

# 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 **ø 50 mm to ø 130 mm**.

Models with cup carriers 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.



Carrier model	Lanes	Exits	Cup dimensions	Product's diameter	Carrier's speed	Sorting parameters	Types of transported products:
Standard cup	2-6	10-25	B=170 x L=145 x H=45	ø50 - ø130 mm	up to 5 products per second	diameter, colour weight, quality	apples, pears, oranges, tomatoes
Long cup	1-3	10-25	B=385 x L=145 x H=45	ø35 - ø100 mm product's length L=max. 360 mm	up to 5 products per second	size colour quality	courgettes cucumbers eggplants

# 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.



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

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packing tables



unloading robot

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