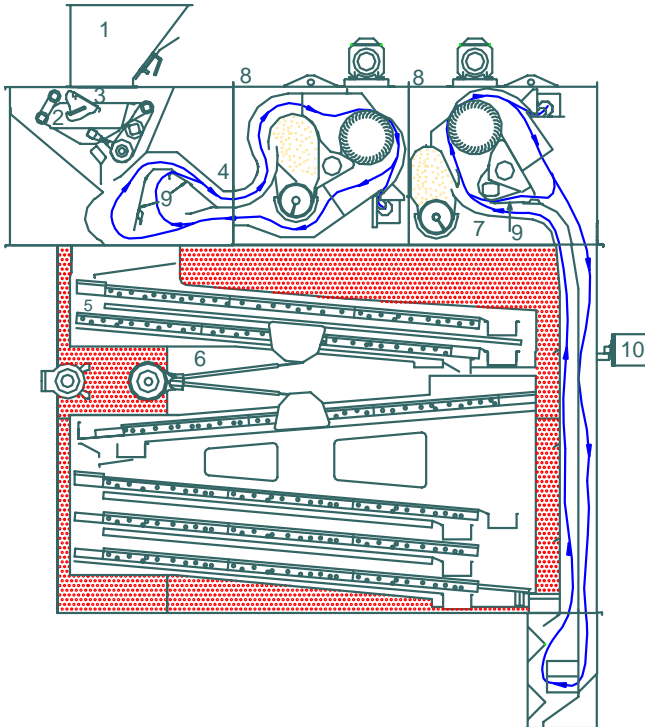


Cimbria DELTA 117, recirculation



Cimbria DELTA 117 has been developed for high quality fine cleaning of malting barley, seed grain, legumes, grass and garden seeds.
The machine's efficient screen system with its accurately matched stroke and frequency, is complemented by Cimbria's highly developed pre- and after suction system.



- 1. Inlet**
Optimal feed over the width of the machine is achieved by a shaker feeder with stepless adjustment via frequency regulation.
- 2. Shaker feeder**
Ensures an uniform feeding on the entire width of the machine also when cleaning difficult flowing products, i.e. grass seed, in addition the shaker feeder also prevent the product from flowing when the shaker feeder has stopped.
- 3. Adjustable feed gate**
The feed gate will only be adjusted when the opening need to be bigger sue to difficult flowing products, i.e. grass seed.
- 4. Pre suction with air recirculation**
A finely adjustable airflow from the systems independent cross flow fan suck through the grain flow directly under the feed gate and suck fine particles to the screw conveyor outlet and mini cyclone. Only 700 m³/h air is lead to the external aspiration.
- 5. Screens**
(L x W = 800 x 1250 mm) can be employed as sieves, sorters or graders, and are effectively kept clean by rubber balls in newly developed ball boxes. It is not necessary to take out the ball boxes when changing screens.

- 6. Eccentric drive system for screen boats**
Supplied standard with fixed speed or alternative frequency regulation.
- 7. After suction with air recirculation**
A close adjustable air flow from the systems independent cross flow fan suck through the grain flow directly into the outlet for cleaned product and suck light particles to the screw conveyor outlet and mini cyclone.
Only 700 m³/h air is lead to the external aspiration.
- 8. Recirculating units (2 pcs.)**
- 9. Adjustment of air quantity**
For adjustment of air quantity in both the pre- and after suction systems (not shown).
- 10. Adjustment**
Remote control of integral motor for shaker feeder, pre suction, after suction and air velocity. The adjustment of the above is placed in a small control box, which is placed in the cleaner.

Capacity based on 15% H₂O:	
10% removal to EU Standard 90+8+2	
Wheat, Rye, Sorghum and Malted Barley	20.0 t/h
Oats, Maize, White Rice	16.0 t/h
Soya, Peas, Rape, Coffee	16.0 t/h
Paddy Rice	12.0 t/h
Sunflower, Roasted Coffee	8.0-9.0 t/h
Rye Grass, Clover	3.0-3.5 t/h
Dimensions:	
Machine height	3785 mm
Machine length	3905 mm
Machine width	1940 mm
Height, standard inlet hopper	532 mm
Screen area:	18.0 m ²
Square outlet pipes:	
(Adapter to round available)	
a) from screens	160 x 160 mm
b) from expansion chamber	240 x 240 mm
Motors: (standard)	
Screen	2.2 kW
Shaker feeder (integral)	0.75 kW
1 fan pre	3.0 kW
1 fan post	4.0 kW
Air volume:	
Internal air volume (pre- and after suction)	14,000 m ³ /h
External suction (60 mm WG)	4,300 m ³ /h
Total weight of cleaner	
Freight volume	31 m ³
Dynamic loading at 4.6 - 4.8 Hz:	
PH=+/-2845N	PV1=+/-1338N
PV2=+/-1503N	10N= 1 kg

Technical data can vary for certain of the above due to continued development, or a different machine composition.

This DELTA machine can, in a few minutes, be converted to different cleaning programmes, e.g.:

- Beans, lupin seed, maize
- Oats, wheat
- Malting barley
- Rye grass, Red fescue
- Rape, peas, lentils

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