# CLEANER DELTA 159

## GENERAL
- **Brand**: Cimbria
- **Designation**: Air-screen cleaner
- **Model**: DELTA 159
- **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>200 (160)</td>
</tr>
<tr>
<td>Coffee, green</td>
<td>0.65</td>
<td>20 (15)</td>
<td>50–90 (80)</td>
</tr>
<tr>
<td>Maize</td>
<td>0.71</td>
<td>20 (15)</td>
<td>180–200 (150)</td>
</tr>
<tr>
<td>Malt</td>
<td>0.52</td>
<td>20 (15)</td>
<td>100 (90)</td>
</tr>
<tr>
<td>Oats</td>
<td>0.51</td>
<td>20 (15)</td>
<td>100 (30)</td>
</tr>
<tr>
<td>Peas, common</td>
<td>0.7</td>
<td>20 (15)</td>
<td>180–200 (80–180)</td>
</tr>
<tr>
<td>Rapeaseed</td>
<td>0.74</td>
<td>20 (7–9)</td>
<td>180–200 (80)</td>
</tr>
<tr>
<td>Rice, paddy</td>
<td>0.51</td>
<td>20 (15)</td>
<td>80–100 (30–40)</td>
</tr>
<tr>
<td>Rice, white</td>
<td>0.75</td>
<td>20 (15)</td>
<td>180–200 (45)</td>
</tr>
<tr>
<td>Rye</td>
<td>0.69</td>
<td>20 (15)</td>
<td>200 (160)</td>
</tr>
<tr>
<td>Sorghum</td>
<td>0.64</td>
<td>20 (15)</td>
<td>200 (160)</td>
</tr>
<tr>
<td>Soybeans</td>
<td>0.72</td>
<td>20 (15)</td>
<td>180–200 (80–180)</td>
</tr>
<tr>
<td>Sunflower</td>
<td>0.4</td>
<td>14 (7–9)</td>
<td>80 (60–80)</td>
</tr>
<tr>
<td>Wheat</td>
<td>0.76</td>
<td>20/15 (15)</td>
<td>200/250 (160)</td>
</tr>
</tbody>
</table>

## WEIGHT
- **Weight, empty**: 7 600 kg
- **Weight, operating (wheat)**: 9 280 kg
- **Weight, choked (wheat)**: 17 000 kg

## OPERATING SPEED
- **Shaker feeder (shaft)**: 100–500 rpm
- **Screens (shaft)**: 280–285 rpm

## ELECTRICAL RATINGS
- **Motor, shaker feeder**: 1.5 kW
- **Motor, screens**: 3 kW

## AIR SUPPLY AND EXTRACTION
- **Aspiration volume**: 12 000–18 000 m³/h

## DYNAMIC LOADS
- **Horizontal load “Ph”**: ±1 420 N @ 4.6–4.8 Hz
- **Vertical load “Pv1” (inlet end)**: ±7 575 N @ 4.6–4.8 Hz
- **Vertical load “Pv2” (outlet end)**: ±7 575 N @ 4.6–4.8 Hz

## NOISE
- **Sound pressure level, empty**: 77.6 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**: Pre-galvanising

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