CONVEYOR TRANSFER POINTS
DRY FOG™ DUST SUPPRESSION AND CONTROL APPLICATIONS

THE CHALLENGE
FUGITIVE DUST EMISSIONS AT CONVEYOR TRANSFER POINTS

Belt conveyors and associated transfer points are two of the most common areas where fugitive dust emissions pose a challenge to bulk material handling and processing operations.

THERE ARE TYPICALLY 2 MAIN POINTS OF DUST CREATION

1. The **drop or discharge point** which contains particles that are too light to fall down into the process.

2. The **material impact point** where dust is created when the material hits the belt below.

THE SOLUTION
DRY FOG™ RESolves DUST ISSUES IN THE MOST CHALLENGING ENVIRONMENTS

DSI Dry Fog™ Dust Suppression systems address both areas of dust creation. Fogging nozzles are placed at the discharge point to knock airborne dust down and into the process. At the impact point, a blanket of fog is created to agglomerate with the airborne dust before it leaves the area and conveyor skirtboard.

Dry Fog™ can effectively remove airborne particulate matter in the 1-10 microns size range and larger by impacting and agglomerating with the airborne dust particles.

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## ADVANTAGES

**DRY FOG™ OFFERS BENEFITS AND EFFICIENCIES OVER COMPETING TECHNOLOGIES**

<table>
<thead>
<tr>
<th>Category</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Only Water and Compressed Air Required</td>
<td>• No expensive ductwork, chemicals, or filters needed.</td>
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<td>Limited Amounts of Water Needed</td>
<td>• Less water used than water sprays or chemical systems.</td>
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<td>• Less than 0.1% moisture added to the product.</td>
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<td>• No BTU penalty if material is used as fuel.</td>
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<td>• Does not damage belt conveyors or other plant equipment.</td>
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<td>Cost Effective</td>
<td>• 99% dust removal efficiency possible at a fraction of the cost of a dust collection system.</td>
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<tr>
<td>Best in Class Technology</td>
<td>• Designated by the US Environmental Protection Agency as a Best Demonstrated Technology for controlling dust from sub-bituminous coal and lignite.</td>
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## INDUSTRIES SERVED

- Power Generation
- Mining/Minerals
- Biomass
- Marine & Rail Terminals
- Aggregate/Cement/Limestone/Sand
- Aluminum/Bauxite
- Steel Slag Recovery
- Glass Recycling
- Pulp & Paper

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