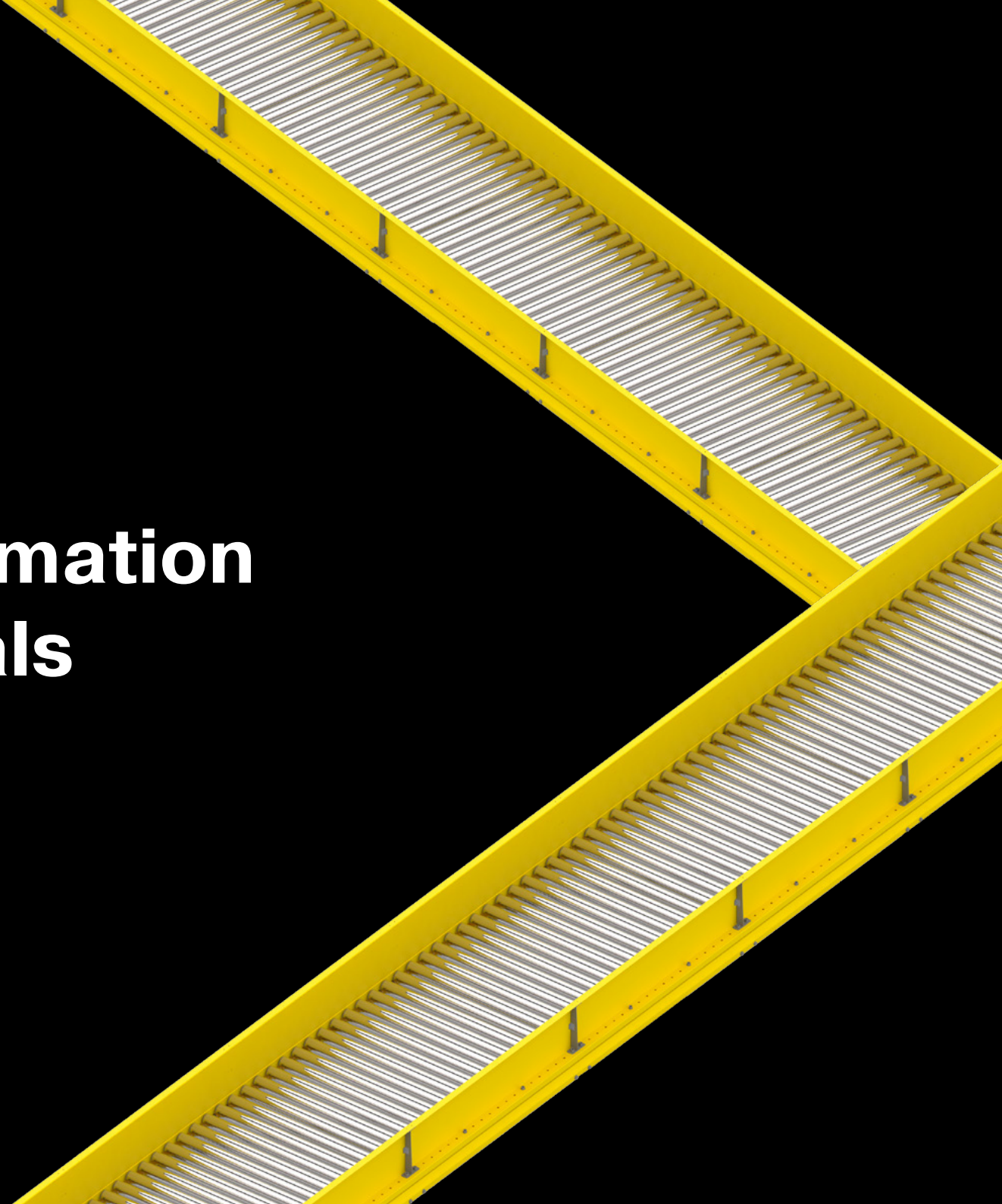


Complete automation of post terminals

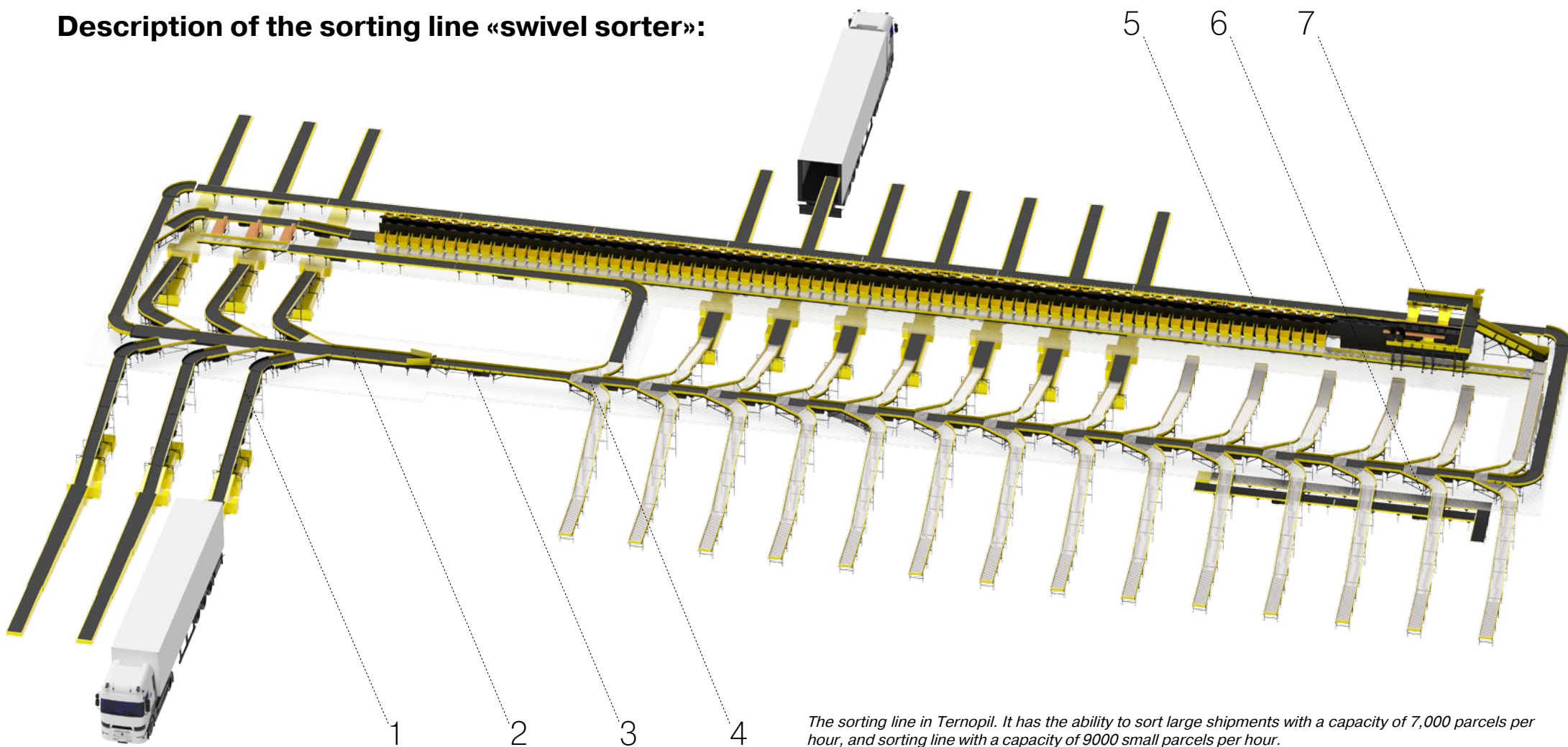




Dear Partners, our company «KONSORT» is ready to offer you the solution of full automation of post terminals.

At the moment we have a solution that will allow you to sort «large» dispatch (2-80 kg) with a capacity of 7000 parcels per hour, «small» (0,1-2 kg) 9000 parcels.

