



**OMNI METALCRAFT CORP. AND INTRALOX
ACTIVATED ROLLER BELT™**

The speed, simplicity, and flexibility of the ARB pallet layer forming system maximizes the case rates achievable with a single robotic palletizing system without limiting the array of case sizes and patterns that robots are capable of handling.

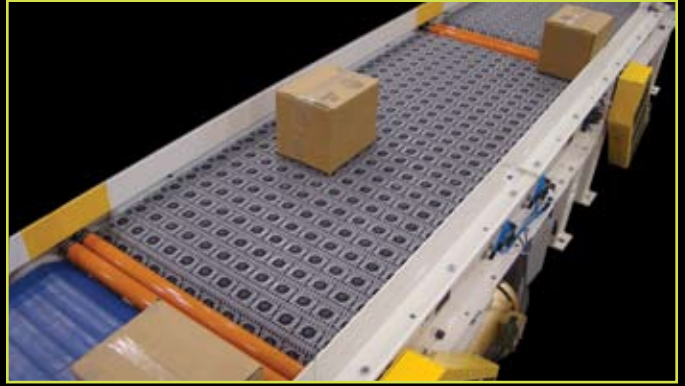
WHY ARB PALLET AND ROW FORMING?

- Low down time for product line change
- More flexibility for multiple package and product sizes
- Reduces the need for complicated pallet layer forms
- Typically more cost effective

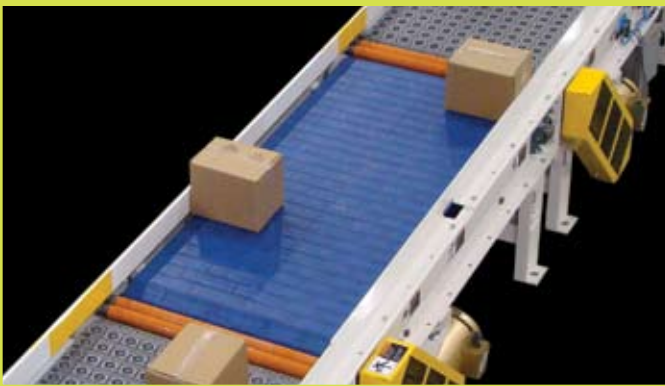
ALIGNING AND BUMP TURNING



SWITCHING



ACCUMULATION

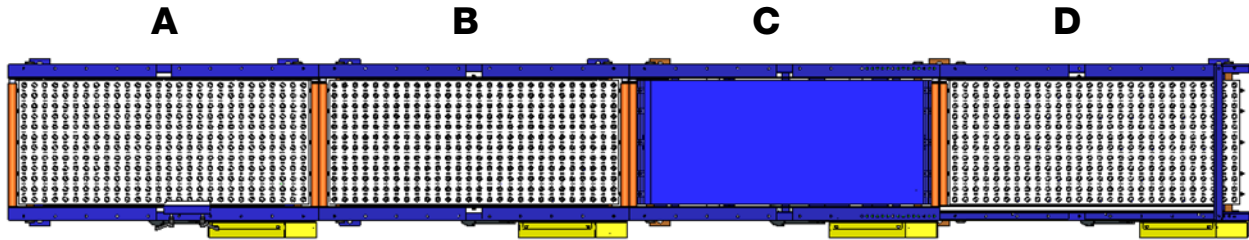


PASSIVE ENGAGEMENT



ARB PALLET LAYERING AND ROW FORMING

ARB pallet layer and row formers are typically made up of three or four conveyors.



- A.** The first conveyor having rollers set at 30 degrees to align packages or bump turn them depending on the downstream layer or row forming needs.
- B.** The second conveyor would typically be a switch conveyor using 45 degree or 60 degree rollers. This conveyor would position the packages to the left, right or center of the conveyor, again depending upon the layer or row you are forming.
- C.** The third conveyor would be a flat top belt used for accumulation when needed.
- D.** The fourth conveyor is a 30 degree passively engaged ARB belt. This is used for final positioning and layer or row justification, typically creating the row to feed a robotic palletizing operation.

PACKAGE TYPES

Ideal Package Types

Packages with rigid, uniform, flat bottoms are best. Examples of packages that work well are: corrugated boxes, lithograph packaging, tightly packed polybags, shrink-wrapped items with flat bottoms, CD/DVD cases, strapped bundles of magazines, books, plastic trays, and totes without large chines.

Undesirable Package Types

Soft-sided packages, packages with non-uniform bottom surfaces that conform to the roller pattern, and loosely wrapped packages are not recommended. Omni has experience with a wide range of package types; please contact our customer service representatives when there are questions regarding applicability or performance of a certain package type.

PACKAGE SIZES

Width

- Minimum: 4"
- Maximum: practically unlimited

Length

- Minimum: 4"
- Maximum: practically unlimited

PACKAGE ORIENTATION

Packages with length-to-width high aspect ratios (e.g., greater than 2:1) have a tendency to orient with length in the direction of flow due to friction against the side rail. If package orientation must be maintained, low friction bead rail may help to maintain orientation. Intralox has experience with a wide range of package types, contact customer service for guidance on maintaining orientation with a particular package type.