D1861 electrostatic paint atomizer

Westwind has been supplying rotary air bearing technology into the OEM electrostatic coating industry for over 30 years, and is seen as the market leader due to its constant product innovation and development. Westwind’s latest atomizer, the D1861, is based on similar technology as previous products but has been designed specifically for the lighter duties of the industrial electrostatic coating market with simplified parts for easier stripdown/rebuild, and should be used in static or linear mover spray booth applications. Suitable coating markets would include: Domestic goods, metal furniture and building materials, aerospace and automotive parts, agricultural equipment, metal components etc.

Westwind air bearing atomizers for coating applications:

- **Low turbine air consumption** using industry standard air pressure
- **High reliability** minimizing down-time costs
- **Long lifetime** due to non-contacting air bearings with positive pressure air purge
- **Improved atomization** due to higher shaft speeds
- **Fast acceleration / braking** for maximum productivity
- **Zero contamination** to process due to oil-free bearings
### D1861 Atomizer spindle specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value 1</th>
<th>Value 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearing air supply pressure (kg/sq.cm)</td>
<td>4.5</td>
<td>5.6</td>
</tr>
<tr>
<td>Speed range (rpm, continuous)*</td>
<td>5000-40000</td>
<td>5000-70000</td>
</tr>
<tr>
<td>Bell cup diameter (mm)*</td>
<td>40-60</td>
<td>40-70</td>
</tr>
<tr>
<td>Bearing air flow (NL/min)</td>
<td>70.8</td>
<td>85</td>
</tr>
<tr>
<td>Turbine air flow (without bell cup, NL/min)</td>
<td>106 @ 40krpm</td>
<td>160 @ 60krpm</td>
</tr>
<tr>
<td>Turbine air pressure (without bell cup, kg/sq.cm)</td>
<td>0.77 @ 40krpm</td>
<td>1.1 @ 60krpm</td>
</tr>
<tr>
<td>Mass, without bell cup (kg)</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Application mounting**: Fixed or linear mover

**Note**: *Dependant on bell cup design*

### Features include:

- **Low mass** using nickel plated aluminium components
- **High efficiency patented** air turbine with braking air
- **Internal shaft taper** for bell cup mounting
- **M18 internal shaft thread**
- **Reflective optical** speed ring
- **Large internal shaft bore** for customer paint tubes
- **Slides directly into** customer spray pod

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**Westwind Air Bearings**

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