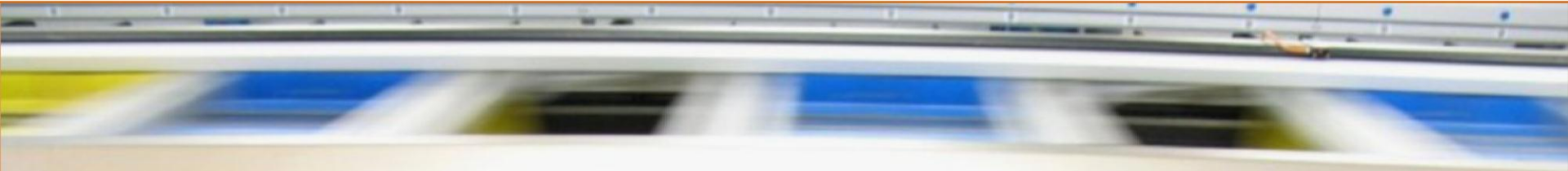




Performance of automatic sorting

Shanghai, 30th of October 2012

Bernardo Stokman, Sales Manager EuroSort Systems, The Netherlands





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Company overview

Key facts EuroSort

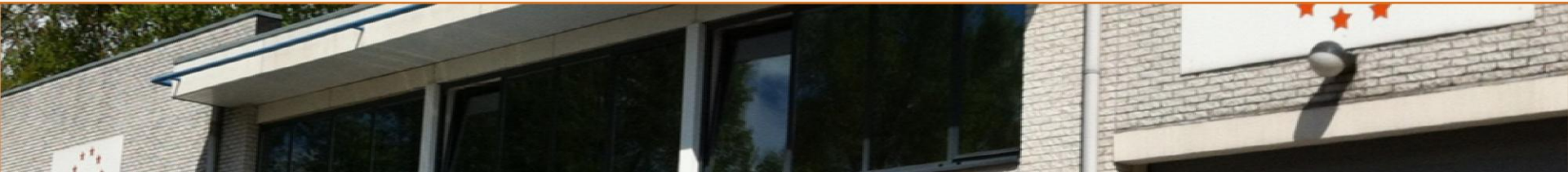
Installed base over 126 installations worldwide

30 employees (fixed and flexible)

Becoming and staying the leading supplier of unique and innovative single items sortation equipment

Focus on innovation, engineering, implementation, continuous improvement of quality

Focus on high performance sorting of products in a range from 0,15kg till 10kg,





Market focus



Why would you consider sorting?

Why would you consider sorting?

To increase your order picking accuracy

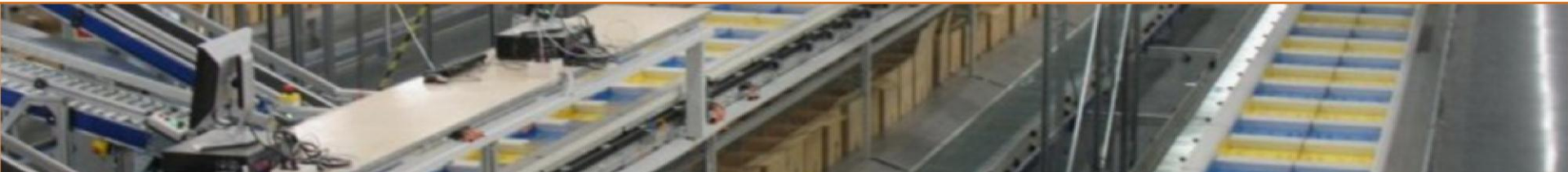
Sorting increases the accuracy from 96 % up to 99,99%

To have less Product handling

Hence less product damage and less FTE (Full Time Employees)

To have less Time losses

55% of the total cycle in a warehouse is order picking of which 30-44% is walking, hence less FTE



Why would you consider sorting?

