ends of curve.

- **Driving Sheave** - 5 3/4 in. dia. V-belt sheave with 1 in. bore.

- **Pressure Sheave** - 3 in. dia. V-belt sheave with 1/2 in. bore.

- **Snub Return Sheave** - 3 in. dia. flat belt sheave with 1 in. bore.

- **Take-Up** - Screw take-ups with 3 in. dia. V-belt sheave with 1/2 in. bore and 4 in. dia. V-belt sheave with 1 in. bore. Provides take-up to allow for future belt tension.

- **Bearings** - Sealed, pre-lubricated, self-aligning ball bearings.

- **Conveying Speed** - Constant 60 FPM.

- **Speed Reduction** - Sealed worm gear “C” face speed reducer with No. 50 chain to driving sheave.

- **Motor** - 1/2 HP - 230/460 V - 3 Phase - 60 Hz. - totally enclosed, fan cooled.

- **Electrical Controls** - Available as option.

- **Capacity** - 500 lbs. total live load.
**30° Curve Spur**

Optional Equipment:

- **Conveying Speed** - Constant and variable speeds available other than 60 FPM.
- **Fixed Angle Guard Rails** - 1 1/2 in. x 2 in. formed 12 ga. galvanized angle. Other heights available. Channel types available. One or both sides. **Note:** If product contacts guard rails, product flow may be affected.
- **Floor Supports** - Heights available up to 84 in. top of leg.
- **Ceiling Hangers** - 5/8 in. x 10 ft. long threaded rod with mounting hardware. Other lengths available.
- **Traffic Cop** - Controls product flow where two lines converge, eliminating product collisions. Only one line is open at a given time.
- **Turning Wheel** - Used on converging lines to insure proper product orientation when product is transferred onto a main line.

**Slave Driven** - Spur to come less complete drive package and to be slaved to any belt driven live roller conveyor. (V-belt or flat belt.)

**Other Tangent Lengths** - Tangent lengths 12 in. through 48 in. available.

**True Tapered Roller Curve** - True tapered roller curve available. Will require special radius or special rollers.

**Other Drive Types** - Shaft mount to allow lower top of belt.

**Motors** - Single phase, explosion proof, drip proof, DC motors, inverter duty, etc. Available through 2 HP.

**Electrical Controls** - Start/stop push-button station, reverse drum switch, one direction and reversible magnetic starters.