ELECTRONIC SORTING MACHINES

Multi-lane sorting machines have been designed for delicate transportation of fruit between particular sections of the line. Each machine is equipped with brushes to evenly distribute the products on the belt conveyor, and thus protect them against damage.

Additionally, the surfaces and join points have been covered with the advanced soft protective fabric.

Each line can be preceded by a pre-sorting section, a water unloading system with an elevator, or a high-performance unloading robot, or it can be extended with packaging and palletizing equipment.

MULTI-LANE CUP SORTING MACHINES

CUP sorting machines are the most universal of all sorting machines. They have been designed for grading fruit and vegetables of diameter from ø50 mm to ø130 mm.

Models with cup carries are ideal for apples, tomatoes and citrus. They also work well for sorting products larger, such as mangos, avocados and of less unified shapes such as pears.

The models available of multi-lane cup sorting machines allow for construction of a technological line consisting of 2 to 6 lanes.

The speed of the machine depends on the type and variety of the sorted product and the parameters of the particular sorting machine. Typically, a cup sorting machine reaches the efficiency up to 3 t/h on one lane.

ADVANTAGES:

- universal carrier used for a wide range of fresh fruit and vegetables
- individual design customized to the specifics of work and client’s requirements
- durable solid construction
- precise measurement in real time - a fast and efficient weight module.

<table>
<thead>
<tr>
<th>Carrier model</th>
<th>Lanes</th>
<th>Exits</th>
<th>Cup dimensions</th>
<th>Product’s diameter</th>
<th>Carrier’s speed</th>
<th>Sorting parameters</th>
<th>Types of transported products:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard cup</td>
<td>2-6</td>
<td>10-25</td>
<td>B=170 x L=145 x H=45</td>
<td>ø50 - ø130 mm</td>
<td>up to 5 products per second</td>
<td>diameter, colour weight, quality</td>
<td>apples, pears, oranges, tomatoes</td>
</tr>
<tr>
<td>Long cup</td>
<td>1-3</td>
<td>10-25</td>
<td>B=385 x L=145 x H=45</td>
<td>ø35 - ø100 mm product’s length L= max. 360 mm</td>
<td>up to 5 products per second</td>
<td>size colour quality</td>
<td>courgettes, cucumbers, eggplants</td>
</tr>
</tbody>
</table>
MULTI-LANE MACHINES WITH MSO CARRIER

Roller drop system with MSO carrier in multi-lane sorting machines has been designed for fast and precise sorting of fruit and vegetables. The dimensions are comparably smaller than cup sorting machines.

The greatest advantages of models with MSO carriers are, inter alia:

- **system of an integrated roll** - transports the sorted product without its transfer to the next segment of the machine during the measurement process of subsequent parameters
- **maintaining high-quality** - especially with delicate products by minimizing occurrence of external damage
- **precise real time measurement** - fast and efficient weight module
- **exits settings’ adjustment** - an automatic, maintenance-free system of main chains tensioning.

<table>
<thead>
<tr>
<th>Carrier model</th>
<th>Lanes</th>
<th>Exits</th>
<th>Diameter</th>
<th>Efficiency</th>
<th>Sorting parameters</th>
<th>Types of transported products:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSO carrier</td>
<td>2-6</td>
<td>10-25</td>
<td>ø50 - ø100 mm</td>
<td>2.5 tonnes per hour for products weighing around 100 grams</td>
<td>diameter, colour weight, quality</td>
<td>tomatoes, kiwi, clementines, pears, apples, lemons, oranges</td>
</tr>
</tbody>
</table>

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