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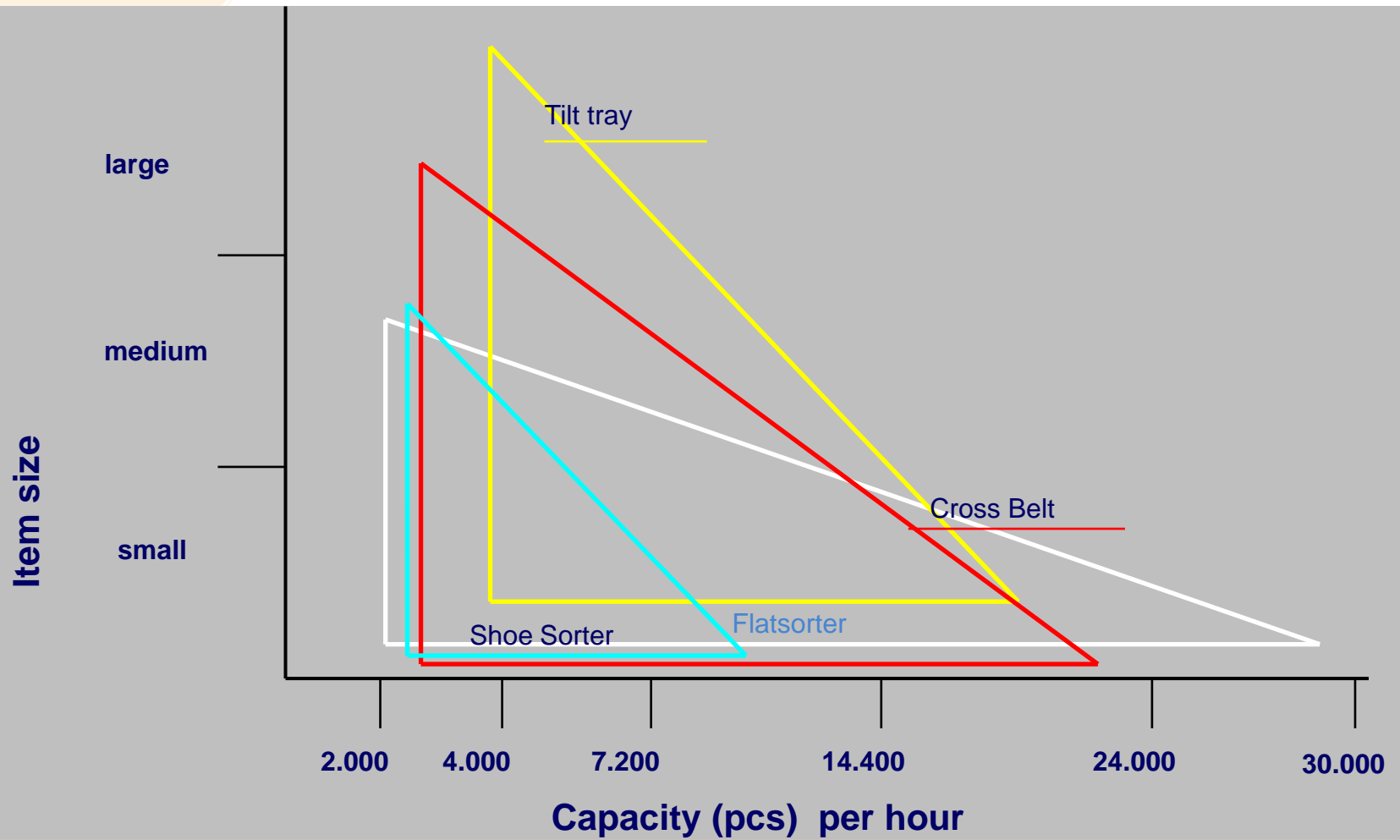
Time consuming activities

1. Starting a new order or batch: 7%
2. Walking / driving towards picklocations: 44%
3. Physical order pick: 15%
4. Bring to pack station or expedition area: 7%
5. Orientate (where do I have to be, how do I get there, where do I find the product?): 7%
6. Solving problems: 3%
7. Waiting for work: 5%
8. Other activities, such as breaks, personal hygiene: 12%





