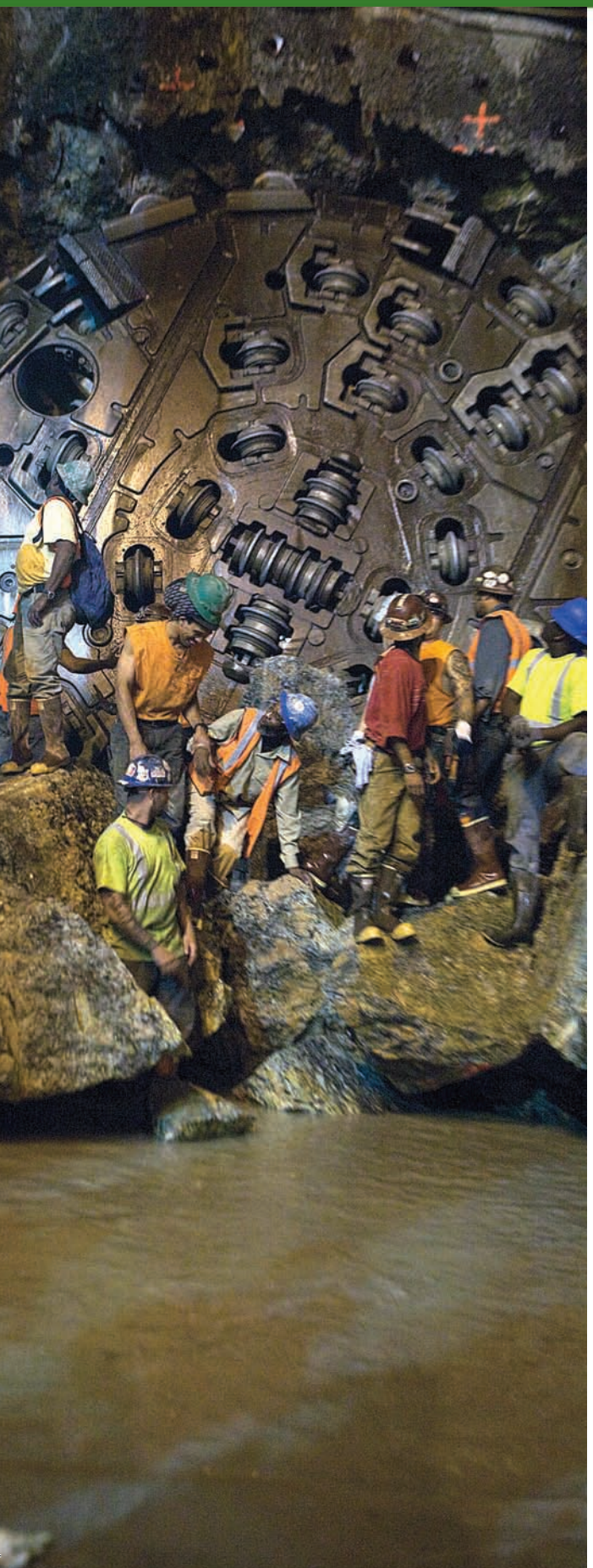
# Dust-Buster® Simplex
## Dust Control for Tunnel Boring



## Reduce Dust by Up to 95%

When tunnels are being bored, the issue is not the light at the end of the tunnel. It's what's going on in that place deep under the ground where there is no daylight in sight.

Midwest's line of Dust-Buster® Simplex foam-spraying systems make tunnel-boring operations safer, cleaner, and more environmentally friendly. Easy to install and operate, Dust-Buster systems are manufactured to withstand years of use in harsh environments.

In conjunction with Midwest's CDS-8040 particle-absorbing foam agent, the Dust-Buster system captures dust at the face of boring operations and along the muck belt. This eliminates problems with material flow, machinery performance, and mud that occur when water rather than foam is used as a dust suppressant.

***The Dust-Buster system uses 90% less water, gets better results, and alleviates health issues more effectively than water used alone.***

### Vital statistics

- Alleviate respiratory issues caused by poor air quality
- Increase visibility and improve tunnel illumination
- Prevent muck from adhering to belts or buckets
- Comply with regulatory standards
- Functions effectively in soft- and hard-rock boring
- Customizable to meet the needs of specific operations
- Uses standard industrial voltage, 3-phase, 480 VAC
- Motors designed for manual or automatic on/off

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## Dust-Buster in action

Connected to your tunnel boring machinery, the Dust-Buster sprays a high-expansion foam that captures and agglomerates airborne dust particles at the face and at the transfer point as muck travels to shuttle cars.

The process requires 90 percent less water than other methods, which protects moving parts on the conveyor belt from exposure to abrasive dust particles that water cannot capture. The composition of Midwest's CDS-8040 foam agent also keeps conveyor belts and muck dry enough to resist caking and adhering to belts and shuttle cars.

## Key specs and features (standard unit)

- Industrial-duty water pump, chemical injection pump
- Water and air-flow meters
- Pre-wired control panel
- Foam accumulator
- Air, water and chemical pressure gauges
- Two 20-foot lengths of 1-inch foam hose
- 100-foot air/solution hose
- Spray manifold with four nozzles
- 400lbs, 30"L x 18"W x 36"H

## Foam vs. Water

Here are some important facts to consider. Unlike water or other methods, foam:

- Delivers up to 95% dust-control efficiency
- Requires only 10% of the water required when water is the only treatment
- Works well with all types of water
- Keeps operational and maintenance costs down
- Minimizes muddy conditions
- Eliminates material flow problems associated with water

***A side by side comparison:*** *The high surface tension of a water droplet (left) prevents it from penetrating and coating dust particles. Midwest's CDS-8040 foam agent (right), which has low surface tension quickly blankets dust particles so they do not become airborne.*

## More reasons to choose Midwest

Midwest is the world leader in environmentally sound, dust-control technology for every application where fugitive dust is a problem. We bring our customers more solutions, documentation and support than any other manufacturer.

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