

BUCHER
vaslin



Delta Vistalys

**Top accuracy
in grape sorting**

For a good sorting choose the best

Delta Vistalys top accuracy, regularity in sorting, productivity for more added value

Specialized in winery equipment for 150 years, Bucher Vaslin controls perfectly well the specificities related to grape reception and knows exactly how to meet the requirements of winemakers.

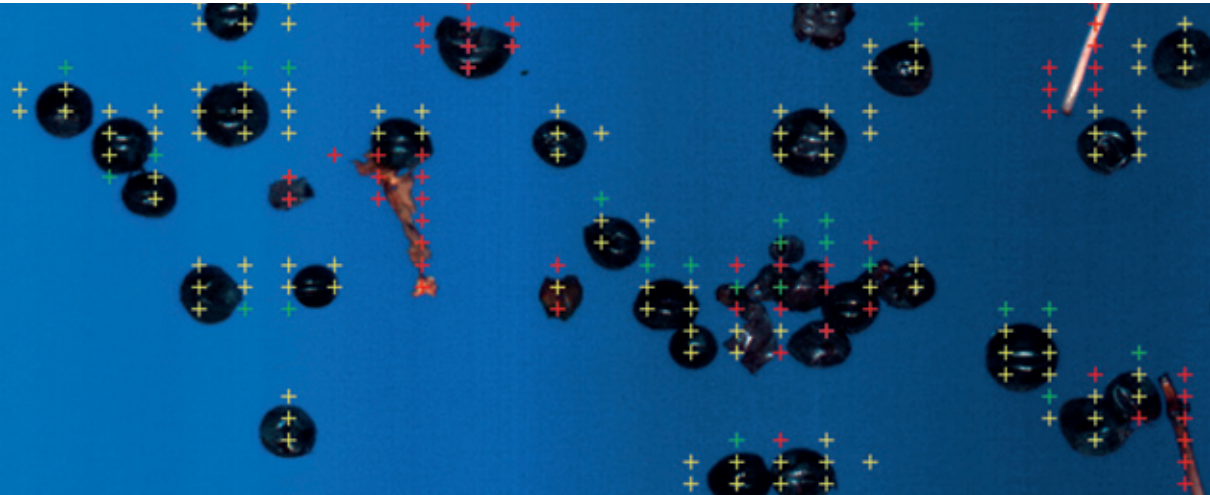
The technological choices made for the Delta Vistalys optic sorting bring outstanding advantages to **sort 100% of grapes corresponding to your own qualitative criteria.**

With the Delta Vistalys line, which enables to reach **a flow rate up to 10t/h**, grape berries are sorted out thanks to a colour video camera. The continuous analysis of images gives the user the possibility to **graduate sorting with an extreme accuracy**, depending on his objectives and initial quality of grapes.



Take a look at the Delta Vistalys video at:
www.buchervaslin.com





The Delta Vistalys counts many users all over the world

Château Smith Haut Lafitte - Bordeaux/Martillac - France

M. Fabien Teitgen - Technical manager

“For ten years, Château Smith Haut Lafitte has been sorting their grapes manually before and after destemming. We are permanently in search of new technologies in order to improve our sorting lines towards an automatic solution. After successful trials in 2008, we have chosen the Vistalys line and thus managed to reach a new qualitative threshold. The Vistalys line will enable us to get rid of every vegetal fragment, pink berries... with very much accuracy, a twice faster flow rate and a very good reproducibility. In addition, the dozen of people dedicated to the grape sorting will be able to accomplish some other essential tasks within the winery.”

Weingut Gerhard Markowitsch - Göttlesbrunn - Austria

M. Gerhard Markowitsch - Private winemaker

“Manual grape sorting is a hard-working task and the result is not always very accurate. With the Delta Vistalys line, the sorting performance is of better quality as vegetables, crushed berries and remaining stems are eliminated. The machine can approximately reach a flow rate of 5-7 tons per hour, 12 hours/day whereas the flow rate, when sorting is made manually, is of 2 tons per hour. Our objective is to produce even tastier and finer wines, especially for our Zweigelt and Blaufränkisch vintages. Delta Vistalys is very helpful to attain this perfection.”

Casa Lapostolle - Valle de Apalta - Chile

M. Jacques Begarie - Technical Manager

“For many years, we have been trying to improve our grape sorting in order to select “pure” berries only, for our tanks, with no leaves, no stalks, no free pedicels, no “raisins”. With the Delta Vistalys line that we have been using since the harvests 2008, we are very happy to reach those objectives. Once the parameters of the machine are set, the table works by itself with an even quality, no stress and flow rates reaching up to 7.5 tons per hour. The Delta Vistalys line enables to obtain a top-quality sorting by using less space, fewer people and less time.”

Delta Vistalys technical choices adapted to the grapes

Grape sorting is the answer to specific requirements

With a grape berry, humid and sweet, whose colour varies very much, it is quite impossible to accomplish a top-quality, automatic and efficient sorting with a “classic” optic process as used in the Food Industry.

The specificity of the Vistalys process is backed up by **technological choices specific to Bucher Vaslin** for an optic sorting especially developed and adapted to the grape berry, accurate and entirely automatic.

Delta Vistalys: an automatic, very accurate sorting

With the Delta Vistalys line, **the winemaker defines his level of sorting** by setting the parameters of colour and shape of the objects. He can decide to select mature and undamaged berries only, thus to eliminate any materials other than grapes (MOG) and immature berries... or let through crushed berries or berries still hung to a small bit of stem.

The winemaker controls entirely his manual or mechanical destemmed grapes and his sorting choices depending on his qualitative objectives.

