The model RBE24EZ Accumulating conveyor uses a series of 24VDC motors to drive full width belt over roller zones. Quiet operation, zero pressure accumulation and reduced belt friction are some of the advantages.

### POWER SUPPLY CHART

<table>
<thead>
<tr>
<th>STANDARD MOTOR WITH CARD (033.09002)</th>
<th>HIGH PERFORMANCE MOTOR WITH CARD (033.090014)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NUMBER OF DRIVES</strong></td>
<td><strong>AMPS</strong></td>
</tr>
<tr>
<td>EB-000003</td>
<td>1-6</td>
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<tr>
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<td>1-12</td>
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<tr>
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<tr>
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<td>1-12</td>
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<tr>
<td>EB-000007</td>
<td>1</td>
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<td>EB-000007</td>
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</tbody>
</table>

### 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.
• STANDARD SPECIFICATIONS

BED—Roller bed with 1.9 in. dia. roller x 16 ga. galvanized rollers spaced every 3 in. Mounted in 8 1/2 in x 12 ga. powder painted formed steel channel frame bolted together with splice plates.

DRIVE ROLLER—1.9 in Dia. Fully Lagged with Crown.

BELT—PVC, Endless splice.

MOTOR—24 VDC, 100W motor. One in each zone of conveyor mounted on outside coupled directly to a lagged drive roller.

MOTOR CONTROL CARD—Used with each 24VDC Motor utilizing the 3A setting mounted on outside frame.

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® ZONE CONTROLLER—Located in each zone. (Retro-reflective). NEMA 1, 2, IP 62. UL Approved.

POWER SUPPLY (FOR MOTORS)—40 amp DC power supply, 24 volt fixed output. Maximum of 12 zones per power supply. 120 vac, 9.12 amp input. Mounted near center of conveyor.

IOP—Provides 27VDC, 100 watt power for EZLogic® accumulation system - contains slots for 4 input/output boards. Operates up to 50 zones with maximum of 25 on either side of IOP. Requires 120VAC or 230VAC single phase input.

CONVEYING SPEED—31-150 FPM

CAPACITY—Maximum load 37 lbs. per foot, 75 lbs. per zone.

FLOOR SUPPORTS—Now supplied as optional equipment.

• 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.

MOTOR AND CONTROL CARD—24VDC, 125W with 7A card. Provides speed range of 40-190 FPM.

POWER SUPPLY (FOR MOTORS)—20 amp power supply available. 6 zones maximum. 120 volt @ 4.56 amps.

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

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

CEILING HANGERS—5/8 in. dia. x 8 ft. long unplated steel rods fully threaded. Other lengths and galvanized rods available.

EZLogic®—See EZLogic® Components Page.

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

Zone Stop function is built in. Any zone may be transformed into a workstation by connecting a dry contact switching device to the auxiliary port of the EZLogic® Zone Controller. This feature is always used at the discharge end of the conveyor line, and may be used at any other location where a zone stop is required.

Selectable Modes of Operation

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.