



Product News

New compact Dust Suppression Design delivers exceptional Mobility, Versatility

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Peoria (IL), United States -

As effective dust control continues to gain priority across a wide range of industries, a new equipment design has been engineered to provide an unmatched level of mobility and performance, delivering effective particle suppression for new and existing applications. With a throw of 100 feet (30 meters), the adjustable elevation angle and user-defined oscillation allow precise aiming of a powerful dust-capturing mist, which is comprised of millions of droplets per minute in the range of 50-200 microns - proven to be the most efficient size for most project needs.



The DustBoss Atom is a fan-less, self-contained design with remote control and 4G LTE telematics.

The DustBoss Atom from [BossTek](#) is a true innovation in mobile dust suppression, a fan-less, self-contained design that incorporates remote control and 4G LTE telematics technologies as standard equipment to deliver an unprecedented combination of suppression and monitoring. The compact, diesel-powered unit fits in the back of a pickup truck, so it can be quickly positioned and relocated to address dust-generating activity directly at the source. It also has fork lift pockets on the front and back.

“After more than 15 years of designing purpose-built dust suppression equipment in a variety of sizes and styles, we found that some companies expressed a desired for a smaller, more maneuverable unit, with a lower price point,” said BossTek VP of Sales Mike Lewis. “This machine is well suited to demolition projects, recycling operations, transfer stations, bulk material processing, ports/shipping applications, quarrying/crushing, biomass handling, concrete curing and even indoor operations where significant air movement may be undesirable.”



The new design is well suited to waste transfer, recycling and port applications.

The Atom features a Kohler KD440 power plant -a 9.1 horsepower air-cooled engine that meets Tier-IV Final emissions standards and complies with California CARB

requirements. A unique air filtration system increases performance and lengthens service intervals, even in dusty environments. Its integrated fuel injection system and overhead cam design are coupled with a cast iron cylinder liner for consistent, reliable

service. The engine and pump subassembly is secured by four isolation mounts that minimize vibration transfer to the frame. The high-impact stainless steel nozzle features a quick disconnect for easy replacement.

“In addition to its compact size, what really sets this unit apart from other designs is the built-in communications features,” Lewis continued. “The hand-held remote controls virtually every function, and the telematics provide a web-based platform to monitor status and streamline service and support.



The portable size and easy mobility make the Atom an excellent solution for demolition projects.

“The system tracks engine hours, operating temperature and average run time per day, and provides readouts of suggested maintenance,” he added. “It can be programmed to monitor machine location via GPS, and can even troubleshoot remotely or ‘geo-fence’ each unit, so it’ll only function within proscribed locations. The telematics are so sophisticated that users can remotely disable machines, if needed.”

The system is fitted with a Cat Pumps 56G1 water pump that requires just 40 PSI (0.344 BAR) minimum inlet pressure, connected by a 1” cam-and-groove quick-

disconnect fitting. Considered the world's most dependable high-pressure reciprocating triplex plunger and piston pump design, the unit has specially-formulated seals and high density, polished ceramic plungers that are optimized for long service life and durability. It also includes protection against pressure drops: if a low-pressure situation is detected, the unit shuts down to prevent damage to the pump or overheating of the engine.