

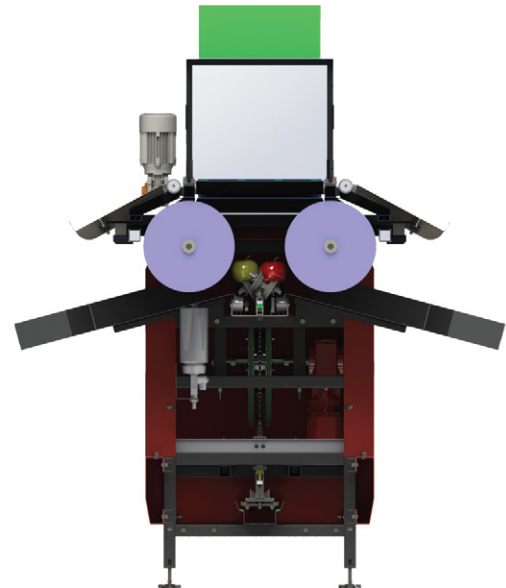
Polish company Sorter offers a complete range of technological lines solutions for fruit and vegetable sector from unloading and sorting to packing and palletizing.

RDS SORTING MACHINE

The RDS sorting machines have been designed for fast and precise sorting of fruits and vegetables. Dimensions of the RDS machines are comparably smaller than CUP machines. New machines offered by Sorter can be successfully used not only for sorting apples, but also for ball-shaped citrus fruits and vegetables in maximum 90 mm diameter.

Unquestionable advantages of our new modern machines are many implemented innovative solutions, e.g.:

- **the system of integrated roll** moving sorted product without its transfer to the next segment of machine during the measurement process of fruits or vegetables parameters. It has an important impact on increase the quality of sorting delicate fruits and vegetables (**minimisation of bruising**),
- **original, highly productive video system VISORT** designed for concurrent measurements according to:
 - colour,
 - size,
 - weight,
 - external and internal quality,
- more than 15 photos per second allows to detect even a few millimeters surface defects,
- **fast and modern** weighing module that enables precise measurement of sorted product in real time, which is several times shorter than it used to be,
- hands-off, fully automatic system of main chains stretching with coincidental correction of output settings,
- modern way of power feed transfer on machine's receiving tables.



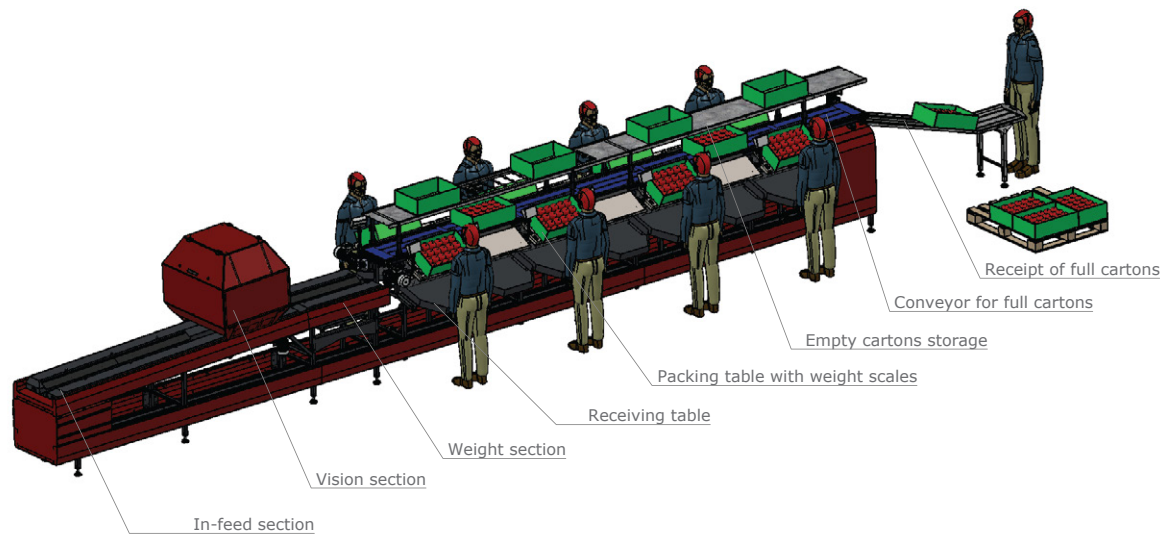
The system's accuracy means also elimination of stalks (e.g. tomato's stalks), which contributes to the measurement of only the exact product size.

RDS SORTING MACHINE

Purpose/Application	electronic sorting of products
Products	ball-shaped fruits and vegetables with dimension from 40 to 90 mm
Options	<ul style="list-style-type: none"> • from 1 to 8 lanes • weight module • size module • colour module • external and internal quality module • conveyors at exits • water collecting units
Features	<ul style="list-style-type: none"> • maximum speed up to 12 pieces per second per one lane • practical efficiency 5 t / h • theoretical efficiency is calculated according to the following formula: average product weight (200 g) x 12 pieces/sec. X 60 sec. X 60 min. • roller - drop system • modern compact design of the machine



EXEMPLARY ONE - LANE RDS SORTING MACHINE:



ELEMENTS OF EXEMPLARY ONE - LANE RDS SORTING LINE:

- **Straight bin submerging unloading**
Unloading of the products to unloading tank. The pallet box (1200 x 1000 x 800) is pressed and submerged in water where the products are unloaded. The efficiency 20 – 25 boxes per hour.
- **Gravity roll conveyor for unloading**
Conveyor allows receipt of empty cartons after unloading.
- **Set of water channels**
Water channels allow transport products to the singulator.
- **Forklift guard rail**
- **"Fingerroll" separation brush**
It allows separate transported sections in front of singulator.
- **Overflow dryer**
Overflow dryer is suitable to dry the products. Sponge dryer with length of approx. 2,5 m and blower ventilator. In the first two lines the brushes are installed. The active width of dryer B=400 mm.
- **Transmission brush**
- **V type belt conveyor**
The belt conveyor places products in one line in front of the sorting machine. The belts of the conveyor have different linear speed allowing the products to place in one line before entering to the sorting machine. The conveyor length L = 1,5 m.
- **One - lane RDS sorting machine**
RDS machine sorting products according to the colour, size and weight of the product. It is equipped with weight modules and central conveyor for cartons. After configuration the products are allocated to the set exits.
- **Slide for cartons**