Different sorting systems





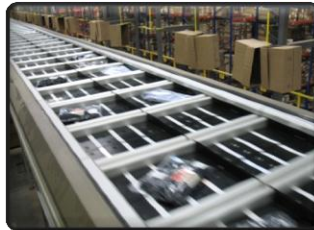
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EuroSort Systems Product Information

EuroSort sorters overview

Flatsorters

Generally speaking, a flat sorter is used for the automatic sorting of relatively lightweight and flat items. These items include garments, books, pharmaceuticals, flats, mixed mail, multi-media, jewelry, accessories and more.



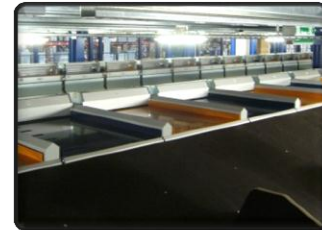
Slide Belt Sorters

The Slide Belt Sorter is a low cost sorter designed to sort cartons, totes, DVD's, shoe boxes and other packaged items. This sorter has a capacity up to 7,000 items per hour and is capable of handling packages up to 35 kg.



Push Tray Sorters

A unit sorter for sorting the combination such as cartons, polybags and all other odd-sized articles. From a 200 gram polybag up to a 10kgs carton. An efficient way of sorting up to a capacity of 12.000 articles per hour.



Ringsorter

The ring sorter is designed for customers who have limited space and don't need a large number of exits. It is ideal for applications such as library returns, order fulfillment, kitting and zip code sorting to name a few.





The EuroSort Systems Flatsorter

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ESF Flat Sorters in General

Also known as Bomb-bay sorter, platform sorter or flat sorter, the ESF Flat Sorter (Split Tray or Tilt Tray) has been an effective and tested solution within its specific field of application for many decades.

Generally speaking, split tray sorters are used for the automatic sorting of relatively lightweight and flat items. Usually, these items are able to withstand a drop of a couple of feet.

The items to be sorted are placed in a tray by means of one or more induction systems. The trays are notable for the fact that the bottom can open once the tray is positioned above the destination. The products then drops flat and in a curved matter directly into the transport container or box.



The EuroSort Systems Flatsorter

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Tray's

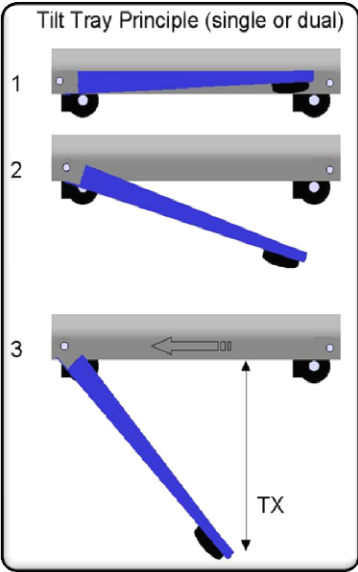
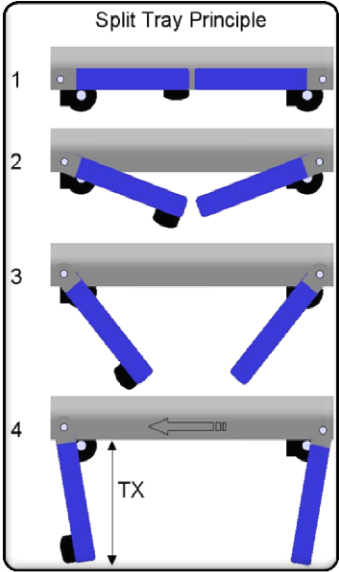
Split tray:

Ensures a flat drop and stacking of books and garments in tote or carton.

