



## Air-Operated Pallet Accumulation Conveyor

**The Westfalia Air-Indexing Chain Conveyor is the perfect solution for conveying applications requiring economical, controlled, non-contacting pallet accumulation and transport, especially in dusty or freezer environments.** The key to this conveyor system is the Westfalia Air-Valve Actuator, which replaces both the photoeyes and clutches of old accumulation systems.

The pallets are moved along the roller surface by means of a transport chain that raises up to engage the bottom of the pallet. The chain is raised by the inflation of an air hose, which is directly controlled by the air valve.

In operation, the transport chain is positioned between the carrier rollers and rides on a low friction, UHMW plastic guide. Beneath this UHMW guide is an inflatable lifting hose, which is partitioned into accumulation zone segments.

When the hose is inflated, the transport chain is raised above the top of the carrier rolls, engages the pallet and moves it forward, with the pallet weight supported by the rollers.

As the pallets move along the conveyor, they push an actuator arm on the air valves. This controls the inflation/deflation in the conveyor zone served by the valve. The logic circuits of the valves are interconnected, and if the zone ahead is vacant, the pallet moves forward in a continuous fashion.

The conveyor is constructed of heavy duty frame rails and is available in stainless steel. The support legs are adjustable to allow for the conveyor height (top of roller) to be as low as 12 inches above the floor. The transport chain is powered by an electric motor with multiple mounting options.



## Advantages of the Air Indexing Chain Conveyor

- Center-mounted transport chain eliminates pallet drift
- Inflation mechanism ensures soft start and stop
- A single motor can power up to 100 feet of conveyors
- Quiet operation due to UHMW guide surface
- No photoeyes required; ideal for tough environments
- Simple, clean design with no mechanical clutches

## Specifications

### Weight capacity

Light-duty service: 220 lbs. to 2,600 lbs  
 Heavy-duty service: 2,600 lbs. to 6,600 lbs

Speed.....40 ft/min

Minimum Height.....18"

### Air Requirements for inflation

30 psig; 0.15 scfm per zone

### Rollers/Wheels

2" or 3" diameter; spacing as required

### Length

5'-0" and 10'-0" sections standard;  
 custom lengths & heights available



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