

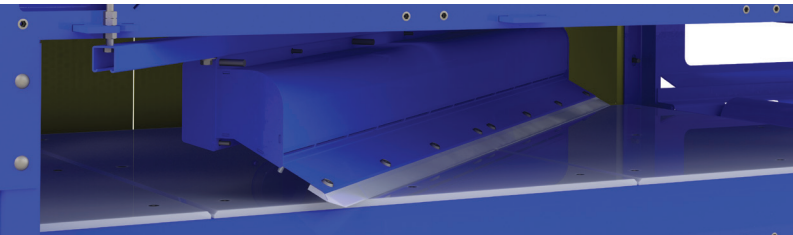
RETURNING DEVICE

On Sorting Conveyor

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MACHINEX

Experience Results



The Machinex built sorting conveyor equipped with a one-of-a-kind return device is an economical alternative to replace voluminous bunker and/or expensive runs of conveyors to reroute certain commodities where they belong in the system. The most common application for this conveyor is fiber sorting lines where containers can be manually sorted and diverted back to the container line instead of requiring a bunker or extra conveyors.

The clever device is not an extra conveyor, it simply uses the back cover of the belt of the sorting conveyor to carry the sorted items towards the tail of the conveyor. The opened frame design of the conveyor allows flexible arrangement of chutes where normal sorting chutes to bunkers below the platform incorporate a small sloped chute granting access to belt inside the frame. The sorted items travel back to the tail of the conveyor (counter flow of the material on top) until they reach a combo of scraperblades and blower to have these items exit the conveyor where desired.

BENEFITS

- ▶ Reduction of the operation cost
- ▶ Allows to sort the containers coming from the fiber sorting line
- ▶ All sorters can sort the containers in an adjacent chute
- ▶ Saves space as it requires no extra bunker or conveyors
- ▶ Sorting platform is cleaner as it contains less garbage

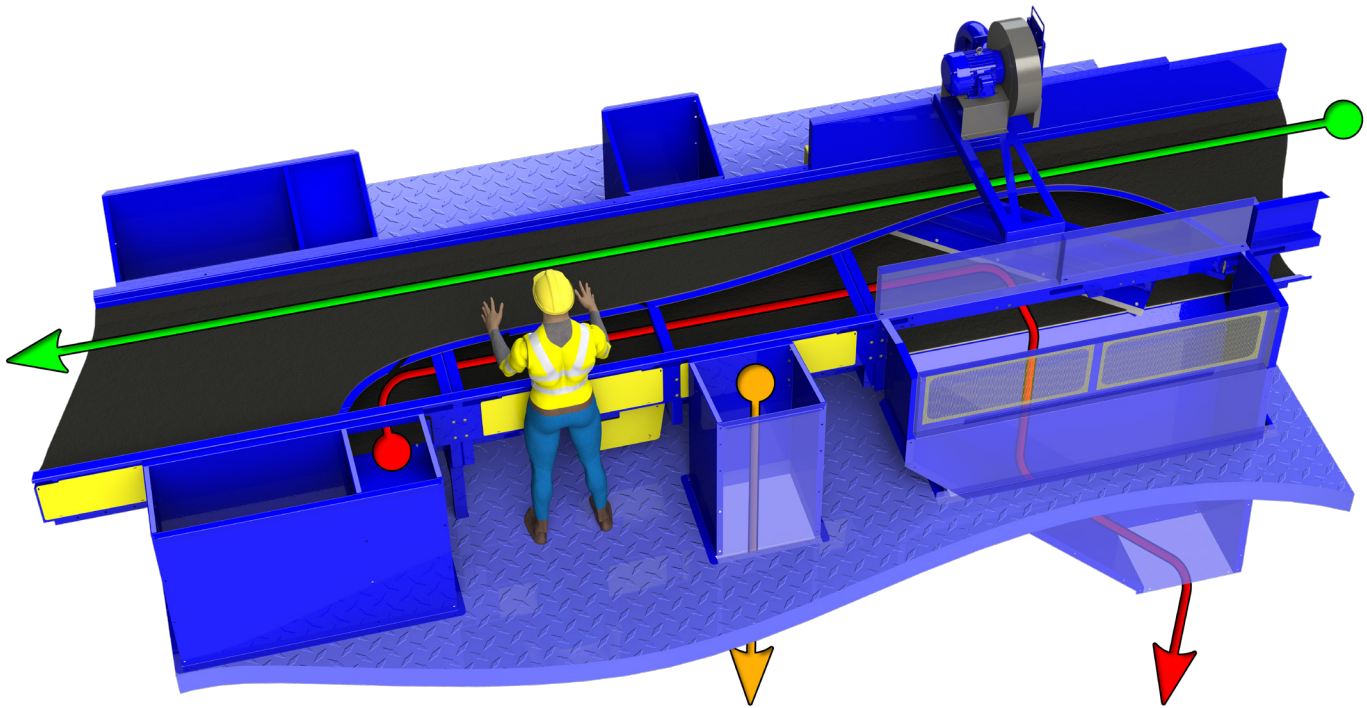
APPLICATIONS

- ▶ Single-Stream
- ▶ Containers
- ▶ Others (ask us about your application)

CONSTRUCTION & FEATURES (REFER TO 3D DRAWING)

- ▶ Opened frame conveyor
- ▶ Shaft mounted Gearbox
- ▶ Belt return on idler
- ▶ Diverting blade on UHMW bed and air blower

Returning Device



LEGEND (REFER TO 3D DRAWING)

- The green arrow shows the stream of material on the conveyor going through the quality control stations.
- The red arrow shows the sorted material going through the returning device. Material is hand sorted and dropped in a sloped chute, transported toward the returning device which will push it toward another line.
- The orange arrow shows an ordinary chute, where material is dropped into a bunker or conveyor under the platform.

THE SIDE EJECTION DEVICE ALLOWS RETURNING CONTAINERS SORTED ON FIBER SORTING CONVEYORS

