

# 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.





## ADVANTAGES

DRY FOG™ OFFERS BENEFITS AND EFFICIENCIES OVER COMPETING TECHNOLOGIES

### ONLY WATER AND COMPRESSED AIR REQUIRED

- No expensive ductwork, chemicals, or filters needed.

### LIMITED AMOUNTS OF WATER NEEDED

- Less water used than water sprays or chemical systems.
- Less than 0.1% moisture added to the product.
- No BTU penalty if material is used as fuel.
- Does not damage belt conveyors or other plant equipment.

### COST EFFECTIVE

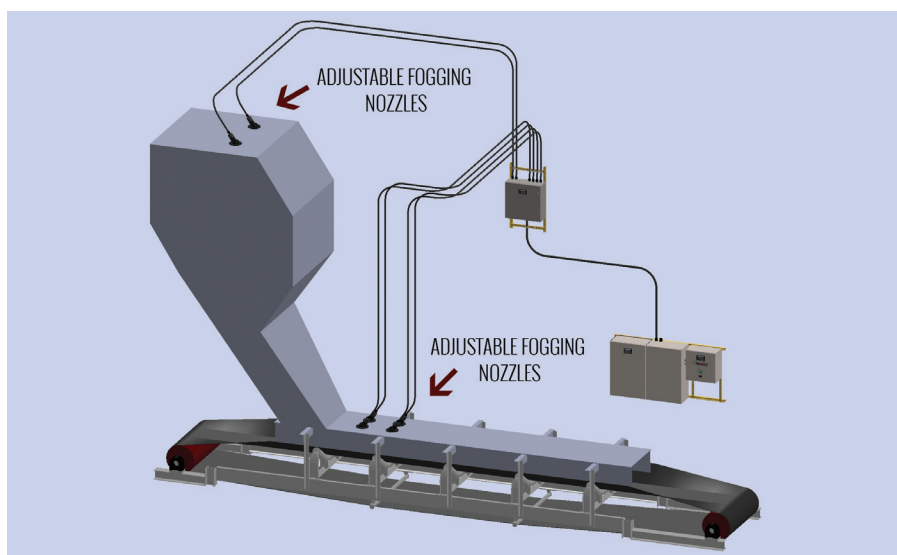
- 99% dust removal efficiency possible at a fraction of the cost of a dust collection system.

### BEST IN CLASS TECHNOLOGY

- Designated by the US Environmental Protection Agency as a Best Demonstrated Technology for controlling dust from sub-bituminous coal and lignite.

## INDUSTRIES SERVED

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



SAMPLE APPLICATION

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