Cimbria DELTA Pre Cleaner 145 is specifically designed for pre cleaning of all cereals, maize, rice, peas, rape seed and similar material before drying or storage using a 13 m² screen area in conjunction with a sophisticated aspiration system.

The screen cleaner is equipped with feeding roller, one scalping screen, two rows of pre screens and two rows of sand sieves. The screen cleaning effect of the 13 m² screen area is increased by Cimbria’s highly effective pre- and after suction system, extracting light impurities from the material both at the machine inlet and outlet. The pre- and after suction waste, dust and lightweight trash is deposited in two separate expansion chambers. The inlet is equipped with a feeding roller dispersing the material to be cleaned equally over the entire width of the machine.

1. Inlet
The inlet is equipped with a feeding roller dispersing the material to be cleaned equally over the entire width of the machine. Stepless speed adjustment of the feed roller is achieved with a 3-step sprocket wheel regulation. This enables the throughput to be adjusted very precisely to suit the particular material being cleaned. A buffer bin, supplemented with level control, is recommended.

1a. Alternative inlet
Optimal feed over the width of the machine is achieved by a shaker feeder with stepless adjustment via frequency regulating. 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.

Max. capacity 50 t/h.

2. Spring loaded safety flap

3. Pre Suction System
The pre suction system removes dust and light weight trash before screening. The aspiration opening of the pre suction channel is adjustable thus achieving a variable air velocity.

4. Scalping Screen

5. Pre screens

6. Sand Sieves
Each of the two screen boats comprises 2 rows of sieves. The upper screens in each of the two rows separate oversized material and sand. Total screen area is 12 m².

7. Outlet for Cleaned Product

8. Air Screen
Light weight particles are "air separated" at the screen which is positioned under the suction opening of the after suction channel. Air screens are delivered with two different types of wire mesh.

9. After Suction Channel
The light weight product separated at the air screen is conveyed through the after suction channel to the expansion chamber.

10. False Air Intake
Two false air flaps for controlling the air quantity in both the pre- and after suction system.

11. Expansion Chambers

12. Screw Conveyor
Two screw conveyors discharge the products separated in the expansion chambers to the sacking off points.

13. Air Divider Shutter (suction point)
Distribution of the air quantity for respectively pre- and after suction system.

CAPACITY GUIDE (max. 20% moisture content):

<table>
<thead>
<tr>
<th>Material</th>
<th>Wheat, Barley, Maize</th>
<th>Rice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>60 t/h</td>
<td>30-35 t/h</td>
</tr>
</tbody>
</table>

The capacity may vary depending on the waste quantity and the moisture content of the raw material.

Overall Dimensions:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (without fan)</td>
<td>2895 mm</td>
</tr>
<tr>
<td>Length</td>
<td>3270 mm</td>
</tr>
<tr>
<td>Width (incl. motor)</td>
<td>2300 mm</td>
</tr>
<tr>
<td>Screen area</td>
<td>13 m²</td>
</tr>
</tbody>
</table>

Motors:

- Feed roller: 1.1 kW
- Alternative shaker feeder, max. capacity 50 t/h: 0.75 kW
- Screens: 1.5 kW
- Fan (optional/extra): 7.50 kW

Air volume:

- Pre- and after suction: 11000 m³

Weight:

- 2310 kg

Freight volume:

- 22 m³

Dynamic load (4.6-4.8 Hz):

- Ph = +/- 1986 N
- Pv = +/- 2188 N (10 N = 1 kg)

For further information please ask for the Dimension Drawings, the Principle Diagram and the Operations and Instruction Guidance for screen cleaning machines.