The model 190-E24EZ Accumulating Conveyor uses a series of 24 VDC motors to drive the tread rollers, eliminating the need for drive belts, chains, or line shafts. Quiet operation, zero pressure accumulation, and ease of maintenance and installation are just some of the advantages.

### HOW IT WORKS

The conveyor is divided into accumulation zones. Each zone is powered by a 24 VDC Motor. The motor may be turned off to cause product in that zone to stop. Hytrol's EZLogic® Zone Controllers sense product presence and control the accumulation and release of product from the zones.

### SET HIGH EZLOGIC®

- **Section Length**
- **Overall Length**
- **EZ-Logic Zone Controller**
- **E24i Motor**
- **Tread Roller**
- **Power Supply**
- **Reflector**
- **IOP Unit**

### SET LOW EZLOGIC®

- **Section Length**
- **Overall Length**
- **EZ-Logic Zone Controller**
- **E24i Motor**
- **Tread Roller**
- **Power Supply**
- **IOP Unit**

### Table: Section Lengths and Weights

| Section Length | Between Rail Width | Overall Frame Width | 9" | 11" | 13" | 15" | 17" | 19" | 21" | 23" | 25" | 27" | 31" | 33" | 37" |
|----------------|--------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10'-0"         |                    |                     | 320 | 335 | 350 | 365 | 375 | 390 | 405 | 415 | 430 | 445 | 470 | 485 | 510 |
| Per Foot Weights | (lbs.)             |                     | 20  | 21  | 23  | 24  | 26  | 27  | 28  | 30  | 31  | 32  | 35  | 36  | 39  | 41  |

**Note:** Bed Sections available in the following multiples:
- 18" Zones-3, 4, 6, 7, 8, 9
- 24" Zones-2, 4, 6, 8 & 10
- 30" Zones-2 1/2, 5, 7 1/2 & 10
- 36" Zones-3, 6, 9

### Additional Information

- EZLogic® Accumulation System
- All-Electric Operation
- Adjustable MS-Type Floor Supports Available

U.S. Patent Numbers
- 5,862,907
- 7,243,781
- 7,591,366

Other Patents Pending.
**190-E24EZC**

- EZLogic Accumulation System
- All-Electric Operation
- Adjustable MS-Type Floor Supports Available

**Powered Roller Curve Conveyor**
(Zero Pressure Accumulating Type)

**BED (E24EZ)** — Roller bed with 1.9 in. dia. roller x 16 ga. galvanized tube bearings spaced every 3 in. Mounted in 6 1/2 in x 12 ga. powder painted formed steel channel frame bolted together with splice plates.

**BED (E24EZC)** — Roller bed with 2 1/2 in. dia tapered to 1 11/16 in. dia. x 14 ga. galvanized. Mounted in 6 1/2 x 12 ga. powder painted formed steel channel frame.

**MOTOR** — 24 VDC motor with integrated motor control card. One in each zone of conveyor mounted on inside of BR.

**SLAVE O-RINGS** — 3/16 in. dia. polyurethane o-rings slave-drive zone tread rollers from motor.

**ACCUMULATION ZONES** — 18 in., 24 in., 30 in., and 36 in. zones available.

**SET LOW CHANNEL** — Added additional flanges to make the installation and removal of the optional cover simple.

**EZLogic® Accumulation System**
Hytrol’s EZLogic®, or “Electronic Zero-pressure Logic” Accumulation System, combines the sensing accuracy of photo-electronics with discrete electronic logic control without the use of a PLC or pneumatic logic components. The EZLogic® Accumulation System provides many features including:

- Zero-Pressure Accumulation of Product
- Singulation Mode – Product separates while traveling down the conveyor and when it is released from the conveyor - creating a zone-length gap between products.
- Enhanced Slug Mode w/ Jam Protection – Product does not separate when traveling down the conveyor or when it is released from the conveyor. This allows higher product throughput at any given conveyor speed. Product will not separate on the conveyor even when accumulation has been activated at the discharge end.
- Cascaded Slug Release – Rather than releasing all zones simultaneously, this function introduces a momentary delay in the release of each zone, from discharge upstream.
- Dynamic Zone Allocation – Automatically adjusts the conveyor’s zone length to accommodate the length of the product being conveyed. Improves conveyor efficiency and system flexibility.