Description of the sorting line «swivel sorter»:



The sorting line in Ternopil. It has the ability to sort large shipments with a capacity of 7,000 parcels per hour, and sorting line with a capacity of 9000 small parcels per hour.

1. Shipments are laid out by operators on telescopic conveyors, there is the possibility of simultaneous unloading from six vehicles at once. Further, the consignments along the lifting conveyors call into the main sorting line, which is at a height of 3.3mt.

2. With the help of the algorithm for the operation of conveyors, shipments are built into the «correct» queue for further scanning.

3. The process of scanning parcels occurs in five planes, which practically excludes the possibility of errors in the scanning device (Sick, Germany) when reading the barcode. After the parcels have passed through the scanner, the main line already «understands» in which direction the parcel needs to be redirected from the given directions.

4. Redirection occurs in automatic mode using conveyors «swivel sorter» which have the ability to

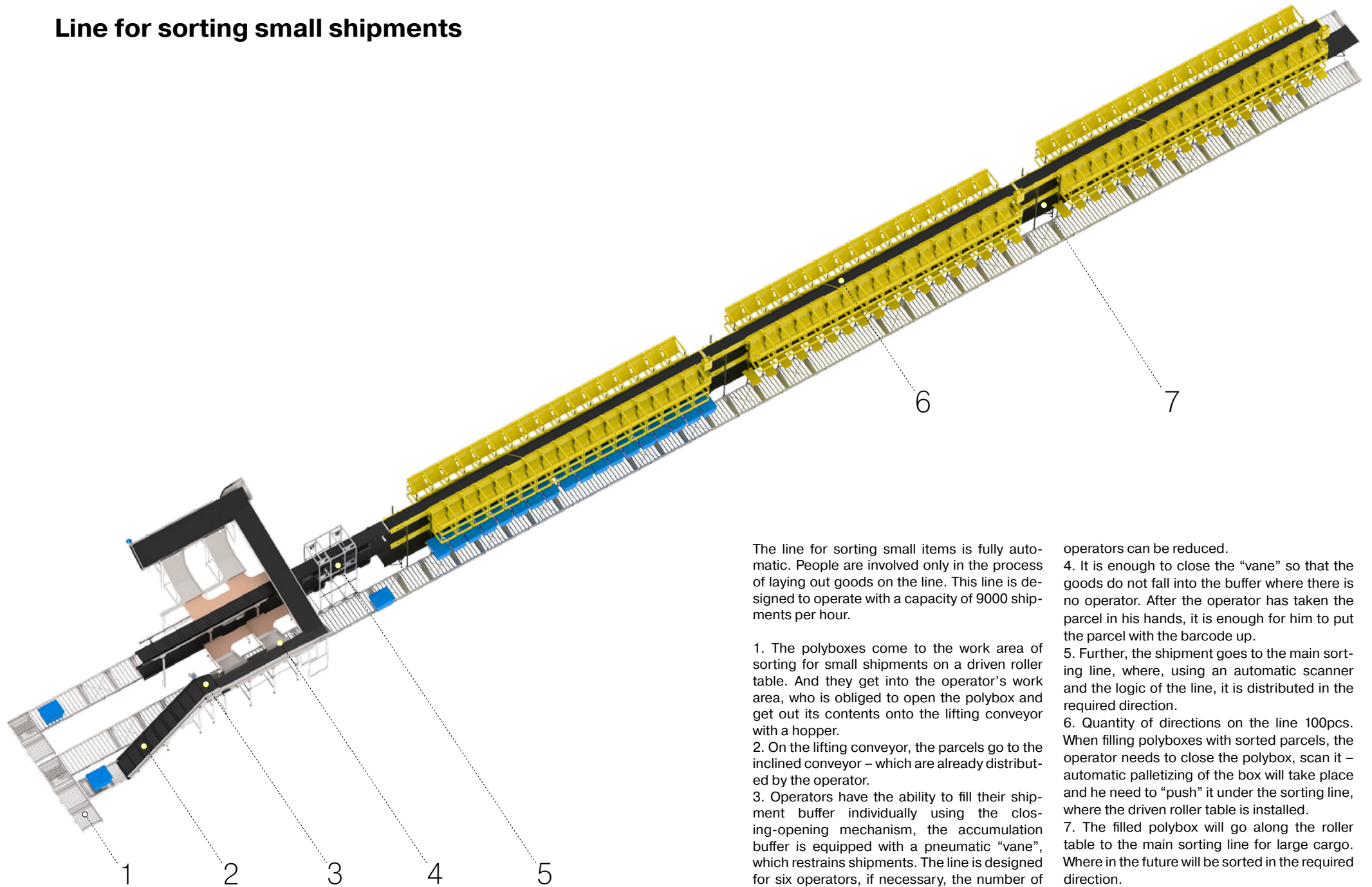
redirect parcels at an angle of 45 degrees in both of directions. With help of this mechanism, using small areas, we were able to double the number of options for directions. This line has the ability to sort 28 directions.

