## CLEANER DELTA 144.1

### GENERAL
- **Brand**: Cimbria
- **Designation**: Air-screen cleaner
- **Model**: DELTA 144.1
- **Use**: Industry
- **Application**: Pre cleaning or industrial cleaning of cereal grains, pulses, and oilseeds intended for seed.

### PERFORMANCE
<table>
<thead>
<tr>
<th>Material</th>
<th>Bulk density t/m³</th>
<th>Moisture content %</th>
<th>Capacity t/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley</td>
<td>0.68</td>
<td>20 (15)</td>
<td>50 (35)</td>
</tr>
<tr>
<td>Coffee, green</td>
<td>0.65</td>
<td>20 (15)</td>
<td>18–30 (20)</td>
</tr>
<tr>
<td>Maize</td>
<td>0.71</td>
<td>20 (15)</td>
<td>40 (28)</td>
</tr>
<tr>
<td>Malt</td>
<td>0.52</td>
<td>20 (15)</td>
<td>25 (25)</td>
</tr>
<tr>
<td>Oats</td>
<td>0.51</td>
<td>20 (15)</td>
<td>30 (10)</td>
</tr>
<tr>
<td>Peas, common</td>
<td>0.7</td>
<td>20 (15)</td>
<td>40 (20–25)</td>
</tr>
<tr>
<td>Rapeseed</td>
<td>0.74</td>
<td>20 (7–9)</td>
<td>40 (20)</td>
</tr>
<tr>
<td>Rice, paddy</td>
<td>0.51</td>
<td>20 (15)</td>
<td>22–25 (8–12)</td>
</tr>
<tr>
<td>Rice, white</td>
<td>0.75</td>
<td>20 (15)</td>
<td>40 (10)</td>
</tr>
<tr>
<td>Rye</td>
<td>0.69</td>
<td>20 (15)</td>
<td>50 (35)</td>
</tr>
<tr>
<td>Sorghum</td>
<td>0.64</td>
<td>20 (15)</td>
<td>50 (35)</td>
</tr>
<tr>
<td>Soybeans</td>
<td>0.72</td>
<td>20 (15)</td>
<td>40 (20–25)</td>
</tr>
<tr>
<td>Sunflower</td>
<td>0.4</td>
<td>14 (7–9)</td>
<td>15 (15)</td>
</tr>
<tr>
<td>Wheat</td>
<td>0.76</td>
<td>20/15 (15)</td>
<td>50/50 (35)</td>
</tr>
</tbody>
</table>

**Legend**: Values in parentheses are for industrial cleaning. Other values are for pre cleaning.

**Note**: Capacities may vary for different impurity and moisture contents.

### WEIGHT
- **Weight, empty**: 2 140 kg
- **Weight, operating (wheat)**: 2 560 kg
- **Weight, choked (wheat)**: 4 325 kg

### OPERATING SPEED
- **Shaker feeder (shaft)**: 140–700 rpm
- **Screens (shaft)**: 300 rpm

### ELECTRICAL RATINGS
- **Motor, shaker feeder**: 0.75 kW
- **Motor, screens**: 2.2 kW

### AIR SUPPLY AND EXTRACTION
- **Aspiration volume**: 10 600 m³/h

### DYNAMIC LOADS
- **Horizontal load “Ph”**: ±4 070 N @ 4.6–4.8 Hz
- **Vertical load “Pv1” (inlet end)**: ±3 506 N @ 4.6–4.8 Hz
- **Vertical load “Pv2” (outlet end)**: ±2 471 N @ 4.6–4.8 Hz

**Note**: Dynamic loads are for normal operation.

### NOISE
- **Sound pressure level, empty**: 73.4 dB(A)

### COMPLIANCE
- **EU machinery legislation**: Yes
- **EU ATEX legislation**: Option*
- **EU food contact legislation**: Option*
  * Consult your Cimbria dealer for full details.

### ENVIRONMENTAL CONDITIONS
- **Environment**: Indoors
- **Temperature**: From -20°C to +40°C
- **Altitude**: Up to 800 m

### SURFACE PROTECTION
- **Frame and enclosure**: Paint (corrosivity category C2; low durability)

### LIFETIME
- **Intended life limit**: 20 years