Tilt Tray:

Slides multimedia items or small parcels into a chute, tote or sack

Tray dimensions	
Minimum tray width TW	150 mm
Maximum tray width TW	800 mm
Minimum tray length TL	200 mm
Maximum tray length TL	600 mm





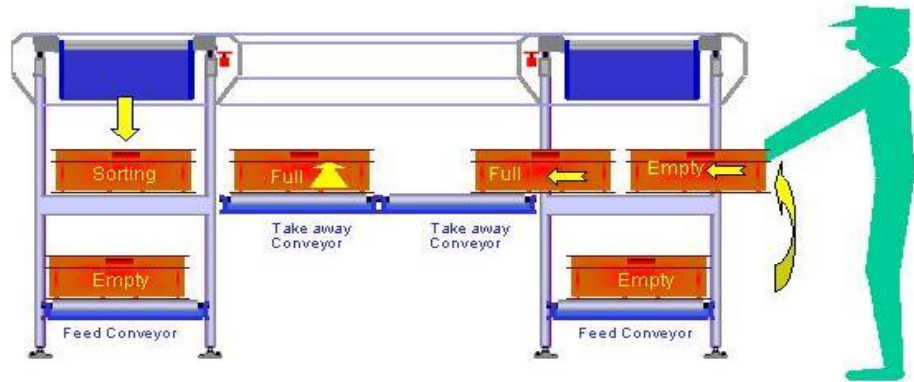
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The EuroSort Systems Flatsorter

Split-tray

The EuroSort Split-Tray Sorter sorts items directly into a carton or tote. Eliminating the need for expensive, space consuming chutes.

By eliminating the need for chutes, EuroSort is able to avoid sliding of products and stacking them side by side instead of vertically.



Performance	
Carrier speed	1 m/s
Tray speed (single tray)	7200 /hr
Tray speed (dual / twin tray)	14400 /hr
Tray speed (quad tray)	28800 /hr





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The EuroSort Systems Flatsorter

The main benefits of Flat-Sorters

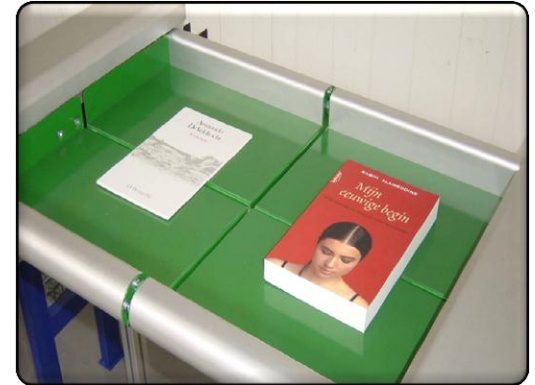
Sorting directly into the transport container / box, no need for space consuming chutes. Relatively low investment.

High number of discharges possible on minimal floor space.

High sorting capacity 7.200 (single tray) 14.400 (dual or twin tray) 28.800 (quad tray)

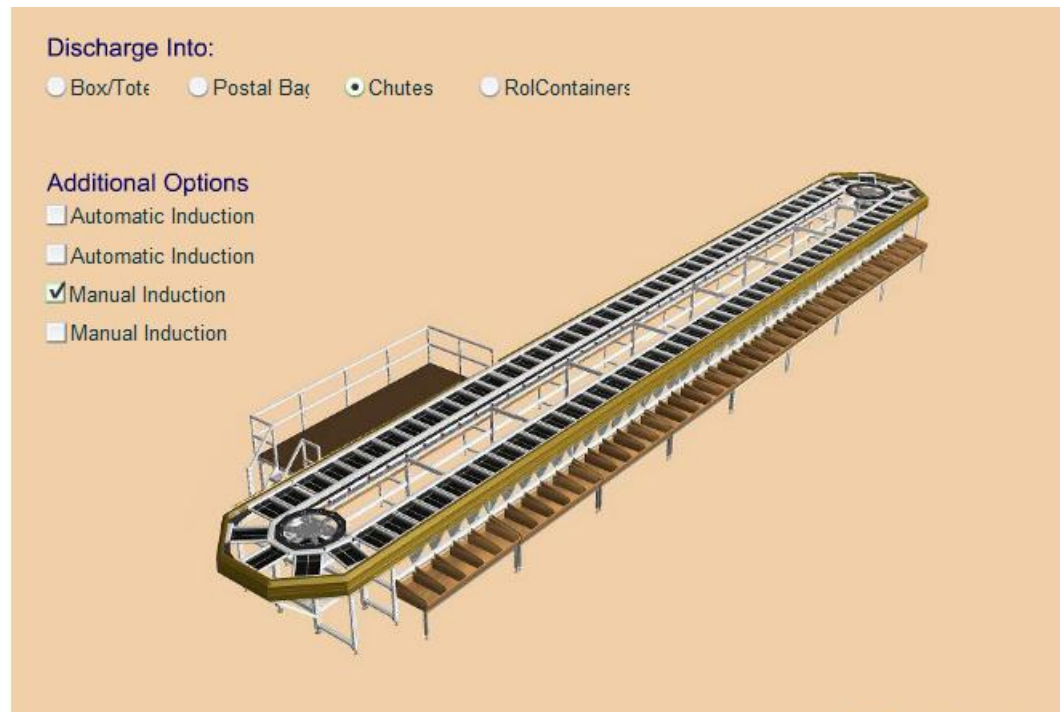
Simple and robust principles that demands little maintenance

