Cimbria Delta Mega 167

Cimbria Mega Cleaner type 167 has been developed for the high capacity pre-cleaning and sorting of grain, peas, rape seed and fine cleaning of bread grain and malting barley. The machine's large screen area with its accurately matched stroke and frequency is complemented by Cimbria's highly efficient recirculation pre- and after suction system.

1. Inlet
Optimal feed over the width of the machine is achieved by a shaker feeder with step less adjustment via integral motor.

2. Pre Suction with Air Recirculation
A finely adjustable airflow from the systems independent cross flow fan sucks through the grain flow directly under the feed gate and removes fine particles to the screw conveyor outlet and mini cyclone. Only 1000 m³/h air is lead to the central aspiration.

3. Distribution Aggregate (50%)
The distribution aggregate divides the grain flow. 50% to upper screen box and 50% to lower screen box.

4. Screens
(L x W = 1000 x 1800 mm) can be employed as sieves, graders or sorters and are effectively kept clean by means of rubber balls in newly developed steel ball boxes. The machine has in each row of screens 1 outlet per. Screen, and can therefore be provided with screens of different hole sizes.

5. Eccentric Drive System for Screen Boats
Is delivered with fixed speed.

6. Drive-Boss
This patented suspension system for the screen box guarantees a well-balanced performance and with its oscillating screen movement results in the sharpest possible sorting.

7. After Suction with Air Recirculation
A close adjustable air flow from the systems independent cross flow fan sucks through the grain flow directly into the outlet for cleaned product and removes light particles to the screw conveyor outlet and mini cyclone. Only 1000 m³/h air is lead to the external aspiration.

8. 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 on the cleaner.

The control system is prepared for Scada system.

### Pre cleaning: (max 20% moisture content)
- Wheat, Maize, Rape: 240 t/h
- Paddy rice: 160 t/h
- Peas: 200 t/h

### Industrial cleaning based on quality requirements: (max 15% moisture content)
- Wheat, Maize: 200 t/h
- Rape seed, 98% purity: 100 t/h
- Paddy rice: 60-120 t/h
- Peas: 160 t/h
- Malting Barley: 30 t/h

### Dimensions:
- Machine height: 4510 mm
- Machine length: 4830 mm
- Machine width: 2950 mm
- Height standard inlet hopper: 820 mm
- Screen area: 21.6 m²
- Square outlet pipes: 240 x 240 mm

### Motors: (standard)
- Screen: 5.5 kW
- 1 fan pre: 4.0 kW
- 1 fan post: 7.5 kW
- Shaker feeder: 2.2 kW

### Air volume:
- Internal air volume (pre- and after suction): 20,000 m³/h
- External suction (60 mm WG): 5,000 m³/h

### Total weight of the cleaner:
- 10,300 kg

### Frequent volume:
- 50 m³

### Dynamic loading at: 4.6 - 4.8 Hz:
- PH= +/- 1320 N
- PV= +/- 3760 N
- 10 N = 1 kg

The technical data can vary sometimes because of redevelopment of the machine or another combination of the machine.

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