

The Dangers of Dust



Silica Exposure is a Serious Threat to Nearly 2 Million U.S. Workers



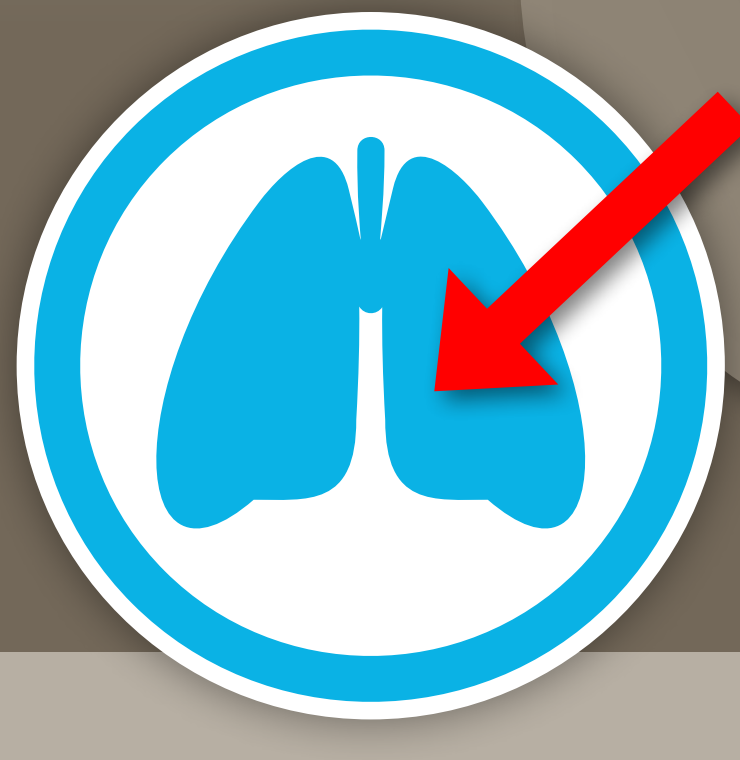
High Risk Jobs:

- Abrasive Blasting
- Foundry Work
- Stonecutting
- Rock Drilling
- Quarry Work
- Tunneling

Source: Occupational Safety & Health Administration

Respirable Crystalline Silica

is the most toxic form, putting workers at risk of Silicosis, Lung Cancer, Chronic Obstructive Pulmonary Disease (COPD) and Kidney Disease



Classified as Type 1 (a known human carcinogen)

Source: International Agency of Research on Cancer

15,000 Deaths

attributed to Silicosis over the last three decades

Source: National Institute of Occupational Safety and Health

70% of dusts are explosive

given an adequate ignition source and appropriate dust air concentration



Secondary dust explosions are more destructive than primary explosions (due to increased concentrations of dispersed combustible dust that is activated from the initial explosion)

Source: CeramicIndustry.com

Combustible dust explosions are a serious hazard in American industry. Existing efforts inadequately address this hazard

1980

2005



281
INCIDENTS OCCURRED

119
PEOPLE KILLED

718
PEOPLE INJURED

Source: Chemical Safety Board

A dust layer of just **1/32" thickness** over 5% of the floor area is sufficient to cause a **very destructive explosion**



24%

A dust explosion occurs every single week

24% occur in the food industry

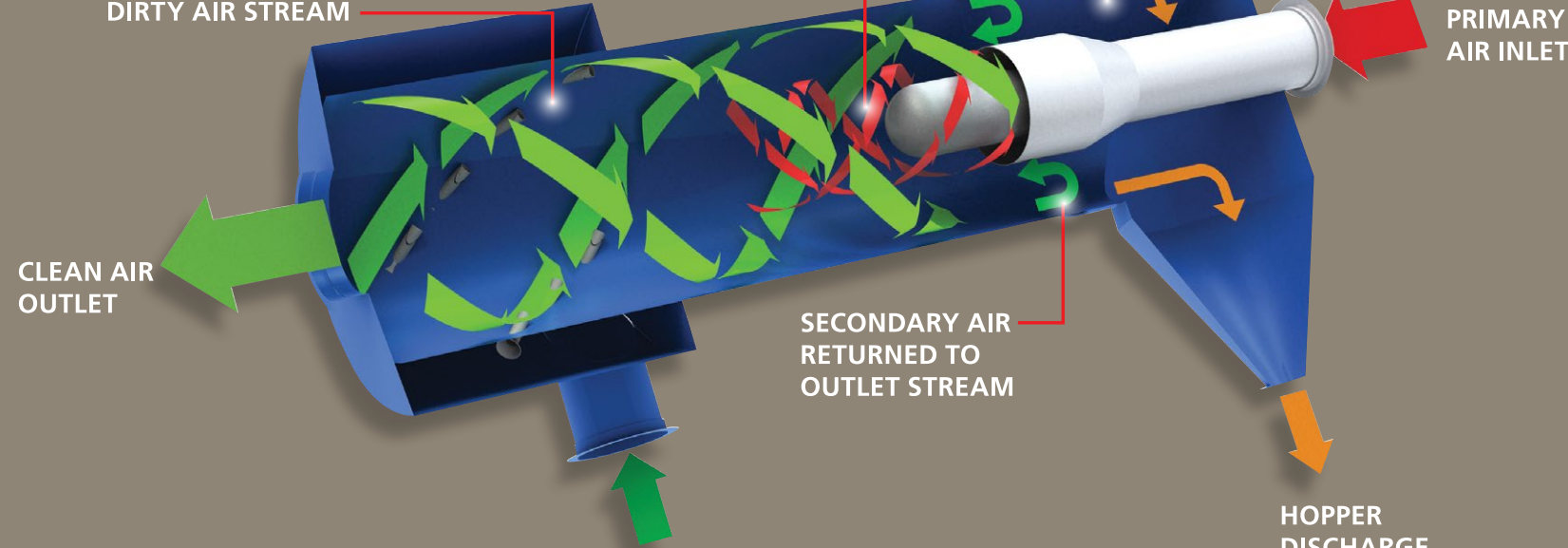
Source: HFL Risk Services Limited

Got Dust? Aerodyne dust collectors solve industrial dust collection problems

SECONDARY AIR NOZZLES GENERATE A VORTEX TO CENTRIFUGALLY SEPARATE THE PARTICULATE FROM THE DIRTY AIR STREAM

INNER VORTEX IS GENERATED BY A SPINNER PLACED IN THE DIRTY AIR STREAM

PARTICULATE WILL FOLLOW THE WALLS OF THE COLLECTOR AND BE DEPOSITED IN THE HOPPER



www.dustcollectorhq.com