5. The line provides for possible «not scanned» cargo due to damaged, doubled barcodes, not removing parcels from a full port. Such shipments go to the end of the line and end up on the line Overflow by which they fall for re-sorting

6. Cargoes, on which the barcode is completely damaged and cannot be scanned, falls into the zone of manual barcode application. After that, it is re-sent to the line.

7. Polyboxes with a small load will also move through the main line. A separate direction has been allocated for them, along which the boxes will fall into the sorting of small parcels area.

Line for sorting small shipments



The line for sorting small items is fully automatic. People are involved only in the process of laying out goods on the line. This line is designed to operate with a capacity of 9000 shipments per hour.

1. The polyboxes come to the work area of sorting for small shipments on a driven roller table. And they get into the operator's work area, who is obliged to open the polybox and get out its contents onto the lifting conveyor with a hopper.

2. On the lifting conveyor, the parcels go to the inclined conveyor – which are already distributed by the operator.

3. Operators have the ability to fill their shipment buffer individually using the closing-opening mechanism, the accumulation buffer is equipped with a pneumatic "vane", which restrains shipments. The line is designed for six operators, if necessary, the number of

operators can be reduced.

4. It is enough to close the "vane" so that the goods do not fall into the buffer where there is no operator. After the operator has taken the parcel in his hands, it is enough for him to put the parcel with the barcode up.

5. Further, the shipment goes to the main sorting line, where, using an automatic scanner and the logic of the line, it is distributed in the required direction.

6. Quantity of directions on the line 100pcs. When filling polyboxes with sorted parcels, the operator needs to close the polybox, scan it – automatic palletizing of the box will take place and he need to "push" it under the sorting line, where the driven roller table is installed.

7. The filled polybox will go along the roller table to the main sorting line for large cargo. Where in the future will be sorted in the required direction.



Advantages of the «swivel-sorter» sorting line:

- Productivity 7000 parcels per hour
- Redirection of goods without human participation in 28 directions
- Five-sided automatic shipment scanning
- Percentage of unscanned items up to 1%
- Possibility of increasing directions at the request of the Customer



Advantages of a small cargo sorting line

- Line capacity of 9000 parcels per hour
- Automatic scanning of items
- Redirecting parcels to the required port without human intervention
- Percentage of unscanned items up to 1%
- Possibility of “switching off” one floor of sorting at low load of the line

We are the growth point for your business.

We are a technology partner for entrepreneurs. For those who invent, create, test, recycle, launch and re-invent something every day. We can help you to improve your business and to bring it to a new level of efficiency. We manufacture different equipment for production automation and logistics such as roller tables, calibrators, conveyors, lines for transportation, sorting and processing, and even such things that have not been invented yet.

Now we manufacture different equipment for industrial automation (B2B) in logistics, industrial, agricultural and environmental areas. We have gradually become a market leader and we continue our development and constantly look for new ideas for further growth.

Why you should choose us

Personal managers who fully understand the specifics of your business and could work in your production. Mobile service support available throughout Ukraine. And the most important fact is that the engineers will design and manufacture individually for the needs of a particular business.

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