



# RSU – RELIABLE SORTING UNIT

A Durable, Cost Efficient and Accurate Method of Sorting Product

W&H Systems RSU tilted-tray sorter provides a durable, cost efficient and accurate method of sorting a wide range of products. With installations in various industries (with many repeat customers) including: Apparel, Entertainment Products, Footwear, Parcel, Pharmaceuticals and more, the RSU has proven to be a leading sortation system in the distribution arena.

## RSU OPERATION



The RSU Tray Sorter consists of tilted carrying trays traveling on an enclosed track conveyor. Items are inducted onto the trays either manually or automatically, and are transported along the track to their destination.

To improve productivity, the trays are presented to the induction area in a horizontal position and are later tilted for sortation. Items are identified by various scanning methods on the sorter. Destinations are determined from resident or downloaded destination tables or from distribution lists. As the carrying trays reach their discharge point, the doors open to gently discharge the product.

The items gently slide from the tilted trays to their proper custom chute or directly into their shipping carton.

After delivering their product, a simple reset mechanism returns the bottom door of each tray to its closed position and the trays are returned to the induction area.

Once an order is complete a pack-out operator is notified (via an indicator light, voice technology, etc.) to clear the area so the sorter can continue sorting product to that destination.

Standard RSU models have a maximum speed of 120 feet per minute and are capable of handling up to 5,320 trays per hour per induction area. The High Speed RSU has a maximum speed of 240 feet per minute and is capable of handling 8,640 trays per hour per induction area. Multiple induction areas can be added to increase system capacity for both models.

The result is that an RSU System design can be configured to meet specific needs in the most cost effective manner.

## FEATURES & BENEFITS:

**Reliability** - The design of the RSU provides a great degree of system reliability. Its high quality mechanical and electrical components reduce the individual and total system failure rates to negligible levels. The end result is providing you with maximum system “uptime.”

**Cost effective** - The chief advantage of the RSU is its low initial investment and minimal operating costs. The simple, uncomplicated design of the RSU minimizes manufacturing and installation costs compared to other sorters. Maintenance and repair costs are greatly reduced by using standard, proven components. Simply, the RSU provides low cost sorting capabilities and a quick return on investment.

**Accurate and Gentle Handling** - The RSU control system links the products ID to its specific carrying tray and the natural motion of the RSU automatically positions the product into the back corner of the tray. Since the position of the item within the tray is controlled, the discharge of the product from the trays is extremely accurate. The RSU also provides gentle handling of product by using gravity for a smooth transition from the tilted tray onto a chute or into a shipping carton.

**Simplicity** - Simplicity in design and manufacturing allows the RSU to be extremely cost effective and quick and easy to install. The sorter consists of carrying trays, equipped with a hinged bottom door, traveling along a basic enclosed track conveyor. The transport systems, as well as the sorting mechanisms use uncomplicated, mechanical and electrical components to deliver product to its destination.

**Product Handling Diversity** – The RSU has the proven ability to sort a wide range of product including (but not limited to): flat apparel, apparel accessories, books, CD/DVD’s, footwear, linens, parcels, pharmaceuticals, soft goods, etc.



**W&H SYSTEMS**  
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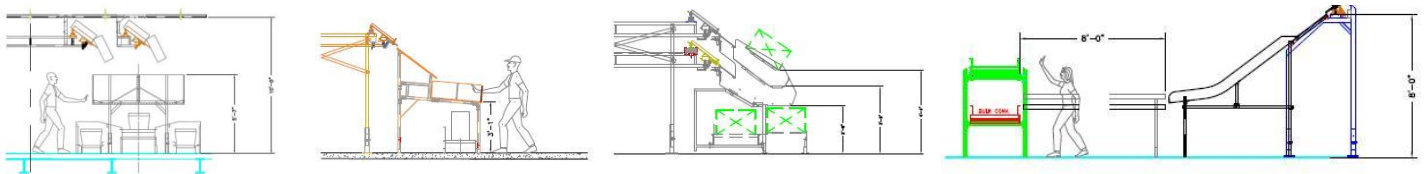
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**Flexible Design** - The RSU's design allows for a great deal of flexibility. The enclosed track conveyor can be designed with vertical and/or horizontal curves to provide a unique system design to compensate for building and space constraints. Systems can be configured to sort either to the inside or the outside of the sort loop or even to both sides if necessary. Also, configurations can be created to allow multi-level packing chutes on the same face. An RSU system can be tailored to meet most application requirements.



## AFTER SORT LANES/CHUTE & PACKOUT AREA EXAMPLES:

The RSU system can adapt to numerous distribution processes where it can be used cost effectively. W&H Systems will custom design your chutes based on your unique requirements, here are few examples of some past designs:



## RSU MODELS:

### RSU - Standard

RSU - Standard	15" X 20" Trays	23" X 20" Trays
Maximum Speed	120 Feet Per Minute	
Maximum Product Size	13" X 20"	21" X 20"
Minimum Product Size	No Logical Minimum	
Induction Types	Manual or Automatic	
Tray Centers	16 1/4"	24 3/8"
Trays/Hour/One-Induction	5,320	3,545
Trays/Hour/Two-Induction – One Sorter	6,900	4,600

### RSU<sup>HS</sup> – High Speed

RSU <sup>HS</sup> – High Speed RSU	15" X 20" Trays	23" X 20" Trays
Maximum Speed	240 Feet Per Minute	
Maximum Product Size	13" X 20"	21" X 20"
Minimum Product Size	No Logical Minimum	
Induction Types	Manual or Automatic	
Tray Centers	20"	24"
Trays/Hour/One-Induction	8,640	6,170
Trays/Hour/Two-Induction – One Sorter	11,230	8,022



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