Water hydraulic cherry cluster separator

- Global patent -

- Up to 3 000 kg/hour/machine
- Your Gateway to Premium Quality Cherries.
- Machines running since their first installation in 2001

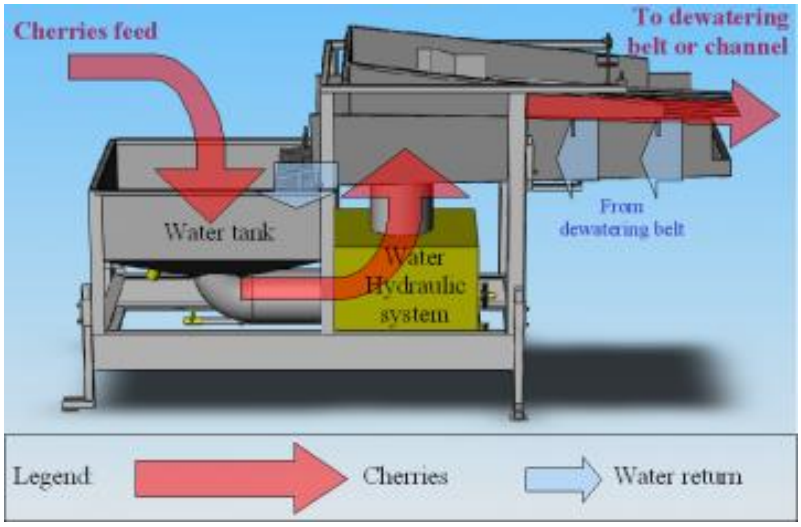
Purpose: To single out cherries in cluster, at a capacity up to 3,000 kg/h/machine.
Fachaux grading is the only company to have a global patent on a water hydraulics cluster cutter.

Overview of machine

For a standard configuration, the water hydraulic cherry cluster separator includes:

- A Water Tank (cherry holding tank)
- A patented Water Hydraulic Separating system
- An Exit Basin on the top feeding onto a dewatering belt or channels

The typical configuration is an exit onto a Fachaux size-grader through dewatering belt. Interconnection to other manufacturers grading/sorting machine or conveyor has been achieved in prior installations. Better results are obtained if the cherries exit via a dewatering conveyor belt.



Overview of the water hydraulic cherry cluster separator

Fruit Quality

- Is comparable to separating the cherries by hand
- Processes all sizes and all varieties of cherries
- Growers and packers experience more than 90% of cherries being singled out, depending on water hydraulic system speed
- Better presentation of stem (suitable length, no dryness or browning)
- Gentle with the fruit – Premium quality verified by “Domaine Experimental La Tapy”, Cherry Research Centre of Horticulture France (www.ctifl.fr)

Capacity

3 Models are available:

1. ‘Small Size’ separator: processes up to 1,000 kg/hour
2. ‘Medium Size’ separator: processes up to 2,000 kg/hour
3. ‘High Capacity’ separator: processes up to 3,000 kg/hour

In some current installations, several ‘High Capacity’ separators have been installed in parallel, therefore enabling an output rate of 6,000 kg/hour.

A Variable Speed Drive allows fine tuning of the Separator, which may be required for different varieties.

Specifications

All parts in contact with the cherries and water are manufactured from stainless steel. PP-plastic is used for the manufacture the Dewatering Conveyor. The chassis itself is manufactured from painted steel OR stainless steel (option).

On-going Water Usage:

- Minimal. Water for the dumping basin will need to be refreshed (changed) regularly (as per food handling regulations).

‘Medium Size’ Separator

- Total equipment size: 1.5m wide x 4.5m long
- Water Tank: +/- 800 litres (recommended)
- Motor: Variable Speed Drive

‘High Capacity’ Separator

- Total equipment size: 1.8m wide x 5m long
- Water Tank: +/- 1000 litres (recommended)
- Motor: Variable Speed Drive

Control Switchboard:

- Provided (cabinet manufactured from painted steel)

Installation Requirements:

- Water supply fittings: Standard flexible water hose can be used.
- Waste water: Male Connection to a female water valve (2”)

Two high capacity cluster separators in parallel = 4 tons / hour

Maintenance

Only minimal maintenance is required.
Refer to the User Manual for specific Maintenance requirements.