Essential performances for winemakers

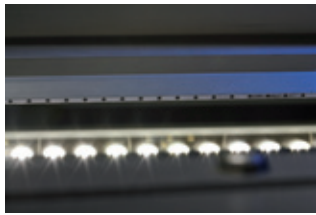
- **Better control** of the period and harvesting conditions (grape quality is secured)
- Creation of **batches depending on their quality level** (by successive sorting)
- **High productivity: up to 10 t/h**, depending on the type of vine and conditions of use
- Flexibility of a **very accurate, 24h/day-running material**
- Up to **10 to 20 sorting people available** for other essential tasks within the winery
- Sorting criteria very easy to parameter thanks to a **self-learning phase**
- **Easy cleaning** (as easy to reach) **and servicing**



Steady spreading and stabilization of the grape berries stuck into the triangle made by the nozzles.

2 Image treatment

3 Sorted grapes

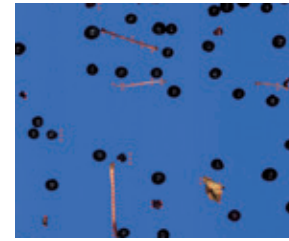


Rail of LED lighting all along the table to light up the berries.

1 Draining and spreading out of the grapes

100% of berries are led towards the Vistalys sorting line via a Delta TRV vibrating table set up ahead so that the destemmed grapes can be drained first. It is feeding the Delta Vistalys line steadily.

2 Image shooting and analysis



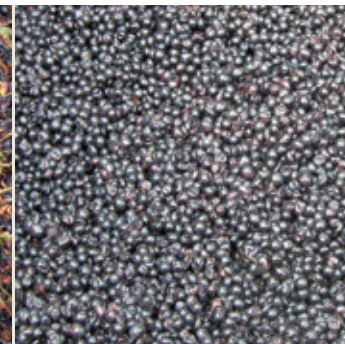
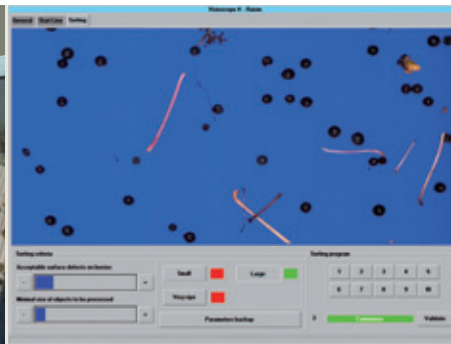
A belt-conveyor, provided with nozzles, is running **quite fastly** (2,5 m/s that is 10 km/h) and steadily. Berries are spread out and then stuck in-between the nozzles, which maintains a very accurate sorting while maintaining a high speed.

Thanks to the permanent lighting of the berries and a background LED lighting **with no shadow** images taken with the colour, high-speed video camera are neat and sharp. They are then treated by a **powerful calculator**, specifically adapted to grapes.

3 Grape sorting

Once images are analyzed, the **elimination of undesirable matters is automatic**, through high frequency, pneumatic ducts.

1 Vibrating table



Simple and friendly

The **self-learning phase** enables to get a quick knowledge of the machine. With a sample selected by the winemaker, the machine can analyse and record the main characteristics of the grape colour to be kept. Then, the winemaker enables to easily adjust the criteria of sorting severity through the PLC: size of matters to be eliminated (small berries, shot berries, unripe grapes, large berries...), the keeping or throwing of "raisins", burst berries...

Feeding

Analysis

Throwing

Sorted grapes

Layouts



Delta Vistalys line with a vibrating table located ahead and belt tables to evacuate good berries on one hand and undesirable matters on the other hand.



Complete sorting line:
• Delta TR conveyor
• Delta E2 destemmer
• Delta TRV 20 vibrating table
• Delta Vistalys



Sorting line on trailer.

Technical characteristics and options

- Delta TRV 20 feeding, spreading and vibrating table located ahead the Vistalys line (dimensions in mm): L 2170 x W 895 x H 1350
- Belt table for the evacuation of undesirable matters
- Belt conveyor to get back the sorted grapes
- 4 wheels equipped with brakes and stabilizing feet
- Stainless steel chassis
- Dimensions (in mm): L 2430 x W 1810 x H 2300
- Maximum flow rate: up to 10 T/h – depending on the type of vine and conditions of use

Key features of Bucher Vaslin

- Specialized in wine-making equipment for nearly 150 years
- Largest grape press portfolio world-wide (more 75,000 presses in use)
- Operations in all wine producing countries in northern and southern hemispheres
- A research-dedicated team
- Product control: from the drawing board to manufacture.
- An Approved Training Centre

A worldwide network of approved distributors

Bucher Vaslin distributors, who are selected for their professionalism, form the backbone on the ground of your local quality service.

Well aware of your needs, our distributors are true regional specialists. Backed by their experience and expertise, they can advise you on a range of matters - choice of equipment, layout of your wine plant - so that assistance is on hand before, during and after grape harvests.

Time-proven advantages which make all the difference

- Useful technological innovations
- Economically efficient solutions
- Professional advisory service
- Efficient technical assistance all-the-year-round
- Guaranteed parts and servicing
- Spare parts service available for 20 years

International operations

France

- Bucher Vaslin - Chalonnes sur Loire (H.Q., R&D, manufacture)
- Bucher Vaslin MS - Rivesaltes (manufacture)

Italy

Bucher Vaslin Spa - Romans d'Isonzo (sales representation)

USA

KLR Machines - Sebastopol, California (sales representation)

Australia

Bucher Vaslin Australia - Melbourne (sales representation)

Chile

Bucher Vaslin Sudamérica - Santiago (sales representation and manufacture)

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