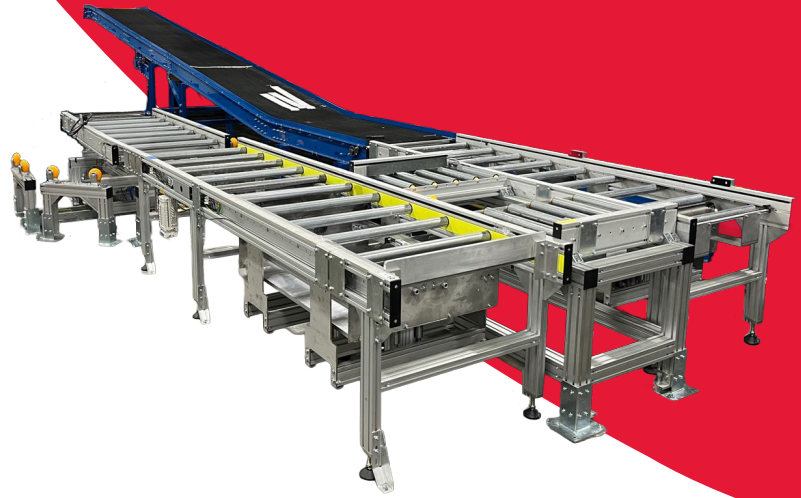




Zero-Pressure Accumulation Conveyors

Precision movement and smart accumulation

Zero Pressure Accumulation (ZPA) conveyors are advanced material handling systems designed to prevent product contact during accumulation. Using sensors and zone-based controls, ZPA conveyors stop items independently, eliminating collisions, jams, and product damage. These systems are especially well-suited for warehouse, distribution, and e-commerce operations.

Engineered for versatility

ZPA conveyors accommodate a wide range of speeds, loads, and operating environments, making them an excellent choice for warehousing, packaging, and assembly operations. Driven by 24V DC gear motors, these systems are designed to improve electrical power efficiency, reduce product damage, and integrate easily with existing warehouse control systems (WCS).

Intelligent material handling

ZPA conveyors also enable smooth, contact-free product accumulation without the need for mechanical stops or pneumatic devices thanks to intelligent material handling. In addition, Run-On-Demand technology activates rollers only when product is detected, resulting in lower energy consumption, quieter operation, and reduced long-term operating costs.



Key features:

- **Contact-free accumulation:** Items are held in designated zones, eliminating backpressure.
- **Modular design:** Often configured in “plug-and-play” zones, making installation flexible and scalable.
- **Energy efficiency:** Zones “sleep” or turn off when no product is present, saving power and reducing noise.
- **Flexible handling:** Can manage, sort, and merge varied product sizes.
- **Variety of controls:** Uses photo sensors at the end of each zone to trigger accumulation.

Typical applications include:

- **Distribution centers:** Sorting and merging items in high-volume environments
- **Manufacturing:** Preventing product damage on production lines
- **Fragile goods:** Handling products that cannot touch or require gentle, controlled movement.

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