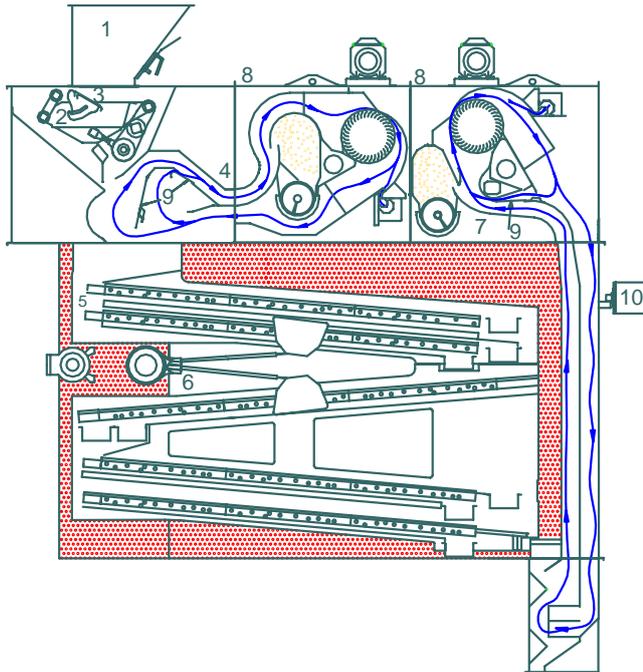


Cimbria DELTA 116, recirculation



Cimbria DELTA 116 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 a uniform feeding on the entire width of the machine also when cleaning difficult flowing products, i.e. grass seed, in addition the shaker 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 due 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

(LxW = 800x1250 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 is placed in a small control box, which is placed on the cleaner.

Capacity based on 15% H₂O: 10% removal to EU Standard 90+8+2	
Wheat, Rye, Sorghum and Malted Barley	12.0 t/h
Oats, Maize, White Rice	9.0 t/h
Soya, Peas, Rape, Coffee	9.0 t/h
Paddy Rice,	7.0 t/h
Sunflower, Roasted Coffee	4.5-5.0 t/h
Rye Grass, Clover	1.8-2.2 t/h
Dimensions:	
Machine height	3455 mm
Machine length	3870 mm
Machine width	1940 mm
Height, standard inlet hopper	532 mm
Screen area:	15.0 m²
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)	14000 m³/h
External suction (60 mm WG)	4000 m³/h
Total weight of cleaner	3,810 kg
Freight volume	26 m³
Dynamic loading at 4.6 - 4.8 Hz:	
PH=+/-1752N Pv1=+/-1434N Pv2=+/-1582N 10N= 1kg	

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, lupine seed, maize
- Oats, wheat
- Rye grass, Red fescue
- Rape, peas, lentils

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