Suitable for products that are difficult to handle (their shape is not fixed / round / unpacked / soft-goods / unconveyable).



5: Flatsorter Configurations

Impression of a Carousel Sorter



Business case 1: Garment DC

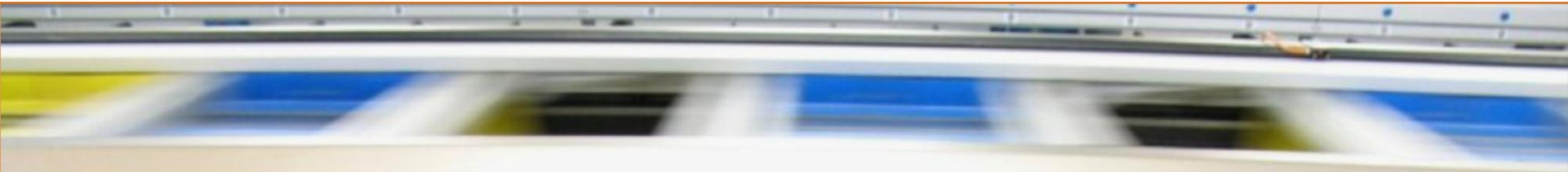
Base values middle size company

15 million articles per year > 60,000/day > 7500/hr, based on 8hr labor
Divided over 1,200 orders, average order size 50 lines per customer,
Average 25 SKU per carton, Avg 2 cartons per customer
Average of 300 cartons / hour → 150 customers = min. required number of destinations for the sorter

Number of destinations

One batch of 7,500 articles per hour → means 8 batches on a single split sorter with 2 mezzanines with 4 people and a 150 destinations

Five batches of 12,000 articles per hour → means a single split sorter with 2 mezzanines with 6 people and a 240 destinations



Business case 2: Garment DC

Base values large size company

37,5 million articles per year > 150,000/day > 15,000/hr, based on 10hr labor
Divided over 500 orders, average order size 300 lines per customer,
Average 75 SKU per carton, Avg 4 cartons per customer
Average of 250 cartons / hour → 62,5 customers = min. required number
of destinations for the sorter

Number of destinations

One batch of 30,000 articles per 2 hours → means 5 batches on a dual
split sorter with 2 mezzanines with 8 people and a 100 destinations
Two batches of 75,000 articles per 2 hours → means a dual split sorter
with 2 mezzanines with 8 people and a 250 destinations





Conclusion

How automated sorting solutions will optimize your operational costs

Sorting will optimize your order picking process, by picking larger batches

Sorting will increase your process accuracy up to 99,99%

Sorting will decrease product damages

Sorting will increase your process efficiency while using less FTE





Questions?

For additional information, or specific questions, please visit our booth



Hall No.: W2

Booth Number: F1

