



Destemmers and crushers - Respect of the grapes

Destemmers and crushers Delta E / F

Gentle processing

Poured into the hopper, the grapes are then gradually and gently conveyed according to a pre-set destemming speed. In this zone, the cage has no holes and clusters are taken by the beater fingers without bursting the berries or grinding them.

In the destemming zone, the holes of the electropolished stainless steel cage have been designed with deep and round edges (5 mm for E2 and E4, 6,5 mm for E6 and E8). The shaft is equipped with paddles whose extremity is enlarged and rubberized (E2 and E4) or in stainless steel (E6 and E8). The stress applied on the grapes is therefore better distributed. The berries remain intact, the stems progress easily along the cage.

The cage and the beater rotate in the same direction, avoiding the grapes shearing effects.

In the destemming area, the paddles number is doubled for E2 and E4. Part of those paddles can be dismantled, one out of two for example for E2 and E4. The length of destemming area is then adjustable according to the grape variety and grape maturity. Destemming is more efficient, without excessive beating of the stems.

All the driving elements are grouped in a rear tilting unit that are totally separated from the berries and juice circulation area and do not disturb handlings that can be made around the destemmer.

Multi purposes

Three models of cage, adapted to the average berry diameter thus to the grape variety, are available. They can be easily and rapidly changed.

The rotating speed of the separating unit (beater + cage) is **adjustable and can be controlled through an electronic variator (E2 and E4)**.

The machine installation is very easy. The destemmer can be set on a support, giving entire access to the lower part of the machine, or can be fixed on wheels.

The wheels leave enough space for the pump to be set under the destemmer (E2 and E4).

Hygiene

The washing of the machine is carried out thanks to rotative water guns located at the upper part of the cage. The electropolished cage makes the washing easier. Indeed the specific treatment of the stainless steel limits the grip of materials (Potassium bitartrate, colour...). Side covers allow access to the cage, to the beater and to the evacuation hopper making the checking of the washing quality easier.

Maintenance and security

Handlings and adjustments are easy. The access to the separating elements is made possible by simply lifting the rear part.

The changing of the cage and the beater can be rapidly carried out.

The security is also important. Any handling of the side covers or the rear tilting unit stops the machine automatically.



Standard hopper



Delta E2 / F2



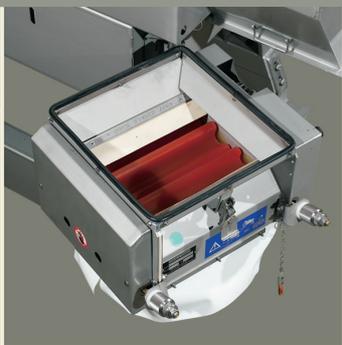
Interchangeable cages



Rotative water guns



Open destemmer for a better access



Delta F2 crusher



Draining hopper

Options

Crusher

Articulated on a vertical axis, the crusher can be put aside in case of no crushing (F2-F4).

The rollers spacing is adjustable without particular tool. Milled buttons make easier the adjustment of crushing. Rollers are made with a high resistant polymer material. For more security, rollers are retractable.

Draining hopper

If the grapes flow is not regulated by a screw hopper or if the grapes are mechanically harvested and very juicy, it is necessary to regulate the feeding of the destemmer:

To do so, you can use the Delta draining hopper:

- The perforated part based at the bottom of the hopper releases free juices and avoids disruptions caused by the juice flow.
- The hopper feeding screw regulates the grapes flow at the nominal output of the machine.

PEHD cage

The High density polyethylen cage is available with a hole diameter of 22 and 25 mm and is approximately 8 mm thick (E2-E4). Holes are rounded in the inner and outer part of the cage (Bucher Vaslin patent) in order to keep the berries intact and prevent from undesirable substances and bits of stems to be released.



PEHD cage



Pumps

For each destemmer of the Delta E range or for each crusher of the Delta F range corresponds a PMV helicoidal rotor pump: E2/F2/PMV2 – E4/F4/PMV4 – E6/FC6/PMV6 – E8/FC8/PMV8.

Dimensions and technical data



Delta E4 / F4



Delta E2 / F2 / PMV2

Delta type		E2	E4	E6	E8	E10
Maximum out up (t/h*)		12 to 20	25 to 30	50 to 55	70 to 80	90 to 100
Power (kW)	Destemmer (E)	1.85	3.0	4.0	5.5	10.7
	Crusher (F)		1.1	3.0	3.0	4.0
	Regulating draining hopper	0,55	0,55	1,5	1,5	3,0
Voltage (V)		400	400	400	400	400
Dimensions (mm) (without option)	Length	2275	2674	2990	3235	3631
	Width	800	950	1160	1262	1416
	Height	1218	1513	1190	1310	1480
Weight (kg)	Destemmer only	255	380	560	780	1290
	Destemmer + Crusher	325	490	760	1230	1740
	Regulating draining hopper	45	45	120	120	
Diameter of the cage perforations (mm)		15/18, 15/22, 22, 25 or 32 interchangeable				
Automatic rinsing		Option	Standard			
Presentation		On mobile wheels or fixed (in option)			Fixed	

* For information only, depending on grape varieties, condition and grapes nature (hand – picked or mechanically harvested). In case of using crusher on whole grapes, the output of the global destemmer + crusher is less than 30% to 50% of the maximum output.

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