



FREIGHT HANDLERS FLATTEN DUST AT UKRAINE PORT TERMINAL



TIS is the largest private stevedoring company in the Ukraine, with busy terminals on the nation's deepest port at Adzhalik Bay, where ocean vessels have 24/7 access to services.

[Odessa Region, Ukraine] -- The largest private stevedoring company in the Ukraine has significantly improved air quality and reduced dust-related complaints at the country's deepest port, a busy marine terminal where ocean-going vessels have 24/7 access to services. The key is a mobile dust suppression unit designed to produce massive numbers of tiny water droplets that are specifically sized to attract dust particles, then launch them with a powerful oscillating fan that can cover nearly half a football field with a dust-trapping mist.

Situated on the Black Sea at Adzhalik Bay, about 24 km south from the city of Odessa, TIS (TransInvestService Ltd.) specializes in transshipment of coal, grain and fertilizers in bulk quantities. With the opening of its new coal handling berth at the end of 2008 -- and a terminal that has the estimated capacity to move 10 million metric tons per year -- the facility greatly increased its already significant potential for dust.



The DustBoss® helps TIS trap airborne particles and prevent dust migration from bulk materials handling operations, including coal, fertilizers and grain. The powerful unit creates a virtual dust blanket over nearly half a football field from a single location, and can be easily relocated on its wheeled carriage.

“With the ability to handle such large quantities of dust-generating materials, we felt that some form of suppression had become a necessary element of port management,” observed Alexey Shlapakov from TIS. “We have specialized equipment for many of our operations, and we started doing some research on the available technologies for dust control. After comparing features and benefits, we specified a DustBoss model DB-60,” he said.

The DB-60 is the largest design in the product family from Dust Control Technology (Peoria, IL), a specialist in this growing niche industry. The firm currently provides a number of electric models as well as hydraulically-powered units that are mounted on a frame for easy transport with a skid steer.

“Dust and odor management is becoming more critical all the time,” commented the company’s CEO, Edwin Peterson. “What used to be considered an option a few years ago is now frequently a mandatory component of project planning,” he said. “Tighter regulations and an overall enhanced environmental awareness are both contributing to that trend.”

The Facility

The port has an average depth of about 14 meters and a quay wall that is more than 1,000 meters long. It features two ship loaders capable of handling 950 tons / hour and a portal crane with a lift capacity of 16 tons.

Situated on 500 hectares of land, the TIS facility has a loading capacity of up to 25,000 metric tons of coal per day, with warehouse storage for about 270,000 tons. It can also handle as much as 35,000 metric tons of grain per day, with warehouse storage for approximately 380,000 tons, and is equipped to load up to 25,000 metric tons of fertilizers per day, with warehouse space for about 270,000 tons. Company officials estimate that as many as 1,000 trucks can be loaded in a single day, or up to 250 railway cars.

With that kind of capacity, TIS needed a dust control solution to match. The DB-60 is built around a powerful 25 HP motor that generates 30,000 CFM, giving the unit a reach of 200 feet or more and allowing it to cover as much as 21,000 square feet of area (1,950 square meters). It features 30 brass nozzles developed to atomize droplets to the optimum size for dust suppression -- between 50 and 200 microns -- and can be customized to suit specific particle sizes and operating conditions. The high-performance design includes an optional booster pump that delivers up to 200 PSI of pressure from a 2” supply hose.

“We noticed the effects of the DB-60 right away,” Shlapakov continued. “The air quality was noticeably improved, with a definite reduction in fine airborne particles. We soon found that dust-related complaints had also dropped. The unit has proven its value in service, under some very difficult conditions, and has met all of our expectations.”

TIS is the Ukraine's largest private stevedoring company, located at the nation's deepest freight harbor. Situated on Adzhalik Bay, which never freezes, even the largest ocean vessels have unrestricted access to services around the clock. The firm is equipped with grab loaders, 11 km of conveyors and other specialized equipment, earning it a reputation for rapid turnaround times.

Dust Control Technology is a leader in effective dust and odor control solutions for demolition, construction, recycling, transfer stations, composting facilities, mining operations, wood processing and scrap industries. The company's Dust Boss[®] product line helps reduce labor costs, freeing up manpower for more important tasks. The automated units also use less water than hoses and sprinklers, with some customers realizing payback in less than six months and netting an annual cost savings of more than \$50,000.

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FOR MORE INFORMATION

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