



DUST PROFILE

DUST SUPPRESSION



**DUST MOVES FAST,
WE MOVE FASTER.**

2025



INTRODUCTION

Ritestand specialise in providing effective and environmentally responsible solutions to control dust across mining, construction, and industrial sites. Uncontrolled dust not only impacts air quality and visibility but also poses significant health, safety, and environmental risks.

Our advanced dust suppression technology is designed to minimise airborne particles, reduce water usage, and improve operational efficiency. Whether for haul roads, stockpiles, or open areas, we tailor our solutions to deliver cleaner, safer, and more sustainable working environments.

Today, we'll walk you through our products, applications, and the measurable benefits our systems bring to your operations.

DUST SUPPRESSION SOLUTIONS

We offer a comprehensive range of dust suppression services tailored to meet the specific needs of your operation. Our three primary solutions are:

WIDE-AREA SUPPRESSION

Large-scale dust control for open areas such as stockpiles, tailings, construction sites, and mine perimeters. This solution provides broad coverage through misting systems or surface treatments, ensuring continuous dust management across extensive zones.

LOCALISED SUPPRESSION

Targeted dust control applied directly at the source — such as crushers, conveyors, transfer points, and loading zones. This focused approach minimizes airborne particles where they originate, improving air quality and visibility in high-activity areas.

ROAD DUST SUPPRESSION – DUST FORCE

Designed for haul roads, access routes, and worksite traffic areas. Our road treatment solutions reduce dust emissions, improve traction and safety, and extend road surface life while cutting down on water consumption and maintenance costs.

DUST MONITORING

We provide comprehensive dust monitoring solutions to track and manage airborne particle levels across your site. Our systems deliver real-time data and analysis to ensure to optimise suppression performance, and maintain a safer, cleaner working environment.

APPLICATION

- Stockpiles
- Tailings
- Construction sites
- Mine perimeters.

SOLUTIONS

FIXED FOG CANNON

Mounted on a concrete or steel platform, the fixed fog cannon offers flexible, remote-controlled operation with adjustable spray angles. It provides efficient dust suppression, covering a wide area while reducing water use by 70–80% compared to traditional systems.

RITESTAND
FOGCANNON
DUST SUPPRESSION



MOBILE FOG CANNON



The fog cannon adopts flat mobile trailer installation, easy turning, flexible operation, can be used sprinkler traction operation or other vehicles independent traction operation.





Port



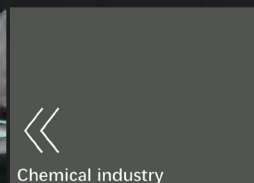
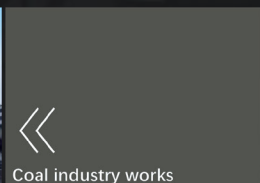
Export



Steel mill



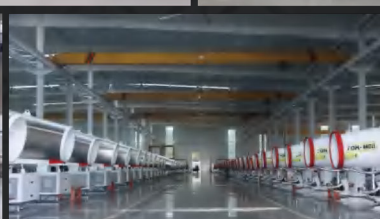
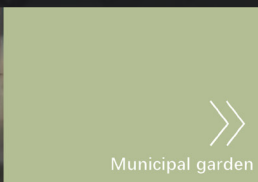
Coal industry works



Power plant



Municipal garden



APPLICATION

- Crusher and screening plants
- Conveyor transfer points
- Material loading and unloading zones
- Stockpiles and hoppers
- Truck and rail loading areas



SOLUTIONS

TAILOR-MADE DUST SUPPRESSION SYSTEMS

We design and build custom inline dust suppression systems engineered for each site's unique conditions. Using our specialised nozzle configurations and precise water dispersion, our systems effectively capture and control airborne dust at the source—improving air quality, visibility, and environmental compliance.

ROAD DUST SUPPRESSION

APPLICATION

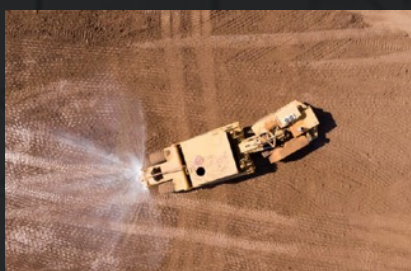
- Haul Roads
- Access Roads
- Worksite traffic areas



SOLUTIONS

ROAD DUST CONTROL SOLUTIONS WITH DUSTFORCE

Our road dust control systems combine advanced application methods with DustForce, a high-performance dust suppressant additive. Designed for unpaved roads and haul routes, DustForce binds fine particles to the surface, reducing dust emissions, improving visibility, and minimizing maintenance. This solution ensures long-lasting dust control while conserving water and enhancing road safety.



RITESTAND DUSTFORCE

DUST SOLUTIONS

The nano-polymer blend forms a strong, surface-active bond with dust particles, binding them together to prevent airborne emissions. By creating a durable, water-resistant layer, it keeps road surfaces stable and dust-free even under traffic or rainfall. This results in cleaner air, reduced water use, lower vehicle wear, and improved overall efficiency in dust control operations.

ADVANTAGES

- Strong bonding action effectively captures and controls dust at the source
- Significantly reduces water consumption and tanker operating time
- Lowers vehicle wear, tyre damage, and maintenance costs
- Improves fuel efficiency through smoother, cleaner road surfaces
- Highly resistant to rain wash-out for longer-lasting performance
- Enhances air quality by reducing airborne particles
- Cost-effective and environmentally friendly dust control solution



RITESTAND DUSTCHECK DUST SOLUTIONS



RITESTAND DUSTCHECK – INTELLIGENT DUST MONITORING SOLUTION

A cost-effective, IoT-enabled dust monitoring system that delivers real-time feedback to help you proactively manage dust levels on-site.

It provides comprehensive, real-time environmental data—including dust concentration (PM2.5 and PM10), wind speed and direction, temperature, and humidity—to assist with faster and more effective dust suppression responses.

AN ONBOARD GPS ENSURES PRECISE LOCATION TRACKING FOR ACCURATE ISSUE IDENTIFICATION.

All data is displayed on an intuitive online dashboard, accessible from any device, and securely stored in the cloud for three months for record-keeping and compliance purposes.

By delivering continuous, location-based insights, Ritestand DustCheck helps improve dust control efficiency, site safety, and environmental compliance, while reducing downtime and operational costs.



1. LATEST IN IOT TECHNOLOGY

Sensors located in wind direction and speed, dust metrics (PM2.5 and PM10), temperature, humidity and location. All collected information is transmitted to a central system.

2. ROBUST AND DURABLE

Designed to weather the diverse conditions Units can be bolted to a current tenant, with all components securely housed inside a solid steel casing.

3. CUSTOMIZABLE POWER SUPPLY OPTIONS

Ritestand DustCheck can be customized with an online web-based dashboard, accessed from any computer or smart device. 3 months of historical data are required.

4. REMOTE MONITORING & ALERTS



Existing conditions can be easily viewed on an online web-based dashboard accessed from any computer or smart device. 3 months of low as far as required for critical events.



WWW.RITESTAND.COM



MATTHEW DALY: +27 79 695 6848



INFO@RITESTAND.COM



PLOT 84 LONRHO DRIVE ELANDSDRIFT,
MOOINOOI, SOUTH AFRICA, 0325