**Standard Specifications**

<table>
<thead>
<tr>
<th>Between Rail Width</th>
<th>Overall Frame Width</th>
<th>&quot;R&quot;</th>
<th>Number of Rollers</th>
<th>90° &amp; 60° Weights (Lbs.)</th>
<th>45° &amp; 30° Weights (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15&quot;</td>
<td>18&quot;</td>
<td>32 1/4&quot;</td>
<td>20</td>
<td>220 121</td>
<td>220 121</td>
</tr>
<tr>
<td>17&quot;</td>
<td>20&quot;</td>
<td>240 132</td>
<td>260 143</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19&quot;</td>
<td>22&quot;</td>
<td>280 154</td>
<td>300 165</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21&quot;</td>
<td>24&quot;</td>
<td>310 171</td>
<td>325 178</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23&quot;</td>
<td>26&quot;</td>
<td>495 274</td>
<td>565 311</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25&quot;</td>
<td>28&quot;</td>
<td>520 286</td>
<td>590 325</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27&quot;</td>
<td>30&quot;</td>
<td>220 121</td>
<td>220 121</td>
<td></td>
<td></td>
</tr>
<tr>
<td>29&quot;</td>
<td>32&quot;</td>
<td>240 132</td>
<td>260 143</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31&quot;</td>
<td>34&quot;</td>
<td>280 154</td>
<td>300 165</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33&quot;</td>
<td>36&quot;</td>
<td>310 171</td>
<td>325 178</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35&quot;</td>
<td>38&quot;</td>
<td>495 274</td>
<td>565 311</td>
<td></td>
<td></td>
</tr>
<tr>
<td>37&quot;</td>
<td>40&quot;</td>
<td>520 286</td>
<td>590 325</td>
<td></td>
<td></td>
</tr>
<tr>
<td>39&quot;</td>
<td>42&quot;</td>
<td>220 121</td>
<td>220 121</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All weights in catalog are conveyor weights only. Accessories, crating, etc., are not included.

**Optional Equipment**

- **FLOOR SUPPORTS** — MS Type floor supports are available with a wide range of adjustment. Specify top of belt or roller elevation. One support required at every bed joint and ends of conveyor. Holes in feet for lagging to floor. Knee braces recommended above MS-6 support.

- **POWER SUPPLY (FOR MOTORS)** — 20 amp power supply available. 20 zones maximum. 120 volt @ 12 amps.

- **POWER SUPPLY (FOR MOTORS)** — 460 volt, 3 phase – 20 and 40 amp available. Motors mounted on inside of channel.

- **MOTOR AND SEPARATE CONTROL CARD** — Available with 3 Amp settings.

- **POLY-TIER SUPPORTS** — 36 in. to 120 in. support heights in 6 in. increments. Knee braces required.

- **CEILING HANGERS** — ¾ in. dia. x 8 ft. long unplated steel rods fully threaded. Other lengths and galvanized rods available.

- **HIGH-SPEED DRIVE SPOOL** — Provides a speed range of 50-200 FPM.

- **EZLogic®** — See EZLogic® Components Page.

**190-E24EZ**

**Optional Equipment**

- **FLOOR SUPPORTS** — MS Type floor supports are available with a wide range of adjustment. Specify top of belt or roller elevation. One support required at every bed joint and ends of conveyor. Holes in feet for lagging to floor. Knee braces recommended above MS-6 support.

- **POWER SUPPLY (FOR MOTORS)** — 20 amp power supply available. 20 zones maximum. 120 volt @ 12 amps.

- **POWER SUPPLY (FOR MOTORS)** — 460 volt, 3 phase – 20 and 40 amp available. Motors mounted on inside of channel.

- **MOTOR AND SEPARATE CONTROL CARD** — Available with 3 Amp settings.

- **POLY-TIER SUPPORTS** — 36 in. to 120 in. support heights in 6 in. increments. Knee braces required.

- **CEILING HANGERS** — ¾ in. dia. x 8 ft. long unplated steel rods fully threaded. Other lengths and galvanized rods available.

- **HIGH-SPEED DRIVE SPOOL** — Provides a speed range of 50-200 FPM.

- **EZLogic®** — See EZLogic® Components Page.